

# Uttar Pradesh State Hydro Electric Power Corporation Ltd. Varanasi

ENERGY METER READING FOR THE MONTH OF January 2006 to 31st Jan 2006  
**SONE EASTERN LINK CANAL H.E.P. AGNOR**

METER	READING IN K.W.H.	(POWER FACTOR 0.97)	UNITS (K.W.H.)			REMARKS
	Initial Reading as On <u>1.1.06</u>	Final Reading as On <u>31.12.06</u>	GENERATED	CONSUMED BY STN. AUX	SENT OUT	
UNIT No. <u>I</u>	32	87,530	27,945			
UNIT No. <u>II</u>	40	92,30	32,590	84.4	1,72,041	
UNIT No. <u>III</u>	00.00	84.94				
UNIT No. <u>IV</u>						
UNIT No. <u>V</u>						
UNIT No. <u>VI</u>						
UNIT No. <u>VII</u>						
UNIT No. <u>VIII</u>						
UNIT No. <u>IX</u>						
UNIT No. <u>X</u>						
TOTAL			12,05,800	8494	1,72,041	

Prepared By

Associated Engineering Centre 2226036 (Off)  
 Site

13/1/06  
 EE/Asstt. Engineer (O.&M.)  
 Sone Eastern Link Canal HEP  
 (Off.)

Executive Engineer  
 J.E./A.E.E. Supply Subdivision

For information and necessary action.

Sd/-

(Yogendra Prasad)  
 Executive Engineer (E/M)

Memo No. 118/EC

Agnoor, dated 12/1/06

Copy forwarded to Manager (E/M) and necessary action.



~~ANNEXURE I (8)~~

Jainagra.

Bihar State Hydroelectric Power Corporation Ltd.  
Sone Bhawan, 2nd floor, B.C.P.Marg, Patna  
.....

Energy Bill for the month of March-09 to July-2010 of unit (name of project) Jainagara S.H.E.P.

Bill No 2010-11/01

Date of issue 15 09.2010

Tariff order - BERC order dated 22.12.2009.

Due date of payment

Name of consumer - BSEB, Supply voltage 33KV Supply Point - 132/33KV Grid S/S Mathurapur

PART - A Energy sent out

In case metering is done in sending end.(Gen.end)

1 Total Unit Generated (As per Joint Meter Reading)	83,646.00 KWH
2 Auxiliaries Consumption	347.00 KWH
3 Unit sent Out	83,299.00 KWH
4 Transmission (Transformation) Loss (@0.5% of sl.no.3)	416.00 KWH
5 Net Unit sent out to BSEB system	82,883.00 KWH

PART - B Energy sent out

In case metering is done in receiving end.(BSEB end)

1 Total Unit sent out as per joint meter reading	N.A.
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PART - C Energy Bill

1 Total units sent to BSEB system  
(Part A (5) + Part B (1))

82,883.00 KWH

2 Rate per unit Rs. 2.49

3 Total Amount of Bill

Rs.

206,378.67

say Rs.

206,379.00

(Rupees two lacs six thousand three hundred seventy-nine) only.

Accountant  
BSE

Manager (ACs)

**BHAR STATE HYDROELECTRIC POWER CORPORATION Limited.**  
**JAINAGARA, small Hydroelectric Power Project**

Joint Export/Import Meter Reading, Metering Point after Power Transformer from Power House. Meter installed at P.H. in 11KV at out going feeder. From P.H. JAINAGARA.

For the Period: 01.3.09 to 01.4.09

Time & Date of Reading: 12.10 hrs DT 01.4.09

Export Meter Reading in KWH			Import Meter Reading in KWH			Net of Power Export from JAINAGARA Power House in KWH
Initial	Final	Difference	Initial	Final	Difference	
5832	11407	5575	40	56	16	5559

Dhan Chandra  
 For, Bihar State Hydroelectric Power Corporation Limited.

[Signature]  
 Bihar State Electricity Board

[Signature]



Annexure I (H)

**BIHAR STATE HYDROELECTRIC**  
**POWER CORPORATION LTD.,**  
**PATNA.**

**Energy Generation Register**



पिण्डरुद्राकरकाद  
आदि पिण्डागारि

01 - दिनांक- १०.१०.१७

[illegible]

संभित कं अङ्गं नर सम्यक् वैद्यरोपरांत निगम द्वारा उत्पदिता  
विधित के लिए निम्न प्रकार से परिचालन दूर निधीरित दिया जाता है ।  
रु 1.50 प्रति घण्ट

४४	३१.३.७६ तक-	र०	१.५० प्रति यूनिट
४५	१.४.७६ से ३१.३.७७ तक-	र०	१.७० प्रति यूनिट
४६	१.४.७७ से ३१.३.७८ तक-	र०	१.२० प्रति यूनिट
४७	१.४.७८ से ३१.३.७९ तक-	र०	२.०० प्रति यूनिट

४८ १९७९ के बाद का वी पुनः समीक्षा की जायेगी।

विष्णुत्तर एतदुपनिषत्तिः से वादित्या मे,

उत्तमं विभक्तम् ।

पि.दा.किं- १०.१.१७

ज्ञापक- ३। प्रतीतिप अर्थात्क, राजकीय मुद्राणांय एवं प्रकाशन, गुल्लारञ्चाना, प्रतीतिप गलट के अगामी ऊं मे प्रकाशनार्थ प्रेषित । पटना को चित्रार गलट के अगामी ऊं मे प्रकाशनार्थ प्रेषित ।

१७७१  
१७७२  
१७७३

दिनांक- १०.१०.१७

नापाक- ३६ ।  
 प्रतीतिविधि प्रबन्ध निवेदार्थ, निबन्धन राज्य जल विधुत निगम निम्न,  
 पटन/ सविब, उर्ध्व विभाग, निबन्धन राज्य जल विधुत निगम निम्न,  
 सरकारी के सभी विभागों में विद्युत/ सभी विभागों को  
 सुवर्ण में आश्चर्यकृत राज्य निम्न ।

*Srinivasulu*

Commissioning dated -

25MHEP Dashed

Unit - 1 - 19-01-23

-2- 6-03-93

-4: 11-CH-93

9. SHEP BAZUM

✓ 6 - 11-03-76

12) E GHEP-Vakmiki Nagari:-

Unit-1 - 3-08-2019

-3- 3-11-37.

# INDEX

① SMHEP, D-chizi = P/a 33KV

g) SEHEP. Barium = P17 33kV

3/E G H E P. V. Naq at. - P/50 132Kv

(4) KOST HYDEL, BIRPUR - 2/50

(5-) ALINGER H E. P ALINGER- P/75

k) Payment from BSEB:- P/180

7) NASA KIRMANI, S.H.P. - P/1166

[illegible]



NEHRF-ON-SONG

DATE	UNIT	CONSUMED	UNIT CONTRACT	RECURRING UNIT	UNIT	BILL	RECURRING UNIT	REMARKS
1934-35	1,528,800	18,300	1,74,300	1,32,854.35	1=50	8,01,750=00	12,40,200=00	102 dt 19-3-93
1934-35	1,94,000	19,700	1,74,300	1,44,013.75	1=50	8,61,450=00	19,98,900=00	102 dt 19-3-93
1934-35	1,94,000	19,700	1,74,300	1,61,478.05	1=50	8,61,450=00	19,98,900=00	102 dt 19-3-93
1934-35	1,94,000	19,700	1,74,300	1,74,444.15	1=50	8,61,450=00	19,98,900=00	102 dt 19-3-93
1934-35	1,94,000	19,700	1,74,300	1,92,706.55	1=50	8,61,450=00	19,98,900=00	102 dt 19-3-93
1934-35	1,94,000	19,700	1,74,300	2,13,808.55	1=50	8,61,450=00	19,98,900=00	102 dt 19-3-93
1934-35	1,94,000	19,700	1,74,300	2,31,131.55	1=50	8,61,450=00	19,98,900=00	102 dt 19-3-93
1934-35	1,94,000	19,700	1,74,300	2,41,82,755	1=50	8,61,450=00	19,98,900=00	102 dt 19-3-93
1934-35	1,94,000	19,700	1,74,300	2,57,201.55	1=50	8,61,450=00	19,98,900=00	102 dt 19-3-93
1934-35	1,94,000	19,700	1,74,300	2,69,869.55	1=50	8,61,450=00	19,98,900=00	102 dt 19-3-93
1934-35	1,94,000	19,700	1,74,300	2,86,433.55	1=50	8,61,450=00	19,98,900=00	102 dt 19-3-93
1934-35	1,94,000	19,700	1,74,300	Total Amount - Rs. 2,30,48,782-50	1=50	8,61,450=00	19,98,900=00	102 dt 19-3-93
1934-35	1,94,000	19,700	1,74,300	1,32,854.35	1=50	8,01,750=00	12,40,200=00	102 dt 19-3-93
1934-35	1,94,000	19,700	1,74,300	1,44,013.75	1=50	8,61,450=00	19,98,900=00	102 dt 19-3-93
1934-35	1,94,000	19,700	1,74,300	1,61,478.05	1=50	8,61,450=00	19,98,900=00	102 dt 19-3-93
1934-35	1,94,000	19,700	1,74,300	1,74,444.15	1=50	8,61,450=00	19,98,900=00	102 dt 19-3-93
1934-35	1,94,000	19,700	1,74,300	1,92,706.55	1=50	8,61,450=00	19,98,900=00	102 dt 19-3-93
1934-35	1,94,000	19,700	1,74,300	2,13,808.55	1=50	8,61,450=00	19,98,900=00	102 dt 19-3-93
1934-35	1,94,000	19,700	1,74,300	2,31,131.55	1=50	8,61,450=00	19,98,900=00	102 dt 19-3-93
1934-35	1,94,000	19,700	1,74,300	2,41,82,755	1=50	8,61,450=00	19,98,900=00	102 dt 19-3-93
1934-35	1,94,000	19,700	1,74,300	2,57,201.55	1=50	8,61,450=00	19,98,900=00	102 dt 19-3-93
1934-35	1,94,000	19,700	1,74,300	2,69,869.55	1=50	8,61,450=00	19,98,900=00	102 dt 19-3-93
1934-35	1,94,000	19,700	1,74,300	2,86,433.55	1=50	8,61,450=00	19,98,900=00	102 dt 19-3-93
1934-35	1,94,000	19,700	1,74,300	Total Amount - Rs. 2,30,48,782-50	1=50	8,61,450=00	19,98,900=00	102 dt 19-3-93



# STATE EASTERN H.C. PROJECT, BARUN

Month	Particulars	Unit Generated	Any consumption	Unit Sent out
June 96	SEHEEP/ 36-97	6,03,500	72,480	5,31,020
July 96	-10/10/1997	11,03,300	32,070	10,71,230
Aug 96	-10/10/1997	7,82,400	28,650	7,53,750
Sept 96	-10/10/1997	9,35,100	19,730	9,15,370
Oct 96	-10/10/1997	14,97,000	37,590	14,59,410
Nov 96	-10/10/1997	5,28,700	13,300	5,09,400
Dec 96	-10/10/1997	2,97,800	12,150	2,85,650
Jan 97	-10/11/1997	11,62,500	27,660	11,34,840
Feb 97	-10/11/1997	3,31,100	27,160	3,03,940
March 97	1997-98	76,82,610		
April 97	-10/13/1997	2,65,400	9,150	1,96,250
May 97	-10/15/1997	6,03,700	28,020	5,75,680
June 97	-10/16/1997	3,55,300	28,350	3,26,950
July 97	-10/17/1997	17,47,100	42,690	17,04,410
Aug 97	-10/18/1997	13,06,900	34,500	12,72,400
Sept 97	-10/19/1997	12,52,200	32,580	12,19,620
Oct 97	-10/20/1997	1,17,400	10,620	1,06,780
Nov 97	-10/21/1997	2,25,200	18,420	2,06,780
Dec 97	-10/22/1997	11,00,200	30,930	10,69,270
Jan 98	-10/23/1997	10,35,800	28,650	10,07,150
Feb 98	-10/24/1997	7,04,500	23,640	6,80,860
March 98	1997-98	57,66,150		
April 98	-10/14/1998	75,900	2,790	67,110
May 98	-10/15/1998	7,46,100	20,880	7,25,220
June 98	-10/16/1998	13,49,500	32,370	13,17,130
July 98	-10/17/1998	12,11,000	29,040	11,81,960
Aug 98	-10/18/1998	10,99,000	26,730	10,72,270
Sept 98	-10/19/1998	11,80,900	27,150	11,53,750
Oct 98	-10/20/1998	1,57,900	8,220	1,49,680
Nov 98	-10/21/1998	10,70,700	33,810	10,36,890
Dec 98	-10/22/1998	10,24,400	23,130	10,01,270
Jan 99	-10/23/1998	9,52,400	23,380	9,29,020
Feb 99	-10/24/1998			
March 99	-10/25/1998			

Particulars	Unit	Paid	Particulars	Unit
5,31,020	1=70	9,02,734=00	3,02,734=00	1865
16,02,850	1=70	18,21,091=00	27,23,325=00	10-8
23,56,000	1=70	12,81,375=00	40,05,200=00	10-8
32,31,370	1=70	16,58,127=00	56,63,357=00	11-1
47,90,780	1=70	24,80,977=00	81,44,326=00	11-1
53,00,180	1=70	8,65,980=00	90,10,306=00	11-1
55,85,830	1=70	41,85,605=00	94,95,911=00	11-1
67,20,670	1=70	19,29,228=00	1,14,25,137=00	11-1
76,82,610	1=70	16,35,298=00	1,30,62,437=00	11-1
Total Amount:- Rs	1,30,60	43,37=00		
78,78,860	1=80	3,53,250=00	1,34,19,687=00	1597
84,54,540	1=80	10,36,224=00	1,44,49,911=00	17-6
93,81,490	1=80	16,68,510=00	1,61,18,421=00	18-7
1,10,85,900	1=80	30,67,938=00	1,71,86,359=00	19-5
1,23,58,300	1=80	22,90,320=00	2,14,76,679=00	20-8
1,35,77,920	1=80	21,95,316=00	2,36,71,995=00	21-1
1,36,11,700	1=80	1,92,204=00	2,38,64,199=00	21-1
1,38,91,480	1=80	3,72,204=00	2,42,36,403=00	21-1
1,49,60,750	1=70	18,17,759=00	2,60,54,162=00	21-1
1,59,67,900	1=80	18,12,870=00	2,78,67,038=00	21-1
1,66,48,760	1=80	12,25,548=00	2,90,98,580=00	21-1
Total Amount:- Rs	1,60,32	2,143=00		
1,67,15,870	2=00	1,34,220=00	2,92,26,800=00	113
1,74,41,090	2=00	1,45,04,400=00	3,06,77,240=00	182
1,87,58,220	2=00	2,63,480=00	3,33,11,500=00	193
1,99,40,180	2=00	2,63,480=00	3,56,75,480=00	195
2,10,12,450	2=00	2,14,540=00	3,78,19,960=00	197
2,21,66,200	2=00	2,30,750=00	4,01,27,460=00	198
2,23,15,880	2=00	2,99,360=00	4,04,86,820=00	199
2,33,52,770	2=00	2,79,280=00	4,25,20,800=00	200
2,43,54,040	2=00	2,02,440=00	4,46,21,500=00	201
2,52,90,060	2=00	1,87,810=00	4,68,21,500=00	202



# EAST WA DAK H.C. PROJECT, VAMMIKINAGAR

Sl. No.	Gate No.	Area (Acres)	Unit	Rate	Amount
1	13/97-98	2.78, 15	1	14,28,200	39,58,400
2	14/97-98	2.58, 17	1	14,28,200	36,85,600
3	15/97-98	2.14, 80	1	14,28,200	30,58,400
4	16/97-98	1.4, 50	1	14,28,200	20,00,000
5	17/97-98	1.1, 100	1	14,28,200	15,71,000
6	18/97-98	1.1, 100	1	14,28,200	15,71,000
7	19/97-98	1.1, 100	1	14,28,200	15,71,000
8	20/97-98	1.1, 100	1	14,28,200	15,71,000
9	21/97-98	1.1, 100	1	14,28,200	15,71,000
10	22/97-98	1.1, 100	1	14,28,200	15,71,000
11	23/97-98	1.1, 100	1	14,28,200	15,71,000
12	24/97-98	1.1, 100	1	14,28,200	15,71,000
13	25/97-98	1.1, 100	1	14,28,200	15,71,000
14	26/97-98	1.1, 100	1	14,28,200	15,71,000
15	27/97-98	1.1, 100	1	14,28,200	15,71,000
16	28/97-98	1.1, 100	1	14,28,200	15,71,000
17	29/97-98	1.1, 100	1	14,28,200	15,71,000
18	30/97-98	1.1, 100	1	14,28,200	15,71,000
19	31/97-98	1.1, 100	1	14,28,200	15,71,000
20	32/97-98	1.1, 100	1	14,28,200	15,71,000
21	33/97-98	1.1, 100	1	14,28,200	15,71,000
22	34/97-98	1.1, 100	1	14,28,200	15,71,000
23	35/97-98	1.1, 100	1	14,28,200	15,71,000
24	36/97-98	1.1, 100	1	14,28,200	15,71,000
25	37/97-98	1.1, 100	1	14,28,200	15,71,000
26	38/97-98	1.1, 100	1	14,28,200	15,71,000
27	39/97-98	1.1, 100	1	14,28,200	15,71,000
28	40/97-98	1.1, 100	1	14,28,200	15,71,000
29	41/97-98	1.1, 100	1	14,28,200	15,71,000
30	42/97-98	1.1, 100	1	14,28,200	15,71,000
31	43/97-98	1.1, 100	1	14,28,200	15,71,000
32	44/97-98	1.1, 100	1	14,28,200	15,71,000
33	45/97-98	1.1, 100	1	14,28,200	15,71,000
34	46/97-98	1.1, 100	1	14,28,200	15,71,000
35	47/97-98	1.1, 100	1	14,28,200	15,71,000
36	48/97-98	1.1, 100	1	14,28,200	15,71,000
37	49/97-98	1.1, 100	1	14,28,200	15,71,000
38	50/97-98	1.1, 100	1	14,28,200	15,71,000
39	51/97-98	1.1, 100	1	14,28,200	15,71,000
40	52/97-98	1.1, 100	1	14,28,200	15,71,000
41	53/97-98	1.1, 100	1	14,28,200	15,71,000
42	54/97-98	1.1, 100	1	14,28,200	15,71,000
43	55/97-98	1.1, 100	1	14,28,200	15,71,000
44	56/97-98	1.1, 100	1	14,28,200	15,71,000
45	57/97-98	1.1, 100	1	14,28,200	15,71,000
46	58/97-98	1.1, 100	1	14,28,200	15,71,000
47	59/97-98	1.1, 100	1	14,28,200	15,71,000
48	60/97-98	1.1, 100	1	14,28,200	15,71,000
49	61/97-98	1.1, 100	1	14,28,200	15,71,000
50	62/97-98	1.1, 100	1	14,28,200	15,71,000
51	63/97-98	1.1, 100	1	14,28,200	15,71,000
52	64/97-98	1.1, 100	1	14,28,200	15,71,000
53	65/97-98	1.1, 100	1	14,28,200	15,71,000
54	66/97-98	1.1, 100	1	14,28,200	15,71,000
55	67/97-98	1.1, 100	1	14,28,200	15,71,000
56	68/97-98	1.1, 100	1	14,28,200	15,71,000
57	69/97-98	1.1, 100	1	14,28,200	15,71,000
58	70/97-98	1.1, 100	1	14,28,200	15,71,000
59	71/97-98	1.1, 100	1	14,28,200	15,71,000
60	72/97-98	1.1, 100	1	14,28,200	15,71,000
61	73/97-98	1.1, 100	1	14,28,200	15,71,000
62	74/97-98	1.1, 100	1	14,28,200	15,71,000
63	75/97-98	1.1, 100	1	14,28,200	15,71,000
64	76/97-98	1.1, 100	1	14,28,200	15,71,000
65	77/97-98	1.1, 100	1	14,28,200	15,71,000
66	78/97-98	1.1, 100	1	14,28,200	15,71,000
67	79/97-98	1.1, 100	1	14,28,200	15,71,000
68	80/97-98	1.1, 100	1	14,28,200	15,71,000
69	81/97-98	1.1, 100	1	14,28,200	15,71,000
70	82/97-98	1.1, 100	1	14,28,200	15,71,000
71	83/97-98	1.1, 100	1	14,28,200	15,71,000
72	84/97-98	1.1, 100	1	14,28,200	15,71,000
73	85/97-98	1.1, 100	1	14,28,200	15,71,000
74	86/97-98	1.1, 100	1	14,28,200	15,71,000
75	87/97-98	1.1, 100	1	14,28,200	15,71,000
76	88/97-98	1.1, 100	1	14,28,200	15,71,000
77	89/97-98	1.1, 100	1	14,28,200	15,71,000
78	90/97-98	1.1, 100	1	14,28,200	15,71,000
79	91/97-98	1.1, 100	1	14,28,200	15,71,000
80	92/97-98	1.1, 100	1	14,28,200	15,71,000
81	93/97-98	1.1, 100	1	14,28,200	15,71,000
82	94/97-98	1.1, 100	1	14,28,200	15,71,000
83	95/97-98	1.1, 100	1	14,28,200	15,71,000
84	96/97-98	1.1, 100	1	14,28,200	15,71,000
85	97/97-98	1.1, 100	1	14,28,200	15,71,000
86	98/97-98	1.1, 100	1	14,28,200	15,71,000
87	99/97-98	1.1, 100	1	14,28,200	15,71,000
88	100/97-98	1.1, 100	1	14,28,200	15,71,000
89	101/97-98	1.1, 100	1	14,28,200	15,71,000
90	102/97-98	1.1, 100	1	14,28,200	15,71,000
91	103/97-98	1.1, 100	1	14,28,200	15,71,000
92	104/97-98	1.1, 100	1	14,28,200	15,71,000
93	105/97-98	1.1, 100	1	14,28,200	15,71,000
94	106/97-98	1.1, 100	1	14,28,200	15,71,000
95	107/97-98	1.1, 100	1	14,28,200	15,71,000
96	108/97-98	1.1, 100	1	14,28,200	15,71,000
97	109/97-98	1.1, 100	1	14,28,200	15,71,000
98	110/97-98	1.1, 100	1	14,28,200	15,71,000
99	111/97-98	1.1, 100	1	14,28,200	15,71,000
100	112/97-98	1.1, 100	1	14,28,200	15,71,000

Sl. No.	Gate No.	Area (Acres)	Unit	Rate	Amount	Progressive Amount	Balance
1	13/97-98	2.78, 15	1	14,28,200	39,58,400	39,58,400	0
2	14/97-98	2.58, 17	1	14,28,200	36,85,600	76,44,000	0
3	15/97-98	2.14, 80	1	14,28,200	30,58,400	1,06,02,400	0
4	16/97-98	1.4, 50	1	14,28,200	20,00,000	1,26,02,400	0
5	17/97-98	1.1, 100	1	14,28,200	15,71,000	1,41,73,400	0
6	18/97-98	1.1, 100	1	14,28,200	15,71,000	1,57,44,400	0
7	19/97-98	1.1, 100	1	14,28,200	15,71,000	1,73,15,400	0
8	20/97-98	1.1, 100	1	14,28,200	15,71,000	1,88,86,400	0
9	21/97-98	1.1, 100	1	14,28,200	15,71,000	2,04,57,400	0
10	22/97-98	1.1, 100	1	14,28,200	15,71,000	2,20,28,400	0
11	23/97-98	1.1, 100	1	14,28,200	15,71,000	2,36,00,000	0
12	24/97-98	1.1, 100	1	14,28,200	15,71,000	2,51,71,000	0
13	25/97-98	1.1, 100	1	14,28,200	15,71,000	2,67,42,000	0
14	26/97-98	1.1, 100	1	14,28,200	15,71,000	2,83,13,000	0
15	27/97-98	1.1, 100	1	14,28,200	15,71,000	2,98,84,000	0
16	28/97-98	1.1, 100	1	14,28,200	15,71,000	3,14,55,000	0
17	29/97-98	1.1, 100	1	14,28,200	15,71,000	3,30,26,000	0
18	30/97-98	1.1, 100	1	14,28,200	15,71,000	3,45,97,000	0
19	31/97-98	1.1, 100	1	14,28,200	15,71,000	3,61,68,000	0
20	32/97-98	1.1, 100	1	14,28,200	15,71,000	3,77,39,000	0
21	33/97-98	1.1, 100	1	14,28,200	15,71,000	3,93,10,000	0
22	34/97-98	1.1, 100	1	14,28,200	15,71,000	4,08,81,000	0
23	35/97-98	1.1, 100	1	14,28,200	15,71,000	4,24,52,000	0
24	36/97-98	1.1, 100	1	14,28,200	15,71,000	4,40,23,000	0
25	37/97-98	1.1, 100	1	14,28,200	15,71,000	4,55,94,000	0
26	38/97-98	1.1, 100	1	14,28,200	15,71,000	4,71,65,000	0
27	39/97-98	1.1, 100	1	14,28,200	15,71,000	4,87,36,000	0
28	40/97-98	1.1, 100	1	14,28,200	15,71,000	5,03,07,000	0
29	41/97-98	1.1, 100	1	14,28,200	15,71,000	5,18,78,000	0
30	42/97-98	1.1, 100	1	14,28,200	15,71,000	5,34,49,000	0
31	43/97-98	1.1, 100	1	14,28,200	15,71,000	5,50,20,000	0
32	44/97-98	1.1, 100	1	14,28,200	15,71,000	5,65,91,000	0
33	45/97-98	1.1, 100	1	14,28,200	15,71,000	5,81,62,000	0
34	46/97-98	1.1, 100	1	14,28,200	15,71,000	5,97,33,000	0
35	47/97-98	1.1, 100	1	14,28,200	15,71,000	6,13,04,000	0
36	48/97-98	1.1, 100	1	14,28,200	15,71,000	6,28,75,000	0
37	49/97-98	1.1, 100	1	14,28,200	15,71,000	6,44,46,000	0
38	50/97-98	1.1, 100	1	14,28,200	15,71,000	6,60,17,000	0
39	51/97-98	1.1, 100	1	14,28,200	15,71,000	6,75,88,000	0
40	52/97-98	1.1, 100	1	14,28,200	15,71,000	6,91,59,000	0
41	53/97-98	1.1, 100	1	14,28,200	15,71,000	7,07,30,000	0
42	54/97-98	1.1, 100	1	14,28,200	15,71,000	7,23,01,000	0
43	55/97-98	1.1, 100	1	14,28,200	15,71,000	7,38,72,000	0
44	56/97-98	1.1, 100	1	14,28,200	15,71,000	7,54,43,000	0
45	57/97-98	1.1, 100	1	14,28,200	15,71,000	7,70,14,000	0
46	58/97-98	1.1, 100	1	14,28,200	15,71,000	7,85,85,000	0
47	59/97-98	1.1, 100	1	14,28,200	15,71,000	8,01,56,000	0
48	60/97-98	1.1, 100	1	14,28,200	15,71,000	8,17,27,000	0
49	61/97-98	1.1, 100	1	14,28,200	15,71,000	8,32,98,000	0
50	62/97-98	1.1, 100	1	14,28,200	15,71,000	8,48,69,000	0
51	63/97-98	1.1, 100	1	14,28,200	15,71,000	8,64,40,000	0
52	64/97-98	1.1, 100	1	14,28,200	15,71,000	8,80,11,000	0
53	65/97-98	1.1, 100	1	14,28,200	15,71,000	8,95,82,000	0
54	66/97-98	1.1, 100	1	14,28,200	15,71,000	9,11,53,000	0
55	67/97-98	1.1, 100	1	14,28,200	15,71,000	9,27,24,000	0
56	68/97-98	1.1, 100	1	14,28,200	15,71,000	9,42,95,000	0
57	69/97-98	1.1, 100	1	14,28,200	15,71,000	9,58,66,000	0
58	70/97-98	1.1, 100	1	14,28,200	15,71,000	9,74,37,000	0
59	71/97-98	1.1, 100	1	14,28,200	15,71,000	9,90,08,000	0
60	72/97-98	1.1, 100	1	14,28,200	15,71,000	10,05,79,000	0
61	73/97-98	1.1, 100	1	14,28,200	15,71,000	10,21,50,000	0
62	74/97-98	1.1, 100	1	14,28,200	15,71,000	10,37,21,000	0
63	75/97-98	1.1, 100	1	14,28,200	15,71,000	10,52,92,000	0
64	76/97-98	1.1, 100	1	14,28,200	15,71,000	10,68,63,000	0
65	77/97-98	1.1, 100	1	14,28,200	15,71,000	10,84,34,000	0
66	78/97-98	1.1, 100	1	14,28,200	15,71,000	11,00,05,000	0
67	79/97-98	1.1, 100	1	14,28,200	15,71,000	11,15,76,000	0
68	80/97-98	1.1, 100	1	14,28,200	15,71,000	11,31,47,000	0
69	81/97-98	1.1, 100	1	14,28,200	15,71,000	11,47,18,000	0
70	82/97-98	1.1, 100	1	14,28,200	15,71,000	11,62,89,000	0
71	83/97-98	1.1, 100	1	14,28,200	15,71,000	11,78,60,000	0
72	84/97-98	1.1, 100	1	14,28,200	15,71,000	11,94,31,000	0
73	85/97-98	1.1, 100	1	14,28,200	15,71,000	12,10,02,000	0
74	86/97-98	1.1, 100	1	14,28,200	15,71,000	12,25,73,000	0
75	87/97-98	1.1, 100	1	14,28,200	15,71,000	12,41,44,000	0
76	88/97-98	1.1, 100	1	14,28,200	15,71,000	12,57,15,000	0
77	89/97-98	1.1, 100	1	14,28,200	15,71,000	12,72,86,000	0
78	90/97-98	1.1, 100	1	14,28,200	15,71,000	12,88,57,000	0
79	91/97-98	1.1, 100	1	14,28,200	15,71,000	13,04,28,000	0
80	92/97-98	1.1, 100	1	14,28,200	15,71,000	13,19,99,000	0
81	93/97-98	1.1, 100	1	14,28,200	15,71,000	13,35,70,000	0
82	94/97-98	1.1, 100	1	14,28,200	15,71,000	13,51,41,000	0
83	95/97-98	1.1, 100	1	14,28,200	15,71,000	13,67,12,000	0
84	96/97-98	1.1, 100	1	14,28,200	15,71,000	13,82,83,000	0
85	97/97-98	1.1, 100	1	14,28,200	15,71,000	13,98,54,000	0
86	98/97-98	1.1, 100	1	14,28,200	15,71,000	14,14,25,000	0
87	99/97-98	1.1, 100	1	14,28,200	15,71,000	14,29,96,000	0
88	100/97-98	1.1, 100	1	14,28,200	15,71,000	14,45,67,000	0
89	101/97-98	1.1, 100	1	14,28,200	15,71,000	14,61,38,000	0
90	102/97-98	1.1, 100	1	14,28,200	15,71,000	14,77,09,000	0
91	103/97-98	1.1, 100	1	14,28,200	15,71,000	14,92,80,000	0
92	104/97-98	1.1, 100	1	14,28,200	15,71,000	15,08,51,000	0
93	105/97-98	1.1, 100	1	14,28,200	15,71,000	15,24,22,000	0
94	106/97-98	1.1, 100	1	14,28,200	15,71,000	15,39,93,000	0
95	107/97-98	1.1, 100	1	14,28,200	15,71,000	15,55,64,000	0
96	108/97-98	1.1, 100	1	14,28,200	15,71,000	15,71,35,000	0
97	109/97-98	1.1, 100	1	14,28,200	15,71,000	15,87,06,000	0
98	110/97-98	1.1, 100	1	14,28,200	15,71,000	16,02,77,000	0
99	111/97-98	1.1, 100	1	14,28,200	15,71,000	16,18,48,000	0
100	112/97-98	1.1, 100	1	14,28,200	15,71,000	16,34,19,000	0
101	113/97-98	1.1, 100	1	14,28,200	15,71,000	16,49,90,000	0
102	114/97-98	1.1, 100	1	14,28,200	15,71,000	16,65,61,000	0
103	115/97-98	1.1, 100	1	14,28,200	15,71,000	16,81,32,000	0
104	116/97-98	1.1, 100	1	14,28,200	15,71,000	16,97,03,000	0
105	117/97-98	1.1, 100	1	14,28,200	15,71,000	17,12,74,000	0
106	118/97-98	1.1, 100	1	14,28,200	15,71,000	17,28,45,000	0
107	119/97-98	1.1, 100	1	14,28,200	15,71,000	17,44,16,000	0
108	120/97-98	1.1, 100	1	14,28,200	15,71,000	17,59,87,000	0
109	121/97-98	1.1, 100	1	14,28,200	15,71,000	17,75,58,000	0
110	122/97-98	1.1, 100	1	14,28,200	15,71,000	17,91,29,000	0
111	123/97-98	1.1, 100	1	14,28,200	15,71,000	18,07,00,000	0
112	124/97-98	1.1, 100	1	14,28,200	15,71,000	18,22,71,000	0
113	125/97-98	1.1, 100	1	14,28,200	15,71,000	18,38,42,000	0
114	126/97-98	1.1, 100	1	14,28,200	15,71,000	18,54,13,000	0
115	127/97-98	1.1, 100	1	14,28,200	15,71,000	18,69,84,000	0
116	128/97-98	1.1, 100	1	14,28,200	15,71,000	18,85,55,000	0
117	129/97-98	1.1, 100	1	14,28,200	15,71,000	19,01,26,000	0
118	130/97-98	1.1, 100					

**BIHAR STATE HYDROELECTRIC POWER CORPORATION LTD.**  
**DHELABAG SMALL HYDROELECTRIC POWER PROJECT**

Net Export/Import Meter Reading installed Dhelabagh SHP

For the Period :- 30.08.06 to 19.06.07

Time & Date of Reading : 12.07.07, DT 19.06.07

Export Meter Reading in KWH			Import Meter Reading in KWH			Net of Power Export from Dhelabagh Power House in KWH
Initial	Final	Difference	Initial	Final	Difference	
0.00	612209.00	612209.00	0.00	4852.00	4852.00	607356.00

*[Signature]*  
 19/6/07  
 For Bihar State Hydroelectric Corporation

*[Signature]* 18/6/07  
 For Bihar State Electricity Board *A.E.C.*



BIHAR STATE HYDRO-ELECTRIC POWER CORPORATION LTD.  
NASRIGANJ SMALL HYDRO-ELECTRIC POWER PROJECT

Joint Export / Import Meter Reading installed at Reading Slip

Time & Date of Reading : 12-04-2007 DT 01/07/07

For the Period :- 01/07/07 To 01/08/07

Net of Power Export from Nasriganj  
 Power House  
 in KWH

Export Meter Reading in KWH			Import Meter Reading in KWH		
Initial	Final	Difference	Initial	Final	Difference
00.00	187,490.00	1,87,490.0	00.00	608.00	608.00

1,86,882.00

*[Signature]*  
 01/8/07  
 For Bihar State Hydroelectric Corporation

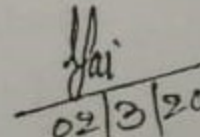
*[Signature]*  
 For Bihar State Electricity Board



**BIHAR STATE HYDROELECTRIC POWER CORPORATION LTD.**  
**Eastern Gandak Canal Hydroelectric Project,**  
**Valmikinagar ( West Champaran )**

Generated Bill of 3 x 5 MW units and 2 x 1.5 MW units for the month of February-2009.

(01)	To whom the Energy supplied	:	Electrical Executive Engineer, Transmission Division, Motihari.
(02)	The system of Energy supply	:	132 K.V. System.
(03)	Unit sent out	:	17,52,100 K.W.H.
(04)	Transformation loss @ 3% of the exported unit	:	52,563 K.W.H.
(05)	Chargable unit after deduction of transformation loss	:	16,99,537 K.W.H.
(06)	Power received from Triveni Hydroelectric Project	:	1,82,200 K.W.H.
(07)	Power supplied to Triveni Hydroelectric Project	:	1,700 K.W.H.
	Hence, total chargable unit		= Sl. 5 + Sl. 6 - Sl. 7 = 16,99,537 + 1,82,200 - 1,700 = 18,80,037 K.W.H.
(08)	Amount of chargable unit @ Rs. 2/- only per KWH	:	Rs. 37,60,074=00
	( Rupees thirty seven lacs sixty thousand seventy four ) only.		

  
02/3/2009  
**Executive Engineer (E/M)**  
**E.G.C. Hydroelectric Project.**  
**Valmikinagar, W Champaran**

# METER READING OF EGC HYDEL POWER STATION VALMIKINAG FOR THE MONTH OF JUNE-1996

Description	Serial numbers of Energy Meter	Present Reading	Previous Reading	Difference in reading	M.F	Unit in KWH	Remarks.
POWER GENERATED BY GENERATOR NO. 1	10089942	133346	124814	8532	100	8,53,200	(A)
GENERATOR NO. 2	10089940	14093	257	13836	100	13,83,600	(B)
S.S.T. (For Auxiliary consumption)	064951	8084	7222	862	100	86,200	(C)

Unit sent out to Ramnagar Grid S/S — 21,50,600 Kwh (A+B-C)

*Yai*  
01.8.96

Assistant Executive Engineer  
EGC Project  
Valmiki Nagar.

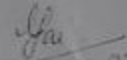
*Signature*  
ASSISTANT EXECUTIVE ENGINEER  
Transmission Sub Division  
Ramnagar (845103)

METER READING OF EGC HYDEL POWER STATION, VALMIKINAGAR - MONTH: NOVEMBER, 1997

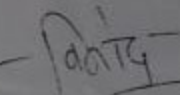
S.N	Description Power Generated by:-	Sr. No. of Energy Meter.	Present Reading	Past Reading	Difference in Reading	M.F.	UNIT IN KWH	Remarks
1.	Generator No.1	10089942	341619	341619	0 NIL	100	0 NIL	
2.	Generator No. 2	10089940	169295	158286	11009	100	1100900	Total generation $= 1100900 + 715600$ $= 1816500 \text{ KWH}$
3.	Generator No. 3	10089941	007201	000045	7156	100	715600	
4.	S.S.T. for Auxiliary Consumption	044951	20202	20130	672	100	67200	

UNIT SENT OUT : 1749300

KWH

  
 25.12.97

ASSISTANT ENGINEER  
 EGC Hydel Power Station  
 Valmikinagar



SENIOR ENGINEER  
 Transmission Sub-division, Ramnagar.



# BIHAR STATE HYDROELECTRIC POWER CORPORATION LTD.

{ SONE BHAWAN, BIRCHAND PATEL MARG, PATNA, BIHAR }

## AGREEMENT FOR TURNKEY EXECUTION OF

1 MW ( 2 X 500 KW )

'AGNOOR'

SMALL HYDRO ELECTRIC PROJECT

DIST. JEHANABAD  
BIHAR

with

M/S NIPPON POWER LTD.

10 A JACKSON LANE CALCUTTA - 700 001, INDIA

☎ 91-33-242 9927 / 242 3325 ☎ 242 6670

*Certified that this agreement  
contains 121 pages  
Twenty one pages are*

*MCA*

*BP*



7. Erection, Testing & commissioning.

8. Commercial operation and Maintenance for one year.

## 2.0 PRICES :

(a) The total prices, for the complete work of supply, erection, testing & commissioning etc. of the complete Electrical, mechanical and civil works of Agnagar Small Hydel Project (2 x 500 KW) shall be Rs. 7,96,00,000 ( Rupees Seven Crores Ninety Six Lacs Only )

Thousand Six Hundred Fourteen ) only. *The Break up of Price are attached separately.*

### 2.1. TAXES & DUTIES:

The Prices are F.O.R destination inclusive of freight forwarding but excluding Taxes / Duties for E/M equipment which will be paid extra as per actual against proper documents but for Civil works the rates are inclusive of all taxes / duties and royalties.

### 2.2 TERMS OF PAYMENT:

(I) 10% of Contract value as advance against

Guarantee after execution of the agreement.

(ii) 10% Contract value as advance against

Guarantee after furnishing the detailed drawings of

Civil works as well as E & M works.

For 12/12/2019.

024-

024-100

Chief Engineer (Electrical)  
Agner Small Hydel Project  
Power Corporation Ltd.

Date 29.4.86

BIHAR STATE HYDRO POWER CORPORATION  
PATNA

CONTRACT AGREEMENT

FOR

6 x 1.8 MW BULB SETS

FOR

SONE EASTERN / WESTERN LINK CANAL  
HYDEL PROJECT

SECTION I : TERMS AND CONDITIONS  
SECTION II : TURBINE  
SECTION III : GENERATOR

DHARAT HEAVY ELECTRICALS LIMITED  
HYDRO MARKETING  
NEW DELHI



Dehn

The prices for erection and commissioning are FIRM till April '1989.

Sl.No.	Description	Qty.	Price/Lot (Rs. in Lakhs)
1.	Bulb type hydro generating equipment comprising of Semi Kaplan Turbine, Synchronous Generator, Governing system with level controller, pressure/ lub oil system, static excitation system, unit control board comprising of control, metering, annunciation and protection items, neutral grounding cubicle, starters for unit auxiliaries and first filling of oil.	6Sets	876.07
2.	LP compressed air system with reducer and receiver for station compressed air, cooling water system, drainage and dewatering system and synchronising swing panel.	6Sets	
3.	Special tools for erection and maintenance	1 Set	
4.	Model testing	1 Set	
5.	Spares	1 Set	25.34

Dehri

1A-3

Sl.No.	Description	Qty.	Price/Lot (Rs. in Lakhs)
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6. Lump-sum erection, testing and commissioning.

70.00

471.41

7. *Total*  
Hydraulically operated D/T gates with hoisting arrangement.

6 Sets Actuals + 20% extra.

3. TERMS OF PAYMENT:-

3.1 SUPPLY OF EQUIPMENT

3.1.1 GEN. EQPT. WITH SPARES

The terms of payment for the supply of equipment covered in the scope of supply shall be as follows :-

- 10% advance of the contract price of equipment (excluding draft tube gates) shall be paid as interest free advance alongwith letter of intent/order.
- 20% of the contract price of the equipment (excluding draft tube gates) as interest free advance at the end of six months from the date of letter of intent/order.
- Another 20% of the contract price as interest free advance shall be paid at the end of twelve (12) months from the date of L.O.I. on submission of invoices, certified by their Chartered Accountant/Manager (Finance) that the earlier advances have been fully utilised for the purpose of this contract.
- Balance upto 100% of the contract price for each consignment/major cognizable assembly, items of



# BIHAR STATE HYDROELECTRIC POWER CORP. LTD.

(A GOVT. OF BIHAR ENTERPRISES)

2<sup>ND</sup> FLOOR, SONE BHAWAN  
PATNA

AGREEMENT NO. 03/Elect./2002-03 dated 19.04.2002

CONTRACT FOR  
SUPPLY, ERECTION, TESTING & COMMISSIONING OF HYDRO  
GENERATING SETS COMPLETE WITH AUXILIARIES ALONG  
WITH CIVIL WORKS

FOR

**DHELABAGH SMALL HYDEL PROJECT**  
**(2 x 750 KW)**

*certified copy*  
*[Signature]*  
*12/11/02*

DEHRI-ON-SONE, DIST. - ROHTAS (BIHAR)

For

*[Signature]*

*[Signature]*  
Bihar State Hydro Electric  
Power Corporation Ltd. Patna

which may be essential for power generation and transmission including operation/maintenance of power house and power evacuation system for one year after successful commissioning of the plant.

## 2. PRICE :

SL No.	Item of work	Amount
1.	Preliminary : Detailed alignment, survey of power channel, Tailrace channel including dog belling, fixation of pillars establishing & fixing of bench mark, digging test pits along canal alignment and at structure site, bearing pressure test at power house/canal structure sites and bore hole at site for geological and geotechnical test and other soil and water tests, detailed design and engineering-drawings including training of personnel etc.	6,30,000.00
2.	Civil work :	22,47,500.00
	i) Buildings	1,91,55,950.00
	ii) Power plant appurtenant and other civil works	3,92,15,000.00
3.	Electrical & mechanical equipment including erection and commissioning	37,80,000.00
4.	Power evacuation system	1,50,000.00
5.	Trial & commissioning	18,00,000.00
6.	Cost of operation and maintenance of power house and evacuation system for one year after successful commissioning	
	<b>Total</b>	<b>6,69,78,450.00</b>

( Rupees Six crores Sixty Nine lakhs Seventy Eight thousand Four hundred fifty) only

The above price is FIRM

## 3. TAXES & DUTIES :

The above price is F.O.R. destination inclusive of packing/forwarding, freight and insurance charges but exclusive of taxes and duties viz. Sales Tax, Excise Duty, Local taxes and other levies as applicable on contract price in respect of transaction between the contractor and the BHPC which will be borne by BHPC as per actual.

For, Shabud Engineers Pvt. Ltd.

Managing Director

Managing Director  
Bihar State Hydro Electric  
Power Corporation Ltd. Patna



# BIHAR STATE HYDROELECTRIC POWER CORP. LTD.

(A GOVT. OF BIHAR ENTERPRISES)  
2<sup>ND</sup> FLOOR, SONE BHAWAN  
PATNA

AGREEMENT NO. 02/Elect./2002-03 dated 13.04.2002

CONTRACT FOR  
SUPPLY, ERECTION, TESTING & COMMISSIONING OF HYDRO  
GENERATING SETS COMPLETE WITH AUXILIARIES ALONG  
WITH CIVIL WORKS

FOR

JAINAGARA SMALL HYDEL PROJECT  
(2 x 500 KW)

*Certified Copy*  
*Smaller*  
*12/12/02*

परियोजना प्रबन्धक  
सोन नहर जल विद्युत परियोजना  
बहुल सहायक

NOKHA BLOCK, DIST. - ROHTAS (BIHAR)

D.E.S. Construction Pvt. Ltd.

*Sanjay Kumar*  
Managing Director

*[Signature]*

Managing Director  
Bihar State H.E.P. Electric  
Power Corporation Ltd. Patna

2. PRICE:

Sl. No.	Item of work	Amount (Rs.)
---------	--------------	--------------

1.	<u>Preliminary</u> : Detailed alignment, survey of power channel, Tailrace channel including dog belling, fixation of pillars establishing & fixing of bench mark, digging test pits along canal alignment and at structure site, bearing pressure test at power house/canal structure sites and bore hole at site for geological and geotechnical test and other soil and water tests, detailed design and engineering drawings including training of personnel etc.	9,60,111.00
2.	<u>CIVIL WORKS:</u>	
i.	Buildings	17,01,500.00
ii.	Power plant appurtenant and other civil works	1,52,54,890.00
3.	Electrical & mechanical equipments including erection and commissioning	3,18,51,000.00
4.	Power evacuation system	30,00,000.00
5.	Trial & Commissioning	1,50,000.00
6.	Cost of operation and maintenance of power house and evacuation system for one year after successful commissioning	1,50,000.00
Total Rs.		5,30,67,501.00

(Rupees Five crore thirty lakhs sixty seven thousand five hundred one) only

The above price is FIRM.

3. TAXES & DUTIES

The above price is F.O.R. destination inclusive of packing/forwarding, freight and insurance charges but exclusive of taxes and duties viz. Sales Tax, Excise Duty, Local taxes and other levies as applicable on contract price in respect of transaction between the contractor and the BHPC which will be borne by BHPC as per actual.

B.B. Construction Pvt. Ltd.

*Santh/Kumar Singh* 13/4/02

*[Signature]*  
Managing Director  
Bihar State Hydro Electric  
Power Corporation Ltd.



Project Manager  
Sone H. E. P. Dehri  
(Rohtas)

# BIHAR STATE HYDROELECTRIC POWER CORP. LTD.

(A GOVT. OF BIHAR ENTERPRISES)  
2<sup>ND</sup> FLOOR, SONE BHAWAN  
PATNA

AGREEMENT NO. 04/Elect./2002-03 dated 19.04.2002



**CONTRACT FOR**  
**SUPPLY, ERECTION, TESTING & COMMISSIONING OF HYDRO**  
**GENERATING SETS COMPLETE WITH AUXILIARIES ALONG**  
**WITH CIVIL WORKS**

FOR

**NASARIGANJ SMALL HYDEL PROJECT**  
**(2 x 500 KW)**

*C. H. S. Gohar*  
*H. S. Gohar*  
*12/11/02*

**NASARIGANJ, DIST. - ROHTAS (BIHAR)**

PURPOSE

Director

Managing Director

Bihar State Hydro Electric  
Power Corporation Ltd. Patna

which may be essential for power generation and transmission including operation/maintenance of power house and power evacuation system for one year after successful commissioning of the plant.

## 2. PRICE :

SL No.	Item of work	Amount
1.	Preliminary : Detailed alignment, survey of power channel, Tailrace channel including dog belling, fixation of pillars establishing & fixing of bench mark, digging test pits along canal alignment and at structure site, bearing pressure test at power house/canal structure sites and bore hole at site for geological and geotechnical test and other soil and water tests, detailed design and engineering-drawings including training of personnel etc.	16,00,000.00
2.	Civil work :	22,47,500.00
	i) Buildings	1,75,26,450.00
	ii) Power plant appurtenant and other civil works	3,37,00,000.00
3.	Electrical & mechanical equipment including erection and commissioning	4,00,000.00
4.	Power evacuation system	1,00,000.00
5.	Trial & commissioning	12,00,000.00
6.	Cost of operation and maintenance of power house and evacuation system for one year after successful commissioning	
	<b>Total</b>	<b>5,67,73,950.00</b>

( Rupees Five crores Sixty Seven lakhs Seventy Three thousand Nine hundred fifty) only

The above price is **FIRM**

## 3. TAXES & DUTIES :

The above price is F.O.R. destination inclusive of packing/forwarding, freight and insurance charges but exclusive of taxes and duties viz. Sales Tax, Excise Duty, Local taxes and other levies as applicable on contract price in respect of transaction between the contractor and the BHPC which will be borne by BHPC as per actual.

MAN CONSTRUCTION CO. LTD.  
Project Super  
Director

15/11/02  
Managing Director  
Bihar State Hydro Electric  
Power Corporation Ltd. Patna



# BIHAR STATE HYDROELECTRIC POWER CORPORATION LTD.

(A GOVT. OF BIHAR ENTERPRISES)

*Agreement No. D3/ELEC/2001-2002*

*Dated: 27.06.2001*

## CONTRACT FOR

*SUPPLY, ERECTION, TESTING & COMMISSIONING OF HYDRO GENERATING  
SETS COMPLETE WITH AUXILIARIES ALONG WITH CIVIL WORKS*

**FOR**

**TRIVENI LINK CANAL HYDEL PROJECT**

**(2X 1.5 MW)**

**NEAR VALMIKINAGAR, DISTT. WEST CHAMPARAN (BIHAR)**

**2ND FLOOR, SONE BHAWAN**

**BIRCHAND PATEL MARG**

**PATNA - 800 001**

## Agreement

This agreement made this 27<sup>th</sup> day of June two thousand and one between Bihar State Hydroelectric Power Corporation Limited, Patna (hereinafter referred to as 'Purchaser' which expression shall unless repugnant to the context or meaning thereof include its successors, administrators and assigns) of the one part and M/s. PAREEK & COMPANY, a company incorporated under registrar of firms, Bihar, Patna (No 647) having its registered office at Main Road, Ranchi (hereinafter referred to as the 'Contractor' which expression shall unless repugnant to the context or meaning thereof include its successors, administrators and assigns) of the other part.

Whereas, the purchaser is desirous of setting up Triveni Link Canal SHP (2 x 1.5 MW) at Valmikinagar in the district of West Champaran, Bihar and has accepted the bid by the contractors for execution on turn key basis which included Pre-construction survey, Geological & Geophysical investigation, design, drawing for civil structure/other infrastructure & EM work work services/complete civil work, supply/installation, testing & commissioning of complete Elec./ Mech. Equipment/auxiliaries, switch yard & stations auxiliaries, power house came, power house & their spares, as detailed in the offer of Contractor, schedule of requirement/DPR/ requirement in relevant section of tender book against NIT No. 04/Electl./99-20000 alongwith one year operation & maintenance of the SHP and evacuation system for a period of one year in the cost of Rs. 13,47,21,745/- (Rupees Thirteen crores forty seven lakh twenty one thousand seven hundred forty five) which is inclusive of 2 % general rebate and Rs. 24,00,000/- (twenty four lakhs) being the operation and maintenance charge of the power house & evacuation system for a period of one year. Now this agreement witnessed as follows:

Chief Engineer (Electrical)  
Bihar State Hydro Electric Power Corporation  
Sole Bhavan  
PATNA - 800001



## SECTION - 1

### SPECIAL CONDITIONS OF CONTRACT

#### 1.0 Scope

The scope of this contract is limited for execution of the project on turn key basis which includes design, manufacture, testing atworks, supply, delivery at site, erection, testing and commissioning and one year O & M of the power house including evacuation system of two nos. horizontal shaft tubular 's' type full Kaplan Turbine each coupled with 1500 KW, 3.3 KV horizontal generator complete with auxiliaries, switch yard and station auxiliaries, power house, crane and spares as per detailed offer of the contractor alongwith complete civil works as per design and layout offered/ indicated in the Tender Document and D.P.R. for Triveni Link Canal SHP (2 x 1500 KW)

#### 2.0 Price

3.0

The total price excluding taxes and duties for the complete work of supply, erection, testing and commissioning etc. of the entire Electrical/mechanical, Civil works of Triveni Link Canal Small Hydel Project (2 x 1500 KW) shall be Rs. 13,47,21,745.00 (Rupees Thirteen crores forty seven lakh twenty one thousand seven hundred forty five) only as per details given below:

Sl No.	Item of work	rate
1.	<u>General work</u>	
	Pre construction survey/ Geological and Geo physical/investigation/design/drawings for civil structure and E & M works and services	Rs. 15,00,000/-
2.	Complete Civil work	Rs. 6,74,96,089/-
3.	Complete electrical & Mechanical Plant supply/ works	Rs. 6,60,26,100/-
	<b>Gross Total</b>	<b>Rs. 13,50,22,189/-</b>
	Less rebate @ 2 % (-)	Rs. 27,00,444/-
	Nett.	Rs. 13,23,21,745/-
	Add for O & M of power house and evacuation system for 12 months after successful commissioning (+)	Rs. 24,00,000/-

**Grand Total**      **Rs. 13,47,21,745/-**  
(Rupees Thirteen crores forty seven lakh twenty one thousand seven hundred forty five) only.

*Signature*

*Signature*  
Chief Engineer (Electrical)  
Bihar State Hydro Electric Power Corporation  
Patna - 800001

EEE-11 copy

Copy

CONTRACT AGREEMENT  
FOR  
BULB TYPE GENERATING UNITS  
EASTERN GANDAK CANAL  
Hydro Electric Project

Between

BIHAR STATE HYDRO ELECTRIC POWER CORPORATION LTD.

And

SUMITOMO CORPORATION, Japan

Admiral



SCHEDULE OF PRICES FOR TURBINES, GOVERNOR, EQUIPMENT & AUXILIARIES

(Price in Japanese Yen)

Sl. No.	Description	Q'ty	FOB Japan Port Unit Price	FOB Japan Port Amount Price	Ocean Freight upto Calcutta Port	C&F Calcutta
1	2	3	4	5	6	7
1.	Model Tests	-	-	¥7,050,000	-	¥7,050,000
2.	Bulb turbines complete with auxiliaries & instrumentaton as specified in items 1 & 3 of clause 3.13-Schedule of Requirements	3 Nos.	¥243,817,200	731,451,600	¥53,280,000	¥784,731,600
3.	Spares for bulb turbines as per item 2 of schedule of requirements. (as per E-V69018-4P)	Adequate for 3 No.s turbines	-	109,246,800	-	109,246,800
4.	Special Tools Slings (as per E-V69018-9)	1 set	-	3,929,200	-	3,929,200
Total		-	-	¥851,677,600	¥53,280,000	¥904,957,600

SCHEDULE OF PRICE FOR GENERATORS

(Price in Japanese Yen)

Sl. No.	Description	Q'ty	FOB Japan Port Unit Price	FOB Japan Port Amount Price	Ocean Freight upto Calcutta Port	C&F Calcutta
1	2	3	4	5	6	7
1.(a)	Generator complete with accessories specified in schedule of requirement	3 Nos.	¥147,956,000	¥443,868,000	¥21,370,000	¥465,238,000
1.(b)	Generator line terminal cubicle complete with protection and relaying C.T's, protection and metering P.T's, surge Diverters, etc.	3 Nos.	5,038,400	15,115,200	-	15,115,200
1.(c)	Neutral terminal panel complete with C.T's. Neutral isolating links and grounding transformers and resistors	3 Nos.	2,519,200	7,557,600	-	7,557,600
2.	Spare for generator as specified in shceudle of requirement (as per E-V69018-4P)	Adequate for 3 Nos. generators	-	17,361,800	-	17,361,800
3.	Spares for excitation and regulation equipments as specified in schedule of requirement (as per E-V69018-4P)	for 3 units	-	8,403,600	-	8,403,600



Sl. No.	Description	Q'ty	FOB Japan Port Unit Price	FOB Japan Port Amount Price	Ocean Freight upto Calcutta Port	C&F Calcutta
1	2	3	4	5	6	7
✓4.(a)	Water spray fire protection equipment with smoke and fire detectors as specified in schedule of requirement	for 3 units	-	¥1,560,400	-	¥1,560,400
✓5.	Set of instruments and spares as mentioned in schedule of requirements	3 sets	-	8,892,400	-	8,892,400
✓6.	Special tools and equipment for erection and maintenance or generator (as per E-V69018-9)	One set	-	1,964,600	-	1,964,600
Total		-	-	¥504,723,600	¥21,370,000	¥526,093,600
Grand Total		-	-	¥1,356,401,200	¥74,650,000	¥1,431,051,200

## Schedule of Spares

For Turbine, Governing Equipment (common for three units):

(FOB Price in Japanese Yen)				
Sl.No.	Item of Spare	Q'ty	Unit Price	Amount
1.	2.	3.	4.	5.

### 1. TURBINE

i.	Guide bearing pads with habbit metal	2 sets	1,071,600	2,143,200
ii.	Shaft seal packings of carbon	6 sets	319,600	1,917,600
iii.	Guide vane stem packings	2 sets	59,220	118,440
iv.	Shear pins/Friction clutch components	2 sets	639,200	1,278,400
v.	Guide vanes	8 Nos.	1,062,200	8,497,600
vi.	Shaft sleeves	1 set	211,500	211,500
vii.	Piston rings for servomotor cylinders	3 sets	59,220	177,660
viii.	Packing & sealings, all types and sizes	6 sets	108,100	648,600
ix.	Guide vane bearing bushes	3 sets	752,000	2,256,000
x.	Bushes for regulating mechanism	3 sets	799,000	2,397,000
xi.	Springs for shaft seals	3 sets	12,220	36,660

### 2. GOVERNING EQUIPMENT

#### a) Electrical Cabinet

i.	Proximity switch with disc and speed switches	2 Nos.	35,720	71,440
ii.	control amplifier PCB	2 Nos.	188,000	376,000
iii.	Speed relay PCB	1 No.	-	-
iv.	Auxiliary relays	2 Nos. for each type	75,200	150,400
v.	Gate position transmitter	2 Nos.	23,500	47,000



Sl.No.	Item of Spare	(FOB)		
		Q'ty	Unit Price	Amount
1.	2.	3.	4.	5.
vi.	Setting device PCB	2 Nos.	47,000	94,000
vii.	Speed detecting device PCB	3 Nos.	413,600	1,240,800

b) Hydraulic Cabinet

i.	Sleeve and plunger for distributing valves	3 sets	423,000	1,269,000
ii.	Electro-hydraulic actuator	2 Nos.	1,062,200	2,124,400
iii.	Seals, all types	2 sets	112,800	225,600

c) Oil Pressure Vessels, Sumptank Leakage Tank and Pumps

i.	Oil screw pump for pressure oil supply	2 Nos.	526,400	1,052,800
ii.	Seals/Packings (all types)	2 sets	94,000	188,000
iii.	Twin filter for oil	2 Nos.	30,080	60,160
iv.	solenoids/coils	2 sets	112,800	225,600
v.	Springs (all types)	2 sets	47,000	94,000
vi.	Limit switches	2 sets	12,220	24,440
vii.	Micro switches	2 sets	12,220	24,440
viii.	Level relays	2 sets	82,720	165,440
ix.	Pressure switches	2 sets	70,500	141,000
x.	Ball bearings (all types)	2 sets	17,860	35,720
xi.	Safety relief valve	2 sets together with pump unladen valve.	864,800	1,729,600

Sl.No.	Item of Spare	Q'ty	(FOB)	
			Unit Price	Amount
1.	2.	3.	4.	5.
xii.	Guide metal for oil distribution head	3 sets	263,200	789,600
xiii.	Runner blade position transmitter	3 pcs.	23,500	70,500
xiv.	Sliding balls for regulating ring	3 sets	864,800	2,594,400
xv.	Runner blades	8 pcs.	9,388,720	75,109,760

6. Insturments and Safety Device

i.	Resistance type temp. detector	2 Nos.	35,720	71,440
ii.	Flow relays	2 Nos.	507,600	1,015,200
iii.	Level switches	2 Nos. of each type	94,000	188,000
iv.	Dial type thermometers	2 Nos. of each type	70,500	141,000
v.	Coils/contacts/springs for auxiliary relays solenoids and switches etc.	2 Nos.	122,200	244,400

Total price: ¥109,246,800  
(In Japanese Yen)



Schedule of Spare Parts		(FOB Price in Japanese Yen)		
For Generators (common for three units)				
Sl.No.	Item of Spare	Q'ty	Unit Price	Amount
1.	2.	3.	4.	5.
		1/3 set	-	5,113,600
i.	Stator bars complete with insulation, insulating materials, binding materials, wedges etc.	2 Nos.	319,600	639,200
ii.	Field poles, each suitable either for North or South polarity	1 set	2,331,200	2,331,200
iii.	Thrust bearing pads	4 sets	70,500	282,000
iv.	Brushes	1 set	1,063,140	1,063,140
v.	Guide bearing pads	3 sets	639,200	1,917,600
vi.	Brake shoes	1 set	75,200	75,200
vii.	Brush-holder	1 No.	940,000	940,000
viii.	Air cooler unit with water chamber	1 No.	319,600	319,600
ix.	Oil cooler of the plug in type	20%	-	47,000
x.	RTDs used for air circuits, bearings, and bearing system	3 Nos.	82,720	248,160
xi.	Dial type thermometer each for circuit, bearing and bearing oil system	1 No.	23,500	23,500
xii.	Thermostat each for bearings	One Complete set	263,200	263,200
xiii.	Contact, springs and coils, for each relay, contactor, breaker and auxiliary switch	2 Nos.	498,200	996,400
xiv.	Water flow relay each for air cooler, and bearing oil reservoir	3 Nos.	178,600	535,800
xv.	Fire/smoke detector	3 Nos.	357,200	1,071,600
xvi.	Water supply nozzles	3 No.s	498,200	1,494,600
xvii.	Dehumidifier			
Total price:			¥17,361,800	
			(In Japanese Yen)	

Schedule of Spares

For Excitation and Regulation Equipment (Common for three units):

(FOB Price in Japanese Yen)				
Sl.No.	Item of Spare	Q'ty	(FOB)	
			Unit Price	Amount
1.	2.	3.	4.	5.
i.	Field current limiter	3 pcs.	1,062,200	3,186,600
ii.	Minimum excitation limiter	3 pcs.	(included in above item i)	
iii.	Voltage adjuster	3 pcs.	611,000	1,833,000
iv.	Blown fuse detectors used in the circuit	20%	-	12,220
v.	Thyristor elements used in the circuit	20%	-	141,000
vi.	Fuses for Thyristor	1 set	17,860	17,860
vii.	Resistor stack	1 pce.	6,580	6,580
viii.	Excitation Thyristor	2 pcs.	357,200	714,400
ix.	Excitation transformer	1 pce.	1,952,380	1,952,380
x.	auxiliary transformer	2 pcs.	23,500	47,000
xi.	Cooling fans for thristor cubicle	2 pcs.	27,260	54,520
xii.	Cooling fan bearings for each fan	1 set	2,820	2,820
xiii.	One set of Blown Fuse detectors used in the circuit	60%	-	12,220
xiv.	Field circuit breaker	1 pce.	423,000	423,000

Total price: ¥8,403,600  
(In Japanese Yen)



Bihar State Hydroelectric Power Corporation Ltd.  
Sone Bhawan, 2nd floor, B.C.P.Marg, Patna

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ANX V

Details of Nabard Loan

(Rs.in lacs)

Sl.No.	Year	Nabard Loan (through State Govt.)
1	1982-83	-
2	1983-84	-
3	1984-85	-
4	1985-86	-
5	1986-87	-
6	1987-88	-
7	1988-89	-
8	1989-90	-
9	1990-91	-
10	1991-92	-
11	1992-93	-
12	1993-94	-
13	1994-95	-
14	1995-96	-
15	1996-97	-
16	1997-98	-
17	1998-99	-
18	1999-00	-
19	2000-01	-
20	2001-02	-
21	2002-03	-
22	2003-04	2,338.00
23	2004-05	302.00
24	2005-06	-
25	2006-07	991.00
26	2007-08	1,500.00
27	2008-09	784.00
28	2009-10	1,664.66
	<b>Total Rs.</b>	<b>7,579.66</b>

पत्रांक - 2/ज.वि.नि.-08/2003

सेवा में,  
अधीनस्थ अधिकारी,  
परामर्शिता।

महोदय,  
पटना।

द्वारा :  
विषय:-

वित्त विभाग-  
बिहार राज्य जल विद्युत निगम लि., पटना के नियंत्रणाधीन निर्माणाधीन परियोजनाओं के लिए वित्तीय वर्ष 2003-04 में आर.आई.डी.एफ.-VIII (नाबार्ड) के अन्तर्गत 6015=02 लाख रुपये ऋण को स्वीकृति तथा वित्तीय 2003-2004 में 2338=00 लाख रुपये की निकासी के संबंध में।

महोदय,

निदेशानुसार कहना है कि बिहार राज्य जल विद्युत निगम, पटना के नियंत्रणाधीन 17 स्तंभ जल विद्युत परियोजनाएँ हैं। तेजपुरा, डेहरा, सिपाहा, बेलसार, बखिदाद, अरवल, देलाबाग, नासरीगंज, पहरामा, सेते, जयनगरा, अमेठी, रामपुर, नटपार, सिराहाण्डा एवं राजको पूरा करने हेतु नाबार्ड आर.आई.डी.एफ.-VIII (नाबार्ड) के तहत 6015=02 लाख रुपये ऋण की स्वीकृति अपने शर्तों के आधार पर देने की स्वीकृति प्रदान की है जिसके वि 2338=00 लाख रुपये की राज्य सरकार की स्वीकृति संसूचित की जाती है।

2. नाबार्ड आर.आई.डी.एफ.-VIII (नाबार्ड) के अधीन ऋण की शर्तें निम्नवत् होंगी।
  - (क) योजना को प्रावधानित राशि को 90% (नब्बे प्रतिशत) तक ही ऋण स्वीकृत जायेगा।
  - (ख) इन योजनाओं में 1 अप्रैल, 2002 के बाद किये गये व्यय की ही प्रतिपूर्ति के रूप में दिया जायेगा।
  - (ग) इस ऋण के लिए 6.50% वार्षिक दर से ब्याज नाबार्ड को देय होगा।
  - (घ) इस ऋण का मुग्तान 7 (सात) वर्षों में करना है जिसमें 2 वर्ष ग्रेस पर सम्मिलित है।
  - (ङ) इस ऋण के लिए राज्य सरकार के वित्त विभाग को मैण्डेट आदि व भौडल विभाग मांगा जाएगा।
  - (च) ऋण का मुग्तान प्रतिपूर्ति के रूप में उपलब्ध कराया जाएगा।

3. नाबार्ड द्वारा दिये गये आर.आई.डी.एफ.-VIII योजनान्तर्गत ऋण की बिहार राज्य जल विद्युत निगम, पटना विद्युत आपूर्ति से प्राप्त राजस्व से करेगा।

4. वित्तीय वर्ष 2003-04 में नाबार्ड के तहत बिहार राज्य विद्युत निगम, पटना के रूप में प्रावधानित 2338=00 लाख रुपये की निकासी बजट शीर्ष 680 परियोजनाओं के लिए उधार-राज्य योजना 2001-02 निर्यात उत्पादन-0405-बिहार राज्य विद्युत निगम को ऋण (नाबार्ड) मांग संख्या 10 विपत्र कोड संख्या पी.-680100201 अन्तर्गत किया जाएगा।



6. अतः अनुरोध है कि 1333-00 लाख (तीस लाख अठतीस हजार) का प्राधिकार बजट निर्गत करने की कृपा करें।

(कुमारेण ॥०॥ मि०  
सरकार के रु० देव

३०/-  
(कुमारेण यत् मिश्र  
सदकं यत् रुचिब

(कुमुदसिन्धु निश्री)  
संस्कृत २ भाग में

बिहार सरकार,  
ऊर्जा विभाग।

पत्रांक

दिनांक

M-2/ज.वि.नि.-00/04

सेवा में,

मुख्य विद्युत अभियन्ता के सचिव (प्रावैधिक),  
ऊर्जा विभाग,  
बिहार, पटना।

वित्तीय वर्ष 2004-05 में बिहार राज्य जल विद्युत निगम को 302.00 लाख  
(तीन करोड़ दो लाख) रुपये आवंटन पलबध कराने के संबंध में।

श्रीमान,

उपर्युक्त विषयक ऊर्जा विभाग के पत्रादेश संख्या 12/दिनांक 31.3.04  
के आलोक में वित्तीय वर्ष 2004-05 में बिहार राज्य जल विद्युत निगम लि., पटना को  
नाबार्ड द्वारा स्वीकृत ऋण 302.00 लाख (तीन करोड़ दो लाख) रुपये मात्र का आवंटन  
स्वीकृत एवं विमुक्त किया जाता है।

2. यह राशि बजट शीर्ष 6801-बिजली परियोजनाओं के लिए कर्ज-राज्य  
योजना-201-पन बिजली उत्पादन-0105-बिहार राज्य जल विद्युत निगम को ऋण (नाबार्ड)  
मांग संख्या 10 विपत्र कोड संख्या पी.-6801002010105 के अन्तर्गत वित्तीय वर्ष 2004-05  
में स्वीकृत राशि के अन्तर्गत विकलनीय होगा।

3. इस राशि की निकासी सचिवालय कोषागार, सिंचाई भवन, पटना से की  
जाएगी।

4. यह आवंटन वित्त विभाग के पत्रांक 2/31 दिनांक 17.04.1998 के आलोक में  
निर्गत किया जाता है तथा निकासी एवं व्ययन पद वेकारी से अनुरोध है कि राशि की  
निकासी के पूर्व सारी प्रक्रियाओं का अनुपालन सुनिश्चित करने के बाद ही इस राशि की  
निकासी करेंगे। यह राशि इस मद में कुल उपबंधित राशि के अधीन है।

5. आवंटित राशि की निकासी के पूर्व संबंधित विपत्र पर निकासी एवं व्ययन  
पदाधिकारी प्रसंगाधीन आवंटन आदेश की संख्या एवं तिथि के साथ-साथ संबंधित इकाई के  
कोड संख्या का भी उल्लेख करेंगे तथा विपत्र पर चिन्हित राशि उपबंध के अन्तर्गत होने का  
प्रमाण-पत्र भी अंकित करेंगे।

6. निकासी एवं व्ययन पदाधिकारी किसी भी परिस्थिति में आवंटित राशि से  
अधिक की निकासी नहीं करेंगे। इस राशि का भुगतान बैंक ड्राफ्ट/बैंकर्स चेक के माध्यम से  
बिहार राज्य जल विद्युत निगम को किया जाएगा।

विश्वासभाजन,

HO/-

(कुमारेश च0 मिश्र)

सरकार के सचिव।

ज्ञापक

दिनांक

प्रतिलिपि कोषागार पदाधिकारी, सचिवालय कोषागार, सिंचाई भवन, पटना को  
सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

HO/-

(कुमारेश च0 मिश्र)

सरकार के सचिव।

(क.)

(2)

ज्ञापांक 82 /

प्रतिलिपि अध्यक्ष-सह-बुद्ध निदेशक, बिहार राज्य जल विद्युत निगम लि.  
पटना को सूचनार्थ एवं नियमानुसार त्वरित कार्रवाई हेतु प्रेषित ।

दिनांक

31/3/05

(कुमारेश च0 मिश्र)  
सर कार के सचिव ।



बिहार सरकार,  
कच्ची विभाग ।

दिनांक-12/ज.वि.वि. 11/03-

पटना, दिनांक

श्रीमान,

महालेखाकार, बिहार,  
वीरचन्द पटेल पथ, पटना

द्वारा वित्त विभाग

विषय: बिहार राज्य जल विद्युत निगम के नियंत्रणाधीन 17 लघु जल विद्युत परियोजनाओं के लिए आर.आई.डी.एफ. VIII (नाबार्ड) के अर्पणित 6015.02 लाख रुपये को स्वीकृत ऋण को अर्पणित वित्तीय वर्ष 2003-2004 में 498.00 लाख रुपये (चार करोड़ अगठानवे लाख) की निकासी के संबंध में ।

महाशय,

निदेशानुसार उपर्युक्त विषय के संबंध में कहना है कि बिहार राज्य जल विद्युत निगम पटना के नियंत्रणाधीन 17 लघु जल विद्युत परियोजनाओं यथा तेजपुरा, देहरा, शिपाहा, बेलसार, बलिदाद, अरवल, त्रिवेणी, केलाबाग, नासारगंज, महारामा, बकरी, जयनगरा, अगेठी, रामपुर, गढवार, श्रीखण्डा एवं राजापुर को पूरा करने हेतु नाबार्ड के ऋण की शर्तों के आधार पर 6015.02 लाख रुपये ऋण के मद में पत्रांक 04 दिनांक 10.01.2004 द्वारा स्वीकृत किया गया है ।

2. इन सतरह परियोजनाओं को पूरा करने के लिए राज्यादेश सं० 05 दिनांक 16.01.2004 के द्वारा नाबार्ड आर.आई.डी.एफ. (नाबार्ड) के तहत वित्तीय वर्ष 2003-2004 में 6015.02 लाख रुपये ऋण की स्वीकृति तथा वर्ष 2003-2004 में नाबार्ड द्वारा विमुक्त 2339.00 लाख रुपये के विरुद्ध वित्तीय वर्ष 2003-2004 में 2338.00 लाख रुपये की निकासी कर उसी बिहार राज्य जल विद्युत निगम को उपलब्ध करा दी गई है ।

3. पुनः वित्तीय वर्ष 2004-2005 में नाबार्ड द्वारा विमुक्त 301.00 लाख रुपये एवं वर्ष 2003-2004 का शेष 1.00 (एक लाख) रुपये यानि 302.00 लाख रुपये राज्यादेश सं० 128 दिनांक 31.03.2005 द्वारा बिहार राज्य जल विद्युत निगम को वित्तीय वर्ष

4. पुनः वित्तीय वर्ष 2005-2006 में नाबार्ड द्वारा 498.00 लाख रुपये विमुक्त किया गया है। इसकी निकासी वित्तीय वर्ष 2005-2006 में नहीं की गई है। अतः नाबार्ड द्वारा विमुक्त 498.00 (चार सौ अठानवे लाख) रुपये की स्वीकृति बिहार राज्य जल विद्युत निगम को वित्तीय वर्ष 2006-2007 में निम्नांकित शर्तों के आधार पर दी जाती है:-

(क) योजना की प्राक्कलित राशि के 90% (नब्बे प्रतिशत) तक ही ऋण स्वीकृत किया जायेगा।

(ख) इन योजनाओं में 01 अप्रैल, 2002 के बाद किये गये व्यय की प्रतिपूर्ति ऋण के रूप में दिया जायेगा।

(ग) इस ऋण के लिए 6.50 प्रतिशत वार्षिक दर से ब्याज नाबार्ड को देय होगा।

(घ) इस ऋण का भुगतान 7 (सात) वर्ष में करना है जिसमें दो वर्ष ग्रेस पीरियड सम्मिलित है।

(ङ) इस ऋण के राज्य सरकार के वित्त विभाग को मैनडेट आदि के लिए नोडल विभाग माना जायेगा।

5. नाबार्ड द्वारा दिये गये आर.आई.डी.एफ. VIII योजनान्तर्गत ऋण की भरपाई बिहार राज्य जल विद्युत निगम पटना विद्युत आपूर्ति से प्राप्त राजस्व से करेगा।

6. वित्तीय वर्ष 2006-2007 में नाबार्ड के तहत बिहार राज्य जल विद्युत निगम पटना को ऋण के प्रावधानित राशि के विरुद्ध 498.00 लाख रुपये की निकासी बजट शीर्ष-6801-बिजली परियोजनाओं के लिए कर्ज-राज्य योजना-201- पनबिजली उत्पादन-0105-बिहार राज्य जल विद्युत निगम को ऋण (नाबार्ड) मांग सं0-10- विपत्र कोड सं0- पी. 6801002010105 के अन्तर्गत किया जायेगा।



7. इस राशि की निकासी मुख्य अभियंता के सचिव (प्रावधिक) ऊर्जा विभाग के द्वारा सचिवालय कोषागार, सिंचाई भवन, पटना से कर बैंकर्स चेक/बैंक ड्राफ्ट के माध्यम से बिहार राज्य जल विद्युत निगम को प्रदान किया जायेगा।

वित्त विभाग के परिपत्र र.0- एफ-4-3881 दिनांक 07.07.1989 के अनुरूप पुराने बकाए एवं सूद का 25 प्रतिशत की कटौती बिहार राज्य जल विद्युत निगम, पटना की वित्तीय स्थिति को देखते हुए नहीं करने की छूट प्रदान की जाती है।

अतः अनुरोध है कि 498.00 (चार करोड़ अठानवे लाख) रुपये का प्राधिकार पत्र निर्गत करने की कृपा की जाय।

राज्यपाल के आदेश से,

ह0/-

सरकार के अपर सचिव  
ऊर्जा विभाग

पटना, दिनांक-

ज्ञापांक-

प्रतिलिपि-कोषागार पदाधिकारी, सचिवालय कोषागार, सिंचाई भवन, पटना को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

ह0/-

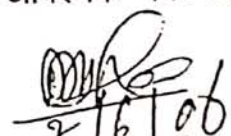
सरकार के अपर सचिव  
ऊर्जा विभाग

पटना, दिनांक- 3/6/06

ज्ञापांक- 2070

प्रतिलिपि-वित्त विभाग, आय व्यय शाखा/वित्त विभाग डाटा कोषांग/प्रबंध निदेशक, बिहार राज्य जल विद्युत निगम, पटना/निबंधक, ऊर्जा विभाग/मुख्य विद्युत अभियंता के सचिव (प्रा0), ऊर्जा विभाग, पटना/लेखा शाखा (तीन प्रतियों में), ऊर्जा विभाग/योजना बजट के प्रभारी सहायक को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।



  
सरकार के अपर सचिव  
ऊर्जा विभाग



बिहार सरकार,  
ऊर्जा विभाग।

पत्रांक -

प्र०-2/ज०वि०नि०-8/03

दिनांक -

सेवा में,

महालेखाकार, बिहार,  
बीरचन्द पटेल मार्ग, पटना।

व्यक्तिगत रूप से  
शेष।

द्वारा :

वित्त विभाग,  
बिहार, पटना।

विषय:-

बिहार राज्य जल विद्युत निगम लि०, पटना के नियंत्रणाधीन 17 (सत्रह) लघु जल विद्युत परियोजनाओं के लिए आर०आई०डी०एफ०-VIII (नाबार्ड) के अन्तर्गत 6015.02 लाख रुपये के स्वीकृत ऋण, के अन्तर्गत वित्तीय वर्ष 2006-07 में 493.00 लाख (चार करोड़ तेरानवे लाख) रुपये की निकासी के संबंध में।

महाशय,

निदेशानुसार उपर्युक्त विषय के संबंध में कहना है कि बिहार राज्य जल विद्युत निगम लि० के नियंत्रणाधीन 17 (सत्रह) जल विद्युत परियोजनाओं यथा तेजपुरा, डेहरा, सिपाहा, बेलसार, बलीदाद, अरवल, त्रिवेणी, देलाबाग, पहरामा, नासरीगंज, जयनगरा, सिरखिण्डा, अमेठी, रामपुर, नटवार, राजापुर एवं सेवारी को पूरा करने हेतु नाबार्ड के ऋण की शर्तों के आधार पर 6015.02 लाख रुपये ऋण के मद में पत्रांक 04 दिनांक 16.01.2004 द्वारा स्वीकृत किया गया है।

2. इन सत्रह (17) परियोजनाओं को पूरा करने के लिए, राज्यादेश सं०- 5 दिनांक 16.01.2004 के द्वारा आर०आई०डी०एफ० (नाबार्ड) के तहत वित्तीय वर्ष 2003-04 में 6015.02 लाख रुपये ऋण की स्वीकृति तथा वर्ष 2003-04 में नाबार्ड द्वारा विमुक्त 2339.00 लाख रुपये के विरुद्ध वित्तीय वर्ष 2003-04 में 2338.00 लाख रुपये की निकासी कर उसे बिहार राज्य जल विद्युत निगम को उपलब्ध करा दी गई है।

3. पुनः वित्तीय वर्ष 2004-05 में नाबार्ड द्वारा विमुक्त 301.00 लाख रुपये एवं वर्ष 2003-04 का शेष 1.00 लाख (एक लाख) रुपये यानि 302.00 लाख रुपये राज्यादेश सं०-126 दिनांक 31.03.2005 द्वारा बिहार राज्य जल विद्युत निगम को वित्तीय वर्ष 2004-05 में स्वीकृत किया गया। पुनः वित्तीय वर्ष 2005-06 में नाबार्ड द्वारा 498.00 लाख रुपये विमुक्त किया गया उसे राज्यादेश सं०-2070 दिनांक 03.06.2006 द्वारा वित्तीय वर्ष 2006-07 में बिहार राज्य जल विद्युत निगम को स्वीकृत किया गया।

4. वित्तीय वर्ष 2006-07 में नाबार्ड द्वारा 493.00 लाख रुपये विमुक्त किया गया है। अतः नाबार्ड द्वारा विमुक्त 493.00 लाख (चार करोड़ तेरानवे लाख) रुपये की स्वीकृति बिहार राज्य जल विद्युत निगम को वित्तीय वर्ष 2006-07 में निम्नांकित शर्तों के आधार पर दी जाती है :-

(क) योजना की प्राक्कलित राशि के 90% (नब्बे प्रतिशत) तक ही ऋण स्वीकृत किया जाएगा।

(ख) इन परियोजनाओं में 01 अप्रैल, 2002 के बाद किये गये व्यय की प्रतिपूर्ति ऋण के रूप में दिया जाएगा।

(ग) इस ऋण के लिए 6.50% (साढ़े छः प्रतिशत) वार्षिक व्याज नाबाई व होगा।

(घ) इस ऋण का भुगतान 7 (सात) वर्षों में करना है जिसमें दो वर्ष ग्रेस में सम्मिलित हैं।

(ङ) इस ऋण के लिये राज्य सरकार के वित्त विभाग को मन्डेट आदि के नोडल विभाग माना जाएगा।

5. नाबाई द्वारा दिये गये आर0आई0डी0एफ0-VIII योजनान्तर्गत ऋण की बिहार राज्य जल विद्युत निगम, पटना पिछुत आपूर्ति से प्राप्त राजस्व से करेगा।

6. वित्तीय वर्ष 2006-07 में नाबाई के तहत बिहार राज्य जल विद्युत निगम को ऋण के प्रावधानित राशि के विरुद्ध 493.00 लाख रुपये की निकासी बजट 6801-बिजली परियोजनाओं के लिए ऊर्जा-राज्य योजना-201-पनावेजनी पटना बिहार राज्य जल विद्युत निगम को ऋण (नाबाई) नाम संख्या 10 विपन कोड पी-6801002010105 के अन्तर्गत विकलनीय होगा।

7. इस राशि की निकासी मुख्य विद्युत अभियन्ता के सचिव (प्रावधिक), विभाग के द्वारा सचिवालय कोषागार, सिंचाई भवन, पटना से कर बैंकर्स चेक/बैंक ड्राप माध्यम से बिहार राज्य जल विद्युत निगम, पटना को भुगतान किया जाएगा।

अतः अनुरोध है कि 493.00 लाख (चार करोड़ तिरास लाख) रुपये प्राधिकार पत्र निर्गत करने की कृपा की जाए।

बिहार राज्यपाल के आदेश

ह0/-

सरकार के अपर सचिव,  
ऊर्जा विभाग, बिहार, पटना

ज्ञापांक - \_\_\_\_\_

दिनांक - \_\_\_\_\_

प्रतिलिपि कोषागार पदाधिकारी, सचिवालय कोषागार, सिंचाई भवन, पटना सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

ह0/-

सरकार के अपर सचिव,  
ऊर्जा विभाग, बिहार, पटना

ज्ञापांक - 13331

दिनांक - 20/3/07

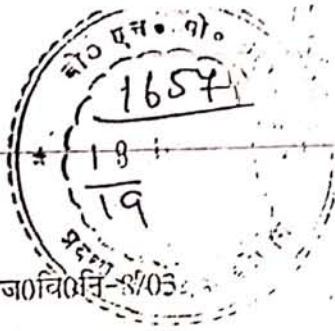
प्रतिलिपि वित्त विभाग, आय व्यय शाखा/वित्त विभाग, डाटा कोषागार/निदेशक, बिहार राज्य जल विद्युत निगम लि0, पटना/उप सचिव, ऊर्जा विभाग/विद्युत अभियन्ता के सचिव (प्रावै0), ऊर्जा विभाग, पटना/लेखा शाखा (तीन प्रतियाँ) ऊर्जा विभाग, पटना/योजना बजट शाखा के प्रभारी सहायक, ऊर्जा विभाग को सूच एवं आवश्यक कार्रवाई हेतु प्रेषित।

सरकार के अपर सचिव,

ऊर्जा विभाग, बिहार, पटना

ह0/-





बिहार सरकार  
ऊर्जा विभाग

पटना, दिनांक

पत्रांक प्र-2/ज0वि0नि-8/03

सेवा में,

महालेखाकार, बिहार,  
वीरचंद पटेल पथ,  
पटना-1.

द्वारा:- वित्त विभाग,  
बिहार, पटना

आमोषचारिक रूप  
से परामर्शित।

विषय:- वित्तीय वर्ष 2007-08 में बिहार राज्य जल विद्युत निगम के नियंत्रणाधीन 17 (सतरह) लघु जल विद्युत परियोजनाओं के लिए आर0आई0डी0एफ0 VIII (नावार्ड) के अन्तर्गत 6015.02 लाख रुपये के स्वीकृत ऋण के अन्तर्गत 123.00 लाख (एक करोड़ तेईस लाख) रुपये की निकासी के संबंध में।

महाशय,

निर्देशानुसार उपर्युक्त विषय के संबंध में कहना है कि बिहार राज्य जल विद्युत निगम, पटना के नियंत्रणाधीन 17 (सतरह) लघु जल विद्युत परियोजनाओं यथा तेजपुरा, डेहरा, सिचाहा, बेलसार, बलिदाद, अरघल, चिवेणी, कुलाबान, नासीमन, पहागा, सेवारी, जयनगर, अमंडी, रामपुर, नटवार, श्रीखिन्डा एवं राजापुर को पूरा करने हेतु नवार्ड की ऋण की शर्तों के आधार पर 6015.02 लाख रुपये ऋण मद में पत्रांक 04 दिनांक 16.01.04 द्वारा स्वीकृत किया गया है।

2. इन 17 परियोजनाओं को पूरा करने के लिए रा. देश संख्या- 05 दिनांक 16.01.2004 द्वारा आर0आई0डी0एफ0 (नावार्ड के तहत) वित्तीय वर्ष 2003-04 में 6015.02 लाख रुपये ऋण की स्वीकृति तथा वर्ष 2003-04 में नवार्ड द्वारा विमुक्त 2339.00 लाख रुपये के विमुक्त वित्तीय वर्ष 2003-04 में 2338.00 लाख रुपये की निकासी कर उसे बिहार राज्य जल विद्युत निगम को उपलब्ध करा दी गई।

3. पुनः वित्तीय वर्ष 2004-05 में नवार्ड द्वारा विमुक्त 302.00 लाख रुपये एवं वर्ष 2003-04 का शेष 1.00 लाख (एक लाख) रुपये यानि, 302.00 लाख रुपये राज्यादेश संख्या 126 दिनांक 31.03.2005 द्वारा बिहार राज्य जल विद्युत निगम को वित्तीय वर्ष 2004-05 में स्वीकृत किया गया। पुनः वित्तीय वर्ष 2005-06 में नवार्ड द्वारा विमुक्त 498.00 लाख रुपये राज्यादेश सं0 2070 दिनांक 03.06.2006 द्वारा वित्तीय वर्ष 2006-07 में बिहार राज्य जल विद्युत निगम को स्वीकृत किया गया। वित्तीय वर्ष 2006-07 में नवार्ड द्वारा विमुक्त 493.00 लाख रुपये राज्यादेश सं0 1333 दिनांक 20.03.07 द्वारा बिहार राज्य जल विद्युत निगम को स्वीकृत किया गया।





4. पुनः वित्तीय वर्ष 2006-07 में नाबार्ड द्वारा दिनांक 29.03.07 को 123.00 लाख करोड़ तेईस लाख) रुपये विमुक्त किया गया है। इसकी निकासी वित्तीय वर्ष 2006-07 की गई। अतः नाबार्ड द्वारा विमुक्त 123.00 लाख रुपये की स्वीकृति बिहार राज्य जल निगम को वित्तीय वर्ष 2007-08 में निम्नांकित शर्तों के आधार पर दी जाती है।

(क) योजना की प्राक्कलित राशि के नब्बे प्रतिशत तक ही ऋण स्वीकृत किया जाय।

(ख) इन योजनाओं में 1 अप्रैल 2002 के बाद किये गये व्यय की प्रतिपूर्ति ऋण के रूप में दिया जायगा।

(ग) इस ऋण के लिए 6.50 प्रतिशत वार्षिक दर से व्याज नाबार्ड को देय होगा।

(घ) इस ऋण का भुगतान सात वर्षों में करना है जिसमें से दो वर्ष ग्रेस पीरियड सम्मिलित

(ङ) इस ऋण के लिए राज्य सरकार के वित्त विभाग को मैनडेट आदि के लिए नोडल विमाना जायगा।

5. नाबार्ड द्वारा दिये गये आर0आई0डी0एफ0 VIII योजना अंतर्गत ऋण की भरपाई 1 राज्य जल विद्युत निगम, पटना विद्युत आपूर्ति से प्राप्त राश्व से करेगा।

6. वित्तीय वर्ष 2007-08 में नाबार्ड के तहत बिहार राज्य जल विद्युत निगम पटना को के प्रावधानित राशि के विरुद्ध 123.00 लाख रुपये की निकासी वजेट शीर्ष 6801- विपरियोजनाओं के लिए कर्ज-राज्य योजना-201-पनविजली-उत्पादन-0105- बिहार राज्य जल विनिगम को ऋण(नाबार्ड)-मांग संख्या-10 विपत्र कोड संख्या-पी0 6801002010105 के अन्विकलनीय होगा।

7. इस राशि की निकासी मुख्य विद्युत अभियंता के सचिव(प्रावैधिक) ऊर्जा विभाग के द्वसचिवालय कोषागार, सिंचाई भवन, पटना से कर बैंकर्स चेक/बैंक ड्राफ्ट के माध्यम से बिहार राज्य जल विद्युत निगम, पटना को भुगतान किया जायगा।

अतः अनुरोध है कि 123.00 लाख एक करोड़ तेईस लाख) रुपये का प्राधिकार निर्गत करने की कृपा की जाय।

24

बिहार राज्यपाल के आदेश से

ह0/-

सरकार के अपर सचिव

ऊर्जा विभाग, बिहार पटना।



1386

-3-

प्र-2/ज0वि0नि08/03

ज्ञापांक

पटना, दिनांक

प्रतिलिपि:- कोपागार पदाधिकारी, सचिवालय कोषागार, सिंचाई भवन, पटना को सूचना  
आवश्यक कार्रवाई हेतु प्रेषित।

ह0/-

सरकार के अपर सचिव  
ऊर्जा विभाग, बिहार, पटना

प्र-2/ज0वि0नि08/03

ज्ञापांक- 3211

पटना, दिनांक 16/7/07

प्रतिलिपि:- वित्त विभाग, आय-व्यव शाखा/ वित्त विभाग, डाटा कोषांग/ प्रबंध निदेशक,  
राज्य जल विद्युत निगम लि0, पटना/ उप सचिव, ऊर्जा विभाग/ मुख्य विद्युत अभियंता  
सचिव(प्रावैधिक) ऊर्जा विभाग, पटना/ लेखा शाखा (तीन प्रतियों में) ऊर्जा विभाग, पटना/ एवं  
वजट शाखा के प्रभारी सहायक, ऊर्जा विभाग के सूचनार्थ एवं आश्यक कार्रवाई हेतु प्रेषित

सरकार के अपर सचिव  
ऊर्जा विभाग, बिहार, पटना

16/7/07

प्रबंध निदेशक

राज्य जल विद्युत निगम लि0

पटना

महालेखाकार, बिहार  
वीरचंद पटेल पथ,  
पटना

आचार्य

पटना

पटना

द्वारा,

वित्त विभाग,

बिहार, पटना

विषय:- वित्तीय वर्ष 2007  
पटना के नियंत्रणा  
के लिए आर०आ  
6015.02 लाख  
लाख (दो करोड़  
में)

मान्य,

निदेशानुसार उपर्युक्त  
जल विद्युत निगम लि०, पटना  
परियोजनाओं यथा तेजपुरा, डे  
टुलावाग, नासरागंज, पट्टरामा  
आखण्डा एवं राजापुर को पूरा  
पर रु० 6015.02 लाख में  
स्वीकृत किया गया है।

2. इन 17 परियोजना  
दिनांक 16.01.04 द्वारा आ  
वर्ष 2003-04 में रु० 6015  
में नावाड द्वारा विमुक्त रु०  
में रु० 2338.00 लाख को  
पटना को उपलब्ध करा दी गई

3. पुनः वित्तीय वर्ष  
लाख एवं वर्ष 2003-04 में  
302.00 लाख राज्यदेश सं०  
विद्युत निगम को वित्तीय वर्ष  
वर्ष 2005-06 में नावाड  
2070 दिनांक 03.06.2006  
विद्युत निगम लि०, पटना में  
नावाड द्वारा विमुक्त रु०



03.07 द्वारा बिहार राज्य जल विद्युत निगम लि०, पटना को स्वीकृत किया गया।

4. पुनः वित्तीय वर्ष 2006-07 में नावाडं द्वारा विमुक्त रु० लाख राज्यादेश संख्या 3211 दिनांक 16.07.07 द्वारा वित्तीय वर्ष 20 में बिहार राज्य जल विद्युत निगम लि०, पटना को स्वीकृत किया गया।

5. वित्तीय वर्ष 2007-08 में नावाडं द्वारा दिनांक 07.08.2007 रु० 2,74,00,000 (दो लाख चौदह लाख रुपये मात्र) विमुक्त किया गया अतः नावाडं द्वारा विमुक्त रु० 2,74,00,000 लाख की स्वीकृत बिहार जल विद्युत निगम लि०, पटना को वित्तीय वर्ष 2007-08 में निम्नांकित के आधार पर दी जाती है।

(क) योजना की प्राक्कलित राशि के नब्बे प्रतिशत तक ही ऋण किया जाएगा।

(ख) इन परियोजनाओं में 1 अप्रैल 2002 के बाद किए गए ऋण प्रतिपूर्ति ऋण के रूप में दिया जाएगा।

(ग) इस ऋण के लिए 6.5 प्रतिशत वार्षिक दर से ब्याज नावाडं देय होगा।

(घ) इस ऋण का भुगतान सात वर्षों में करना है जिसमें दो वर्ष प्रीग्रिड सम्मिलित हैं।

(ङ) इस ऋण के लिए राज्य सरकार से वित्त विभाग को मेनडेट के लिए नोडल विभाग माना जाएगा।

6. नावाडं द्वारा दिए गए आर० आई० डी० एफ० एम० के अन्तर्गत ऋण की भरपाई बिहार राज्य जल विद्युत निगम लि०, पटना से आपूर्ति से प्राप्त राजस्व से करेगा।

7. वित्तीय वर्ष 2007-08 में नावाडं के तहत बिहार राज्य जल विद्युत निगम लि०, पटना को ऋण के प्राक्कलित राशि के विस्तृत रु० 274.00 (दो करोड़ चौदह लाख रुपये मात्र) की निकासी बजट शीप 6801 परियोजनाओं के लिए वर्ग-राज्य योजना-201-पनविजली उत्पादन-0105-बिहार राज्य जल विद्युत निगम लि०, पटना को क्र : (नावाडं)- मांग संख्या-10-वि कोड संख्या 6801002010105 के अन्तर्गत विकल्पनीय है।

8. इस राशि की निकासी मुख्य विद्युत अभियन्ता के सचिव (प्राविधिक) ऊर्जा विभाग के द्वारा सचिवालय कोषागार, सिंचाई भवन, पटना से कर बैंक/बैंक ड्राफ्ट के माध्यम से बिहार राज्य जल विद्युत निगम लि०, पटना को भुगतान किया जाएगा।

9. वित्त विभाग के परिपत्र संख्या 7355 दिनांक 05.10.07 अनुसार इसमें प्राधिकार पत्र की आवश्यकता नहीं है।

बिहार राज्यपाल के आदेश से,

हस्ताक्षर

सरकार के अपर सचिव  
ऊर्जा विभाग, बिहार, पटना

ज्ञापांक-

पटना, दिनांक-

प्रतिलिपि:- कोषागार पदाधिकारी, रात्रिवालय कोषागार, सिंचाई भवन  
पटना को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

ह०/-

सरकार के अपर सचिव  
ऊर्जा विभाग

ज्ञापांक-

85

पटना, दिनांक- 10/11/08-

प्रतिलिपि:- वित्त विभाग, आय-व्यय शाखा/डाटा कोषांग वित्त  
विभाग/प्रबन्ध निदेशक, विहार राज्य जल विद्युत निगम  
लि०, सोन भवन, पटना/उप सचिव, ऊर्जा विभाग/मुख्य  
विद्युत अभियन्ता के सचिव(प्रावैधिक), ऊर्जा विभाग,  
पटना/लेखा शाखा(तीन प्रतियों में), ऊर्जा विभाग,  
पटना/योजना एवं बजट शाखा के प्रभारी सहायक, ऊर्जा  
विभाग के सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

सरकार के अपर सचिव  
ऊर्जा विभाग, विहार, पटना

10/11/08



(५५)

(Lr 2)

बिहार सरकार  
ऊर्जा विभाग

पत्रांक-प्र-2/ज०वि०नि०-08/03

पटना, दिनांक-

सेवा में,

मुख्य विद्युत अभियन्ता के सचिव(प्रावैधिक),  
ऊर्जा विभाग, बिहार, पटना।

विषय:- वित्तीय वर्ष 2007-08 में बिहार राज्य जल विद्युत निगम लि०, पटना को रु० 11,03,000,00/- (ग्यारह करोड़ तीन लाख रुपए) मात्र के आवंटन की स्वीकृति के संबंध में।

महाशय,

उपर्युक्त विषय के प्रसंग में ऊर्जा विभाग के राज्यादेश संख्या-1283 दिनांक- 14.03.08 के आलोक में वित्तीय वर्ष 2007-08 में बिहार राज्य जल विद्युत निगम लि०, पटना को नाबार्ड द्वारा स्वीकृत रु० 11,03,000,00/- (ग्यारह करोड़ तीन लाख रुपए) मात्र का आवंटन स्वीकृत एवं विमुक्त किया जाता है।

2. यह राशि बजट शीर्ष 6801-विजली परियोजनाओं के लिए कर्ज-राज्य योजना-201-पनविजली उत्पादन-0105-बिहार राज्य जल विद्युत निगम को ऋण(नाबार्ड) मांग संख्या-10-विपत्र कोड संख्या पी०-6801002010105 के तहत वित्तीय वर्ष 2007-08 में उपबंधित राशि के अन्तर्गत विकलनीय होगा।

3. इस राशि की निकासी सचिवालय कोषागार, सिंचाई भवन, पटना से की जाएगी।

4. यह आवंटन वित्त विभाग के पत्रांक 2561 दिनांक 17.04.1998 के आलोक में निर्गत किया जाता है तथा निकासी एवं व्ययन पदाधिकारी से अनुरोध है कि राशि की निकासी के पूर्व सभी प्रक्रियाओं का अनुपालन सुनिश्चित करने के बाद ही राशि की निकासी करेंगे। यह राशि इस मद में कुल उपबंधित राशि के अधीन है।

5. आवंटित राशि के निकासी के पूर्व संबंधित विपत्र पर निकासी एवं व्ययन पदाधिकारी आवंटन आदेश की संख्या एवं तिथि के साथ-साथ संबंधित इकाई के कोड संख्या का भी उल्लेख करेंगे तथा विपत्र पर चिन्हित राशि उपबंध के अन्तर्गत होने का प्रमाण पत्र अंकित करेंगे।

6. निकासी एवं व्ययन पदाधिकारी किसी भी परिस्थिति में आवंटित राशि से अधिक की निकासी नहीं करेंगे। इस राशि का भुगतान बैंक ड्राफ्ट/बैंकर्स चेक के माध्यम से बिहार राज्य जल विद्युत निगम लि०, पटना को किया जाएगा।

विश्वासभाजन,

ह०/-

(राजेश गुप्ता)

सरकार के सचिव

ऊर्जा विभाग

प्र-2/ज०वि०नि०-08/03

ज्ञापां०

पटना, दिनांक-

प्रतिलिपि:- कोषागार पदाधिकारी, सचिवालय कोषागार, सिंचाई भवन,  
पटना को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

ह०/-


सरकार के सचिव  
ऊर्जा विभाग

प्र-2/ज०वि०नि०-08/03

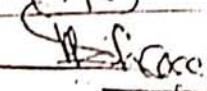
ज्ञापां० 34

पटना, दिनांक:-18/3/08

प्रतिलिपि:- प्रबन्ध निदेशक, बिहार राज्य जल दिद्युत निगम लि०,  
सोन भवन, पटना को सूचनार्थ एवं आवश्यक कार्रवाई  
हेतु प्रेषित।

  
सरकार के सचिव  
ऊर्जा विभाग

M (H/C)

  
18/3/08



5611  
23/09

विहार सरकार  
ऊर्जा विभाग

23/09 11/1/09



पत्रांक- प्र०२ आर०आई०डी०एफ० XIII-09/06-

पटना, दिनांक-

सेवा में

महालेखाकार, बिहार,  
मोरचंद पटेल पथ, पटना।

विषय:- बिहार राज्य जल विद्युत निगम लि०, पटना के नियंत्रणाधीन प० चम्पारण जिलान्तर्गत चार लघु जल विद्युत परियोजनाओं के लिए रु० 3014.35 लाख (तीस करोड़ चौदह लाख पैंतीस हजार) की योजना की स्वीकृति एवं आर०आई०डी०एफ० XIII (नाबार्ड) के अन्तर्गत रु० 2863.63 (अट्ठाईस करोड़ तिरसठ लाख तिरसठ हजार) ऋण की स्वीकृति तथा वित्तीय वर्ष 2008-09 में रु० 784.00 लाख (सात करोड़ चौरासी लाख) की व्यय की स्वीकृति-द संबंध में।

आदेश:- स्वीकृत।

महाशय

बिहार राज्य जल विद्युत निगम लि०, पटना के नियंत्रणाधीन प० चम्पारण जिलान्तर्गत चार लघु जल विद्युत परियोजनाओं यथा धोबा, कटन्या, बरबल एवं मथौली के निर्माण हेतु राज्य सरकार द्वारा रु० 3014.35 लाख (तीस करोड़ चौदह लाख पैंतीस हजार) की योजना की स्वीकृति प्रदान की है। उक्त योजनाओं को पूरा करने हेतु नाबार्ड ने आर०आई०डी०एफ० XIII के तहत रु० 2863.63 लाख (अट्ठाईस करोड़ तिरसठ लाख तिरसठ हजार) ऋण की स्वीकृति अपने शर्तों के आधार पर देने की स्वीकृति प्रदान की है जिसके विरुद्ध रु० 784.00 लाख (सात करोड़ चौरासी लाख) की राज्य सरकार की स्वीकृति संसूचित की जाती है।

2. नाबार्ड के आर०आई०डी०एफ० XIII के अधीन ऋण की शर्तें निम्नवत होगी।  
(क) योजना की प्राक्कलित राशि के 95 प्रतिशत तक ही ऋण स्वीकृत किया जाएगा।

(ख) इन योजनाओं में 1 अप्रिल, 2007 के या उसके बाद किए गए व्यय की ही प्रतिपूर्ति ऋण के रूप में किया जाएगा।

(ग) इस ऋण के लिए 6.5 प्रतिशत वार्षिक दर से ब्याज नाबार्ड को देय होगा।

(घ) इस ऋण का भुगतान सात वर्षों में करना है जिसमें दो वर्ष ग्रेस पीरियड सम्मिलित है।

(ङ) इस ऋण के लिए राज्य सरकार का वित्त विभाग मैनडेट आदि के लिए पूर्व से घोषित नोडल विभाग के रूप में कार्य करेगा।

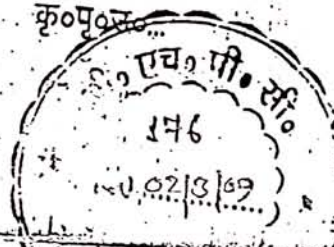
(च) ऋण का भुगतान प्रतिपूर्ति के रूप में उपलब्ध कराया जाएगा।

3. नाबार्ड द्वारा दिए गए आर०आई०डी०एफ० XIII योजना अन्तर्गत ऋण की भरपाई, बिहार राज्य जल विद्युत निगम लि०, पटना विद्युत आपूर्ति से प्राप्त राजस्व से करेगा।

4. उक्त राशि की निकासी बजट मुख्य शीर्ष 6801-बिजली परियोजनाओं के लिए कर्ज-उप मुख्यशीर्ष-00-लघु शीर्ष-201-पनबिजली उत्पादन- समूह शीर्ष-राज्य योजना- मुख्यशीर्ष-00-लघु शीर्ष-201-पनबिजली उत्पादन- समूह शीर्ष-राज्य योजना-

E-sk-M-HL-AG-02

12/10/09  
21/09/09





उपशीर्ष 0105-बिहार राज्य जल विद्युत निगम को ऋण-(नाबाई) मांग संख्या-10-विपत्र कोड-पी० 6801002010105 के अन्तर्गत वित्तीय वर्ष 2008-09 में उपबंधित राशि के अन्तर्गत किया जाएगा।

5. इस राशि की निकासी मुख्य विद्युत अभियन्ता के सचिव (प्रावधिक), ऊर्जा विभाग के द्वारा सचिवालय कोषागार, सिंचाई भवन से कर बैंक ड्राफ्ट/बैंकर्स चेक के माध्यम से बिहार राज्य जल विद्युत निगम लि० को भुगतान किया जाएगा।

5. वित्त विभाग के परिपत्र सं०-7355 दिनांक- 05.10.07 के अनुसार इसमें प्राधिकार पत्र की आवश्यकता नहीं है।

7. वित्त विभाग के गै०स०प्रे०सं० 39/एफ० 8 दिनांक- 29.01.09 द्वारा संचिका सं० प्र०2/आर०आई०डी०एफ० XIII -09/06 के पृ० 42-44/टि० पर राज्यादेश पर वित्त विभाग की सहमति प्राप्त है।

8. बिहार राज्य जल विद्युत निगम को यह निर्देश दिया जाता है कि वे समय पर प्रतिपूर्ति का दावा भेजना सुनिश्चित करेंगे।

डा० बिहार राज्यपाल के आदेश से,

(ए० एन० मिश्र)

सरकार के उप सचिव।

ज्ञापांक-

पटना दिनांक-

प्रतिलिपि:- कोषागार पदाधिकारी, सचिवालय, सिंचाई भवन, पटना को सूचनार्थ एवं आवश्यक कार्यार्थ प्रेषित।

(ए० एन० मिश्र)

सरकार के उप सचिव।

ज्ञापांक- 572

पटना, दिनांक- 26/2/09

प्रतिलिपि:- वित्त विभाग, आय व्यय शाखा/वित्त विभाग, डाटा कोषागार/प्रबन्ध निदेशक, बिहार राज्य जल विद्युत निगम लि०, सिंचाई भवन, पटना/मुख्य विद्युत अभियन्ता के सचिव (प्रावधिक), ऊर्जा विभाग, पटना/लेखा शाखा (दो प्रतियों में), ऊर्जा विभाग, पटना/योजना एवं बजट शाखा के प्रभारी सहायक, ऊर्जा विभाग, पटना को सूचनार्थ एवं आवश्यक कार्यार्थ प्रेषित।

587

24/2/09

(ए० एन० मिश्र)

सरकार के उप सचिव।

प्रमुख निदेशक  
जल विद्युत निगम लि०  
सिंचाई भवन पटना



बिहार सरकार  
ऊर्जा विभाग

पत्रांक-प्र2/आर0 आई0 डी0 एफ0 XIII-03/06

सेवा में,

महालेखाकार,  
बिहार, पटना।

विषय:- वित्तीय वर्ष 2009-10 में बिहार राज्य जल विद्युत निगम लि0, पटना के नियंत्राधीन 4 (चार) लघु जल विद्युत परियोजनाओं के लिए आर0 आई0 डी0 एफ0- XIII (नाबार्ड) के अन्तर्गत स्वीकृत ऋण रू0 2863.63 लाख (अठ्ठाईस करोड़ तिरसठ लाख तिरसठ हजार रू0) के अन्तर्गत रू0 174.56 लाख (एक करोड़ चौहत्तर लाख छप्पन हजार) की स्वीकृति के संबंध में।

महाशय,

निदेशानुसार उपर्युक्त विषय के संबंध में कहना है कि बिहार राज्य जल विद्युत निगम लि0, पटना के नियंत्राधीन 4 (चार) लघु जल विद्युत परियोजनाओं यथा घोबा कटन्या, मथौली एवं बरबल को पूरा करने हेतु नाबार्ड द्वारा आर0 आई0 डी0 एफ0- XIII के अन्तर्गत नाबार्ड की ऋण की शर्तों के आधार पर रू0 2863.63 लाख ऋण स्वीकृत किया गया है जिसकी प्रशासनिक स्वीकृति पत्रांक 576 दिनांक 26.02.09 के द्वारा दी गई है।

- इन चार परियोजनाओं को पूरा करने के लिए राज्यादेश सं0-572 दिनांक 26.02.09 द्वारा आर0 आई0 डी0 एफ0 (नाबार्ड) के तहत वित्तीय वर्ष 2008-09 में रू0 2863.63 लाख ऋण की स्वीकृति एवं 784.00 लाख रू0 की निकासी कर उसे बिहार राज्य जल विद्युत निगम को उपलब्ध करा दी गई।
- वित्तीय वर्ष 2009-10 में नाबार्ड के पत्रांक-971 दिनांक 30.07.09 द्वारा रू0 174.56 लाख विमुक्त किया गया है।

अतः नाबार्ड द्वारा विमुक्त 174.56 लाख रू0 (एक करोड़ चौहत्तर लाख छप्पन हजार रू0) की स्वीकृति बिहार राज्य जल विद्युत निगम लि0, पटना को निम्नांकित शर्तों के आधार पर दी जाती है:-

ऋण की शर्तें निम्नवत् होगी

- (क) ऋण पुर्नभुगतान एवं सूद का भुगतान 10 (दस) बराबर वार्षिक किस्तों में होगी। इसकी पहली किस्त की अदायगी ऋण निकासी की तिथि से एक वर्ष के बाद प्रारम्भ होगी।
- (ख) इस ऋण पर 13 प्रतिशत की दर से वार्षिक ब्याज देय होगा।
- (ग) समय पर भुगतान नहीं करने पर 2.5 प्रतिशत की दर से विलम्ब दण्ड-शुल्क देय होगा।
- (घ) वित्त विभाग के परिपत्र संख्या एफ0-04/98-88-3881/, दिनांक 07.07.1989 के अनुसार पुराने बकाए एवं सूद का 25 प्रतिशत की कटौती बिहार राज्य विद्युत बोर्ड की दयनीय स्थिति को देखते हुए नहीं करने की छूट प्रदान की जाती है।

- नाबार्ड द्वारा दिए गए आर0 आई0 डी0 एफ0- XIII योजना अन्तर्गत ऋण की भरपाई बिहार राज्य जल विद्युत निगम लि0 पटना विद्युत आपूर्ति से प्राप्त राजस्व से करेगा।

(41)

5. उक्त राशि की निकासी बजट मुख्य शीर्ष 6801/-विजली परियोजनाओं के लिए कर्ज उप मुख्य शीर्ष-00- लघु शीर्ष-201- पन विजली उत्पादन-समूह शीर्ष- राज्य योजना- उप शीर्ष-0105- बिहार राज्य जल विद्युत निगम को ऋण (नाबार्ड)- मांग सं०-10- विपत्र कोड- पी० 6801002010105 विषय शीर्ष 5501 ऋण एवं अग्रिम के अन्तर्गत वित्तीय वर्ष-2009-10 में उपबंधित राशि के अन्तर्गत किया जाएगा।
6. इस राशि की निकासी मुख्य विद्युत अभियन्ता के सचिव (प्रावैधिक), ऊर्जा विभाग पटना के द्वारा सचिवालय कोषागार, सिंचाई भवन, पटना से कर बैंक ड्राफ्ट/बैंकर्स चेक के माध्यम से बिहार राज्य जल विद्युत निगम लि०, पटना को भुगतान किया जाएगा।
7. वित्त विभाग के परिपत्र सं०-7355 दिनांक 05.10.07 के अनुसार इसमें प्राधिकार पत्र की आवश्यकता नहीं है।
8. वित्त विभाग के गै० सं० प्र० सं० 26 (सचिव-व्यय) दिनांक 04.01.2010 द्वारा संचिका संख्या-प्र२/आर० आई० डी० एफ०-XIII 09/06 के पृष्ठ 64/टि० के राज्यादेश पर वित्त विभाग की सहमति प्राप्त है।
9. बिहार राज्य जल विद्युत निगम को यह निर्देश दिया जाता है कि वे समय पर प्रतिपूर्ति का दावा भेजना सुनिश्चित करेंगे।

बिहार राज्यपाल के आदेश से  
ह०/-

सरकार के उप सचिव,  
ऊर्जा विभाग।

पटना दिनांक

ज्ञापांक-

प्रतिलिपि:-कोषागार पदाधिकारी, सचिवालय कोषागार, सिंचाई भवन, पटना को सूचनार्थ एवं आवश्यक कार्यार्थ प्रेषित।

ह०/-

सरकार के उप सचिव।

पटना दिनांक 12/1/10

ज्ञापांक-

69

प्रतिलिपि:-प्रबंध निदेशक बिहार राज्य जल विद्युत निगम लि०, सोनभवन, पटना को सूचनार्थ एवं आवश्यक कार्यार्थ प्रेषित।

सरकार के उप सचिव।



5. उक्त राशि की निकासी बजट मुख्य शीर्ष 6801/- विजली परियोजनाओं के लिए कर्ज उप मुख्य शीर्ष-00- लघु शीर्ष-201- पन विजली उत्पादन-समूह शीर्ष- राज्य योजना- उप शीर्ष-0105- बिहार राज्य जल विद्युत निगम को ऋण (नाबार्ड)- मांग सं०-10- विपत्र कोड- पी० 6801002010105 विषय शीर्ष 5501 ऋण एवं अग्रिम के अन्तर्गत वित्तीय वर्ष-2009-10 में उपबंधित राशि के अन्तर्गत किया जाएगा।
6. इस राशि की निकासी मुख्य विद्युत अभियन्ता के सचिव (प्रावधिक), ऊर्जा विभाग पटना के द्वारा सचिवालय कोषागार, सिंचाई भवन, पटना से कर बैंक ड्राफ्ट/बैंकर्स चेक के माध्यम से बिहार राज्य जल विद्युत निगम लि०, पटना को भुगतान किया जाएगा।
7. वित्त विभाग के परिपत्र सं०-7355 दिनांक 05.10.07 के अनुसार इसमें प्राधिकार पत्र की आवश्यकता नहीं है।
8. वित्त विभाग के गौ० सं० प्रे० सं० 26 (सचिव-व्यय) दिनांक 04.01.2010 द्वारा संचिका संख्या-प्र२/आर० आई० डी० एफ०-XIII 09/06 के पृष्ठ 64/टि० के राज्यादेश पर वित्त विभाग की सहमति प्राप्त है।
9. बिहार राज्य जल विद्युत निगम को यह निर्देश दिया जाता है कि वे समय पर प्रतिपूर्ति का दावा भेजना सुनिश्चित करेंगे।

बिहार राज्यपाल के आदेश से  
ह०/-

सरकार के उप सचिव,  
ऊर्जा विभाग।  
पटना दिनांक

ज्ञापांक-

प्रतिलिपि:-कोषागार पदाधिकारी, सचिवालय कोषागार, सिंचाई भवन, पटना को सूचनार्थ एवं आवश्यक कार्यार्थ प्रेषित।

ह०/-  
सरकार के उप सचिव।  
पटना दिनांक 12/11/10

ज्ञापांक- 69

प्रतिलिपि:-प्रबंध निदेशक बिहार राज्य जल विद्युत निगम लि०, सोनभवन, पटना को सूचनार्थ एवं आवश्यक कार्यार्थ प्रेषित।

सरकार के उप सचिव।

बिहार सरकार  
ऊर्जा विभाग

पत्रांक-प्र2/आर0 आई0 डी0 एफ0 XIII-03/06

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पटना, दिनांक

सेवा में,

महालेखाकार,  
बिहार, पटना।

विषय:- वित्तीय वर्ष 2009-10 में बिहार राज्य जल विद्युत निगम लि0, पटना के नियंत्राधीन 4 (चार) लघु जल विद्युत परियोजनाओं के लिए आर0 आई0 डी0 एफ0- XIII (नाबार्ड) के अन्तर्गत स्वीकृत ऋण रू0 2863.63 लाख (अठ्ठाईस करोड़ तिरसाठ लाख तिरसठ हजार रू0) के अन्तर्गत रू0 360.17 लाख (तीन करोड़ साठ लाख सतरह हजार) रू0 की स्वीकृति के संबंध में।

महाशय,  
निदेशानुसार उपर्युक्त विषय के संबंध में कहना है कि बिहार राज्य जल विद्युत निगम लि0, पटना के नियंत्राधीन 4 (चार) लघु जल विद्युत परियोजनाओं यथा घोबा, कटन्या, मथौली एवं बरबल को पूरा करने हेतु नाबार्ड द्वारा आर0 आई0 डी0 एफ0- XIII के अन्तर्गत नाबार्ड की ऋण की शर्तों के आधार पर रू0 2863.63 लाख ऋण स्वीकृत किया गया है जिसकी प्रशासनिक स्वीकृति पत्रांक 576 दिनांक 26.02.09 के द्वारा दी गई है।

2. इन चार परियोजनाओं को पूरा करने के लिए राज्यादेश सं0-572 दिनांक 26.02.09 द्वारा आर0 आई0 डी0 एफ0 (नाबार्ड) के तहत वित्तीय वर्ष 2008-09 में रू0 2863.63 लाख ऋण की स्वीकृति एवं 784.00 लाख रू0 की निकासी कर उसे बिहार राज्य जल विद्युत निगम को उपलब्ध करा दी गई।
3. वित्तीय वर्ष 2009-10 में नाबार्ड के पत्रांक-971 दिनांक 30.07.09 द्वारा रू0 174.56 लाख विमुक्त किया गया है, जिसे राज्यादेश संख्या-69 दिनांक 12.01.2010 द्वारा बिहार राज्य जल विद्युत निगम को उपलब्ध करा दिया गया है।
4. वित्तीय वर्ष 2009-10 में नाबार्ड के पत्रांक -रा0 वै0, बिहार, एफएडी/2327/45-ए दिनांक 30.12.09 द्वारा रुपये 360.17/-लाख पुनः विमुक्त किया गया है।

अतः नाबार्ड द्वारा विमुक्त 360.17 लाख (तीन करोड़ साठ लाख सतरह हजार) रू0 की स्वीकृति बिहार राज्य जल विद्युत निगम लि0, पटना को निम्नांकित शर्तों के आधार पर दी जाती है:-

ऋण की शर्तें निम्नवत् होगी

- (क) ऋण पुर्नभुगतान एवं सूद का भुगतान 10 (दस) बराबर वार्षिक किस्तों में होगी। इसकी पहली किस्त की अदायगी ऋण निकासी की तिथि से एक वर्ष के बाद प्रारम्भ होगी।
- (ख) इस ऋण पर 13 प्रतिशत की दर से वार्षिक व्याज देय होगा।
- (ग) समय पर भुगतान नहीं करने पर 2.5 प्रतिशत की दर से विलम्ब दण्ड शुल्क देय होगा।
- (घ) वित्तु विभाग के परिपत्र संख्या एफ0-04/98-88-3881/, दिनांक 07.07.1989 के अनुसार पुराने बकाए एवं सूद का 25 प्रतिशत की कटौती बिहार राज्य जल विद्युत निगम की दयनीय स्थिति को देखते हुए नहीं करने की छूट प्रदान की जाती है।



बिहार सरकार  
ऊर्जा विभाग

पत्रांक-प्र2/आर0 आई0 डी0 एफ0 XIII-03/06

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पटना, दिनांक

सेवा में,

महालेखाकार,  
बिहार, पटना।

विषय:- वित्तीय वर्ष 2009-10 में बिहार राज्य जल विद्युत निगम लि0, पटना के नियंत्राधीन 4 (चार) लघु जल विद्युत परियोजनाओं के लिए आर0 आई0 डी0 एफ0- XIII (नाबार्ड) के अन्तर्गत स्वीकृत ऋण रू0 2863.63 लाख (अठारह करोड़ तिरसाठ लाख तिरसठ हजार रू0) के अन्तर्गत रू0 360.17 लाख (तीन करोड़ साठ लाख सतरह हजार) रू0 की स्वीकृति के संबंध में।

महाशय,  
निदेशानुसार उपर्युक्त विषय के संबंध में कहना है कि बिहार राज्य जल विद्युत निगम लि0, पटना के नियंत्राधीन 4 (चार) लघु जल विद्युत परियोजनाओं यथा घोबा, कटन्या, मथौली एवं बरबल को पूरा करने हेतु नाबार्ड द्वारा आर0 आई0 डी0 एफ0- XIII के अन्तर्गत नाबार्ड की ऋण की शर्तों के आधार पर रू0 2863.63 लाख ऋण स्वीकृत किया गया है जिसकी प्रशासनिक स्वीकृति पत्रांक 576 दिनांक 26.02.09 के द्वारा दी गई है।

- इन चार परियोजनाओं को पूरा करने के लिए राज्यादेश सं0-572 दिनांक 26.02.09 द्वारा आर0 आई0 डी0 एफ0 (नाबार्ड) के तहत वित्तीय वर्ष 2008-09 में रू0 2863.63 लाख ऋण की स्वीकृति एवं 784.00 लाख रू0 की निकासी कर उसे बिहार राज्य जल विद्युत निगम को उपलब्ध करा दी गई।
- वित्तीय वर्ष 2009-10 में नाबार्ड के पत्रांक-971 दिनांक 30.07.09 द्वारा रू0 174.56 लाख विमुक्त किया गया है, जिसे राज्यादेश संख्या-69 दिनांक 12.01.2010 द्वारा बिहार राज्य जल विद्युत निगम को उपलब्ध करा दिया गया है।
- वित्तीय वर्ष 2009-10 में नाबार्ड के पत्रांक -रा0 पै0, बिहार, एफएडी/2327/45-ए दिनांक 30.12.09 द्वारा रुपये 360.17/-लाख पुनः विमुक्त किया गया है।

अतः नाबार्ड द्वारा विमुक्त 360.17 लाख (तीन करोड़ साठ लाख सतरह हजार) रू0 की स्वीकृति बिहार-राज्य जल विद्युत निगम लि0, पटना को निम्नांकित शर्तों के आधार पर दी जाती है:-

**ऋण की शर्तें निम्नवत् होगी**

- ऋण पुर्णभुगतान एवं सूद का भुगतान 10 (दस) बराबर वार्षिक किस्तों में होगी। इसकी पहली किस्त की अदायगी ऋण निकासी की तिथि से एक वर्ष के बाद प्रारम्भ होगी।
- इस ऋण पर 13 प्रतिशत की दर से वार्षिक ब्याज देय होगा।
- समय पर भुगतान नहीं करने पर 2.5 प्रतिशत की दर से विलम्ब दण्ड शुल्क देय होगा।
- वित्त विभाग के परिपत्र संख्या एफ0-04/98-88-3881/, दिनांक 07.07.1989 के अनुसार पुराने बकाए एवं सूद का 25 प्रतिशत की कटौती बिहार राज्य जल विद्युत निगम की दयनीय स्थिति को देखते हुए नहीं करने की छूट प्रदान की जाती है।

497

14-3-10

- (5)
5. नावार्ड द्वारा दिए गए आर० आई० डी० एफ०-XIII योजना अन्तर्गत ऋण की भरपाई बिहार राज्य जल विद्युत निगम लि० पटना विद्युत आपूर्ति से प्राप्त राजस्व से करेगा।
  6. उक्त राशि की निकासी बजट मुख्य शीर्ष 6801/- (बिजली परियोजनाओं के लिए ऊर्जा उप मुख्य शीर्ष-00- लघु शीर्ष-201- पन बिजली उत्पादन-समूह शीर्ष- राज्य योजना- उप शीर्ष-0105- बिहार राज्य जल विद्युत निगम को ऋण (नावार्ड)- मांग सं०-10- विपत्र कोड- पी० 6801002010105 विषय शीर्ष 5501 ऋण एवं अग्रिम के अन्तर्गत वित्तीय वर्ष-2009-10 में उपबंधित राशि के अन्तर्गत किया जाएगा।
  7. इस राशि की निकासी मुख्य विद्युत अभियन्ता के सचिव (प्रावैधिक), ऊर्जा विभाग पटना के द्वारा सचिवालय कोषागार, सिंचाई भवन, पटना से कर बैंक ड्राफ्ट/बैंकर्स चेक के माध्यम से बिहार राज्य जल विद्युत निगम लि०, पटना को भुगतान किया जाएगा।
  8. वित्त विभाग के परिपत्र सं०-7355 दिनांक 05.10.07 के अनुसार इसमें प्राधिकार पत्र की आवश्यकता नहीं है।
  9. वित्त विभाग के गै० सं० प्रे० सं० 903 सचिव (संसाधन) दिनांक 15.02.2010 द्वारा संचिका संख्या- प्र२ /आर० आई० डी० एफ०-XIII 09/06 के पृष्ठ 68/टि० पर राज्यादेश पर वित्त विभाग की सहमति प्राप्त है।
  10. बिहार राज्य जल विद्युत निगम को यह निर्देश दिया जाता है कि वे समय पर प्रतिपूर्ति का दावा भेजना सुनिश्चित करेंगे।

बिहार राज्यपाल के आदेश से  
ह०/-

सरकार के उप सचिव,  
ऊर्जा विभाग।  
पटना दिनांक

ज्ञापांक-

प्रतिलिपि:-कोषागार पदाधिकारी, सचिवालय कोषागार, सिंचाई भवन, पटना को सूचनार्थ एवं आवश्यक कार्यार्थ प्रेषित।

ह०/-

सरकार के उप सचिव।

पटना दिनांक 24/2/10

ज्ञापांक- 732

प्रतिलिपि:-प्रबंध निदेशक बिहार राज्य जल विद्युत निगम लि०, सोनभवन, पटना को सूचनार्थ एवं आवश्यक कार्यार्थ प्रेषित।

सरकार के उप सचिव।

24/2/10

660  
25/2/10

प्रबंध निदेशक

जल विद्युत निगम लि०



बिहार सरकार  
ऊर्जा विभाग

पत्रांक-प्र2/ज0 वि0 नि0-05/09

पटना, दिनांक

सेवा में,

महालेखाकार बिहार,  
वीरचन्द पटेल पथ, पटना।

विषय:- वित्तीय वर्ष 2009-10 में बिहार राज्य जल विद्युत निगम लि०, पटना को अररिया जिलान्तर्गत फारबीसगंज प्रखंड के बथनाहा फेज-1 (4X2 मे० वा०) लघु जल विद्युत परियोजना के निर्माण हेतु आर०आई०डी०एफ० XV (नाबार्ड) के अंतर्गत स्वीकृत ऋण रुपये 5649.67 लाख (छप्पन करोड़ उनचास लाख सड़सठ हजार) के विरुद्ध रू० 1129.93 लाख (ग्यारह करोड़ उनतीस लाख तिरानवे हजार रू०) ऋण की स्वीकृति के संबंध में।

आदेश:- स्वीकृत।

महाशय,

निदेशानुसार उपर्युक्त विषय के संबंध में कहना है कि बिहार राज्य जल विद्युत निगम लि०, पटना द्वारा अररिया जिलान्तर्गत फारबीसगंज प्रखंड के बथनाहा फेज-1 लघु जल विद्युत परियोजना के निर्माण हेतु कुल रू० 6937.35 लाख (उनहत्तर करोड़ सैंतीस लाख पैतीस हजार) के योजना की प्रशासनिक स्वीकृति एवं इसके विरुद्ध नाबार्ड द्वारा आर०आई०डी०एफ० XV के अन्तर्गत स्वीकृत ऋण रू० 5649.67 लाख (छप्पन करोड़ उनचास लाख सड़सठ हजार) की स्वीकृति राज्यादेश सं०-1362 दिनांक 27/3/10 के द्वारा प्रदान की गई है।

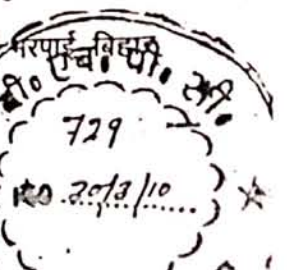
2. वित्तीय वर्ष 2009-10 में नाबार्ड के पत्रांक-रा० बै० बिहार एफ० ए० डी/2276/45-ए दिनांक 23.12.09 के द्वारा रू० 1129.93 लाख ऋण विमुक्त किया गया है।

3. अतः नाबार्ड द्वारा विमुक्त 1129.93 लाख रू० (ग्यारह करोड़ उनतीस लाख तिरानवे हजार) की स्वीकृति बिहार राज्य जल विद्युत निगम लि०, पटना को निम्नांकित शर्तों के आधार पर दी जाती है:-

**ऋण की शर्तें निम्नवत् होगी**

- (क) ऋण पुनर्मुग्तान एवं सूद का भुगतान 10 (दस) बराबर वार्षिक किस्तों में होगी। इसकी पहली किस्त की अदायगी ऋण की निकासी की तिथि से एक वर्ष के बाद प्रारम्भ होगी।
- (ख) इस ऋण पर 13 प्रतिशत की दर से वार्षिक ब्याज देय होगा।
- (ग) समय पर भुगतान नहीं करने पर 2.5 प्रतिशत की दर से विलम्ब दण्ड सूद देय होगा।
- (घ) समय पर भुगतान करने पर ब्याज दर में 1/4 (चौथाई) प्रतिशत की छूट होगी।
- (ङ.) वित्त विभाग के परिपत्र संख्या एफ०-04/98-88-3881 वी (2) दिनांक 07.07.1989 के अनुसार पुराने बकाए एवं सूद का 25 प्रतिशत की कटौती बिहार राज्य जल विद्युत निगम, पटना की वित्तीय स्थिति को देखते हुए नहीं करने की छूट प्रदान की जाती है।

4. नाबार्ड द्वारा दिए गए आर० आई० डी० एफ०- XV योजना अन्तर्गत ऋण की परपूर्ति बिहार राज्य जल विद्युत निगम लि० पटना विद्युत आपूर्ति से प्राप्त राजस्व से करेगा।



5. उक्त राशि की निकासी के मुख्य शीर्ष 6801 बिजली परियोजनाओं के लिए कर्ज उभ मुख्य शीर्ष-00- लघु शीर्ष-201- पन बिजली उत्पादन-समूह शीर्ष- राज्य योजना- उप शीर्ष-0105- बिहार राज्य जल विद्युत निगम को ऋण (नार्ड)- मांग सं०-10- विपत्र कोड- पी० 6801002010105 विषय शीर्ष 5501 ऋण एवं अग्रिम के अन्तर्गत वित्तीय वर्ष-2009-10 में उपबंधित राशि के अन्तर्गत किया जाएगा।
6. इस राशि की निकासी मुख्य विद्युत अभियन्ता के सचिव (प्रादेशिक), ऊर्जा विभाग पटना के द्वारा सचिवालय कोषागार, सिंचाई भवन, पटना से कर इसका भुगतान बैंक ड्राफ्ट/बैंकर्स चेक के माध्यम से बिहार राज्य जल विद्युत निगम लि०, पटना को किया जाएगा।
7. वित्त विभाग के परिपत्र सं०-7355 दिनांक 05.10.07 के अनुसार इसमें प्राधिकार पत्र की आवश्यकता नहीं है।
8. वित्त विभाग के डायरी संख्या 1266/सचिव (व्यय) दिनांक 26.03.2010 द्वारा संधिका संख्या-22/ज०वि०नि०-05/09 के पृष्ठ-26/20 पर राज्यादेश पर वित्त विभाग की सहमति प्राप्त है।
9. बिहार राज्य जल विद्युत निगम समय पर प्रतिपूर्ति का दावा भेजना सुनिश्चित करेगा।

बिहार राज्यपाल के आदेश से

H0/-

सरकार के संयुक्त सचिव,

ऊर्जा विभाग।

पटना दिनांक

ज्ञापांक-

प्रतिलिपि:-कोषागार पदाधिकारी, सचिवालय कोषागार, सिंचाई भवन, पटना को सूचनाार्थ एवं आवश्यक कार्यार्थ प्रेषित।

H0/-

सरकार के संयुक्त सचिव।

पटना दिनांक 22/3/10

ज्ञापांक-1364

प्रतिलिपि:-प्रबंध निदेशक, बिहार राज्य जल विद्युत निगम लि०, सोनभवन, पटना को सूचनाार्थ एवं आवश्यक कार्यार्थ प्रेषित।

सरकार के संयुक्त सचिव।





Bihar State Hydroelectric Power Corporation Ltd.  
Sone Bhawan, 2nd floor, B.C.P.Marg, Patna  
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Details of Bihar Govt. Loan

Sl.No.	Year	Bihar Govt Loan (INR Lakhs)
1	1982-83	-
2	1983-84	200.00
3	1984-85	250.00
4	1985-86	500.00
5	1986-87	1,200.00
6	1987-88	795.00
7	1988-89	-
8	1989-90	1,050.00
9	1990-91	1,890.00
10	1991-92	814.00
11	1992-93	60.00
12	1993-94	338.00
13	1994-95	-
14	1995-96	247.00
15	1996-97	-
16	1997-98	450.00
17	1998-99	1,000.00
18	1999-00	500.00
19	2000-01	-
20	2001-02	-
21	2002-03	500.00
22	2003-04	-
23	2004-05	-
24	2005-06	845.24
25	2006-07	5,059.60
26	2007-08	-
27	2008-09	150.72
28	2009-10	1,787.68
	Total Rs.	17,637.24

पु. संख्या-20-183-31/83- 11

प्रेम, बी जगत मन्दन प्रसाद,  
सावर है निम्नलिखित संकेत ।

मेरा मैं, महासेवाकार, बिहार  
राष्ट्री ।

द्वारा- विस्तार विभाग ।

विस्तार- वित्तीय वर्ष 1983-84 में बिहार स्टेट वाइडियोफोनिक पावर  
कारपोरेशन लि०, पटना को उस विस्तृत परियोजनाओं के  
कार्यान्वयन हेतु 2.00 करोड़ रुपये दो करोड़ रुपए की स्वीकृति

महोदय, निम्नानुसार उपर्युक्त विस्तृत प्रस्ताव में भूले सुविधा करना है कि  
राज्य सरकार ने उस विस्तृत परियोजनाओं के कार्यान्वयन हेतु बिहार  
स्टेट वाइडियोफोनिक पावर कारपोरेशन लि०, पटना को वित्तीय वर्ष  
1983-84 के लिए 2.00 करोड़ रुपये दो करोड़ रुपये की स्वीकृति  
प्रदान की है ।

2- यह रूप राज्य सरकार द्वारा वसूळ प्राप्त वित्तीय वर्ष 1983-84  
के बजट में 734-विश्वी परियोजनाओं के लिए की- योजना- विस्तृत  
परियोजनाओं को की- अन्य क्षेत्रीय परियोजना- बिहार राज्य के विस्तृत विभाग  
को रूप स्वीकृति में विस्तृत किया जाएगा ।

3- यह रूप बिहार स्टेट वाइडियोफोनिक पावर कारपोरेशन लि०,  
पटना के मेरा मैं उत्तर बाकल द्वारा 847-स्थानीय निधियों की जमा-  
बिहार स्टेट वाइडियोफोनिक पावर कारपोरेशन लि०, पटना के कार्य  
नाम निधि/प्रतिष्ठापना स्वीकृति में आवंटित किया जाएगा ।

4- बिहार स्टेट वाइडियोफोनिक पावर कारपोरेशन लि०, पटना  
को दिए जाने वाले इस रूप के लिए निम्नलिखित स्वीकृति निर्धारित की जाती  
है ।

[क] इस रूप पर पांच वर्षों का स्थापन काम होगा ।

[ख] छठे वर्ष से पन्द्रहवें वर्ष तक आवंटन [प्रति] की तिथि से 10% तक [प्रति]  
बराबर वार्षिक निधि में प्रतिवर्षी सुधार का भुगतान होगा ।

[ग] मुद्र की दर प्रतिवर्षी/प्रतिवर्षी होगी । समय पर भुगतान होने पर  
1/4 प्रतिशत मुद्र में मुद्र तथा समय पर भुगतान नहीं होने पर 2 1/2 प्रति  
शत टेंड मुद्र देना होगा ।

[घ] मुद्र की वापसी पर स्थापन काम नहीं होगा ।

[ङ] मुद्र का भुगतान राशि बाकल की तिथि से एक वर्ष बाद प्रारंभ  
होगा ।

[च] इस रूप का उपयोग केवल ज-विस्तृत परियोजनाओं के कार्यान्वयन में  
की किया जाएगा ।

[छ] भारतीय जीवन एवं सेवा विभाग को यह अधिभार होगा कि वे  
इन संस्थाओं का अधिभार करें ।

आगत संख्या सं-2663 प्रो. 18-3-83 कृपया उत्तरें---



॥ ज ॥ राज्य की संचित निधि से स्वीकृत किए गए इस शुण का लेखा ॥  
संबंधित संस्थानों द्वारा विन्युक्त अलग रखा जाएगा

5- निगम अपने बोर्ड की अनुमति प्राप्त कर सामग्रियों एवं मशीनों  
का क्रय आवश्यकतानुसार कर सकता है, परन्तु भवन-निर्माण का कार्य स्वी  
स्थगित रहेगा ।

6- इस राशि की निकासी अध्यक्ष-सह-प्रबन्ध निदेशक, बिहार  
स्टेट हाइड्रो-इलेक्ट्रिक पावर कारपोरेशन लि०, पटना करेंगे। अतः  
प्राधिकार पत्र इनके नाम निर्गत करने की कृपा करें ।

विश्वासभाजन .

ह०/-

॥ जगत नन्दन प्रसाद ॥  
सरकार के संयुक्त सचिव,  
उर्जा विभाग ।

ज्ञापक-

११६१ पटना, दिनांक १५ मार्च ८४

प्रतिलिपि अध्यक्ष-सह-प्रबन्ध निदेशक, बिहार स्टेट हाइड्रो-  
इलेक्ट्रिक पावर कारपोरेशन लि०, पटना/ वित्त विभाग ॥ अर्थोपाय शाखा/  
शुण शाखा/राजस्व शाखा ॥/ कंजट शाखा, उर्जा विभाग को सूचनार्थ  
एवं आवश्यक कार्रवाई हेतु अगुसारित ।

१००४११०८

१५.३.८४.

॥ जगत नन्दन प्रसाद ॥  
सरकार के संयुक्त सचिव,  
उर्जा विभाग ।

पे. ४४७.

श्री जगत मन्दन प्रसाद,  
सरकार के तंत्रिक सचिव ।

विषय में,

महादेवाबाद, बिहार,  
राज्य ।

1. द्वारा-प्रवित्त विभाग ।

विषय:-

वित्तीय वर्ष 1984-85 में बिहार स्टेड लाईओलोजिकल पावर  
ऑरिगेन लि०, पटना को जल विद्युत परियोजनाओं के कार्यान्वयन  
के लिये 2.50 करोड़ रुपये की वार्षिक पंचास लाख रुपये की  
स्वीकृति ।

संदर्भ:-

जिसे बिहार स्टेड लाईओलोजिकल पावर ऑरिगेन लि०, पटना को वित्तीय वर्ष 1984-85 के लिये 2.50 करोड़ रुपये की वार्षिक पंचास लाख रुपये की स्वीकृति प्रदान की है ।

2. यह कि राज्य सरकार द्वारा वार्षिक वित्तीय वर्ष 1984-85 के लिये  
में "734-स्थानीय परियोजनाओं के लिये वित्त-सहायता-विद्युत वित्तों के लिये अन्य  
विषय-वस्तु-विद्युत राज्य की विद्युत विभाग को जल विद्युत में निवेश  
करा जायगा ।

3. यह कि बिहार स्टेड लाईओलोजिकल पावर ऑरिगेन लि०, पटना  
के लिये अन्तर आवास द्वारा "847-स्थानीय परियोजनाओं की जल-विद्युत स्टेड  
लाईओलोजिकल पावर ऑरिगेन लि०, पटना के लिये वार्षिक वित्त-सहायता-विद्युत  
विभाग में निवेश किया जायगा ।

4. बिहार स्टेड लाईओलोजिकल पावर ऑरिगेन लि०, पटना को  
जल विद्युत के लिये निवेश-वित्तों के लिये वित्त-सहायता-विद्युत को जल वित्त :-

जल वित्त पर वार्षिक वित्तों का व्ययन किया जायगा ।

5. जल वित्तों के लिये वित्तों का व्ययन के लिये वित्तों के लिये 10 लाख  
बराबर वार्षिक वित्तों में वित्त-सहायता-विद्युत का भुगतान होगा ।

6. जल वित्तों पर 7 प्रतिशत वार्षिक वित्तों । जल वित्तों पर भुगतान वित्तों के लिये  
पर 1/4 प्रतिशत वित्तों में वित्त-सहायता-विद्युत का भुगतान वित्तों के लिये पर 2 1/2  
प्रतिशत वित्तों में वित्त-सहायता-विद्युत का भुगतान होगा ।

7. जल वित्तों पर वित्त-सहायता-विद्युत का भुगतान होगा ।

8. जल वित्तों पर वित्त-सहायता-विद्युत का भुगतान होगा ।

9. जल वित्तों पर वित्त-सहायता-विद्युत का भुगतान होगा ।

.....2/...



151

मास्ताय जगज्जन्म-संस्थाओं का अंकिष्ठा करें ।

1ज।

राज्य की संचित निधि से स्वीकृत किये गये इस ~~सं~~ श्रम का लेखा संबंधित संस्थानों द्वारा विलुक्त अलग रखा जायगा ।

5.

निगम इस राशि का व्यय योजना मद में ही करेगा ।

6.

इस राशि की विकास अर्थ-सह-प्रबन्ध निदेशक, बिहार स्टेट हाईड्रोइलेक्ट्रिक पावर कॉर्पोरेशन लि०, पटना करेंगे । अतः प्राधिकार पत्र इनके नाम निर्गत करने की कृपा करें ।

विशवासभाजन,

30/-

जगत नन्दन प्रसाद

सरकार के संयुक्त सचिव, उर्जा विभाग ।

लाभ संख्या-

906 ✓ पञ्जा-15, पञ्जा-92 मार्च, 1935.

प्रधानमंत्री, प्रधान-सह-प्रबन्ध निदेशक, बिहार स्टेट हाईड्रोइलेक्ट्रिक पावर कॉर्पोरेशन लि०, पटना/ श्री जगज्जन्म-संस्था/ पञ्जा-संस्था/ अर्थ-सह-प्रबन्ध निदेशक/ राजस्व-प्रबन्ध/ पञ्जा-संस्था, उर्जा विभाग, जो लूणनाव एवं आरक्षक कार्यवाही हेतु अत्राहित ।

जगत नन्दन प्रसाद  
सरकार के संयुक्त सचिव, उर्जा विभाग ।

संख्या-52-30-01/05-

दिनांक

विभाग,

महासंचालक, पिछड़ा,

राज्य।

प्रमाण:-

पिछड़ा विभाग।

विषय:-

पिछड़ों वर्ष 1985-86 में पिछड़ा राज्य के जल संचयन  
कार्यक्रम में 10, पटना को राजकीय शेष के रूप में 50 पाई  
करों से संचयन को संचयन।

मनोरम,

पिछड़ा राज्य में संचयन करना है 14 राज्य सरकार में  
पिछड़ा राज्य का पिछड़ा में 14 राज्य में 10, पटना को 10 राज्य वर्ष  
1985-86 में राजकीय शेष के रूप में 50 पाई करों से संचयन को संचयन  
प्रदान को है।

2- यह राज्य सरकार के द्वारा 1985-86

पिछड़ों वर्ष में 14-15 राज्य को संचयन में पिछड़ा राज्य-  
पिछड़ा वर्षों को 14-15 राज्य को संचयन में पिछड़ा राज्य-  
पिछड़ा को 14-15 राज्य में पिछड़ा राज्य में पिछड़ा राज्य में

3- यह राज्य के पिछड़ा राज्य में पिछड़ा राज्य को

मनोरम :-

1- यह राज्य में पिछड़ा राज्य को संचयन का संचयन होगा।

2- यह राज्य में पिछड़ा राज्य को संचयन का संचयन होगा।

3- यह राज्य में पिछड़ा राज्य को संचयन का संचयन होगा।

4- यह राज्य में पिछड़ा राज्य को संचयन का संचयन होगा।

5- यह राज्य में पिछड़ा राज्य को संचयन का संचयन होगा।

6- यह राज्य में पिछड़ा राज्य को संचयन का संचयन होगा।

7- यह राज्य में पिछड़ा राज्य को संचयन का संचयन होगा।

8- यह राज्य में पिछड़ा राज्य को संचयन का संचयन होगा।

9- यह राज्य में पिछड़ा राज्य को संचयन का संचयन होगा।

10- यह राज्य में पिछड़ा राज्य को संचयन का संचयन होगा।

11- यह राज्य में पिछड़ा राज्य को संचयन का संचयन होगा।

12- यह राज्य में पिछड़ा राज्य को संचयन का संचयन होगा।

500

यह सरकार ने शायद 10 65 लाख  
को राजी पर 10 65 लाख  
को कुल 96...



18 नवंबर, 15  
प्रतिमिपि जल-सह-प्रबंधन, बिहार राज्य जल  
संयोजन निगम लि. पटना/ योजना विभाग/ विस्तार विभाग, धर्मोपाय 1,  
कृष्ण शाखा एवं राजस्व शाखा/ वज्र शाखा एवं ऊर्जा विभाग के माध्यम से  
को सुवनाथ एवं आवश्यक कार्रवाई हेतु प्रमाणित ।

॥ जोगेंद्र प्रसाद ॥  
संयोजन के समुदाय सचिव ।

पत्रांक 093-जपि-01/85 - 3976 दिनांक 26-8-86

71-

श्री डी०पी०महेश्वरी,  
सरकार के सचिव।

सेवा में,

मालेगाकर, विहार,  
रांची,

द्वारा :- वित्त विभाग।

पत्रांक ल  
मिति।

विषय:- वित्तीय वर्ष 1986-87 में विहार राज्य जल विद्युत निगम लि०, पटना विहार स्टेट हाइड्रोइलेक्ट्रिक पावर कारपोरेशन लि०, पटना की श्रृंखला के रूप में 12 करोड़ रुपये की स्वीकृति।

महोदय,

निदेशानुसार मुझे कहना है कि राज्य सरकार ने बिहार राज्य जल विद्युत निगम लि०, पटना की वित्तीय वर्ष 1986-87 में राजकीय श्रृंखला के रूप में 12 करोड़ रुपये की स्वीकृति प्रदान की है।

2-यह राशि राज्य सरकार द्वारा 1986-87 वित्तीय वर्ष में 734 विजली परियोजनाओं के लिए कर्ज-योजना विद्युत पर्याप्तों की कर्ज अन्य क्षेत्रों में उपयोग-विहार राज्य जल विद्युत निगम की श्रृंखला में विकसित किया जायगा।

3-विहार राज्य जल विद्युत निगम को दिये जानेवाले इस श्रृंखला के निम्ने तत्काल निम्नलिखित शर्तें निर्धारित की गयी हैं:-

1-इस श्रृंखला पर पांच वर्षों का स्थागन काल होगा,  
2-इस वर्ष से पन्द्रह वें वर्ष तक आकलन के तहत तिथि से 10 बराबर वार्षिक किस्त में प्रतिवर्ष भुगतान का भुगतान होगा,

3-सूद की दर 13% लेख प्रस्तावित प्रतिवर्ष होगी।

समय पर भुगतान होने पर  $\frac{1}{4}$  सूद में छूट तथा समय पर भुगतान नहीं होने पर  $2\frac{1}{2}$  सूद देना होगा। सूद की दर में परिवर्तन भी किया जा सकता है।

4-सूद की वापसी पर स्थागन काल नहीं होगा,

5-सूद या भुगतान राशि आकलन की तिथि से एक वर्ष बाद प्रारम्भ से हो किया जायगा,

14/10/86  
26-8-86  
महोदय के

को-के  
25-6-88

(को)

12/12/86  
श्री



होगा कि वे इन संस्थानों का प्रभुत्व  
 ४. राज्य को संघीय निधि में स्वीकृत पैसे इसे इस धृष्टि का  
 लेखा संविधान संस्थानों द्वारा वित्तुन अलग रखा जायेगा।

4-राष्ट्र का विमोचन चार प्रेममिलन किस्मों में विभक्त  
 विभाग के परामर्श से किया जायेगा। प्रथम-दो विभागों के 294.5 लाख  
 रुपये पहले एकमुश्त वित्तुन किया जाय। इसके बाद राष्ट्र का विमोचन  
 ५. १९६६ ई. तक से संविधान के अन्तर्गत राष्ट्र के राष्ट्रपति पर किया जायेगा।

5-यह राष्ट्र को गिकारो अध्यक्षता-प्रवक्ता निदेशक,  
 बिहार राज्य जल विद्युत निगम लि०, बनना बने।  
 अनुरोध है कि बिहार स्टेट हाइड्रोइलेक्ट्रिक पावर कॉन्फेरेन्स  
 लि०, बनना बिहार राज्य जल विद्युत निगम लि०, बनना के 294.5 लाख  
 रुपये का प्राधिकार पर स्टेट बैंक ऑफ इण्डिया सचिवालय, बनना के माध्यम  
 से भुगतान हेतु वित्तुन निर्गत किया जाये।

विचारभाजन,

रूप।-

॥डॉ०पी०महेश्वरी॥

सरकार के सचिव।

नापसंख्या ०

३६६

दिनांक २६/५/६६

प्रतिनिधि अध्यक्षता-प्रवक्ता निदेशक, बिहार राज्य जल  
 विद्युत निगम लि०, बनना/योजना विभाग, बिहार/विद्युत विभाग,  
 अर्थोपाय शाखा/धृष्टि शाखा/राजस्व शाखा/वज्र शाखा एवं  
 उर्जा विभाग के वज्र शाखा को सूचना एवं आवश्यक कार्यवाई हेतु  
 अग्रसारित।

२०६२/२०६३

॥डॉ०पी०महेश्वरी॥

सरकार के सचिव।

२०६२/२०६३

३६

राष्ट्र विभाग  
 अध्यक्षता-प्रवक्ता  
 नारायण जल  
 विमोचन

३६

३६

विद्युत की जा  
 भाग को बाले  
 भागों को विमो

विचारभाजन,

३०/-

कार के नोकर।

मार्च, १९६६

नारायण जल

२०६२/२०६३

॥डॉ०पी०महेश्वरी॥

सरकार के सचिव।

२०६२/२०६३

उच्च विभाग

पत्र संख्या

पटना, दिनांक

सेवा में,

महोदय, विहार,  
पी० - बि०, राँची ।

विषय:

वित्तीय वर्ष 1989-90 में विहार राज्य जल विद्युत निगम लि०, पटना (विहार स्टेट वाटरोइलेक्ट्रिक पावर कारपोरेशन लि०, पटना) के चार योजनाओं के कार्यन्वयन हेतु अर्ध के रूप में 1050 लाख रुपये (दस सौ पचास लाख रुपये) की स्वीकृति स्वीकृति ।

महोदय,

निदेशानुसार उपर्युक्त विवरण मुझे संपुष्टित करना है कि राज्य सरकार के निर्माण द्वारा वित्तीय वर्ष 1989-90 के अन्तर्गत विहार राज्य जल विद्युत निगम लि०, पटना (विहार स्टेट वाटरोइलेक्ट्रिक पावर कारपोरेशन लि०, पटना) को अर्ध के रूप में 1050 लाख रु (दस सौ पचास लाख रुपये) के लिए नि० की संकल्प संख्या-2090 दिनांक 16/5/89 के अन्तर्गत में अन्तर्गत विवरण तब तक नै स्वीकृति प्रदान की है ।

2- यह राशि राज्य सरकार द्वारा वित्तीय वर्ष 1989-90 में 6901- विद्युत परियोजनाओं के लिए उधार योजना विहार राज्य जल विद्युत को अर्ध शर्त के अन्तर्गत प्रदान किया जायेगा ।

3- विहार राज्य जल विद्युत निगम लि० को दिये जानेवाले रकम के लिए निम्नलिखित शर्तें निर्धारित रहेंगी:-

- (क) इस अर्ध पर पांच वर्षों का अग्रिम जमा होगा;
- (ख) छठे वर्ष से पन्द्रहवें वर्ष तक अग्रिम (ड्रेडिट) की विधि से 10 वार्षिक या वार्षिक वित्त में प्रत्येक वर्ष अर्ध का भुगतान होगा,
- (ग) रुद को दर 13.5% (तेरह पाँच प्रतिशत) प्रति वर्ष होगी समय पर भुगतान होने पर 1/4% (कोचर) प्रतिशत रुद में रुद का समय पर भुगतान नहीं होने पर 2 1/2% (दोई प्रतिशत) रुद देना होगा,
- (घ) रुद की वापसी पर स्वयं जमा नहीं होगा;
- (ङ) रुद का भुगतान राशि अग्रिम की विधि से एक वर्ष बाद प्रारम्भ में हो लिया जायेगा,

(कू० ३०२ - )



संस्थान का अधिनियम १९६८

(६) राज्य की संघीय विधि के अन्तर्गत विधि की वह जो कि देश संबंधित संस्थान का अधिनियम-१९६८, द्वारा विद्यमान अधिनियम तथा अधिनियम ,

- 4- इस विधि का विद्यमान निम्न प्रकार का अधिनियम :-
- |                |   |            |
|----------------|---|------------|
| प्रथम विधायक   | - | ३० प्रतिशत |
| द्वितीय विधायक | - | १५ प्रतिशत |
| तृतीय विधायक   | - | ३० प्रतिशत |
| चतुर्थ विधायक  | - | २५ प्रतिशत |

5- इस विधि की संस्था में निर्धारित तरीका , बिहार स्टेट हाइकोर्ट के पास आयोग के ३०, पटना द्वारा की जायेगी ।

6- अतः अनुचित है कि उस निर्धारित विधियों के अनुसार न ही की विधि के प्रमाण पर निर्धारित तरीका , बिहार स्टेट हाइकोर्ट के पास आयोग के ३० , पटना के नाम स्टेट बैंक ऑफ इण्डिया , संस्थान राजधानी में , पटना की भुगतान के लिए निर्धारित करने की कृपा करें ।

विद्यमान अधिनियम

३०/-

( संयम विधायक )

उत्तर के अन्तर्गत, उच्च विभाग, बिहार ।

अध्यक्ष

*[Signature]*

पटना, दिनांक ३२/४/६८

प्रतिपक्ष अधिनियम , बिहार राज्य के विद्यमान अधिनियम ३३०, पटना/प्रथम निर्धारित बिहार राज्य के विद्यमान अधिनियम ३३०/६८ के अन्तर्गत निर्धारित तरीका , बिहार स्टेट हाइकोर्ट के पास आयोग के ३० , पटना के नाम स्टेट बैंक ऑफ इण्डिया , संस्थान राजधानी में , पटना की भुगतान के लिए निर्धारित करने की कृपा करें ।

*[Signature]*

( संयम विधायक )

उत्तर के अन्तर्गत, उच्च विभाग, बिहार ।

( ३२/४/६८ ) ( ३३० )

संख्या प्र३-ब०नि०-०१/८५-

दिनांक,

प्रेषक

श्री आर० सी० वैश्य,  
सरकार के सचिव, उर्जा।

सेवा में,

राष्ट्रिय स्थापना  
मंत्रालय।

महालेखाकार, बिहार  
सी० आर० विन्नु, रांची।

उपारा :- वित्त विभाग।

विषय:- वित्तीय वर्ष १९९०-९१ के अन्तर्गत बिहार राज्य जल विद्युत निगम लि० पटना। बिहार स्टेट हाईड्रोइलेक्ट्रिक पावर कारपोरेशन लिमिटेड, पटना। के अधीन उत्तर कोष का दो जल विद्युत परियोजना मंडल तथा चाँडिल डैम जल विद्युत परियोजना के कार्यान्वयन हेतु १०९० लाख रुपये ऋण की स्वीकृति।

महाराज,

निदेशानुसार उपर्युक्त विषय के संदर्भ में मुझे संवृत्त करना है कि राज्य सरकार द्वारा वित्तीय वर्ष १९९०-९१ में बिहार राज्य जल विद्युत निगम लिमिटेड, पटना। बिहार स्टेट हाईड्रोइलेक्ट्रिक पावर कारपोरेशन लिमिटेड, पटना के अन्तर्गत उत्तर कोष का दो जल विद्युत परियोजना तथा चाँडिल डैम जल विद्युत परियोजना के कार्यान्वयन के लिए ऋण राशि रु० ३६० लाख एवं ७३० लाख स्वयं या निरुल १०९० लाख। इस करोड़ रुपये लाख रुपये की स्वीकृति प्रदान की गयी है। खजाने प्रावधान के अनुसार बिहार राज्य जल विद्युत निगम के लिए ३३.९१ लाख रुपये की राशि उपलब्ध है। वर्ष १९९०-९१ के लिए स्वीकृत उद्घरण कर्जा योजनाओं के लिए २३९० लाख रुपये है। स्वीकृत उद्घरण के विस्था १३०० लाख स्वयं निगम को उपलब्ध कराये जा चुके हैं।

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2-

इस ऋण की शर्तें निम्न प्रकार निर्धारित की हैं :-

- 1क। इस ऋण पर पांच बर्षों का स्थागन काल होगा,
- 1ख। पहले बर्ष से पन्द्रह बर्ष तक आकलन की तिथि से दस बराबर आर्थिक किस्तों में प्रति बर्ष मूलधन का भुगतान होगा,
- 1ग। मूद की दर 13 प्रतिशत। तेरह प्रतिशत। प्रतिशत बर्ष होगा। समय-समय पर भुगतान होने पर एक चौथाई प्रतिशत मूद में मूद तथा समय पर भुगतान नहीं होने पर दस प्रतिशत दंड मूद देना होगा,
- 1घ। मूद की वापस पर स्थागन काल नहीं होगा,
- 1ङ। मूद का भुगतान राशि आकलन की तिथि से एक बर्ष बाद प्रारम्भ में ही किया जायेगा,



- 14। भारतीय ऊर्ध्वराज्य एवं वित्त ऊर्ध्वराज्य निगम को यह अधिकार होगा  
के बिहार राज्य जन विद्युत निगम लिमिटेड, पटना का ऊर्ध्वराज्य करे,
- 15। राज्य का संघित निधि के स्थापित किये गये इस कर्ण का लेखा लॉन्गित  
संस्थान द्वारा बिलकुल अलग रखा जायेगा ।
- 3- इस कर्ण की विमुक्ति कल गार्न - 6801 - विद्युत परियोजनाओं के लि  
उधार योजना - अन्य क्षेत्रीय उप- योजना - 201- जन विद्युत उत्पादन- बिहार राज  
जन विद्युत निगम लिमिटेड को कर्ण के अन्तर्गत दिखनीय होगा ।
- 4- उक्त राशि तिथित डिपोजिट में रखी जायेगी ।
- 5- वित्त विभाग के परिपत्र सं - 3881 दि 7-7-89 के आलोक में उक्त राशि  
के 25 % प्रतिगत की कटौती सिद्धित करने का निर्णय लिया गया है ।
- 6- अतः राशि की निशस्ती हेतु प्राधिकार - पत्र प्रबंध निदेशक, बिहार राज  
जन विद्युत निगम लिमिटेड, पटना । मेनिजिंग डायरेक्टर, बिहार स्टेट हाईड्रोइलेक्ट्रिक  
पावर कारपोरेशन लिमिटेड, पटना । के सचिवलय कोषागार, पटना के माध्यम से  
नाम निर्गत करने का कल है ।

विशालभाजन,

हो/-

। आर 0 सी 0 देगा,

सरकार के सचिव, उर्जा ।

गप सं 339/3040 दिनांक 30-3-89

प्रतिलिपि योजना विभाग, बिहार, पटना/ वित्त विभाग, बिहार,  
पटना/ कोषागार पदाधिकारी, सचिवलय कोषागार, पटना/ प्रबंध निदेशक,  
बिहार राज्य जन विद्युत निगम, पटना ।

30-3-89

। आर 0 सी 0 देगा, 30/3

सरकार के सचिव, उर्जा ।

30/3/89

संख्या प्र 3/ज0नि0-01/82

पटना, दिनांक

सेवा में,

महलेखाकार बिहार,  
पत्रा0- हिनु, राँची।

विषय:

वित्तीय वर्ष 1990-91 के अन्तर्गत बिहार राज्य  
जल विद्युत निगम लि0, पटना (बिहार स्टेट हाइड्रो-  
इलेक्ट्रिक पावर कारपोरेशन लि0, पटना) को  
3,00,00,000/-रु (तीन करोड़ रुपये) रूप की  
स्वीकृति।

महाराय,

निदेशानुसार उपर्युक्त विषयक आप के पत्रांक 1-600।

(90-91)-590 दिनांक 23/1/91 के प्रसंग में भुक्ति संवृत्त करना है।  
कि विभागीय पत्रांक 25 दिनांक 4/1/91 द्वारा बिहार राज्य जल  
विद्युत निगम लि0, पटना (बिहार स्टेट हाइड्रोइलेक्ट्रिक पावर कारपोरेशन  
लि0, पटना) को वित्तीय वर्ष 1990-91 के अन्तर्गत रूप के रूप में तीन  
करोड़ रुपये की स्वीकृति इस शर्त पर प्रदान की गयी थी कि राज्य  
सरकार के निर्णयानुसार वित्त विभाग के पत्रांक 2890 दि0 16/5/89  
को शिथिल करते हुए 25 प्रतिशत (पचीस प्रतिशत) की कटौती इस रूप  
से नहीं की जायेगी। ...

आपसे उक्त पत्र में उठाये गये बिन्दु के आलोक में  
यह उल्लेखनीय है कि वित्त विभाग के पत्र संख्या 2890 दिनांक  
16/5/89 में ही सिद्धन्त रूप से 25 प्रतिशत कटौती का निर्णय  
लिया गया था, जिसको वित्त विभाग के पत्र संख्या 3881 दिनांक  
7/7/89 द्वारा स्पष्ट आदेश के रूप में वेप (Waive) किया गया।  
इसमें किसी आपत्ति का प्रश्न नहीं उठना चाहिये।

अतः अनुरोध है कि कृपया 3,00,00,000/-रु  
(तीन करोड़ रुपये) रूप की राशि के भुगतान हेतु प्राधिकार-पत्र  
मैनजिंग डायरेक्टर, बिहार स्टेट हाइड्रोइलेक्ट्रिक पावर कारपोरेशन लि0,  
पटना के नाम अविलम्ब निर्गत करने की कृपा करें। यह राशि सचिवालय  
कोबागार, पटना के माध्यम से निकासी की जायगी।

विश्वासभाजन,

सरकार के विद्युत सचिव



MAJ 1941

11211

नाम: सुभा

362

पटना, दिनांक

प्रतिलिपि प्रबन्ध निराक; बिहार राज्य जल विभाग  
लि०, पटना को उनके पत्र दिनांक 28/1/91 के प्रसंग में सुभा एवं  
आवश्यक कार्रवाई हेतु उल्लेखित ।

डी. ए. २२५१

(सप्त० सप्त० दवे)

सुभा के लिए सचिव, उर्बा।

पुनर्प्रेषित लिखित

पुनर्प्रेषित लिखित 1257 दिनांक 19.4.89



प्रेषक

श्री आर० सी० वैश्य,  
सरकार के सचिव, उर्जा।

सेवा में,

व्यक्तिगत रूप से  
परिचित।

महासंचालक, बिहार  
सी० जी० विन्नु, रांची।

उपारा :- वित्त विभाग।

विषय:- वित्तीय वर्ष १९९०-९१ के अन्तर्गत बिहार राज्य जल विद्युत निगम लि०  
पटना। बिहार स्टेट हाईड्रोइलेक्ट्रिक पावर कारपोरेशन लिमिटेड, पटना।  
के अन्तर्गत उत्तर कोष कारो जल विद्युत परियोजना तथा गाँडिल डैम जल विद्युत परियोजना के कार्यान्वयन हेतु १०९० लाख रुपये  
भुगतान की स्वीकृति।

महाराज,

निदेशानुसार उपर्युक्त विषय के संदर्भ में मुझे संतुष्ट करना है कि  
राज्य सरकार द्वारा वित्तीय वर्ष १९९०-९१ में बिहार राज्य जल विद्युत निगम  
लिमिटेड, पटना। बिहार स्टेट हाईड्रोइलेक्ट्रिक पावर कारपोरेशन लिमिटेड, पटना  
के अन्तर्गत उत्तर कोष कारो जल विद्युत परियोजना तथा गाँडिल डैम जल विद्युत  
परियोजना के कार्यान्वयन के लिए क्रमशः रु० ३६० लाख एवं ७३० लाख रुपये या नि  
कुल १०९० लाख। दस करोड़ रुपये लाख रुपये की स्वीकृति प्रदान की गयी है। अब  
प्रावधान के अनुसार बिहार राज्य जल विद्युत निगम के लिए ३३.९१ लाख रुपये की  
राशि उपलब्ध है। वर्ष १९९०-९१ के लिए स्वीकृत उद्घरण कर्णांकित योजनाओं के  
लिए २३९० लाख रुपये हैं। स्वीकृत उद्घरण है बिस्वा १३०० लाख रुपये निगम को  
उपलब्ध कराये जा चुके हैं।

२- इस शर्त की शर्तें निम्न प्रकार निर्धारित की हैं :-

- १क। इस शर्त पर पांच वर्षों का स्थागन काल होगा,
- १ख। पहले वर्ष से पन्द्रह वर्ष तक आर्जलन की तिथि से दस बराबर आर्जलन  
कित्तों में प्रति वर्ष मूलधन का भुगतान होगा,
- १ग। मूद की दर १३ प्रतिशत। तेरह प्रतिशत। प्रति० वर्ष होगा। समय- समय  
पर भुगतान होने पर रु० बाँधार्डे प्रतिशत मूद में मूद तथा समय पर  
भुगतान नहीं होने पर द्वादश प्रतिशत दंड मूद देना होगा,
- १घ। मूद की वापस पर स्थागन काल नहीं होगा,
- १ङ। मूद का भुगतान राशि आर्जलन की तिथि से एक वर्ष बाद प्रारम्भ  
में ही किया जायगा,



Recd  
Rm

- 14। भारतीय अकेला एवं वित्त अकेला निगम को यह अधिकार होगा  
वे बिहार राज्य जल विद्युत निगम लिमिटेड, पटना का अकेला करे,  
15। राज्य का संघित निधि से स्थापित किये गये इस कृषि का लेखा संघित  
संस्थान द्वारा बिच्छुत अलग रखा जायेगा ।

3- इस कृषि की विमुक्ति कष्ट शीर्ष - 6801 - विद्युत परिवर्तनाओं के लिए  
उधार योजना - अन्य क्षेत्रीय उप- योजना - 201 - जल विद्युत उत्पादन- बिहार राज्य  
जल विद्युत निगम लिमिटेड को कृषि के अन्तर्गत दिखनीय होगा ।

4- उक्त राशि सिविल डिपोजिट में रखी जायेगी ।

5- वित्त विभाग के परिपत्र सं० - 3881 दि० 7-7-89 के आलोक में उक्त राशि  
से 25 % प्रतिशत की कटौती सिद्धिल करने का निर्णय लिया गया है ।

6- अतः राशि की निशान्ति हेतु प्राधिकार - पत्र प्रबंध निदेशक, बिहार राज्य  
जल विद्युत निगम लिमिटेड, पटना । मैनिजिंग डायरेक्टर, बिहार स्टेट हाइड्रोइलेक्ट्रिक  
पावर कॉर्पोरेशन लिमिटेड, पटना । के सचिवालय कोषागार, पटना के माध्यम से  
नाम निर्णय करने का कष्ट करें ।

विशाल-गजन,

EO/-

। आर० सी० बेग्या,  
सरकार के सचिव, उर्जा ।

नाम सं० 339/3021 दिनांक, 30-3-89

प्रतिलिपि योजना विभाग, बिहार, पटना/ वित्त विभाग, बिहार,  
पटना/ कोषागार पदाधिकारी, सचिवालय कोषागार, पटना/ प्रबंध निदेशक,  
बिहार राज्य जल विद्युत निगम, पटना ।

30.3.89  
। आर० सी० बेग्या, 30/3  
सरकार के सचिव, उर्जा ।  
30/3/89

पत्र सं० \_\_\_\_\_ दिनांक \_\_\_\_\_  
पु 3/ज0नि0-01/85

प्रेषक:

श्रीमती बी० भामणी,  
सरकार के अपर सचिव ।

सेवा में,

महालेखाकार,  
विहार, राँची ।

वित्त विभाग ।

अनौपचारिक द्वारा:

रूप से  
परामर्शित । विषय:

वित्तीय वर्ष 1990-91 के अन्तर्गत विहार राज्य जल विद्युत निगम लि०, पटना विहार स्टेट हाइड्रोइलेक्ट्रिक पावर कारपोरेशन लि० पटना को हिस्सा पूँजी के रूप में 500 लाख रुपयाएँ अर्थात् रूप में 500 लाख रुपये की स्वीकृति ।

महाराज,

निदेशानुसार उपर्युक्त विषय के प्रसंग में मुझे संसूचित करना है कि राज्य सरकार द्वारा वित्तीय वर्ष 1990-91 के अन्तर्गत विहार राज्य जल विद्युत निगम लि०, पटना विहार स्टेट हाइड्रोइलेक्ट्रिक पावर कारपोरेशन, पटना को हिस्सा पूँजी के रूप में 500 लाख रुपये एवं अर्थात् रूप 500 लाख रुपये की स्वीकृति प्रदान की गयी है ।

2. हिस्सा पूँजी मद में 2.50 करोड़ और अर्थात् मद में 2.50 करोड़ जुलाई 90 में विमुक्त किया जायगा एवं सितम्बर महीने में 2.50 करोड़ हिस्सा पूँजी मद में तथा 2.50 करोड़ अर्थात् मद विमुक्त किया जायगा ।

3. इस राशि का व्यय बजट शीट नं० 4801 विद्युत परियोजनाओं पर पूँजीगत परिव्यय -01- जल विद्युत उत्पादन- 800 अन्य व्यय - अन्य क्षेत्रीय उपयोजना- विहार राज्य जल विद्युत निगम के हिस्सा पूँजी में अर्थात् दान में विकल्पनीय होंगे ।

4. अर्थात् की निम्न शर्तों रहेगा :-

क) इस अर्थात् पर पाँच वर्षों का स्थागन काल होगा ।

ख) छठे वर्ष से पन्द्रहवें वर्ष तक बाकलन केडिट की तिथि से 10 बराबर वार्षिक किस्तों में प्रतिवर्ष मूलदान का भुगतान होगा ।

ग) सुद की दर 13 1/2 प्रतिशत प्रतिवर्ष होगी ।  
समय पर भुगतान होने पर 1/4 1/2 प्रतिशत सुद में छूट तथा  
समय पर भुगतान नहीं होने पर 2 1/2 1/2 प्रतिशत दंड देना होगा ।

कृ० उ० -- 200



1. राज्य सचिव के अध्यक्ष से स्वीकृत किये गये दस अथवा कम के  
संस्थानों द्वारा धनसूचक अलग अलग जायगा ।

4. राज्य का विमोचन निम्न प्रकार से किया जायगा :-

1. प्रत्येक विमोचन धार विस्तार में किया जायगा । प्रथम विस्तार  
तब विमुक्त होगा जब तक कि उसे सभी राज्यों एक करोड़ रुपया रहे जाय ।

2. सर्वप्रथम विस्तार पूरा हो राजी हो जायगा । तदुपरांत अन्य को  
राजी हो जायगा ।

3. संपूर्ण राजी का उपयोगिता प्रमाण-पत्र निम्न द्वारा विस्तार  
धर को समाप्ति के बाद उपलब्ध कराया जायगा ।

4. उपर्युक्त आधार पर राजी विस्तार के द्वारा समय-समय पर  
विमोचन जारी अलग से निर्धारित किया जायगा ।

5. 1. महानिर्वाह, विचार, राजी से अनुरोध है कि वे अपने एवं अपने को  
उठाकर अन्य मदों में संबंधित व्यय को विमुक्त निम्नलिखित विस्तारों में करने  
के लिये प्राधिकृत किया जाय :-

40 प्रतिशत -	30 सितम्बर तक
25 प्रतिशत -	31 दिसम्बर तक ।
35 प्रतिशत -	1 जनवरी से 31 मार्च तक ।

1. स्वीकृत किये जा रहे को मदों को गैर योजना में उपलब्ध मदों  
के धारकों से भरा जायगा और गैर योजना के मदों के प्रमुखावस्था  
एवम् 2. में रखा जायगा । यदि एक सैब नही हो सका तो चरित विभाग  
को समर्थन में को मदों को बाहरी व्यक्ति से भरने का निर्णय संयुक्त करने  
के लिये प्राधिकृत को प्रविष्टा अपनाते हुए मदों को भरा जायगा ।

2. केन्द्र शासित या केन्द्र प्रायोजित योजना स्कीमों में राज्य  
सरकार के बिना को राजी केन्द्र सरकार द्वारा विमुक्त राजी के समस्त व्यय या  
उपर्युक्त प्रतिशत, जो भी कम हो, के मुताबिक विमुक्त को जाय । केन्द्र  
सरकार द्वारा विमुक्त को संपूर्ण होने के लिये प्राधिकृत को समस्त के स्कीमों  
में संबंधित राज्यादेशों में सहमति हो जाय ।

3. जिन मदों में व्यय के लिये राजी को विमुक्त के लिये  
महानिर्वाह, विचार के प्राधिकार को आवश्यकता नहीं है, उन्हें विस्तार  
विमुक्त पर कोषागार/उप-कोषागार को निम्नलिखित रखा होगा । अतः  
राज्यादेशों को एक प्रति निम्नलिखित एवं व्यय पदाधिकारों से संबंधित कोषा-  
गार/उप कोषागार को भेजा जायगा तथा उन्हें अनुरोध किया जायगा कि  
व्यय से संबंधित स्वीकृत्यादेशों में निर्धारित विस्तारों के अनुसार हो राजी को  
विमुक्त को जाय ।

6. इस राजी को निम्नलिखित जल-संवर्धन-प्रकल्प निदेश, विहार राज्य  
जल विस्तार सचिव निम्न निम्न बना करेंगे । अतः प्राधिकार-पत्र उनके नाम  
निर्धारित करने को कृपा करेंगे ।

विस्तारसमाप्त,

एस.पी. जाधवराव  
सरकार के सचिव ।

उत्तिरिपि निर्देशक/विस्तार मुने प  
को उपलब्ध कार्य हेतु प्रेषित  
की जाती है।

18-10-1981

इस प्रकार कुल 96.5 लाख रुपये प्रति तह  
भगम द्वारा सुद देय होता है ।

( )

सेवा :

॥ जोगेन्द्र प्रसाद ॥  
संस्कार के सिंगुला सन्ध्या ।  
जोगेन्द्र प्रसाद



मार्च, १९९२।

§ 42.

॥ ॐ नमो भगवते वासुदेवाय ॥  
॥ ॐ नमो भगवते वासुदेवाय ॥

Act 5.

ଶ୍ରୀ ଜଗନ୍ନାଥ ପଟ୍ଟାଭିଷେକୀ,  
ଅଭିଷେକୀଙ୍କ ଶ୍ରୀ ଜଗନ୍ନାଥ, ପଟ୍ଟାଭିଷେକୀ ।

Figure 2. —

२०. १९७७-७८ में किए गए विचार वार्तालाप का विवरण निम्न है।  
 विचार वार्तालाप का विवरण निम्न है।  
 २०. १९७७-७८ में किए गए विचार वार्तालाप का विवरण निम्न है।

24 1 57.

[illegible]

2: प्राच की बिहार कोषणगर संविहार भाग-1 के दिखल-17 के  
अन्वयित सुवाप्रदेण लब्धे । अन्वयितकार, विहार, राधी को भी दखनी सुवा  
टी, या इहाँ है ।

for example,

सं./- विषय द्वारा विवरण।  
संकाय के ३४-अंश, विवरण विवरण।

BTW FIRST.

॥ श्रीगणेशाय नमः ॥

Nov. 1992

पुलिलिपि, अक्षरमाला, चिह्न, वीथि-चिह्न, रंगीत की

सुखनाथ ष्टीथिन ।

FD-4 FORM DATE THREE 1

ਸਰਕਾਰ ਦੇ ਤੁਧ-ਸੰਪਿੱਤ, ਵਿਸ਼ਾਨ ਵਿਸ਼ਾਨ ।

STW 2000.

१००. वृत्त, दिनांक

1992

कृतिसिद्धिः प्रत्यक्षः स्यात् कथं न चित्तेन विद्यमानं विद्यमानं तद्वत्

विद्युत निगम लि., बल्लभपुरा विभाग को सूचनाएं एवं आचार्यक कार्रवाई के लिए प्रेषित ।

1. THIRD QUARTER

सरकार के उप-सचिव, जिला शिक्षा ।

बिहार सरकार,  
योजना एवं विकास विभाग।

संख्या - समन्वय 74/93 585/यो०वि०, पटना, दिनांक 16 मई 94

प्रेषक,

श्री जी० रत० दत्त,  
सरकार के सचिव।

सेवा में,

क्षेत्रीय विकास आयुक्त, रांची

समाने आयुक्त-एवं सचिव

समाने सचिव

समाने विभागाध्यक्ष।

विषय:-

राज्य की वार्षिक योजना 1993-94 का आकार एवं  
पुनरोद्घात उद्देश्य।

संदर्भ:-

निदेशानुसार उपर्युक्त विषय पर विभागीय पत्रांक 3065  
दिनांक 24/2/93 को आश्रित रूप से लाघोघात करते हुए कहना है कि राज्य की  
वार्षिक योजना 1993-94 के अन्तर्गत आपके विभाग के अधीन के प्रक्षेत्र/उप प्रक्षेत्र  
में संबंधित पुनरोद्घात उद्देश्य संलग्न विवरणों में अंकित है। राज्य योजना उद्देश्य  
में से कम से कम 25% राशि अपने अधीन के प्रक्षेत्र के लिए जन-आतंय उप-योजना के  
लिए कर्णांकित की जाय।

संलग्न विवरणों के अभ्युक्ति कालम में अंकित राशि  
राज्य योजना उद्देश्य के अन्तर्गत है। इस राशि का व्यय प्राथमिकता के आधार  
पर उसी परियोजना के लिए करने की कृपा की जाय।

अनुरोध है कि संलग्न विवरणों में अंकित राशि के  
अनुसार ही व्यय सुनिश्चित किया जाय।

विभागाध्यक्ष

॥ श्री० रत० दत्त ॥  
सरकार के सचिव।

ज्ञापक 585/यो०वि०, पटना, दिनांक 16 मई 94

प्रतिलिपि, अनुलग्नक को प्रति के साथ उपाध्यक्ष, राज्य  
योजना पदादि/उपाध्यक्ष, लोक उद्यम व्यूरो/आयुक्त एवं सचिव, वित्त विभाग  
को सूचना एवं आवश्यक कार्रवाई हेतु प्रेषित है।

सरकार के सचिव।



बोर्ड/अध्यक्ष-सह-अध्यक्ष निदेशक बिहार राज्य पशु परिवहन निगम/प्रबंधक निदेशक, बिहार राज्य जल विद्युत निगम/तेन्दुघाट विद्युत निगम/अध्यक्ष, बिहार राज्य आवात जोर्ड को सूचना एवं आवश्यक कार्रवाई हेतु प्रेषित।

सरकार के तत्त्व।

आपका 585 /पीओविओ, पटना, दिनांक 16 मार्च, 94

प्रतिलिपि, अनुलग्नक को प्रतिके साक्षात् मूले योजना एवं विज्ञान विभाग के आपा तत्त्व/आयुक्त एवं तत्त्विक विकास के वरीय तत्त्व/तत्त्व, योजना के तत्त्व/समाप्ति प्रक्षेपित पदाधिकारियों/समाप्ति योजना-सह-समाप्ति पदाधिकारियों/समाप्ति शोध-सह-समाप्ति पदाधिकारियों/समाप्ति प्रशासन पदाधिकारियों/समन्वय शाखा/अनुप्रवण शाखा, योजना एवं विकास विभाग को सूचना एवं आवश्यक कार्रवाई हेतु प्रेषित।

सरकार के तत्त्व।

1. Sub-
2. Loc Dev-
3. Soil & Water
4. Agriculture
5. Forest Department
6. Animal Husbandry
7. Dairy Development
8. Fisheries
9. Forestry & Ed
10. Food St

Sl. No. Sector/Sub-Sector

outlay.

(M.N.P.)

1. 2. 3.

7. Panchayats.

Total:-II

34.40  
17374.00

III. Special Area Programme

1. Welfare Department.
2. Rural Development Deptt.
3. Irrigation Department.
4. Other Special Area Programme such as Khet Pudit Vikas Pradhikar.

Nil

Nil

Nil

Total:-III

Nil

IV. Irrigation & Flood Control.

1. Major & Medium Irrigation.
2. Minor Irrigation.
3. Command Area Development.
4. Flood Control.

13950.00

3563.57

400.00

22700.00

Total:-IV... 20613.57

Source

1. B.S.D.B.

6400.00

60.00

2. C.A.D.B.

Nil

3. B.S.H.P.C.

338.00 / Rs. 323.00 lakhs for O.E.C.F.

4. Sonapat Stage-I

200.00

5. Sonapat Stage-II

Nil

6. Non-Conventional Sources of Energy.

179.37

Total:-V.

7117.37

60.00

VI. Industries & Minerals.

1. Village & Small Industry
  - (1) Industry Deptt.
  - (2) Cooperative Department.
2. Share Capital to Sugar Corporation.
3. Industries (other than Village & Small Industries).
4. Mining.

234.50

234.50

Nil

312.21

186.67

Total:-VI

733.38



ANNUAL PLAN-1993-94

(Rs. in lakhs)

<u>Sr. No.</u>	<u>Sector/Sub-Sector</u>	<u>Revised Outlay.</u>	<u>Remarks (M.N.P.)</u>
1.	<u>Agriculture &amp; Allied Services</u>		
1.	Crop Husbandry (Agricult. Deptt.)	1283.36	
2.	Sugar Cane Development.	Nil	
3.	Lac Development.	13.00	
4.	Soil & Water Conservation.	85.60	
(1)	Agriculture Department.	Nil	
(11)	Forest Department.	85.60	
5.	Animal Husbandry.	235.17	
6.	Dairy Development.	78.00	
7.	Fisheries.	90.83	
8.	Forestry and Wild Life.	1177.38	230.00
9.	Food Storage & Ware Housing.	5.00	
10.	Agricultural Research and Education.	374.37	
11.	Investment in Agriculture Finance Institution.	Nil	
(1)	Co-operative Department	Nil	
(11)	Institutional Finance	Nil	
12.	Marketing & Quality Control	-	
13.	Co-operation.	491.39	
	<u>Total:-I</u>	3834.10	230.00
II	<u>Special Programme for Rural Development.</u>		
1.	Integrated Rural Development (I.R.D.P.)	4480.09	
2.	Drought Prone Area Programme (D.P.A.P.)	310.50	
3.	Integrated Rural Energy Programme (I.R.E.P.)	Nil	
4.	National Programme like National Rural Employment (NREP Jawahar Rojgar Yojna).	9750.31	
5.	Land Reforms.	2790.00	
6.	Community Development	2.70	

संख्या-52/जोमि-3/93-

प्र. सं.

दिनांक-

श्री ए० डे० सुभाषचन्द्र,  
सरकार के सचिव ।

सेवा में,

महालेखाकार, बिहार,  
प०-हिन्नु, राँची ।

भाग द्वारा  
रक रूप में

द्वारा:- विरत विभाग ।

विषय:- वर्ष 1995-96 में बिहार राज्य जन विद्युत निगम लि०, पटना के लिए  
346 लाख रुपये धिमा पूँजी तथा 247 लाख रुपये ऋण की विमुक्ति की  
स्वीकृति ।

महोदय,

उपरोक्त विषय के संदर्भ में निदेशानुसार संशुद्धि करना है कि राज्य  
सरकार द्वारा वित्तीय वर्ष 1995-96 में बिहार राज्य जन विद्युत निगम लि०,  
पटना को 346 लाख रुपये धिमा पूँजी एवं 247 लाख रुपये ऋण स्वीकृत किया है ।

2. ऋण की राशि एवं व्यय निम्न प्रकार है :-

8क8 247 लाख रुपये ऋण पर पाँच वर्षों का स्वयंसेवा खान होगा ।

8ख8 छह वर्षों से पन्द्रह वर्ष तक आयुधन की तिथि है इस धरावर वार्षिक  
वित्तों में प्रति वर्ष मूलधन का भुगतान होगा ।

8ग8 मुद्र की दर 13 प्रतिशत प्रतिवर्ष होगी समय समय पर भुगतान होने  
पर एक बोनस प्रतिशत मुद्र में मुद्र तथा समय पर भुगतान नहीं होने पर द्वाह  
ग-वित्त दंड मुद्र देना होगा ।

8घ8 मुद्र का भुगतान राशि आयुधन की तिथि है एक वर्ष बाद प्रारम्भ  
में हो जाता जायेगा ।

8ङ8 भारतीय अविश्व एवं महालेखा निमित्त तथा वित्त अविश्व को यह  
अविश्व होगा कि बिहार राज्य जन विद्युत निगम लि०, पटना के देखा का  
अविश्व करें ।

8च8 राज्य की सीधित निधि से ज्योतुत निधि को हिरता पूँजी एवं  
ऋण की देना संशुद्धि संग्राम द्वारा संग्रहीत जायेगी ।

3. धिमा पूँजी मद में राशि की विमुक्ति अजट को 1-4801  
विमुक्त की राशिजनाओं पर पूँजीगत परिचय-01-वत लिपुत उत्पादन-800-777  
यम जन जातिधों केधीय उपयोगना बिहार राज्य जन विद्युत उत्पादन निगम को  
देखा पूँजी के असाधान में विषयकीना होगा ।



25/1

4. इसी के अन्तर्गत बिहार का जल संकट-6801-70 में  
संशोधनाधीन है जिस उद्धार योजना-201-जल विद्युत उत्पादन बिहार राज्य  
जल विद्युत निगम को एन में निम्नलिखित होगी ।

5. यह राशि भागों में बंटे जायेगी, राजकीय नगर, पटना के बिहार  
स्टेट हाइड्रोइलेक्ट्रिक कार्पोरेशन लि., पटना के अन्तर्गत में यह होगी ।

6. उक्त राशि को निम्नलिखित हेतु प्राधिकार वगैरह निदेशों,  
बिहार राज्य जल विद्युत निगम लि., पटना के नाम अधिष्ठाता कोषागार, पटना  
के माध्यम से निर्गत किया जाय ।

7. प्रकृत निदेशक, बिहार राज्य जल विद्युत निगम लि., पटना का  
उत्पादन अधिकारी, ऊर्जा द्वारा प्रतिपत्तिस्थित किया जावेगा ।

विशेषाधिकार,

हस्ताक्षर

३ फरवरी १९७१

सरकार के सचिव ।

मापांक- 11/21

दिनांक- 20/3/71

प्रतिनिधि प्रकृत निदेशक, बिहार राज्य जल विद्युत निगम लि., पटना/  
विद्युत विभाग अधीनस्थ/उपर जल आयुक्त/कोषागार प्रशासक को, बिहार  
कोषागार, पटना / गार्ड फाईल, ऊर्जा विभाग को सूचना ।

३ फरवरी १९७१

सरकार के सचिव ।

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1997-98

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1947-48  
1948-49  
1949-50

पुणे-१०-११-१९५१

अथवा - विद्या विद्या

FBIHQ - LETTER TO ALL FIELD OFFICES RE: [REDACTED] 10/17/98 Y-450-00 ATTN: [REDACTED]

决定书

1. 10/11/2020

S. G. W.  
10.3.198

10/06/2017

10/3/98

[illegible]

क्रमांक	वस्तुविवरण	आवक्य राशि
1-	पूजा पीठ पर का पत्रिका का खर्च, का खर्च :-	100.00 लाख रुपये ।
2-	उपार जोर का पत्रिका का खर्च, का खर्च :-	130.00 लाख रुपये ।
3-	पूजा पीठ का पत्रिका का खर्च, का खर्च :-	120.00 लाख रुपये ।
4-	जोवर का खर्च, जंगल का खर्च, का खर्च :-	40.00 लाख रुपये ।
5-	का खर्च, का खर्च :-	10.00 लाख रुपये ।

சென்னை - 600 008

... of the ...

2- All road of Highway, etc.

400-50 413 871, 413 871, 413 871, 413 871  
413 871, 413 871, 413 871, 413 871

[illegible][illegible][illegible]

14

11/3/2021



प्रस्ताव प्रारम्भ में ही किया जाएगा ।

2- भाषा है जिसके एवं कालिका नियम तथा पित्त कीका की यह अधिकार होगा कि वे बिहार राज्य का विस्तृत निम्न वि०, पटना के लेख का अधिका करें ।

3- राज्य की लीक निधि के खींचा विदे के आ की राशि का लेख लीक संस्थान द्वारा कम है रहा जाएगा ।

4- इस के न में राशि की विस्तृत कट सी०-6801-विस्तृत प्रारम्भिकताओं के लिए अथार योजना-201- का विस्तृत अन्वयन-बिहार राज्य का विस्तृत निम्न वि०, पटना में विस्तृत निम्न वि० ।

5- यह राशि आरम्भ में के, राजकीय नर, पटना में बिहार केट हाइकोलेक्ट पापरी वास्तविक वि०, पटना के लीक में बना होगी ।

6- इस राशि की निम्न वि० अधिकार व प्रवन्ध निदेश, बिहार राज्य का विस्तृत निम्न वि०, पटना के नर विधानमय कोषागार, निदेश भन, पटना के नर वि० के वि० किया जाएगा ।

7- प्रवन्ध निदेश, बिहार राज्य का विस्तृत निम्न वि०, पटना का वकाश वि०, अर्थात् द्वारा अन्वयन-बिहार राज्य का वि० ।

विभागाध्यक्ष,

नं०

50/-

50 के अन्वयन-बिहार राज्य का वि० ।

अर्थात्- 590

दिनांक 10/7/98

अधिकार प्रवन्ध निदेश, बिहार राज्य का विस्तृत निम्न वि०, पटना, विस्तृत निम्न वि०, अर्थात् द्वारा अन्वयन-बिहार राज्य का वि०, पटना के लीक में बना होगी ।

2/8/98

50 के अन्वयन-बिहार राज्य का वि० ।

दिनांक 11/3/98

नर वि०, अर्थात् द्वारा अन्वयन-बिहार राज्य का वि० ।

नं०

बिहार सरकार,  
ऊर्जा विभाग ।

पत्रांक-प्र.-२/ज.वि.नि.-१/१४\_\_\_\_\_

दिनांक \_\_\_\_\_

लेवा में,

विभाग द्वारा  
निर्दिष्ट ।

महालेखाकार, बिहार,  
पो-०-हिन्नु, राँची ।

द्वारा:- वित्त विभाग ।

विषय:- बिहार राज्य जल विद्युत निगम लि०, पटना को वित्तीय वर्ष १९७८-७९ में १८.००४ दस करोड़४४ रुपये ऋण की विमुक्ति के संबंध में ।

महाशय,

निदेशानुसार उपर्युक्त विषय के संबंध में सूचित करना है कि वित्तीय वर्ष 1978-79 में बिहार राज्य जल विद्युत निगम के लिए राज्य सरकार ने योजना मद में उपलब्ध बजट उपबन्ध के विरुद्ध रु० 10.00॥दत्त करोड़॥ रुपये मात्र ऋण के मद में निकासी की स्वीकृति प्रदान की है, जिसका ध्यय उन्हें निम्नांकित परियोजनाओं के विरुद्ध दर्शायी गई राशि के अनुरूप करना है :-

क्रमांक परियोजना का नाम

### स्वीकृत राशि

1. पाण्डिल जल विद्युत परियोजना, पाण्डिल

274.00 लाख रुपये

2. लोअर घाघरी, सदनी, नेतस्ट्रीट एवं अगन्नर जल विद्युत परियोजना ।

225.00 लाख रुपये

३. उत्तर. कोयल जल विद्युत परियोजना

25.00 लाख रुपये

4: डिहरी एवं वारुण जल विद्युत परियोजना

480.00 लाख रुपये

5. तेनु बोकारो जल विद्युत परियोजना

56.00 लाख रुपये

॥ दत्त करोह लपरो ॥ मान्नि ॥

1,000.00 लाख रुपये

2- अण की शर्तें एवं बंधन निम्न प्रकार हैं:

₹ 10.00 करोड़ ₹ दस करोड़ रुपये मात्र खण पर पाँच वर्षों का स्थान काल होगा।

॥य॥ मृग की अवधि 15 वर्ष की होगी। छठे वर्ष से 15वें पन्द्रहवें वर्ष तक आंकलन की तिथि से दस बराबर वार्षिक किस्तों में प्रति वर्ष मूलधन का भुगतान होगा।

॥ ग ॥ सुद की दर 13 ॥ तेरह ॥ प्रतिशत प्रतिवर्ष होगी एवं समय पर भुगतान होने पर एक चौथाई प्रतिशत सुद में छूट मिलेगी । तथा समय पर भुगतान नहीं होने पर 2.5% ॥ टाई प्रतिशत ॥ दण्ड स्वरूप सुद देना होगा ।

४४ सुद का भुगतान राशि आंकलन की तिथि से एक वर्ष बाद प्रारम्भ में ही किया जायेगा ।

४२१ भारत के अंकेक्षण एवं महालेखा नियंत्रक तथा वित्त अंकेक्षण को यह अधिकार होगा कि वे बिहार राज्य जल विधुत निगम लि०, प्रटना के लेखा का अंकेक्षण करें।

४४ राज्य की संघित निधि से स्वीकृत किये गये ऋण की राशि का लेखा संबंधित संस्थान द्वारा अलग से रखा जायेगा। तथा इसका व्यय जिस परियोजना के लिए राशि स्वीकृत की गई है, उसे अन्य मद में नहीं किया जायेगा।

3- वित्त विभाग के परिपत्र सं०-एम-४/१८-८८-३८८१ दिनांक ७.७.८९ के अनुसार पुराने बकाया सर्व सूद का २५% की कटौती, मिलने वाली राशि से निगम की वित्तीय स्थिति को देखते हुये, कटौती नहीं करने की छूट दी जाती है।

4- अणु के मद में राशि की विमुक्ति बजट शीर्ष 6801-विद्युत पारियोजनाओं के लिए अणु, योजना लघुशीर्ष-201। "जल विद्युत उत्पादन", बिहार राज्य जल विद्युत



5. उक्त राशि की निकासी हेतु प्राधिकार पत्र, प्रवन्ध निदेशक, विहार राज्य जल विद्युत निगम लि० पटना के नाम सचिवालय कोषागार, सिंवाई भवन, पटना के माध्यम से निर्गमित किया जायेगा।

प्रवन्ध निदेशक, विहार राज्य जल विद्युत निगम लि० पटना का हस्ताक्षर, सचिव, उर्जा द्वारा प्रतिहस्ताक्षरित किया जायेगा।

विहार राज्यपाल के आदेश से,

ह०/-

॥ के० के० महतो ॥  
सरकार के अपर सचिव।

जापाक - प्र० २/ज० वि० नि० १/१८-

843

पटना, दि० १५/३/११

प्रतिलिपि प्रवन्ध निदेशक, विहार राज्य जल विद्युत निगम लि० पटना/  
वित्त विभाग/अर्थीपाय/अपर वित्त आयुक्त/कोषागार पदाधिकारी,  
सचिवालय कोषागार, सिंवाई भवन, पटना/गार्ड फाईल, उर्जा विभाग को  
सूचनायुक्त प्रेषित।

॥ के० के० महतो ॥  
सरकार के अपर सचिव।  
दिनांक  
११/३/११

1999-2000

Loan Rs 5.00 Crore

बिहार सरकार,  
उर्जा विभाग

दिनांक 14/11/99

प्रमाणक

दिनांक

14/11/99

14/11/99

प्रेषक,

श्री पी०के० जय,  
सरकार के सचिव।

सेवा में,

वनोपचारिक रस  
वित्त विभाग द्वारा  
परागृहीत।गृहसुखाकार, विहार,  
पौ० वि०, रा० वि०।

द्वारा: वित्त विभाग, बहार।

विषय: बिहार राज्य जल विद्युत निगम, लि०, पटना को वर्ष 1999-2000  
में योजना मू० में 5.00 करोड़ रुपये ऋण की स्वीकृति एवं वित्तित  
के संबंध में।

महोदय,

निदेशानुसार उपर्युक्त विषय के संबंध में सूचित करना है कि वित्तीय  
वर्ष 1999-2000 में बिहार राज्य जल विद्युत निगम लि०, पटना के लिए राज्य  
सरकार ने योजना मू० में उपलब्ध वज्र उपवन्ध के विस्तृ 5.00 पाँच करोड़  
रुपये मात्र ऋण के मू० में निष्कासी की स्वीकृति प्रदान की है, जिम्मा ब्याज निगम  
द्वारा वधोत्तिष्ठा योजनाओं पर दशायी गयी राशि के अनुसार करना है:-

क्रमांक	परियोजना का नाम	अनुमानित उद्भव्य रु० लाख में	अभ्युचित
1.	अग्नुर 2x500 कि०वा०	250.00	इस परियोजना को मू० 18 मा० में पूरा करना है।
2.	निन्दोधाध एवं जातिमधाध	200.00	इसे मा० 12 मा० में पूरा करना है।
3.	तेनु बोकारो 1x1 मे०वा०	50.00	यह मा० 2000 ई० तक पूरा होने की संभावना है।

कुल रु० 500.00 लाख-

पाँच करोड़ रुपये मात्र।

2. ऋण की शर्तों एवं बंधन निम्न प्रकार से है:-

क. ऋण की अवधि 15 पन्द्रह वर्षों की होगी और इसके भुगतान पर  
पाँच वर्षों का स्थान काल रहेगा।ख. ऋण के वाकलन की तिथि से छठे वर्ष से पन्द्रहवें वर्ष तक दस बराबर  
वार्षिक किस्तों में प्रतिवर्ष मूलधन का भुगतान होगा।ग. इस ऋण पर देय-रु० की दर 13.5 प्रतिशत प्रतिवर्ष होगी। राशय  
पर भुगतान चिये जाने पर मू० में एक बंधाई प्रतिशत छूट मिलेगी तथा राशय  
पर भुगतान नहीं होने पर 2.5 प्रतिशत वृद्ध रु० देना होगा।घ. रु० कर भुगतान राशि के वाकलन की तिथि से एक वर्ष बाद ही  
प्रारम्भ हो जायेगी।

कु० 02.000



१३१ बिहार राज्य जन विद्युत निगम लि० की वित्तीय स्थिति को देखाते हुए स्वीकृत भूज में से पुराने कमाये गूलफा एवं एम० के सामान हेतु 25% की कटौती नहीं की जायेगी ।

वित्त विभाग का परिपत्र संख्या-एम०४/१८-११-३८८  
दिनांक ७-७-८९ प्रकटव्य है ।

३. उर्जा विभाग के लिए १९९९-२००० में बजट शीर्ष ६८०१ विद्युत परियोजनाओं के लिये उधार लक्ष्मीर्ष २०१-जन विद्युत उत्पादन के अंतर्गत ५५०० करोड़ रुपये का प्रावधान है ।

४. यह राशि बजट शीर्ष ६८०१ विद्युत परियोजनाओं के लिए उधार-लक्ष्मीर्ष २०१ जन विद्युत उत्पादन के अंतर्गत विद्युत वित्तनीय होगी । इस राशि की निमाती उर्जा विभाग के मुख्य विद्युत अभ्यता के प्राविधिक सौच द्वारा सौचालय कोषागार, सिवार्ड पटना से की जायेगी एवं देसी के द्वारा बिहार स्टेट पावर डेवलपमेंट कॉर्पोरेशन लि० पटना को उपलब्ध कराये जायेगी ।

अतः अनुरोध है कि मुख्य विद्युत अभ्यता के सौच, प्राविधिक उर्जा विभाग के पदनाम से प्रोधिहार पत्र शीघ्र निगमित करने की कृपा की जाय ।

प्रियात्मजन

एल०-

१ पी० डी० वायु  
सरकार के सौच ।

आपांक ५५५३

दिनांक १०/११/९९

प्रताप-प्रबंध निदेश, बिहार राज्य जन विद्युत निगम लि०, पटना/वित्त विभाग, अपर वित्त आयुक्त/कोषागार पदाधिका, सौचालय कोषागार, सिवार्ड भवन पटना/लेखा शाखा एवं उर्जा विभाग को गार्डफाइल में संलग्न हेतु प्रेषित ।

CIN  
१ पी० डी० वायु  
सरकार के सौच ।  
उर्जा विभाग  
पटना

बिहार सरकार,  
ऊर्जा विभाग।

पत्रांक - \_\_\_\_\_/

प्र०-2/ज०वि०नि०-17/2002

दिनांक - \_\_\_\_\_/

सेवा में,

वित्त विभाग से  
अनौपचारिक रूप से  
परामर्शित।

महालेखाकार, बिहार एवं झारखंड,  
पो० -हिन्नु, राँची।

द्वारा : वित्त विभाग।

विषय: बिहार राज्य जल विद्युत निगम, पटना को वित्तीय वर्ष 2002-2003 में जल विद्युत उत्पादन की चालू परियोजनाओं के लिए 5.00 करोड़ (पाँच करोड़) रुपये ऋण की स्वीकृति एवं विमुक्ति के संबंध में।

महाशय,

निदेशानुसार कहना है कि बिहार राज्य जल विद्युत निगम द्वारा अगनूर जल विद्युत परियोजना जो जहानाबाद जिले के सोन नहर पर अगनूर नामक स्थान पर अवस्थित है, पर 2 x 500 किलोवाट क्षमता की जल विद्युत परियोजना को 31.03.2003 तक पूरा करने के लिए 5,00,00,000/- (पाँच करोड़) रुपये मात्र वित्तीय वर्ष 2002-03 में ऋण के रूप में स्वीकृत एवं भुगतान करने की स्वीकृति राज्य सरकार द्वारा इस शर्त पर प्रदान की गयी है कि बिहार राज्य जल विद्युत निगम दिनांक 31.03.2003 तक अगनूर जल विद्युत परियोजना को पूरा कर उत्पादन प्रारम्भ कर देगा।

2. ऊर्जा विभाग के लिए वर्ष 2002-2003 में बजट शीर्ष "6801-विद्युत परियोजनाओं के लिए उधार-अन्य क्षेत्रीय उपयोजना-800-विद्युत पर्यटकों को अन्य उधार-01-04 राज्य जल विद्युत निगम को ऋण" विपत्र कोड संख्या- पी०-6801008000104 के अन्तर्गत 5,00,00,000/- (पाँच करोड़) रुपये मात्र का प्रावधान है।

3. बिहार राज्य जल विद्युत निगम लि०, पटना को 5,00,00,000/- (पाँच करोड़) रुपये ऋण का भुगतान निम्नलिखित ऋण की शर्तों के आधार पर करने की स्वीकृति प्रदान की जाती है :-

(क) ऋण का पुनर्भुगतान एवं सूद का भुगतान दस बराबर वार्षिक किश्तों में होगा तथा पहली किश्त की अदायगी ऋण निकासी की तिथि से एक साल बाद से प्रारम्भ होगी।

(ख) इस ऋण पर 13% की दर से वार्षिक ब्याज देय होगा।

(ग) समय पर मूल एवं सूद का भुगतान नहीं किये जाने पर 2.5% (ढाई प्रतिशत) दण्ड सूद देना होगा।



(घ) वित्त विभाग के परिपत्र संख्या - एफ0-4/98-88-3881 दिनांक 07.07.1989 के अनुसार पूर्व में दिये गये ऋण के मूल एवं सूद की बाबत प्रसंगाधीन राशि में से 25% (पच्चीस प्रतिशत) कटौती की व्यवस्था से बिहार राज्य जल विद्युत निगम की वित्तीय स्थिति को देखते हुए निगम को छूट दी जाती रही है, जो जारी रहेगा।

4. यह राशि बजट शीर्ष "6801-विद्युत परियोजनाओं के लिए उधार-अन्य क्षेत्रीय उपयोजना-800-विद्युत पर्यटों को अन्य उधार- 01-04 बिहार राज्य जल विद्युत निगम को ऋण" विपत्र कोड संख्या- पी0-6801008000104 के अन्तर्गत वित्तीय वर्ष 2002-03 में उपबंधित राशि के अन्तर्गत विकलनीय होगी।

5. इस राशि की निकासी ऊर्जा विभाग के मुख्य विद्युत अभियन्ता के सचिव (प्रावैधिक) द्वारा सचिवालय कोषागार, सिंचाई भवन, पटना से की जाएगी एवं बैंक ड्राफ्ट/बैंकर्स चेक के द्वारा बिहार राज्य जल विद्युत निगम लि0, पटना को उपलब्ध करायी जायेगी।

6. अनुरोध है कि इस राशि के भुगतान हेतु प्राधिकार पत्र शीघ्र निर्गत करने की कृपा की जाय।

विश्वासभाजन,

(कुमारेण च0 मिश्र)  
सरकार के सचिव।

ज्ञापांक -                      /                      /                      दिनांक -                      /                      /                       
प्रतिलिपि कोषागार, पदाधिकारी, सचिवालय कोषागार, सिंचाई भवन, पटना को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

(कुमारेण च0 मिश्र)  
सरकार के सचिव।

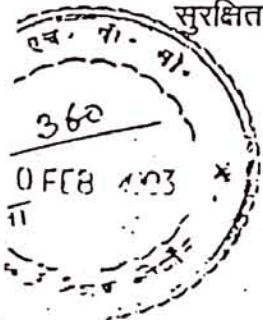
24

4016

02-03

ज्ञापांक - 261 /                      /                      दिनांक - 10/02/03 /                      /                       
प्रतिलिपि प्रबन्ध निदेशक, बिहार राज्य जल विद्युत निगम लि0, पटना/वित्त विभाग स्कीम शाखा-9/वित्त प्रशाखा-6/मुख्य विद्युत अभियन्ता के सचिव (प्रावैधिक), ऊर्जा विभाग/लेखा शाखा (दो प्रति में)/निबन्धक, ऊर्जा विभाग, बिहार, पटना को गार्ड फाईल में सुरक्षित रखने हेतु सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

(कुमारेण च0 मिश्र)  
सरकार के सचिव।



1219

बिहार सरकार,  
उर्जा विभाग ।

पत्रांक-पू2/ज0वि0नि0-08/04-

पटना, दिनांक

प्रेषक,

आयुक्त एवं सचिव,  
उर्जा विभाग, बिहार ।

लिखा में,

मुख्य बिद्युत अभियन्ता के सचिव प्रगट0  
उर्जा विभाग, बिहार, पटना ।

विषय:

वित्तीय वर्ष 2005-2006 में बिहार राज्य जल बिद्युत  
निगम को 345.24 लाख रु. तीन करोड़ पैंतालीस लाख  
चौबीस हजार रु. आवंटन के संबंध में ।

प्रस्ताव,

उपर्युक्त बिषयक उर्जा विभाग के राज्यादेश सं0-08 दिनांक  
16.01.06 के आलोक में वित्तीय वर्ष 2005-06 में बिहार राज्य जल  
बिद्युत निगम लि0, पटना को राज्यादेश के तम में राज्य योजना से रु.प  
के तम में 345.24 लाख रु. तीन करोड़ पैंतालीस लाख चौबीस हजार रु. समये  
मात्र का आवंटन स्वीकृत एवं बिमुक्त किया जाता है ।  
2. यह राशि बजट शीर्ष- 6801 - बिजली परियोजनाओं के लिए  
कर्म-राज्य योजना-800-बिद्युत बोर्डों के लिए अन्य कर्म-0104 -बिहार  
राज्य जल बिद्युत निगम को रु.प-मार्ग सं0-10 -विपत्र कोड संख्या-पी.  
6801008000104 के अंतर्गत वित्तीय वर्ष 2005-2006 में उपबंधित  
राशि से बिकलनीय होगा ।

3. इस राशि की निकासी सचिवालय कोषागार, सिंचाई भवन  
पटना से की जायेगी ।

4. यह आवंटन वित्त विभाग के पत्रांक-2561 दिनांक 17.04  
1998 के आलोक में निरति किया जाता है तथा निकासी एवं व्ययन  
पदाधिकारी से अनुरोध है कि राशि की निकासी के पूर्व सारी  
प्रक्रियाओं का अनुमन सुनिश्चित करने के बाद ही राशि की निकासी  
करेंगे । यह राशि इस मद् में कुल उपबंधित राशि के अधीन है ।

5. आवंटन राशि की निकासी के पूर्व संबंधित विपत्र पर  
निकासी एवं व्ययन पदाधिकारी प्रसंगाधीन आवंटन आदेश की संख्या  
एवं तिथि के साथ-साथ संबंधित इकाई के कोड संख्या- का भी उल्लेख  
करेंगे तथा विपत्र पर चिन्हित राशि उपबंध के अन्तर्गत होने का  
प्रमाण-पत्र भी अंकित करेंगे ।

6. निकासी एवं व्ययन पदाधिकारी किसी भी पारिस्थिति  
के अभाव में निकासी की प्रक्रिया नहीं करेंगे ।



इस राशि का मुताबिक है : ड्राफ्ट / बैंकर्स चेक के माध्यम से विहार राज्य जल विद्युत निगम लि० को किया जाएगा ।

किशोरभाजन

ह०/-

आयुक्त एवं सचिव,  
उर्जा विभाग ।

झापांक- ५२/ज०वि०नि०-०८/०४-

पटना, दिनांक

प्रतिलिपि- कोषागार पदाधिकारी, सचिवालय कोषागार  
संचाई भवन, पटना को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित ।

ह०/-

आयुक्त एवं सचिव,  
उर्जा विभाग ।

झापांक- ५२/ज०वि०नि०-०८/०४- ६२

पटना, दिनांक ७/३/०६

प्रतिलिपि- अध्यक्ष सह प्रबंध निदेशक, विहार राज्य जल विद्युत निगम लि० पटना को सूचनार्थ एवं नियमानुसार त्वरित कार्रवाई हेतु प्रेषित ।

आयुक्त एवं सचिव,  
उर्जा विभाग ।

विहार सरकार,  
उच्च विभाग।

562

संख्या: 52/40 वि०-8/03--  
मेवा में,

पटना, दिनांक

महासंचालक,  
विहार, पटना।

स्वाराज्य विस्तार विभाग,

विषय: विहार राज्य का विस्तृत निम्न मि०, पटना की  
निर्माणधीन 17 [संख्या] का विस्तृत परियोजनाओं को  
पूरा करने के लिए राज्य योजना के रा. बांग के तहत  
500 लाख। 5 करोड़। लक्ष्य की विकास की स्वीकृति।

महासंचालक,

उपरोक्त विषय के प्रसंग में निर्देशांक 4 मा है कि विहार  
राज्य का विस्तृत निम्न मि० के निर्माणधीन 17 [संख्या] का विस्तृत  
परियोजनाओं का जेपुरा, जेहरा, विगाहा, जेहरा, जमिनाय, अरुण,  
मिथिला, जेनानाय, पट्टाया, मासरीगंज, जयपुरा, वीथिका, अमिठी, रामपुर,  
मटार, राजापुर एवं अंबारी को पूरा करने हेतु 9078.86 लाख रुपये  
की कुल मजबूत पर योजना की स्वीकृति दी गई। [संख्या] की दिनांक 4.11.  
2003 की तैयारी में प्रदान की गई। [संख्या] में नापाई स्वाराज्य और  
आई.डी.एफ. - 1/111 के तहत 5015.82 लाख रुपये का की स्वीकृति  
आर.आई.डी. की.एफ. - 1/111 की रूप की गतों के आधार पर की गई।  
मैक्सिमिज द्वारा यह भी निर्णय लिया गया कि विहार राज्य का  
विस्तृत निम्न मि० अपने अतिरिक्त प्रोत्तों से अबतक की की गई राशि  
रुपया 210 लाख तथा आगे तथा 233 लाख का पड़म होगा तथा इस  
राशि का काम राज्य योजना में से किया जाएगा। मैक्सिमिज के उक्त  
निर्णय के आशोक में इस विभाग के राज्यादेश नं०-8 दिनांक 16.1.2006  
द्वारा राज्यादेश के तहत 2620.84 लाख रुपये की स्वीकृति दी गई एवं  
इसमें से इस वित्तीय वर्ष में 345.24 लाख रुपये की विकास की  
स्वीकृति दी गई है।

2. पुनः विहार राज्य का विस्तृत निम्न को इन परियोजनाओं  
को पूरा करने हेतु इस वित्तीय वर्ष में राज्य योजना से 500 लाख  
[संख्या] परीक्षा लक्ष्य रूप के रूप में स्वीकृत किया जाता है।

3. विस्तार विभाग के परीक्षण नं०-एफ-4-3881 दिनांक 7.7.  
1999 के अनुसार पुराने [संख्या] के 25 प्रतिशत की स्वीकृति  
विहार राज्य का विस्तृत निम्न, पटना की वित्तीय स्थिति को देखते  
हुए स्वी करने की प्रेरणा दी जाती है।

4. इस की उच्च गतों निम्नवत होगी :-

[क] इस का पुनर्गठन एवं रु. 10 [संख्या] [संख्या]  
वांछित किस्त में होगा। इसकी पहली किस्त की अवधि 20 दिनों  
की तिथि से एक लाख माह से प्रारम्भ होगी।

180 जे. . .



उत्तर : इस राशि पर 15 प्रतिशत की पर से शक्ति बचाव हो जाएगा।

समय पर युगात्मान मन्त्री करने पर 2.5 ... तात की पर से  
विजय दंड रूप देव होना ।

प्रतिमात लुट होगी ।

5. उत्तर राशि की शिलालेख दस्तावेज संख्या-6801 विज्ञापन  
परियोजनाओं के लिए राज्य योजना -201-पनविज्ञापन उत्पादन-  
0105-विहार राज्य का विद्युत निगम को इन [मासिक] [मार्ग] सं०-10-  
विद्युत कोड सं०-पी. 6801002010105 के अन्तर्गत वित्तीय वर्ष 2003-006  
में विज्ञापित होगा।

6. इस राशि की निम्नी मुख्य विधुत प्रथिमा है राचिव  
[प्रा०] उर्वा विभाग है द्वारा राचिवालय कोषागार, सिंहाई मनेन, पटना  
से कर ईक से मेरठ सेक/सेक हाफ्ट है माध्यम से विद्या राज्य ज्ञ विधुमा  
नियम को मुगताम दिया जायेगा ।

ઉત્તર: અમુરોપ છે તો 500 માસ [પાંચ વર્ષ] તપસે આ  
 પ્રાપ્તિ કરવા સમર્થ થઈ શકે છે ।

પિતા રાજ્યના આપેલ ને ,

294.

समकारः उपः विप,  
उज्ज्वलः विपः ।

आपांक- प्र२/प०वि०नि०-४/०३- पटना, बिनांक  
प्रतिलिपि- कोभागार पत्राधिकारी, अधिवेशन कोभागार, निवाह भवन,  
पटना को सूचनार्थ रों आक्षयक कार्याह है प्रेषित ।

४०/-

સાત્કાર ઈ ઉપતિષ્ઠ,   
 ઉર્જા વિભાગ ।

प्रापांक- प्र2/जोवि0नि0-8/03- 63 पटना, दिनांक 13/3/06  
प्रतिलिपि- वित्त विभाग, अर्थ-व्यय शाखा / वित्त विभाग, डाटा कोषांग  
/ प्रथम निदेशक, विहार राज्य जन विद्युत निगम, पटना / निदेशक, उर्जा विभाग /  
मुख्य विद्युत अभियन्ता के सहिव प्रान्त, उर्जा विभाग, पटना / निदेशक, पटना / निदेशक  
शाखा / तीन प्रतियों में / उर्जा विभाग, पटना / योजना, वषट्क प्रभारी स्थापक  
को सूचनार्थ संव आवासक. कारवाई हेतु प्रेषित ।

nikan  
Fi 2106

सरकार के अधिकार, उच्च शिक्षा ।



बिहार सरकार,  
उर्जा विभाग।

एन. नं. 14/20

पटना, दिनांक

पत्रांक— 12/ज0वि0नि0-8/03-

अनौपचारिक  
रूप से  
परामर्शित

महालेखाकार,  
बिहार, पटना ।



द्वारा: वित्त विभाग ।

विषय: बिहार राज्य जल विद्युत निगम लि० पटना के निर्माणाधीन -17- लघु जल विद्युत परियोजनाओं को पूरा करने के लिए राज्यांश के रूप में स्वीकृत 2620.84 लाख रुपये में से वित्तीय वर्ष 2006-07 में 17,75,60,000/- (सतरह करोड़ पचहत्तर लाख साठ हजार) रू० की निकासी की स्वीकृति ।

महाशय,

उपर्युक्त विषय के प्रसंग में निदेशानुसार कहना है कि बिहार राज्य जल विद्युत निगम लि० के निर्माणाधीन 17 लघु जल विद्युत परियोजनाएँ यथा-तेजपुरा, डेहरा, सिपहा, बेलसार, बलिदाद, अरवल, त्रिवेणी, डेलाबाग, पहरामा, नासरीगंज, जयनगरा, श्रीखिण्डा, अमेठी, रामपुर, नटवार, राजापुर एवं सेवारी को पूरा करने हेतु 9078.86 लाख रुपये की कुल लागत पर योजना की स्वीकृति प्रदान की गई है । इसमें से 6015.02 लाख रुपये ऋण नाबार्ड द्वारा आर.आई.डी. एफ.- VIII के तहत की गई है । बिहार राज्य जल विद्युत निगम अपने आंतरिक श्रोत से अबतक खर्च की गई राशि रूपया 210 लाख तथा आगे रू० 233 लाख का वहन करेगा । शेष राशि राज्य योजना से वहन किया जायेगा ।

2. उपर्युक्त आलोक में राज्यादेश संख्या-08 दिनांक 16.01.2006 द्वारा बिहार राज्य जल विद्युत निगम को राज्यांश के रूप में राज्य योजना से राज्यांश की राशि 2620.84 लाख रुपये में से वित्तीय वर्ष 2005-06 में 345.24 लाख (तीन करोड़ पैंतालीस लाख चौबीस हजार) रुपये एवं राज्यादेश सं० 64 दिनांक 13.3.06 द्वारा 500.00 लाख (पाँच करोड़) रुपये की निकासी की स्वीकृति दी गई है । इस प्रकार वित्तीय वर्ष 2005-06 में कुल 845.24 लाख (आठ करोड़ पैंतालीस लाख चौबीस हजार) रुपये की निकासी की स्वीकृति दी जा चुकी है ।

3. बिहार राज्य जल विद्युत निगम को इन परियोजनाओं को पूरा करने हेतु वित्तीय वर्ष 2006-07 में राज्य योजना से शेष 17,75,60,000/- (सतरह करोड़ पचहत्तर लाख साठ हजार) रुपये ऋण के रूप में स्वीकृत किया जाता है ।



4. वित्त विभाग के परिपत्र सं०-एफ. 4-3881 दिनांक 7.7.1989 के अनुसार पुराने बकाये एवं सूद का 25 प्रतिशत की कटौती बिहार राज्य जल विद्युत निगम पटना की वित्तीय स्थिति को देखते हुए नहीं करने की छूट प्रदान की जाती है ।

ऋण की अन्य शर्तें निम्नवत होगी ।

- (क) ऋण का पुर्न भुगतान एवं सूद का भुगतान 10 (दस) बराबर वार्षिक किस्तों में होगा । इसकी पहली किस्त की अदायगी ऋण निकासी की तिथि से एक साल बाद से प्रारम्भ होगी ।
- (ख) इस राशि पर 13 प्रतिशत की दर से वार्षिक ब्याज देय होगा ।
- (ग) समय पर भुगतान नहीं करने पर 2.5 प्रतिशत की दर से विलम्ब दंड देय होगा ।
- (घ) समय पर भुगतान करने पर ब्याज दर में  $1/4$  (चौथाई) प्रतिशत की छूट होगी ।

5. उक्त राशि की निकासी बजट शीर्ष -6801 - बिजली परियोजनाओं के लिए कर्ज-राज्य योजना -800- विद्युत बोर्ड के लिए अन्य कर्ज 0105 बिहार राज्य जल विद्युत निगम को ऋण (नाबार्ड) मांग संख्या-10 विपत्र कोड सं०-6801008000105 के अंतर्गत वित्तीय वर्ष 2006-07 में उपबंधित राशि से विकलनीय होगा ।

6. इस राशि की निकासी मुख्य विद्युत अभियन्ता के सचिव (प्रा०) उर्जा विभाग द्वारा सचिवालय कोषागार, सिंचाई भवन, पटना से कर बैंकर्स चैक/बैंक ड्राफ्ट के माध्यम से बिहार राज्य जल विद्युत निगम को भुगतान किया जायेगा ।

अतः अनुरोध है कि 17,75,60,000/- (सतरह करोड़ पच्चहत्तर लाख साठ हजार) रुपये का प्राधिकार पत्र निर्गत करने की कृपा की जाय ।

बिहार राज्यपाल के आदेश से,

ह०/-

सरकार के अपर सचिव,  
उर्जा विभाग ।

ज्ञापाक-

पटना, दिनांक

प्रतिलिपि - कोषागार, पदाधिकारी, सचिवालय कोषागार, सिंचाई भवन, पटना को सूचनार्थ एवं आवश्यक कारवाई हेतु प्रेषित ।

ह०/-

सरकार के अपर सचिव,  
उर्जा विभाग ।

(3)

ज्ञापांक- 2071

प्रतिलिपि - वित्त विभाग, आय व्यय शाखा / वित्त विभाग बड़ा कोषागार / प्रमुख निदेशक, बिहार राज्य जल विद्युत निगम लि०, सोन भवन, पटना / मुख्य विद्युत अभियन्ता के सचिव (प्रा०) उर्जा विभाग, पटना / लेखा शाखा (तीन प्रतियों में) उर्जा विभाग / योजना बजट के प्रभारी सहायक को सूचनार्थ एवं आवश्यक कारवाई हेतु प्रेषित ।

2/6/06  
सरकार के अपर सचिव,  
उर्जा विभाग ।





विहार सरकार,  
ऊर्जा विभाग।

4334

पत्रांक -

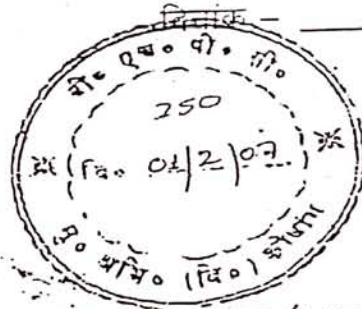
प्र०-2/हाईडल-नवी०-आधु०-11/05

सेवा में

अनौपचारिक रूप  
से परामर्शित।

महालेखाकार, विहार,  
वीरचन्द पटेल मार्ग, पटना।

वित्त विभाग, विहार, पटना।



वित्तीय वर्ष 2006-07 में कटैया जल विद्युत गृह (4 x 4.8 मेगावाट) का नवीनीकरण/आधुनिकीकरण के लिए राज्य योजना के अन्तर्गत 3500.00 लाख (पैंतीस करोड़) रुपये की योजना की स्वीकृति एवं 3284.00 लाख (बत्तीस करोड़ चौरासी लाख) रुपये ऋण की निकासी की स्वीकृति।

उपर्युक्त विषय के संबंध में कहना है कि राज्य सरकार ने कोशी (कटैया)

जल विद्युत गृह के जीर्णोद्धार, नवीनीकरण हेतु 3500.00 लाख (पैंतीस करोड़) रुपये की योजना की स्वीकृति के साथ जना के कार्यान्वयन हेतु वर्तमान वित्तीय वर्ष 2006-07 में ऋण के रूप में 3284.00 लाख (बत्तीस करोड़ चौरासी लाख) रुपये की निकासी की स्वीकृति प्रदान की है, शेष राशि का वहन विहार राज्य जल विद्युत निगम अपने आंतरिक स्रोतों से करेगा। इस योजना का कार्यान्वयन वित्तीय वर्ष 2006-07 एवं 2007-08 के अन्तर्गत किया जाएगा।

2. वित्त विभाग परिपत्र संख्या एफ-4-3881 दिनांक 07.07.1989 के अनुसार पुराने बकाये एवं सूद पर 25% की कटौती विहार राज्य जल विद्युत निगम लि०, पटना की वित्तीय स्थिति को देखते हुए नहीं करने की छूट प्रदान की जाती है। ऋण की अन्य शर्तें निम्नवत् होंगी :-

- ऋण का पुनर्भुगतान एवं सूद का भुगतान 10 (दस) बराबर किश्तों में होगा। इसकी पहली किश्त की अदायगी ऋण निकासी की तिथि से एक साल बाद से प्रारम्भ होगी।
- इस राशि पर 13% की दर से वार्षिक ब्याज देय होगा।
- समय पर भुगतान नहीं करने पर 2.5% की दर से विलम्ब दण्ड देय होगा।
- समय पर भुगतान करने पर ब्याज दर में 1% (चौथाई) प्रतिशत छूट देय होगा।

3. यह राशि बजट शीर्ष- मुख्य शीर्ष-6801-विद्युत परियोजनाओं के लिए कर्ज- राज्य योजना-800-विद्युत योडों के लिए अन्य कर्ज-0104-विहार राज्य जल विद्युत निगम को ऋण मांग संख्या-10, विपत्र कोड संख्या पी-6801008000104 के अन्तर्गत वित्तीय वर्ष 2006-07 के आय-व्यय में उपबंधित राशि से विकलनीय होगा।

5.

विभाग द्वारा सचिवालय कोषागार, सिंचाई भवन, पटना से पत्र आया है कि  
के बाद इसका भुगतान बैंकरों से ए/बैंक ड्राफ्ट के माध्यम से बिहार राज्य जल विद्युत  
निगम लि०, पटना को भुगतान किया जाएगा।

अनुरोध है कि 3,44.00 लाख (बत्तीस करोड़ चौरासी लाख) रुपये का  
प्राधिकार पत्र यथाशीघ्र निर्गत करने की कृपा की जाय।

बिहार राज्यपाल के आदेश से,

ह०/-  
(राजेश गुप्ता)

ज्ञापक - \_\_\_\_\_/ दिनांक - \_\_\_\_\_/ प्रतिनिधि कोषागार पदाधिकारी, सचिवालय कोषागार, सिंचाई भवन, पटना को  
सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

ह०/-  
(राजेश गुप्ता)  
सरकार के सचिव।

ज्ञापक - 360/ दिनांक - 29/11/07/ प्रतिनिधि सचिव, योजना एवं विकास विभाग, बिहार, पटना/ वित्त विभाग बजट  
शाखा/ विभागीय बजट शाखा/ विभागीय योजना शाखा/ मुख्य विद्युत अभियन्ता के सचिव  
(प्रावधिक), ऊर्जा विभाग, बिहार, पटना/ प्रबन्ध निदेशक, बिहार राज्य जल विद्युत निगम,  
सिंचाई भवन, पटना को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

(राजेश गुप्ता)  
सरकार के सचिव।  
02/11/07



प्रबंध निदेशक  
जल विद्युत निगम  
सिंचाई भवन पटना



विहार सरकार  
वित्त विभाग



आर०आई०डी०एफ० XIII - 09/06-

पटना (निवासी)

सेवा में,

महालेखाकार, बिहार,  
वीरचंद पटेल पथ, पटना।

विषय:-

बिहार राज्य जल विद्युत निगम लि०, पटना के निवासी मूर, सुभाषा  
जिलान्तर्गत चार लघु जल विद्युत परियोजनाओं की पूरा करने के लिए राशियां  
योजना से राज्यांश के रूप में रु० 1,50,72,000/- (एक करोड़ पचास  
लाख बहत्तर हजार) की स्वीकृति।

महाशय,

निदेशानुसार उपर्युक्त विषय के संबंध में कहना है कि राज्यादेश सं०.....

दिनांक- 26/2/09 के द्वारा बिहार राज्य जल विद्युत निगम लि०, पटना के निवासी  
सुभाषा जिलान्तर्गत चार लघु जल विद्युत परियोजना यथा (घोया, कटुआ, करवल, रसम) का निर्माण  
निर्माण हेतु कुल रु० 3014.35 लाख की लागत पर योजना की स्वीकृति प्रदान की गई तथा  
नावाड द्वारा आर०आई०डी०एफ० XIII के अन्तर्गत रु० 2863.63 लाख ऋण की स्वीकृति नावाड  
की ऋण की शर्तों के आधार पर दी गई है। शेष रु० 150.72 लाख राज्य सरकार द्वारा राज्यांश  
के रूप में बिहार राज्य जल विद्युत निगम को उपलब्ध करवाया जा रहा है।  
निगम को राज्यांश के रूप में रु० 1,50,72,000/- (एक करोड़ पचास लाख बहत्तर हजार) राशि  
की स्वीकृति प्रदान की जाती है।

3. वित्त विभाग के परिपत्र सं० एफ० 4/3881 दिनांक 17/7/08 के अनुसार मूर  
यकार एवं सूद का 25 प्रतिशत की कटौती बिहार राज्य जल विद्युत निगम, पटना की वित्तीय  
स्थिति को देखते हुए नहीं करने की छूट प्रदान की जाती है।

4. ऋण की अन्य शर्तें निम्नवत होगी:-  
(क) ऋण का पुनर्भुगतान एवं सूद का भुगतान 10 (दस) वार्षिक वार्षिक किश्तों में  
होगा। इसकी पहली किश्त की अदायगी ऋण निकासी की तिथि से एक साल बाद से प्रारंभ  
होगी।

(ख) ऋण पर 10 प्रतिशत की दर से वार्षिक ब्याज देना होगा।  
(ग) समय पर भुगतान नहीं करने पर 25 प्रतिशत की दर से ब्याज देना होगा।

(घ) समय पर भुगतान करने पर ब्याज दर में 1/4 (चौथाई) प्रतिशत की छूट  
होगी।

5. उक्त राशि की निकासी खात नम्बर 6601-विजली परियोजना के लिए  
कॉर्ड-सब मुख्यशोध-00-लघु, सामान्य-पनविजली उत्पादन-राष्ट्रीय-राज्य-राज्यांश-  
उपशोध 0105-बिहार राज्य जल विद्युत निगम को ऋण- (नावाड) को देना होगा।

19/10/09  
12/03/09





कोड-पी० 6801002010105 के अन्तर्गत वित्तीय वर्ष 2008-09 में उपबंधित राशि विकलनीय होगा।

6. इस राशि की निकासी मुख्य विद्युत अभियन्ता के सचिव (प्रादेशिक), ऊर्जा विभाग के द्वारा सचिवालय कोषागार, सिंचाई भवन से कल बैंक ऑफ़/बैंकर्स चेक के माध्यम से बिहार राज्य जल विद्युत निगम लि०, पटना को भुगतान किया जायेगा।

7. वित्त विभाग के परिपत्र सं०-7355 दिनांक-05.10.07 के अनुसार इसमें प्राधिकार पत्र की आवश्यकता नहीं है।

8. वित्त विभाग के गै०स०प्रे०स०-39/एफ० 8 दिनांक-29.01.09 द्वारा सचिका सं० प्र०2/आर०आई०डी०एफ० XIII-09/06 के पृ० 42-44 दि० पर राज्यादेश पर वित्त विभाग की सहमति प्राप्त है।

बिहार राज्यपाल के आदेश से

ह०/-

(एस० एन० मिश्र)

सरकार के उप सचिव

पटना दिनांक-

ज्ञापांक-

प्रतिलिपि:- कोषागार पदाधिकारी, सचिवालय कोषागार, सिंचाई भवन, पटना को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

ह०/-

(एस० एन० मिश्र)

सरकार के उप सचिव

पटना दिनांक-28/2/09

ज्ञापांक-

574

प्रतिलिपि:- वित्त विभाग, आय व्यय शाखा/वित्त विभाग, डाटा कोषागार/प्रमत्त निदेशक, बिहार राज्य जल विद्युत निगम लि०, सचिवालय, पटना/मुख्य विद्युत अभियन्ता के सचिव (प्रादेशिक), ऊर्जा विभाग, पटना/लेखा शाखा (दो प्रतियां), ऊर्जा विभाग, पटना/योजना प्रबन्धन शाखा के प्रभारी सहायक, ऊर्जा विभाग, पटना को सूचना एवं आवश्यक कार्रवाई हेतु प्रेषित।

(एस० एन० मिश्र)

सरकार के उप सचिव

पटना





बिहार सरकार  
ऊर्जा विभाग

पत्रांक-प्र2/ज0 वि0 नि0-05/09

पटना, दिनांक

सेवा में,

महालेखाकार बिहार,  
वीरचन्द्र पटेल पथ, पटना।

विषय:-बिहार राज्य जल विद्युत निगम लि0, पटना के द्वारा अररिया जिलान्तर्गत फारबीसगंज प्रखंड के बथनाहा फेज-1 (4X2 मे0 वा0) लघु जल विद्युत परियोजना के निर्माण हेतु राज्य याचना व राज्यांश के रूप में वित्तीय वर्ष 2009-10 में रू0 1287.68 लाख (बारह करोड़ सतासी लाख अड़सठ हजार रू0) बिहार राज्य जल विद्युत निगम लि0, पटना को ऋण की स्वीकृति।

आदेश:- स्वीकृत।

निदेशानुसार उपर्युक्त विषय के संबंध में कहना है कि बिहार राज्य जल विद्युत निगम लि0, पटना द्वारा अररिया जिलान्तर्गत फारबीसगंज प्रखंड के बथनाहा फेज-1 (4X2 मे0 वा0) लघु जल विद्युत परियोजना के निर्माण हेतु कुल रू0 6937.35 लाख (उनहत्तर करोड़ सैंतीस लाख पैंतीस हजार) के योजना की प्रशासनिक स्वीकृति राज्यादेश संख्या- 1362 दिनांक 27/3/10 द्वारा प्रदान की गई है तथा इसके विरुद्ध नाबार्ड द्वारा आर0आई0डी0एफ0 XV के अन्तर्गत स्वीकृत ऋण रू0 5649.67 लाख (छप्पन करोड़ उनचास लाख सड़सठ हजार रू0) की स्वीकृति प्रदान की गई है। शेष रूपये 1287.68 लाख राज्य सरकार को राज्यांश के रूप में बिहार राज्य जल विद्युत निगम लि0, पटना को उपलब्ध कराया जाना है।

- उक्त आलोक में राज्य सरकार ने वित्तीय वर्ष 2009-10 में बिहार राज्य जल विद्युत निगम लि0, पटना को राज्यांश के रूप में रूपये 1287.68 लाख (बारह करोड़ सतासी लाख अड़सठ हजार रू0) के ऋण की स्वीकृति प्रदान की है।
- वित्त विभाग के परिपत्र सं0-एफ0 4/3881 दिनांक 07.07.89 के अनुसार पुराने बकाए एवं सूद का 25 प्रतिशत की कटौती बिहार राज्य जल विद्युत निगम लि0, पटना की वित्तीय स्थिति को देखते हुए नहीं करने की छूट प्रदान की जाती है।

4. ऋण की अन्य शर्तें निम्नवत् होगी :-

- ऋण पुनर्भुगतान एवं सूद का भुगतान 10 (दस) बराबर वार्षिक किस्तों में होगी। इसकी पहली किस्त की अदायगी ऋण की निकासी की तिथि से एक वर्ष के बाद प्रारम्भ होगी।
- इस ऋण पर 13 प्रतिशत की दर से वार्षिक ब्याज देय होगा।
- समय पर भुगतान नहीं करने पर 2.5 प्रतिशत की दर से विलम्ब दण्ड सूद देय होगा।
- समय पर भुगतान करने पर ब्याज दर में 1/4 (चौथाई) प्रतिशत की छूट होगी।



5. उक्त राशि की निमासी बजट मुख्य शीर्ष 6801 बिजली परियोजनाओं के लिए कर्ज उप मुख्य शीर्ष-00- लु शीर्ष-201- पन बिजली उत्पादन-समूह शी - राज्य योजना- उप शीर्ष-0105- बिहार राज्य जल विद्युत निगम को ऋण (नाबाई)- मांग सं०-10- विपत्र कोड- पी० 680100201-0105 विषय शीर्ष 6501 ऋण एवं अग्रिम के अन्तर्गत वित्तीय वर्ष-2009-10 में उपबंधित राशि से दि हलनीय होगा।

6. इस राशि की निमासी मुख्य विद्युत अभियन्ता के सचिव (प्रावैधिक), ऊर्जा विभाग पटना के द्वारा सचिवालय कोषागार, सिंचाई भवन, पटना से कर इसका भुगतान बैंक ड्राफ्ट/बैंक ऑर्डर के माध्यम से बिहार राज्य जल विद्युत निगम लि०, पटना को किया जाएगा।

7. वित्त विभाग के परिपत्र सं०-7355 दिनांक 05.10.07 के अनुसार इसमें प्राधिकार पत्र की आवश्यकता नहीं है।

8. वित्त विभाग के रायरी संख्या 1266/सचिव (व्यय) दिनांक 20.03.2010 द्वारा संचिका संख्या-प्र२/ज००१०-05/09 में वित्त विभाग की सहमति प्राप्त है।

बिहार राज्यपाल के आदेश से  
ह०/-

(धर्मदेव प्रसाद सिंह)  
सरकार के संयुक्त सचिव,  
ऊर्जा विभाग।

पटना दिनांक

ज्ञापांक-

प्रतिलिपि:-कोषागार पदाधिकारी, सचिवालय कोषागार, सिंचाई भवन, पटना को सूचनार्थ एवं आवश्यक कार्यार्थ प्रेषित।

ह०/-

सरकार के संयुक्त सचिव।

पटना दिनांक 27/3/10

ज्ञापांक- 1363

प्रतिलिपि:- वित्त विभाग, आय व्यय शाखा/वित्त विभाग, डाटा कोषागार शाखा/ प्रबंध निदेशक बिहार राज्य जल विद्युत निगम लि०, पटना को सूचनार्थ एवं आवश्यक कार्यार्थ प्रेषित।

(सुनील कुमार)  
सरकार के संयुक्त सचिव।



प्रबंध निदेशक  
जल विद्युत निगम लि०  
सैन भवन पटना





बिहार सरकार  
ऊर्जा विभाग

पटना, दिनांक

पत्रांक-27/ज.वि.नि.डागमारा-06/06-

तारीख

सेवा में,

र. 11

महालेखागार,  
बिहार, पटना।

**विषय:-** सुपौल जिलान्तर्गत डागमारा जल विद्युत परियोजना 126 मेगावाट के विस्तृत परियोजना प्रतिवेदन बनाने हेतु बिहार राज्य जल विद्युत निगम लि०, पटना को वित्तीय वर्ष 2009-10 में रु० 500.00 लाख (पाँच करोड़ रुपये) ऋण के रूप में स्वीकृत करने के संबंध में।

**आदेश:-** स्वीकृत।

उपर्युक्त विषय के संबंध में सूचित करना है कि राज्य सरकार द्वारा सुपौल जिलान्तर्गत डागमारा जल विद्युत परियोजना 126 मेगावाट के विस्तृत परियोजना प्रतिवेदन बनाने हेतु बिहार राज्य जल विद्युत निगम लि०, पटना को वित्तीय वर्ष 2009-10 में रु० 500.00 लाख (पाँच करोड़ रुपये) ऋण की स्वीकृति प्रदान की गई है।

2. चूँकि यह राशि बिहार राज्य जल विद्युत निगम लि० को ऋण के रूप में स्वीकृत की जा रही है, अतः वित्त विभाग के परिपत्र संख्या-F/4/31 दिनांक 07.07.1989 के अनुसार पुराने बकाए ऋण एवं सूद मद में 25 प्रतिशत की कमी बिहार राज्य जल विद्युत निगम लि० को वित्तीय स्थिति को देखते हुए नहीं करने की छूट प्रदान की जाती है।

ऋण की अन्य शर्तें निम्न प्रकार होगी:-

(क) ऋण का पुनर्भुगतान एवं सूद का भुगतान 10 (दस) बराबर वार्षिक किस्तों में होगा। इसकी पहली किस्त की अदायगी ऋण निकासी की तारीख से एक साल बाद प्रारम्भ होगी।

(ख) इस राशि पर 13 प्रतिशत की दर से वार्षिक ब्याज देय होगा।

(ग) समय पर भुगतान नहीं करने पर 2.5 प्रतिशत की दर से होलमय दण्ड सूद देय होगा।

(घ) समय पर भुगतान करने पर ब्याज दर में 1/4 (चौथाई) प्रतिशत छूट होगी।  
3. यह राशि मुख्यशीर्ष 6801-विजली परियोजनाओं के लिए कर्ज उप मुख्यशीर्ष 00 तथा शीर्ष-800 विद्युत बोर्ड के लिए अन्य कर्ज-उपशीर्ष-0104- बिहार राज्य जल विद्युत निगम को ऋण विपणन कोड पी.-6801008000104 गांग संख्या-10 विभाग शीर्ष 5501. ऋण एवं अग्रिम के अन्तर्गत वित्तीय वर्ष 2009-10 में तृतीय अनुपूर्वक में आवंटित राशि से विकलनीय होगा।

4. इस राशि की निकासी मुख्य विद्युत अभियन्ता के अधिव (प्राथमिक), ऊर्जा विभाग, बिहार, पटना के द्वारा त्रिचिवालय कोषागार, सिंचाई भवन, पटना से कर पर भुगतान बैंक ड्राफ्ट/बैंकर्स चेक के माध्यम से बिहार राज्य जल विद्युत निगम लि० को उनके द्वारा प्राधिकृत पदाधिकारी को किया जाएगा।

5. वित्त विभाग के परिपत्र संख्या-7355 दिनांक 05.10.07 के अनुसार इसमें प्राधिकार पत्र की आवश्यकता नहीं है।

6. राज्यादेश में वित्त विभाग के डागरी संख्या 1670 दिनांक 7.03.10 (सचिव संसाधन) द्वारा सहमति प्राप्त है।

बिहार राज्यपाल के आदेश से,

हो/-

संयुक्त सचिव, ऊर्जा विभाग।

ज्ञापांक- प्र.2/ज.वि.नि.डागमारा-06/08-

पटना, दिनांक

**प्रतिलिपि:-** कोषागार पदाधिकारी, सचिवालय कोषागार, सिंचाई भवन, पटना को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

हो/-

संयुक्त सचिव, ऊर्जा विभाग।

ज्ञापांक- प्र.2/ज.वि.नि.डागमारा-06/08-1376

पटना, दिनांक 30/3/10

**प्रतिलिपि:-** वित्त विभाग, वजट शाखा/प्रशाखा- 8, वित्त विभाग/मुख्य विद्युत अभियन्ता के सचिव (प्रावैधिक), ऊर्जा विभाग/वजट शाखा, ऊर्जा विभाग, पटना/लेखा शाखा (तीन प्रतियों में), ऊर्जा विभाग, पटना/प्रबन्ध निदेशक, बिहार राज्य जल विद्युत निगम, पटना को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

30/3/10

संयुक्त सचिव, ऊर्जा विभाग।

1824  
30/3/10



Annexure - II

BARUKI

CHAPTER 1  
ESTIMATES OF COSTS

suggested by the Revenue Department of Govt. of Bihar for Sone Modernisation Project, and as adopted for Sone Western Link Canal H.E. Project. Provisions for solatium charges, interest charge and land acquisition establishment and legal charges, compensation for standing crops have been made under this sub-head.

C-Works.

No provision have been made under this sub-head as the head works i.e. barrage is already existing.

D- Regulator

A sum of Rs. 1.25 lacs has been provided under this sub-head for improving the lifting arrangement of the existing gates at fall at RD 33.80 of Sone Western Link Canal. These gates are at present manually operated. Their operation is to be made automatic and is to be linked with the operation of the power House, so that in case of sudden closure of the power house, these gates are opened automatically and allow the canal water to flow down stream.

G. Bridge  
H. Escape  
I. Navigation

No provision has been made under these sub-heads.

J-Power Plant/Accessories (Civil Works)

A sum of Rs. 202.46 lacs has been provided under this sub-head which includes the cost of following components :

1. Power Channel:

The estimated cost of the power (by-pass) channel is Rs. 49.05 lacs. This includes the cost of excavation and lining of the power channel as well the cost of a D.S.B. bridge at Rs. 0.447 and



## the Head Regulator of Nawhar Distributary

### Power House

the cost of entire Power House building including the PCC, RCC in foundation, power house gates, draft tube gates, trash rack etc.

### iii. Tail Race

The estimated cost of the tail race is Rs. 8.95 lacs. This includes the cost of excavation, and lining of the tail race.

### iv. Escape

The estimated cost of the escape arrangement is Rs. 26.26 lacs. This includes the cost of excavation of the escape channel, the cost of escape regulator-cum-aqueduct (to cross the existing Nawhar Distributary over the escape channel) and the cost of rapid proposed at the out fall of the Escape channel into the river.

### K-Building

Provision for the cost of permanent as well as temporary buildings have been made on the basis of plinth area rate. The total estimated cost of the buildings is Rs. 42.0 lacs. Since these buildings will be utilised for the construction of the Sone Eastern Link Canal H.E. Project also, 50% of the estimated cost of buildings have been charged to Sone Western Link Canal H.E. Project and the balance 50% to the Sone Eastern Link Canal H.E. Project. 15% of the cost of temporary buildings has been taken under the sub-head "Receipt and Recoveries."



L-Earth Work.

No Provision has been made under this sub-head as no work is required to be done. The earth work involved in excavation of Power Channel, tail race channel and escape channel has charged under the sub-head J-Power Plant/Appurtenance, as suggested in the Guide lines prepared by CWC.

M-Plantation

A sum of Rs. 0.75 lacs has been provided under this sub-head.

N-Tanks & Reservoirs.

No provision is required under this sub-head.

O-Miscellaneous

A sum of Rs. 11.0 lacs has been provided under this sub-head. The provision includes the cost of electrical and sanitary installations, water supply in the camp and their maintenance during construction, running and maintenance of inspection vehicles, Provisions have also been made for security arrangement, fire fighting, medical assistance and maintenance of telephone, etc. The provision also includes the cost of visit of dignitaries, preparation of technical records and reports, inaugural ceremonies.

P-Maintenance.

A sum of Rs. 2.75 lacs has been provided under this sub-head which is approximately 1% of I-Works less the cost of A-Preliminary, B-Land and Q-Sp. I & P.

Q-Special Tools and Plant

Provision for procurement of earth moving equipments such as dragline, dumpers, dozers, sheep foot roller, portable compressor, tractor trailer,



pneumatic tyred travelling crane and pumps for dewatering has been made, Provision under this sub-head also includes, cost of inspection vehicles, such as jeeps and pick van.

The cost of Q-Sp. T & F. has been worked out as 25% of the total cost of equipments and 100% of the cost of the cost of Inspection vehicle. 75% of cost of equipments has been charged to works recoverable as hourly use rate.

The receipt and recoveries has been taken as 75% of the cost of equipments chargeable under the sub-head Q-Spl. T & P. (which is 25% of the capital cost of the equipments).

Since the work is very small and the equipments proposed to be procured for this project will not be fully utilise, it is proposed to use the equipments proposed to be procured for the construction of Sone Western Link Canal H.E. Project, which is located very close to this project and the work of which will be staggered suitably to make best use of these equipments. Accordingly 50% of the cost of these equipments will be charged to Sone Western Link Canal H.E. project and balance 50% will be charged to Sone Eastern Link Canal H.E. Project.

#### R-Communication.

A sum of Rs. 1.0 lacs has been provided for the improvement of approach to quarry and Power House.

#### Y-Losses on Stock and Unfinished items

A sum of Rs. 0.70 lacs has been provided under this sub-head which is approximately 0.25% of the cost of I-Works less A-Preliminary, B-Land and Q-Special T & P.



I-Works

The total cost of I-Works for civil works is  
Rs. 261.35 lacs.

II-Establishment

A sum of Rs. 20.90 lacs has been provided for  
establishment @ 8% of I-Works less cost of  
B-Land.

III-Ordinary Tools & Plant

A sum of Rs. 2.61 lacs which is 1% of I-Works has  
been provided under this sub-head.

IV- Suspence

No provision has been made under this sub-head.

V-Receipt & Recoveries on Capital Account

The total provision under this sub-head is  
Rs. 10.54 lacs. This include Rs. 7.49 lacs for  
resale of equipments under the sub-head Q-6p.  
T & P. and Rs. 3.15 lacs for resale of salvaged  
materials of temporary buildings.

Indirect Charges

The provision under this sub-heads includes the  
abatment of land revenue @ 5% of the cost of the  
land and provision @ 1% of I-Works on account of  
audit and accounts charged. The total provisions  
is Rs. 2.89 lacs.



CHAPTER 2  
ABSTRACT OF COST



SONE ESTERN LINK CANAL H.E. PROJECT

GENERAL ABSTRACT OF COST

Cost of Civil Works .....	277.11
Cost of electrical and Mechanical system .....	389.00
Total	Rs. 666.11



# Sone Western Link Canal Hydro-electric project.

## General abstract of Cost for Civil Works.

### Sub head

Amount in Rs. lacs

A. Preliminary	Rs. 2.75
B. Land.	Rs. 5.70
E. Fall	Rs. 1.25
J. Power plant/Appurtenance ( civil )	
(i) Power channel with structures &c.	Rs. 44.06
(ii) Tail race Channel with structures	Rs. 8.95
(iii) Power House (civil) Works.	Rs. 123.19
(iv) Escape channel with Structures	Rs. 26.26
	<u>Rs. 202.46</u>
K. Building	Rs. 21.0
M. Plantation	Rs. 0.75
O. Miscellaneous	Rs. 11.00
P. Maintenance 1% I works less (cost of A-preliminary, B. Land and as sp. T & P)	Rs. 2.75
Q. Sp. T & P	Rs. 11.69
R. Communication	Rs. 1.00
Y. Less in stock & unforeseen items @ 0.25% of I works.	Rs. 0.70
Total I-Work	<u>Rs. 261.35</u>

### Direct Charges.

I- Works	Rs. 261.35
II- Establishment @ 8 % of I Works less cost of B- Land...	Rs. 20.90

Cont'd.....



III. Ordinary Tools & plant 8 1/2 of 1-10000

IV. Expenses

N. Nil

V. Receipt & Recoveries

(i) Receipt of Q-50000 (-) N. 7.45 lacs

(ii) Receipt of Temp. Building 4.5.18

Total (-) 10.64 lacs (-) N. 10.64 lacs.

Total (+)

Charge-Total

N. 174.72 lacs.

1. 10.64 lacs

(i) Capitalized value of equipment  
at 10% premium 1 1/2 of cost of  
Building N. 0.23

(ii) Audit & Accounts charges of  
1 1/2 of 2-Months N. 2.50

N. 2.37 lacs N. 2.37 lacs.

Total Cost for all works  
(Planned & un-planned)

N. 177.09 lacs.



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Details of Cost Under the Sub-Head,

A- Preliminary

<u>Sl.No.</u>	<u>Particulars.</u>	<u>Amount in Rs. lacs.</u>
1.	Detailed alignment survey of power Channel, Tail race, Escape Channel including dogbelling, Fixing of R.D. pillars.	L.S. 10,000=00
2.	Establishing and fixing Bench Marks.	5,000=00
3.	Digging Test pits along Canal alignment and at structure sites	10,000=00
4.	Bearing pressure test at power House site & Canal structure sites at 5 nos. site	20,000=00
5.	Bore Hole at power House site	15,000=00
6.	Establishment of raingages and their running charges	10,000=00
7.	Geological testing & report	5,000=00
8.	Testing of water quality	5,000=00
9.	Silt observation	5,000=00
10.	Stationery for preparation of Report	5,000=00
11.	Camp equipment	10,000=00
12.	Charges for consultants	1,00,000=00
13.	Environmental and ecological study	10,000=00
14.	Purchase of Technical Books	5,000=00
15.	Model Experiments.	45,000=00
6.	Training of Engineers	15,000=00

Total 2,75,000

Say 2.75 lacs.

Details of Cost Under the Sub-Head:B-Land.

<u>Particulars.</u>	<u>Quantity</u>	<u>Rate</u>	<u>Unit</u>	<u>Amount (Rs.)</u>
1. Permanent Land for Excavation  (no extra land is required for tail race or escape channel)	5	62,500 per Ha		3,12,500=00
2. Permanent Land for Construction of camps.	2 Ha	62,500 Per Ha		1,25,000=00
				<u>4,37,500=00</u>
3. Compensation for 50% standing crops ie 3.5 Ha @ 2500 per Ha				8750=00
4. Demarcation, degbelling and fixing of Boundary pillars including joint verification	L.S			5,000.00
5. Solatium charges @ 15%				63,625=00
6. Interest charge @ 6% on 25% payments for two years.				13,125=00
7. Land acquisition establishment @ 4 1/2%				27,343=75
8. Legal charges	L.S			15,000=00
				<u>Total 5,72,343=75</u>

Say 5.70 lacs only.



J- power plant/Appurtenances (Civil works)

General Abstract of Cost.

<u>Particulars.</u>	<u>Cost in Rs. lacs.</u>	
1. Power Channel		
(i) Earth Work	Rs. 13.71	
(ii) Lining	Rs. 20.41	
(iii) Pucca structure		
(a) Bridge	Rs. 5.94	
(b) Head Regulator	Rs. 4.32	
Total	Rs. 44.06	Rs. 44.06
2. Power House	Rs. 123.19	Rs. 123.19 la
3. Tailrace channel		
(i) Earth Work	Rs. 3.52	
(ii) Lining	Rs. 5.43	
Total	Rs. 8.95	Rs. 8.95 lacs
4. Escape		
(i) Earth Work	Rs. 1.71	
(ii) Pucca structure	<del>XXXXXX</del>	
(a) Escape Regulator cum aqueduct	Rs. 23.74	
(b) Rapid	Rs. 0.31	Rs. 23.74
Total	Rs. 25.26	Rs. 25.26
Total for power plant		Rs. 202.46 la

Details of Cost under the Sub-Head.

K- Building

1. Residential Buildings for

Executive Engineer	1 no. @ 150 M <sup>2</sup>	= 150 M <sup>2</sup>
Assistant Engineer	4 nos. @ 90 M <sup>2</sup>	= 360 M <sup>2</sup>
Junior Engineer	12 nos. @ 60 M <sup>2</sup>	= 720 M <sup>2</sup>
Operator/Asstt.		
Controller	12 nos. @ 50 M <sup>2</sup>	= 600 M <sup>2</sup>
Grave iv Staff	12 nos. @ 40 M <sup>2</sup>	= 480 M <sup>2</sup>
		<hr/>
		= 2310 M <sup>2</sup> @ Rs. 10,000 Per M <sup>2</sup> ✓

Total for Residential buildings = Rs. 23,10,000.00

2. Non Residential Building (Temporary Buildings)

(i) Office	1x33x13 = 429 m <sup>2</sup> @ Rs. 300 per M <sup>2</sup>	3,43,200.00
(ii) Store	3x33x13 = 1237 m <sup>2</sup> @ Rs. 700 per M <sup>2</sup>	2,00,900.00
(iii) Rest House	1 no. 160 M <sup>2</sup> @ 1200 per M <sup>2</sup>	1,92,000.00
(iv) Permittery 20 Units @ 25 M <sup>2</sup>		
	= 500 M <sup>2</sup> @ Rs. 900 per M <sup>2</sup>	4,50,000.00
		<hr/>
		13,86,100.00

Total for Residential & Non residential Rs. 41,96,100.00

Say Rs. 42 lacs.

Note:- Schools and Hospital are already existing near the project site and hence no provision for the same has been made)

Resale/value of temp. building @ 15%	62,94,150.00
50% of the total cost will be chargeable to one western link canal NE projects & 50% of Same Eastern Link Canal NE Project.	6. 30
Cost Chargeable to	
one eastern Link Canal project..	Rs. 21.00 lacs.
Receipt and recovering on account of resale of Temp. Buildings	Rs. 3.15 lacs.



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Details of Cost under the Sub Head.

0- Miscellaneous

<u>Particulars.</u>	<u>Amount in Rs. lacs.</u>
1. Capital Cost of	
(i) Electrification of Colony	0.40
(ii) Supply - over head tank	1.00
(iii) Sewage and drains.	0.50
(iv) Colony Road	1.00
2. Maintenance and <del>Revenue</del> Service	
(i) Electrification	0.25
(ii) Water Supply	0.25
(iii) Sewage	0.25
(iv) Medical Assistance	0.25
(v) Recreation	0.15
(vi) Security arrangement	0.15
(vii) Inspection Vehicles	3.00
(viii) Telephone	0.15
3. Other Items.	
(i) Visit of Dignatories	0.15
(ii) Technical Record, photographic record.	0.10
(iii) Inaugural ceremonies	0.20
(iv) Compensation to work men	0.50
(v) Model and exhibits	0.10
(vi) publicity and information centre	0.15
(vii) <del>Public</del> rest shed/Inspection Bungalow	1.50
(viii) Canteen facility	0.15
(ix) Co-operative stores	0.15
(x) Time keeping cabin	0.15
(xi) Community centre	0.30
(xii) Writing, of completion report and history of project.	0.25
Total	<u>11.05 lacs.</u>
Say 11 lacs.	

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Detail of Cost under the Sub-Head:

O- Special T & P.

A. Earth moving Equipments.

1. Dragline 1½ Cyd Capacity 1 no. @ Rs. 20.00 each Rs. 20.00 lacs.
2. Bulldozer - (15 HP) 1 no. @ Rs. 15.00 lac. Rs. 15.00 l.,  
each.
3. Dumper 15T 2 nos. @ Rs. 8.00 lac. Rs. 16.00 ,,  
each
4. Sheep foot roller single  
dram 2 nos. @ Rs. 0.30 lacs. Rs. 0.60 ,,  
each
5. Tractor (50 HP) 2 nos. @ Rs. 0.90 lacs. Rs. 1.80  
each

B. Compressor and pneumatic Equipment.

1. Portable air compressor (165  
cft) 1 no. @ Rs. 1.50 lakh Rs. 1.50  
each
2. Jack hammer 2 nos. @ Rs. 0.06 lakh Rs. 0.12  
each

C. Concrete Mixing and placing equipment

1. Concrete mixer (12/10 cft) 3 nos. @ Rs. 0.35 lakh Rs. 1.05
2. Vibrator 6 nos. @ Rs. 0.06 lakh Rs. 0.36

D. Haulage Equipments.

1. Tractor 2 nos. @ Rs. 2.25 lakh Rs. 4.50

E. Other equipment.

1. Pneumatic Tyred travelling  
crane- 20 ton capacity 1 no. @ Rs. 15.00 lakh Rs. 15.00
2. Pumps for degassing L.S. Rs. 3.00

F. Vehicles

1. Jeeps 3 nos. @ Rs. 0.80 lak. Rs. 2.40
  2. Pick up van 1 no. @ Rs. 1.00 lak. Rs. 1.00
- 
- Rs. 82.33



Total cost of Equipment & vehicle	Rs. 82.33 lakh.
Less: cost of Inspection vehicles (-)	Rs. 3.40 lakh.
Cost of equipment only	Rs. 79.93 lakh.
75% cost of Equipment chargeable to I works.	Rs. 59.94
Cost chargeable to Sub-head: Q Sp T & P	

20% cost of equipment	Rs. 19.98 lakh
100% cost of vehicle	Rs. 3.40 lakh
Total	Rs. 22.38 lakh.

Cost chargeable to receipt  
and recoveries

for equipment @ 75% 19.98 Rs. 14.98 lakh

These equipments of Q-Sp. T & P. will also be used for some  
Eastern Canal R.E. Project, so 50% of their cost will be  
chargeable to SWLC HE project and 50% to SELC HE project.

Cost of Q SP T & P chargeable to SWLC HE ~~11.69~~  
project.

= Rs. 11.69 lakh.

Cost if Q SP T & P ,, SELC HE ~~11.69~~ lakh.

Receipt & Recoveries under SWLC HE  
project

Rs. 7.49 lakh.

Receipt & Recoveries under SELC HE.  
project.

Rs. 7.49 lakh.

Cont'd.....

Details of Cost under the Sub-Head.

B- Communication.

<u>Particulars</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount. Rs. lacs.</u>
1. Cost of improving KKM the existing Road upto p. ... House site	1Km.	1.00	1.00
Total			1.00 lacs only.



11/15/77

JOHN BARTON LEAK CANAL HYDROELECTRIC PROJECT  
HAVER (2.3 1.65 MW.) DAM

ESTIMATE OF ELECTRICAL WORKS

ABSTRACT OF COST

Sl. No.	Items	Qty.	Rs. in lakhs.
1-A	Preliminary		
	K. ... .. energy expenses including design and consultancy charges, completion of Project report etc.	1.3.	1.00
2-A	Provision of Telephones, and arrangement of construction Power, colony lighting by extending 4 K.M. 11 KV line and 2 K.M. 11 KV line with Distribution Sub-Station etc.	1.3.	5.00
3.	Generating Plant & Equipment		
a)	Generating unit of 1650 Kw. 2.3 p.f., 3.3 KV., 3 phase, 50 Hz with bulb Turbine complete with allied equipments e.g. governing & lubricating oil system, P.D.C., AVR, excitation system unit control panels/desks, line terminal & N.G. cables, C.T.s, surge protection equipment, synchronizing equipment, other accessories & special tools & tackles etc. for site @ Rs. 6,000/- per K.W.	2(Two) Nos.	198.00
b)	Auxiliary Electrical equipment for Power Station (Annexure-A)	-	11.50
c)	Auxiliary equipments & services for Power Station (Annexure-B)	-	23.00
d)	Spare for above item 3a @ 5% (i.e. of Rs. 198.00 lacs)	-	9.90
e)	Spare for the above items 3b & c @ 5% (i.e. of Rs. 34.50 lacs)	-	1.72
f)	Erection & commissioning charges @ 10% of the above items 3a, b, & c, (i.e. of Rs. 232.5 lacs)	-	23.25
g)	1) Excise duty @ 8% 11) Sales Tax @ 4% 111) Insurance & transportation @ 5% Total @ 17% on the above items 3a, b, c, d & e (i.e. of Rs. 244.12 lacs)	-	41.50
Total Sl. No. 3=			314.32

Contd.....P/116

4.

Sub-Station Equipments:

a) Main equipment like transformers circuit breakers, Isolators etc. (Annexure-C)	...	8.22
b) Auxiliary Equipment & services for Switchyard (Annexure-D)	...	1.50
c) Spares for above items @ 5% (i.e. of Rs. 3.22 lacs)	...	0.41
d) Erection & commissioning charges @ 10% for the above items 4a & b (i.e. of Rs. 9.72 lacs)	...	0.97
e) i) Excise duty @ 8%		
ii) Sales Tax @ 4%		
iii) Insurance & transportation @ 5%		
Total @ 17% of the above items 4a, b, c (i.e. of Rs. 10.13)	...	1.42

Total Sl.No. 4 = 12.82

5.

Transmission line cost (Annexure-E)

... 1.10

Total (Sl.No. 1 to 5) = 334.74

6.

Procurement &amp; Inspection charges @ 2% of the above items 2, 3 (a, b, c, d, e &amp; g) &amp; 4 (a, b, c, &amp; e) (i.e. of Rs. 308.42 Lacs)

... 6.16

7.

Contingencies @ 3% of the above items at Sl.No. 3 to 6 (i.e. of Rs. 334.9 lacs)

... 10.04

8.

Power Plant &amp; electrical system (S.No. 3 to 7)

... 344.94

Direct charges:-I-Work

A. Preliminary	...	1.00
O. Miscellaneous	...	6.00
P- Maintenance @ 1% of (I-works & preliminary)	...	3.43
S. Power Plant & Electrical system	...	344.94
I. Losses on stock @ 0.25% of (I-Works & Preliminary)	...	0.86

I-Work 355.23

Contd....P/117



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 - (7) -

		Rs. in lacs
II.	Establishment @ 8% of I-Works	28.41
III.	Tools & Plants @ 1% of I-Works	3.55
IV.	Suspense	NIL
V.	Receipt & Recoveries	.. (-) 2.00

Total Direct charges: 385.17

Indirect charges:

Audit & Accounts charges @ 1% of I-Works.	.. 3.55
---	---------

Grand Total: 388.72

Say: Rs. 389.00 lacs

( Rupees three hundred eighty nine lacs )

Annexure-A.AUXILIARY EQUIPMENT FOR POWER STATION

	<u>Rs. in lacs</u>
1. 2 nos. Unit Auxiliary/ Station service Transformers each of 200 kVA capacity @ Rs.125/ kVA	0.50
2. L.T. , A.C. Switchgear for Power supply to Power House/ Switchyard auxiliaries.	2.50
3. D.C. equipment (Batteries, Battery charging units, distribution board etc.)	1.00
4. 33 KV Control Relay panels one (1) no. @ Rs.75,000/- per panel.	0.75
5. 3.3 kV Switch Board.	2.50
6. Synchronising Panel - 1 set.	0.50
7. Control Protection Equipment	3.50
8. Miscellaneous equipment & devices required for completion.	0.75
Total Rs.	11.50 lacs.



## Annexure-B.

AUXILIARY EQUIPMENT & SERVICES FOR POWER STATION.

	<u>Rs. in lacs.</u>
1. Power House E.C.T. Crane 15 T capacity:	6.00
2. Cable racks & Accessories.	0.50
3. Power & Control Cables.	1.25
4. Station Grounding	0.75
5. Testing equipment.	0.50
6. Workshop equipment (provision made in the Son western Link Canal III Project Dehri Scheme.	0.00
7. Station/ Cooling Water supply arrangement.	1.00
8. Fire Protection & CO <sub>2</sub> equipment.	1.00
9. Power House Illumination.	0.75
10. P.L.C.C.	3.00
11. Drainage & Dewatering system.	1.00
12. Ventilation & Air conditioning.	1.50
13. Lubricating & Governing Oil system comprising oil centrifuge pump, Transfer Pump, Tank Pipes & fittings.	1.75
14. Diesel Generating sets ( 2x50 <sup>kW</sup> / <sub>hr</sub> ) electrical panel (0.4 KV) 35,000/- per MW.	3.00
15. Compressed Air pipings.	1.00

Total: Rs. 23.00 lacs



AUXILIARY EQUIPMENT & SERVICES FOR POWER STATION.

	Rs. in lacs.
1. Power house E.O.T. Crane 15 T capacity:	6.00
2. Cable racks & Accessories.	0.50
3. Power & Control Cables.	1.25
4. Station Grounding	0.75
5. Testing equipment.	0.50
6. Workshop equipment (provision made in the Sone western Link Canal ME Project Dehri Scheme.	0.00
7. Station Cooling Water supply arrangement.	1.00
8. Fire Protection & Co <sub>2</sub> equipment.	1.00
9. Power House Illumination.	0.75
10. P.L.C.C.	3.00
11. Drainage & Dewatering system.	1.00
12. Ventilation & Air conditioning.	1.50
13. Lubricating & Governing Oil system comprising oil centrif. pump, Transfer Pump, Tank Pipes & fittings.	1.75
14. Diesel generating sets ( 2x50 <sup>KW</sup> MW) electrical panel (0.4 kW) @Rs.3000/- per kW.	3.00
15. Compressed Air pipings.	1.00

Total:

Rs. 23.00 lacs



MAIN EQUIPMENT FOR SWITCHYARDRs. in lakhs

1. 4.5 MVA, 3.3/ 33 kV, 3 phase step up Power Transformers including oil for first filling @Rs.125/- kVA = 8xxxxx	1 no.	5.62
2. 33 kV oil circuit breakers @Rs.1,50,000/-	1 no.	1.50
3. 33 kV Isolators without earthing switch @Rs.9,000/-	1 set.	0.09
4. 33 kV Isolators with earthing switch @Rs.10,000/-	1 set.	0.09
5. 33 kV P.Ts. @Rs.25,000/-	1 set.	0.25
6. 33 kV C.Ts. @Rs.7,000/-	3 nos.	0.21
7. 33 kV L.As. @Rs.7,000/-	3 nos.	0.21
8. Steel structure, Bus Bars, Hand wares, Insulators etc.	L.S.	0.25
9. Miscellaneous Equipment & devices required for completion.	L.S.	0.25

Total:

Rs. 8.22 lakhs

AUXILIARY EQUIPMENT & SERVICES FOR SWITCHYARD

		<u>Rs. in lacs.</u>
1. Fencing & Security	-	0.10
2. Drainage system	-	0.20
3. Gr. m & shielding	-	0.20
4. Cable ducts & Accessories-		0.20
5. Illumination	-	0.20
6. Foundations for structures and equipments.	-	0.35
7. Miscellaneous equipment & devices required for completion.	-	0.25

Total:

Rs. 1.50 lacs.  
~~xxxxxx~~



TRANSMISSION SYSTEM :

Rs. in lacs

1. 33 kV single circuit line with  
ACSR 'Dog' and 7/14 G-I continuous  
earth wire on P.S. pole (for one (1)  
single circuit lines of 2 km length)  
Rs. 55,000/- per circuit k.m.

= 1.10

Total: Rs. 1.10 lakh.

Abstract of Cost for excavation of power channel.

<u>Sl.No.</u>	<u>Item</u>	<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount.</u>
1.	Earth work in excavation in all kinds of soil with- in initial lead and initial lift as per drawing <del>xxxxxxxxxxxx</del> specification on an instruction of Engineer-in-charge.	M <sup>3</sup>	1,63,000	4.35	7,09,050.00
2.	Extra for each additional lead of 15 m or part thereof over initial of 30 m as per specifications (one no. extra lead)	M <sup>3</sup>	1,00,000	0.42	42,000.00
3.	Extra for additional lift of 1.0m or part thereof initial lift of 1.5m as per specifications (4 nos. extra lift)	M <sup>3</sup>		1.68	1,68,000.00
4.	Extra for hard soil (10% of qty. of item no.1)	M <sup>3</sup>	16,300.0	1.68	19,560.0
5.	Extra for wet soil (5% of qty. of item no.1)	M <sup>3</sup>	8,150.0	1.65	13,447.50
6.	Extra for consolidation in 9" layers with sheep foot roller including watering as per specifications (15% of Item no.1)	M <sup>3</sup>	24,450m <sup>3</sup>	3.53	86,308.50
7.	Fine dressing and turifing with 3" thick grass sods obtained in a lead of 60 M	M <sup>2</sup>	15212m <sup>2</sup>	4.79	72,865.48

Total

12,43,531.48

3. Dewatering @ 5% of total cost.

13,05,708.05  
Total  
89,171=24  
26,114=16

62,176.57  
13,05,708.05

Add 3% extra for contingency

2% for W/C establi shment

13,70,993=45

Say Rs. 13,71,000 only

13.71 lacs.



Abstract of cost of Lining of power  
Channel of S.E.L.C. H.E. Project.

Sl.No.	Item of Work	Quantity	Rate	Amount.
1.	Supplying and laying com- pacted Sand filter on side slopes and in bed of canal with sand of 8 " not less than-1.25 including cost of water. - ing,remming,levelling and dressing etc. all com-lete as per specification and direction m 48.49m <sup>3</sup> of engineer in-charge.		42=36	2,05,500.62
2.	Providing 0.6 x 0.45 x 0.056 m pre-cast P.C.C. (1:3:6) slab in the side slope and bed of the canal with groove of the slab etc. & set in cement mor- tor (1:3) and flush poin- ting (1:2) including cost of all materials,carriage, royalty,labours all com- plete job as per specifi- cation and direction of Engineer incharge.	79103m <sup>2</sup>	40=74 perm <sup>2</sup>	(-)1,31,400.00 <hr/> 11,86,248=50
3.	Providing P.C.C. (1:3:6) with approved quality of graded stone chips of 20 mm and down size and coarse granular sand of approved quality, in lug, slab, cross and longitudinal sleepers for lining of canal includ-ing mixing cement concrete in mixer, vibrating, & curing including screning, royalty, all taxes, materials carriage			<hr/> 13,91,749=10 Cont'd-.....

with all lifts and leads,  
removal of shuttering, etc.  
all complete job as per  
drawing specification and  
direction of Engineer-in-  
charge

B.F.

13, 91, 749=10

257.Cm<sup>3</sup>

494=70

1, 27, 137.90

4. Supplying and placing stone metal  
graded filter (12.5) mm to  
45 mm in slope and bed of  
canal below lining as per design, drawing  
specification.

Direction of Engineer in  
charge including cost of  
materials, royalty and  
other taxes and carriage  
with all leads and lifts.

477m<sup>3</sup>

167.21  
perm<sup>3</sup>

79, 759.17

5. Providing intake wells  
with cement concrete  
(1:2:4) with approved  
quality of stone chips 20  
mm down to 6 mm graded and  
sieve sand including the  
cost of form work, making  
space for under drainage  
pipes, fixing bolts of  
suitable size to fix valves  
on the top, curing and placing  
in position mixing cement  
concrete in mixer all com-  
plete job including royalty,  
all taxes complete job with



B.F. Rs. 15,98,646.10

Materials as per specification and  
direction of Engineer in charge. 25 Nos. 108.00 2700.00  
each.

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16,01,346.10

Contd. page...131

B.F. 1601346=10

6. Providing 10 mm thick vertical joints in lining at suitable interval filled with bituminous materials of approved quality, including cost of materials all complete job...	3915 m	4=37 per meter	12,579.05
7. Providing safety ladder in lined section of canal with galvanized M.S. embedded in cement concrete (1:3:6) in accordance with I.S.S. nos. 3812-1366	4nos.	2376=0 each	9,504.00
8. Supplying fitting and fixing 150mm dia vertical non-return valves complete with bolts, nuts plates etc. all complete	25 nos.	622=00 each	15,550.00
9. Supplying fitting and fixing 50 mm dia non return pocket valves complete with bolts, nuts etc. all complete	44 nos.	311.00 each	13,684.00
10. Supplying fitting and fixing 150 mm dia open jointed cement pipe in longitudinal drains with collar all complete	2725m	59.05 per meter	1,60,911.25
11. Providing 100 mm thick F.C.C. (1:3:6) lining with well graded stone chips of approved quality 20 mm down size as per specification and direction	171m <sup>3</sup>	494=70 per m	84,593.70

19,04,168=10

Cont'd...



n.r. 19,04,168.10

12. Lip- cutting for providing  
transverse filter and drain  
all complete job...

470 M<sup>3</sup> 6-20  
Per M<sup>3</sup>

2,914.00

Total

19,07,082.10

Add 1% for contingency

57,212.46

2% for W/C establishment

38,141.54

20,09,636.10

Bay ... M. 20.096 lacs.

Sone Eastern H.E. Project.

Abstract of cost of D.L.R. Bridge at 447 Metre of Power Channel.

Sl.No.	Item of work	Unit	Quantity	Rate	Amount
1.	Earth work in excavation in all kinds of soil in foundation trenches with all leads and lifts as per drawing, specification and direction of Engineer in Charge.	M <sup>3</sup>	925.38 M <sup>3</sup>	7.65	7079-15
2.	P.C.C.(1:3:6) M100 in foundation of piers with stone metal 12" and down and Sone Sand (washed and screened) including and curring etc. as per drawing, specification and direction of Engineer in Charge.	M <sup>3</sup>	116.08 M <sup>3</sup>	494.70	57424.77
3.	Brick work in C.M. (1:4) with Sone sand(washed and screened) in foundation and superstructures including cost of curring as per drawing specification and direction of Engineer in Charge.	M <sup>3</sup>	435.66 M <sup>3</sup>	374.42	163119-82
4.	Earth work in filling in foundation trenches with excavated earth including watering and ramming in layers as per specification and direction of Engineer-in charge- all complete.	M <sup>3</sup>	638.23 M <sup>3</sup>	5.85	3733-65
5.	R.C.C. M150 (1:2:4) with stone chips 2" & down & <del>sone</del> sand (washed and screened) in bearing slabs of piers including cost of reinforcement as per drawing, specification & direction of Engineer-in-charge.	M <sup>3</sup>	29.38 M <sup>3</sup>	642.60	18879-59

G.B. Rs 250236-98



Sl.No.	Item of work	Unit	Quantity	Rate	Amount
					H.P. M.25023-99
6.	Providing automatic bearing for Girders of bridge including supplying, fabrication and erection complete as per drawing, specification and direction of Engineer in charge.		Each set 15 sets	500-00	7500-00
7.	R.C.C.(1:2:4) M 150 with Stone chips $\frac{1}{2}$ " and down and some sand(washed and screened) in deck slab, kerb and girder including the cost of centering shuttering and curing complete but excluding the cost of reinforcement <del>the</del> as per drawing, specification and direction Engineer in charge.	M <sup>3</sup>	38 M <sup>3</sup>	757-00	28766-00
8.	Providing expansion joint in deck slab and wearing coat with angle iron and master fillet etc. including cost of supplying, filling and fixing complete.	R/M	25 Metres	62.20	1555-00
9.	R.C.C.(1:2:4) M 150 with stone chips of size $\frac{1}{2}$ " and down and some sand(washed and screened) in breast wall including cost of centering, shuttering and curing etc. all complete (but excluding the cost of reinforcement)	M <sup>3</sup>	9.0 M <sup>3</sup>	642-60	5783-40
10.	R.C.C.(1:1 $\frac{1}{2}$ :3) M 200 with stone chips $\frac{1}{2}$ " and down and some sand(washed and screened) in wearing coat as per drawing, specification and direction of Engineer in charge(Excluding the cost of reinforcement)	M <sup>3</sup>	29.74 M <sup>3</sup>	717-45	21336-5

Sl.No.	Item of work	Unit	Quantity	Rate	Amount
					B.F. Rs. 315178-31
11.	Providing 4" dia G.I. drain water pipe in deck Slab with perforated cap including cost of material and labour complete as per specification and direction Engineer in charge	Each No.	24 Nos.	31-20	748-80
12.	Providing R.C.C.(1:1½:3) M 200 railing and railing post with stone chips of size ½" and down and some sand(washed and screened) including cost of shuttering, centering and curing complete but excluding the cost of reinforcement as per specification and direction of Engineer in charge.	R/M	110 M	54.45	5989-50
13.	Providing deep ruled cement pointing in G.C.(1:3) with some sand(washed & screened) as per specification and direction of Engineer in charge on Brick work(Exposed surface)	M <sup>2</sup>	293.19M <sup>2</sup>	7.95	2330-86
14.	R.C.C.(1:2½:4) M 150 with stone chips ½" and down some sand (Washed & screened) as in approach slab including cost of shuttering and curing etc. complete as per drawing and specification and direction of Engineer in charge.	M <sup>3</sup>	4.25 M <sup>3</sup>	642-60	2731-05
15.	Providing reinforcement in R.C.C. work including cost of cutting, bending, binding and placing in position				



Sl.No.	Item of work	Unit	Quantity	Rate	Amount
	(binding with 16 BWG Wire) complete as per drawing, specification and direction of Engineer in charge.	Per M.T.	30.00	6948-15	208440-00
		M.T.			B.P.R. 3,26,973.50
16.	Providing wheel guard of R.C.C. (1:2:4) with stone chips 2" and down and some sand (4/5) 1'-6" long and 3" dia including cost of shutt- ering, centering curing and cost of reinforcement all complete as per specificat- ion and direction of engineer in charge.	Each No.	60 Nos.	52-30	3138-00
		Total Rs.			538560-55
17.	Dewatering, Diversion of Road and clearance of site etc. 5% total cost	Job Item.			26928-02
	Add 3% contingency				565488-57
					16964-65
	Add 2% for W/c				582453-22
					11649-06
		Total			594102-28
		Say			Rs. 5.94 Lacs.

ABSTRACT OF COST FOR CONSTRUCTION OF HEAD REGULATOR  
OF NAWAHO DIST. BY S.O. 793 OF POWER CHANNEL.

Sl.No.	Items of work	Quantity	Unit	Rate	Amount
1.	Earth work in excavation in all kinds of soil in foundation trenches with all leads and lifts as per drawing and specifications and direction of Engineer in charge.	1470M <sup>3</sup>	M <sup>3</sup>	7.65	11245-50
2.	R/W in filling foundation trenches with pervious soil including watering ramming in layers as per specification and direction of Engineer in charge.	129M <sup>3</sup>	M <sup>3</sup>	5-85	7562-50
3.	P.C.C.(1:2:4) in foundation of piers abutments and wing walls etc. with stone metal 1 1/2" and down and some sand including the cost of shoring, shuttering and curing etc. all complete as per drawing, specification and direction of Engineer in charge.	176M <sup>3</sup>	M <sup>3</sup>	538-04	94835-00
4.	R.C.C. in deck slab M 150 with stone chips 1/2" and down and some Sand washed and screened in deck slab korb etc. including cost of centering, shuttering curing etc. all complete but excluding the cost of reinforcement.	19M <sup>3</sup>	M <sup>3</sup>	652-40	12395-60
5.	M Class R/W in S.O.(1:2:4) with sand W/s in foundation and superstructure including cost of curing as per drawing and specification and direction of Engineer in charge.	425M <sup>3</sup>	M <sup>3</sup>	37-42	159332-00



Pl. No. Item description Quantity Unit Rate

B.V.

6. Providing R.C.C. (11246) railing post with R.C.C. railing including painting etc. all complete. 14.216 M BM 7-45 27-05
7. Boulder pitching 0.6 m thick in Canal bed with boulder weighing 1000 lbs. 3700 M<sup>3</sup> M<sup>3</sup> 1275-25 3 -7
8. Inverted filter below B.B. pitching and ring with 1" and down stone chips 6.3M<sup>3</sup> M<sup>3</sup> 167-20 1031-36
9. Fetting Jharies in the open joints of the C.C. blocks with stone chips 2" and down 0.4M<sup>3</sup> M<sup>3</sup> 167-20 1-38
10. Providing 1.5 m x 0.6 m c.c. pitching 10.11 m with stone weight 1000 lbs. and down sand washed and screened including cost of shuttering and curing cost of machine etc. all complete. 9.5M<sup>3</sup> M<sup>3</sup> 495-10 4701-12
11. R.C.C. (11326) in coping of with stone chips (1" + 30M) and some sand including cost of shuttering, curing, Centering etc. all complete. 10.4M<sup>3</sup> M<sup>3</sup> 495-10 5100-01
12. Supply of 16 B.W. gauge wire including all labor, including cost of machine for supply of 16 B.W. gauge wire. 2.237MT MT 5942-15 1524-57
13. Supply fastening and erection painty H/A gates with standard quality of materials L.B.

300-00-00  
391100-00

Sl. No.	Item of work	Quantity	Unit	Rate	
					B.P. 200-00
14.	Paint and correct paint as per specification including bolting arrangements complete				
15.	Dewatering, Discharge and clearance of site 5% on all items except item 13				
	1 3/4 for contingency				
	2 1/2 for W/c establishments				
					43,000-00
			Say		Rs. 4.30 lacs.



Statement of Cost of Excavation of  
Tillamook Channel.

Sl. No.	Item or Work	Unit	Quantity	Rate	Amount
1.	Earth work in excavation in all kinds of soil within initial lead and initial lifts as per design specifica- tion and direction of the local authorities	M <sup>3</sup>	42700 M <sup>3</sup>	4.05	172915.00
2.	Extra for each lift of 1.5 m. or part over initial lead of 30 m as per specification (one extra lead)	M <sup>3</sup>	42700 M <sup>3</sup>	0.42	17934.00
3.	Extra for each lift of 1.0m or part over the initial lift of 1.5 m as per specification (4 Mols extra lead)	M <sup>3</sup>	42700	1.68	71736.00
4.	Extra for wet soil, etc. of quantity of item No. 1.	M <sup>3</sup>	21350	1.65	35227.50
5.	Extra for consolidation of ground in 1 1/2 m. layers with power roller including water- ing & running as per specification (of item No. 1.)	M <sup>3</sup>	6405 M <sup>3</sup>	3.33	21328.65
6.	Fine dressing and turfing with 3" thick grass seed obtained within a lead of 60 m.	M <sup>2</sup>			319151-15
7.	Dewatering @ 5% of total cost				319161-15
					15950-05
					335119-20
	Add 1% extra for contingencies				10053-57
	2% for W/c establishment				6702-38

Sl. No.	Item of work	Unit	Quantity	Rate	Amount
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1.	Supplying all the materials and labour for the construction of the dam including the concrete work, filter, graded stone metal filter PCC(1:3:6) masonry, cross and longitudinal sleeper, tiles, including the reinforcement and the concrete work, etc. all complete as per drawing, specification and direction of Engineer in charge all complete job.				
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322

65.9 5\*1029-

13.5.63



# Abstract of Cost of Earthwork in Barrow Channel.

Sl. No.	Description of Work	Unit	Quantity	Rate	Amount
	Earthwork in Barrow Channel				
	In all this work				
	Initial lead of 1.5 m				
	Lift as per drawing				
	Specification and direction				
	Engineer in charge	sq	23000	4.35	99150
2.	Extra for each lead of 1.5 m or part thereof over initial lead of 1.5 m as per specification on extra lead	sq	21000	0.84	17640
	Extra for each lift of 1.5 m or part thereof over lift of 1.5 m as per specification	sq	21000	1.69	35280
	4 nos. extra lift over total quantity of 1.5 m	sq	21000	1.2	25200
3.	Extra for wet soil of quantity of item 1	sq	5250	4.65	24375
4.	Deviation @ 10%				7737
	Add 3% extra for cutting				4871
	2% of w/c est. (1/100th)				3242
					170518
	Govt. Rate 1/100th				

SHIP	NAME	PE REGISTERED GUN
CLASS	TYPE	CAP. CHAN.
SIR	NO.	Unit
1	2	3
1. Bertha	in	3 8002.72M <sup>2</sup> 7.57
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1	2	3	4	5	6
				27	5475-27
6.	FOU(11316) 100 with stone metal (1/4" and down) with some sand washed and screened in cost of shuttering, centering cost of machine etc. all complete.	m <sup>3</sup> 1100.92m <sup>3</sup>	474.70	588158-72	
7.	RCC(11214) 150 with stone chips (1/4" and down) and some sand (washed and screened) in floor slab including cost of shutter- ing, curing cost of machine etc. all complete but exclu- ding the cost of reinforce- ment.	m <sup>3</sup> 320.09m <sup>3</sup>	136.15	204114-17	
8.	RCC(11214) 150 with stone chips (1/4" and down) and some sand washed and screened in deck slab etc. inclu- ding cost of shuttering, reinfor- cing, curing etc. all complete but excluding the cost of reinforcement.	m <sup>3</sup> 66.05 m <sup>3</sup>	652.40	43091-02	
9.	Providing FORMWORK(11316) in copying with stone chips (1/4" and down) and some sand including cost of shuttering, centering, curing etc. all complete.	m <sup>3</sup> 4.93 m <sup>3</sup>	567.50	2737-77	
10.	Providing 1:2.5 : 0.5 concrete (thick) brick pitching in floor with some metal (1/4" and down) some sand (washed and screened) including cost of shuttering, curing cost of machine etc. all complete.	m <sup>3</sup> 122.15m <sup>3</sup>	495.40	60476.46	
11.	Filling Joints in the open joints of the c.c. blocks with stone chips 1/4" and down.	m <sup>3</sup> 7.53 m <sup>3</sup>	167.20	2604.97	

1548311-01



145

1	2	3	4	5	6
12. 0.6 m Thick boulder pitching in canal bed with boulder weighing (90% 1 20 lbs).	M <sup>3</sup>	137.73	M <sup>3</sup>	1275.25	17540-58
13. 0.15 M thick concrete lining (1:3:6) with stone metal and some sand (washed and screened) including cost of shuttering, curing cost of machine etc. all complete.	M <sup>3</sup>	18.87	M <sup>3</sup>	529.30	9987-90
14. 0.25x0.25x0.2 M Brick Block pitching on the slope of the canal	M <sup>3</sup>	6.86	M <sup>3</sup>	95.85	457-53
15. Laying 0.15 thick graded filter below B.B. Pitching and lining with (3/4" and down) some chips.	M <sup>3</sup>	25.73	M <sup>3</sup>	167.20	4302-05
16. Providing cement ruled painting in CM (1:3) of exposed surface of the cing walls, abutments and perirs etc. all complete.	M <sup>2</sup>	875.52	M <sup>2</sup>	7.95	6960-36
17. Providing reinforcement including cutting, bedding MT and binding/M.S. rods including supply of 16 BWG binding wires.	MT	18.63	MT	6948.15	12944-03
18. Providing expansion joints in deck slab with mastic filter all complete.	Metric	16.20	MT	62.20	1007.64
19. Providing 3" dia G.I. Drain water pipe in deck slab.	No. 16	No.s		31.20	499-20
20. Supply, fabrication, erection and painting with (Standard) quality of Bitumastic paint (water portion) and enamel paint 20 MT on balance portion as per specification including hoisting arrangements complete cross regulator gates (6.5 m x 3.41 m) size.					

2167309-60



2 3 4 5 6  
B.F. 2167309-60

21. Dewatering, diversion and  
clearance of site 5% of  
(on all items excluding  
items No. 21).

93865-48

Total 2261175-00

Add 3% contingency

67835-25

Add for w/c establishment @2%

45223-50

~~2209074-00~~  
2374233.70

Say Rs. 23.74 lacs.

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# **Bihar State Hydroelectric Power Corporation Ltd**

( A Government of Bihar Enterprise )

**Sone Western Link Canal  
Hydro Electric Project  
Volume—I**

*Dehri*

**BHPC**

BIHAR STATE HYDROELECTRIC POWER CORPORATION: PATNA

...

No. HDL/SCHP/1983- 06 New Delhi Dated the 20 August, 1983.

From

Shri A.K. Sinha,  
Dy. Chief Engineer (Design).  
Bihar State Hydroelectric  
Power Corporation  
Camp New Delhi.

To

Shri V.D. Lulla,  
Director (HTD-VIII)  
Central Electricity Authority,  
Sewa Bhawan, R.K. Puram,  
New Delhi

Sub:- Some Western Link Canal Hydroelectric Project  
(4x1.65 MW) - Estimated cost Rs. 1252.46 lakhs.

Ref: Your letter no. CEA UO No. 19/1/83-HTD-VIII of 17.8.83

Sir,

I have to invite a reference to your above letter through which comments on above has been forwarded to us. Parawise clarifications are given below. The estimate has been revised as suggested and is appended.

1. Bihar State Hydroelectric Power Corporation Limited is a Bihar Government Under-taking and recently formed. The main objective of this Corporation is to investigate, formulate and execute Hydroelectric Power Projects in Bihar. The work of Hydroelectric was initially done by the Bihar State Electricity Board and thus the original feasibility report on this scheme was submitted by the Bihar State Electricity Board. Modification has been taken up by this Corporation.

2. Feasibility and economics of installing 'S' type units visa-vis bulb units have been studied and it has been found that 'S' type units of 1.65 MW capacity will be suitable and adopted in this project.

3. The estimate has been recast as suggested in comments.

Yours faithfully,

Sd/- A.K. Sinha  
Dy. Chief Engineer (Design)

Memo No. 22/ NDL/SCHP/1983- 06 New Delhi dated the 20th Aug, 83.

Copy with copy of enclosure forwarded to Shri V.V.R.K. Rao, Director-HEP, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi for information. The civil work estimate will not change due to installation of 'S' type tubular units.

Sd/- A.K. Sinha  
Dy. Chief Engineer (Design)



- 103 b-

SONE WESTERN LINK CANAL H.E.-PROJECT  
GENERAL ABSTRACT OF COST.

.....

Cost of Civil works-	...	...	575.05
Cost of Electrical and Mechanical system-	...	...	724.18
			<hr/>
			1300.03
			<hr/>

Say Rs. 1300 lakhs.

SONE WESTERN LINK CANAL HYDEL PROJECT

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ESTIMATE OF ELECTRICAL WORKS

ABSTRACT OF COST.

Sl. no.	Items	Quantity	Rs. (lakhs)
1.	2.	3.	
I-A	Preliminary		
	Preliminary expenses including design & consultancy charges completion of project reports etc.	L.S.	2.50
2.0	MISCELLANEOUS		
	Telephones, lights, on site power & construction of 2 nos. L.T. lines each above 3 Km length for construction power purposes-	L.S.	5.00 8.50
3.	Generating plant & equipment		
	a/ Generating units of 1650 Kw 0.6 PF turbines complete with allied equipment, e.g. governing and lubricating system, cooling system, unit control panel/desk line terminal & N.G cubicles, CTs, surge protection equipment, synchronising equipment other accessories & special tools & tackles etc. @ Rs. 6000/ per KW	4 nos.	396.00
	b/ Auxilliary electrical equipment for power station (Annexure-A)	-	15.90
	c/ Auxiliary equipment & service for power station (Annexure-B)	-	24.75
	d/ Spares for above item 3a @ 5%		19.00
	e. Spares for the above items 3b & c @ 5% (i.e. Rs. 41.65)		2.00
	f/ Erection & commissioning @ 10% of the above items 31, b, & c (i.e. of Rs. 437.65)		43.76
	g/ i/ Excise duty @ 8%		
	ii/ Sales Tax @ 4%		
	iii/ Insurance @		
	Transportation @ 5%		
	Total @ 17% on the above items 3a, b, c, d, & e-		74.75
	Total- Sl. 3:-		578.04
4.	Sub-station equipments.		
	a/ Main equipment like transformers, circuit breakers, isolators etc. (Annexure-C)		22.70

Cont'd....



b. Auxiliary equipment and services for switchyard (Annexure-D)	2.70
c. Spares for above items 1a @ 5%	-
d. Erection & commissioning @ 10% for the above items 1a & b (i.e. of Rs. 22.40)	2.24
ei/Excise duty @ 0%	
ii/ Sales tax @ 4%	
iii/ Insurance & Transportation @ 5%	
@ 17% of the above items 3a,b,c (i.e. of Rs. 23.38)	3.97

Total Sl.4:- 32.59

5. Transmission line cost-

5.50

Total Sl. 1 to 5-

~~624.63~~ 613.13

6. Procurement & inspection charges @ 2% of the above items 2.3(a,b,c,d,e.& g) & 4(a,b,c.&e)-(i.e. of Rs. 550.31)	10.00
7. Contingencies @ 3% of the above items at Sl.3 to 6 (i.e. of Rs. 555.71)	10.39
8. S. Power Plant & Electrical system.	653.02

Direct charges-

I- Works

A. Preliminary	2.50
B. Miscellaneous	6.00
c. Maintenance @ 1% of (I-works-A preliminary)	6.45
D. Power plant & Electrical system	644.52
Y- Losses on stock @ 0.25% of (I-works A-preliminary)	1.61

I- Works- 651.08

II- Establishment @ 0% of I-works- 52.88

III- Tools & plants @ 1% of I-works- 6.61

IV.- Suspense ri.

V- Receipts & recoveries- (-)

Total-  
direct charges- 717.57

Indirect charges-

Audit & Accounts charges @ 1% of I-works-

6.61

Grand Total- 724.18



CHAPTER- 2

ABSTRACT OF COST



SONE WESTERN LINK CANAL H.E. PROJECT

GENERAL ABSTRACT OF COST.

Cost of Civil Works .....	Rs. 608.43 <sup>1</sup> lacs.
Cost of electrical and Mechanical system .....	Rs. 644.03 lacs.
Total	Rs. 1252.46 lacs.

# Sone Western Link Canal Hydro- electric Project.

## General Abstract of Cost for Civil Works.

<u>Sub head</u>		<u>Amount is Rs. lacs.</u>
A. Preliminary	.. ..	Rs. 5.65
B. Lnd.	.. ..	Rs. 3.71
E. Fall	.. ..	Rs. 2.50
J. Power Plant / Appurtinane ( civil)		
(i) Power channel with structures		Rs.78.40
(ii) Tail race Channel with structures		Rs.65.06
(iii) Power House (civil) Works.		Rs.275.83
(iv) Escape channel with Structures		Rs. 65.24
		<u>Rs.484.53</u> Rs. 484.53
K. Building	... ..	Rs. 21.0
M. Plantation	.. ..	Rs. 1.5
O. Miscellaneous	.. ..	Rs. 22.60
P. Maintenance 1% I works less ( cost of A-Preliminary, B.Land and as sp. T & P)	.. ..	Rs. 5.42
Q. Sp.T & P	.. ..	Rs. 13.84
R. Communication	.. ..	Rs. 2.60
Y. Less in stock & unforeseen items @ 0.25% of I works.	... ..	Rs. 1.35
Total..I-Work		Rs. 564.70

## Direct Charges.

I- Works	.. ..	Rs. 564.70 lacs.
II- Establishment @ 8% of I Works less cost of B- Land ....		Rs. 44.88 lacs.

Cont'd.....



III- Ordinary Tools & Plant @ 1% of

I- work- Rs. 5.65 lacs.

IV- Suspense- ... Rs. nil

V- Receipt & Recoveries

i) Resarb of G-Spt & P(-) Rs.9.49 lacs

ii) Resarb of inspector  
vehicle (-) Rs. 3.15

Total (-) Rs.12.64 lacs (-) Rs. 12.64 lacs

Discharge Total- Rs.602.59 lacs.

Indirect charges

i/ Capitalised value of abutment  
of land revenue @ 5% of cost  
of

B- Land- Rs. 0.19

ii/ Audit & Accounts charges

@ 1% of I-works- Rs. 5.65

Rs. 5.84 lacs Rs. 5.84 lacs.

Total cost for civil works

(Direct + Indirect) Rs.608.43 lacs.

Details of Cost Under the Sub-Head.

A- Preliminary

Sl.No. Particulars.

Amount in Rs. lacs.

1.	Detailed alignment survey of Power Channel, Tail race, Escape Channel including dagbelling, Fixing of R.D. Pillars.	L.S.	25,000.00
2.	Establishing and fixing Bench Marks.	..	15,000.00
3.	Digging Test pits along Canal alignment and at structure sites	..	25,000.00
4.	Bearing Pressume test at Power House site & Canal Structure sites at 5 nos. site		50,000.00
5.	Bore Hole at Power House site ..		35,000.00
6.	Establishment of rainganges and their running charges	..	25,000.00
7.	Geological testing & report	..	10,000.00
8.	Testing of water quality	..	15,000.00
9.	Silt observation	..	15,000.00
10.	Stationery for Preparation of Report		15,000.00
11.	Camp equipment	..	20,000.00
12.	Charges for consultances	..	1,50,000.00
13.	Environmental and ecological studey		10,000.00
14.	Purchase of Technical Books	..	5,000.00
15.	Model Experiments	..	1,00,000.00
16.	Training of Engineers	..	50,000.00
	Total		Rs.5,65,000.00



Details of Cost Under the Sub-Head.

B- Land.

<u>Particulars.</u>	<u>Quantity</u>	<u>Rate</u>	<u>Unit</u>	<u>Amount (Rs.)</u>
1. Permanent Land for Excavation  (note no extra land is required for tail race or escape channel)	2.5 Ha	62,500	per Ha	1,56,250.00
2. Permanent Land for Construction of camps.	2 Ha	62,500	Per Ha	62,500.00
				<u>2,18,750.00</u>
3. Compensation for standing cap. for 3.5 Ha @ 2500 per Ha				87,500.00
4. Demarcation, degbelling and fixing of Boundary Pillars including joint verification	L.S.			5,000.00
5. Solatium charges @ 15%				32,812.00
6. Interest charge @ 6%				13,125.00
7. Land equiption establishment and legal expenses @ 6 1/2%				<u>13,672.00</u>
Total			Rs.	3,70,859.00
Say				3,70,860.00

J- Power Plant/ Appurtenances (Civil works)

General Abstract of Cost.

<u>Particulars.</u>	<u>Cost in Rs. lacs.</u>	
1. <sup>o</sup> Pwer Channel		
(i) Earth Work	Rs. 22.70	
(ii) Lining	Rs. 48.23	
(iii) Pucca structure Bridge	Rs. 7.47	
Total	Rs. 78.40	Rs.78.40 lacs.
2. Power House	Rs. 275.83	Rs.275.83 lacs.
3. Tailrace channel		
(i) Earth Work	Rs. 5.08	
(ii) Lining	Rs.10.98	
(iii) Pucca works. Regulator	Rs.49.00	
Total	Rs.65.06	Rs. 65.06 lacs.
4. Escape		
(i) Earth work	Rs. 16.24	
(ii) Pucca structure Escape Regulator	Rs. 49.00	
Total	Rs. 65.24	Rs. 65.24 lacs.
Total for Power Plant		Rs.484.53 lacs.



Details of Cost under the Sub-Head.

K- Building

1. Residential Buildings for

Executive Engineer	1 no. @ 150 M <sup>2</sup>	= 150 M <sup>2</sup>
Assistant Engineer	4 nos. @ 90 M <sup>2</sup>	= 360 M <sup>2</sup>
Junior Engineer	12 nos. @ 60 M <sup>2</sup>	= 720 M <sup>2</sup>
Operator/Asstt.		
Controller	12 nos. @ 50 M <sup>2</sup>	= 600 M <sup>2</sup>
Grade iv Staff	12 nos. @ 40 M <sup>2</sup>	= 480 M <sup>2</sup>
		= 2310 M <sup>2</sup> @ Rs. 1000 = 00
		per M <sup>2</sup>

Total for Residential building = Rs. 23,10,000=00

2. Non Residential Building ( Temporary buildings)

(i) Office	1x33x13 = 429 m <sup>2</sup> @ Rs. 800 per M <sup>2</sup>	3,43,200.00
(ii) Store	3x33x13 = 1287 m <sup>2</sup> @ Rs. 700 per M <sup>2</sup>	2,00,900.00
(iii) Rest House	1 no. 160 M <sup>2</sup> @ 1200 per M <sup>2</sup>	1,92,000.00
(iv) Dormitory 20 Units @ 25 M <sup>2</sup>		
	= 500 M <sup>2</sup> @ Rs. 900 per M <sup>2</sup>	4,80,000.00
		<u>18,86,100.00</u>

Total for Residential & Non residential Rs. 41,96,100.00

Say Rs. 42 lacs.

Note :- Schools and hospital are already existing near the project site and since no provision for the same has been made

Resale/value of temp. building @ 15% 62,94,150.00

50% of the total cost will be 6.30

Chargeable to Sone water link canal

III Project & 50% of Sone Eastern Link

Canal III Project.

Cost chargeable to

Sone Western Link Canal Project ... Rs. 21.00 lacs.

Receipt and Recoveries

account of resale of Tem. Building Rs. 3.15 lacs.

Details of Cost under the Sub Head

C - Miscellaneous

<u>Particulars.</u>	<u>Amount in Rs. lacs.</u>
1 Capital Cost of	
(i) Electrification of Colony	0.50
(ii) Water Supply -over head tank	4.0
(iii) Sewage and drains.	1.50
2. Maintenance and Service	
(i) Electrification	0.25
(ii) Water Supply	0.25
(iii) Sewage	0.25
(iv) Medical Assistance	0.1
(v) Recreation	0.25
(vi) Security arrangement	0.30
(vii) Inspection Vehicles	4.00
(viii) Telephone ...	1.50
3. Other Items.	
(i) Visit of dignitaries	1.0
(ii) Technical record, photographic record.	0.25
(iii) Industrial demonstrations	1.50
(iv) Compensation to work men	0.30
(v) Model and exhibits	0.50
(vi) Publicity and information centre	0.50
(vii) Running of test shed/inspection Bunglow	2.00
(viii) Canteen facility	0.30
(ix) Co-operative stores	0.30
(x) Time keeping cabin	0.30
(xi) Community centre	0.40
(xii) Wireless communication	1.00
(xiii) Writing of completion report and history of project.	1.00
Total	Rs. 22.60 lacs.

iii.



Details of Cost under the Sub-Head.

0 - Special T & P.

A. Earth moving Equipments.

1. Dragline 2 1/2 Cyd Capacity	1 no. @ Rs. 22.00 each	Rs. 22.00 laks.
2. Buldozer -(180 HP)	1 no. @ Rs. 12.00 each.	Rs. 12.00 ,,
3. Dimper 2	2 nos. @ Rs. 13.00 each.	Rs. 26.00 ,,
4. Sheep foot roller double dram	2 nos. @ Rs. 0.3511lacs each.	Rs. 0.7022 ,,
5. Tractor (50 HP)	2 nos. @ Rs. 1.0 lakh each.	Rs. 2.00 ,,

B. Compressor and Pneumatic Equipment.

1. Portable air compressor (125 cft)	1 no. @ Rs. 0.80 lakh each.	Rs. 0.80
2. Jack hammer	2 no. @ Rs. 0.06 lakh each.	Rs. 0.12

C. Concrete Mixing and Placing equipment

1. Concrete mixer (14/10 cft)	3 no. @ Rs. 0.35 lakh	Rs. 1.05
2. Vibrator	6 no. @ Rs. 0.06 lakh	Rs. 36

D. Haulage Equipments.

1. Heavy Duty Tractor Trailer	1 no. Rs. 15.0 lakh	Rs. 15.0
2. Trucks	2 nos. @ Rs. 2.0 lakh	Rs. 4.0

E. Other Equipment.

1. Pneumatic Tyred travelling crane- 20 ton capacity	1 no. Rs. 10.0 lakh	Rs. 10.00
2. Pumps for dewatering L.S.		Rs. 3.0
	Rs.	97.0

F. Vehicles

1. Jeeps	3 nos. @ Rs. 0.80 lak	Rs. 2.40
2. Pick up van	1 no. @ Rs. 1.50 lak	Rs. 1.50
		Rs. 100.90

Total cost of Equipment & vehicle Rs. 100.90 lakh.

Less cost of Inspection vehicles (-) Rs. 3.90 lakh.

Cost of equipment only Rs. 97.00 lakh.

75% cost of Equipment chargeable to I. works. Rs. 72.75 lakh.

Cost chargeable to Sub-Head.

Q Sp T & P

25% cost of equipment Rs. 24.25 lakh

80 % cost of vehicle Rs. 3.12 lakh

Total Rs. 27.67 lakh.

Cost chargeable to receipt and recoveries

for equipment @ 75% Rs. 24.25 Rs. 18.19 lakh

for vehicle @ 20% of Rs. 3.90 Rs. 0.78 lakh.

Total Rs. 18.97 lakh.

These equipments of Q-Sp. T & P. will also be used for Sone Eastern Canal H.E. Project, so 50% of their cost will be chargeable to SWLC HE Project and 50% to SELC HE Project.

Cost of Q SP T & P chargeable to SWLC HE Project. = Rs. 13.84 lakh.

Cost of Q SP T & P " SELC HE Rs. 13.84 lakh.

Receipt & Recoveries under SWLC HE Project. Rs. 9.49 lakh

Receipt & Recoveries under SEIC HE Project. Rs. 9.49 lakh.

Cont'd....



Details of Cost under the Sub- Head.

B - Communication.

<u>Particulars</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount. Rs. lacs</u>
1. Cost of improving the existing Road upto Power House site	3 Km.	@ Rs. 0.30 per km.	Rs. 0.90
2. Cost of improving existing road to quarry.	6 kms.	@ Rs. 0.20 per km.	Rs. 1.20
3. Construction of Coloy Road.	1 km.	@ Rs. 1.50 per Km.	Rs. 1.5.
		Total	Rs. 2.60

114.

SOME WESTERN LINK CANAL HYDEL PROJECT  
ESTIMATE OF ELECTRICAL WORKS  
ABSTRACT OF COST

Sl.No.	Items	Quantity	Rs. (Lakhs)
1.	2	3.	4.
1-A	<u>Preliminary</u>		
	Preliminary expenses including design and consultancy charges, completion of project reports etc.	L.S.	2.50
2-0	<u>Miscellaneous</u>		
	Telephones, lights, on site power & construction of 2 Nos. L.T. lines each above 8 Km. length for construction power purposes.	L.S.	6.00 8.50
3-	<u>Generating plant &amp; equipment.</u>		
	a/ Generating units of 1650 KW, 0.8PF 3.3 KV, 3 Phase, 50 Hz with bulb turbines complete with allied equipment, e.g. governing & lubricating oil system, PMG, AVR, excitation system, cooling system, unit control panel/ desk line terminal & M.G. cubicles, C.Ts, surge protection equipment, synchronising equipment, other accessories & special tools & tackles etc. for site @ Rs.6000/- per K.W.	4 Nos.	396.00
	b/ Auxiliary electrical equipment for power station (Annexure-A)	-	16.90
	c/ Auxiliary equipment & services for power station (Annexure B)	-	24.75
	d/ Spares for above item 3a @ 5%	-	19.30
	e/ Spares for the above items 3b & c @ 5% (i.e. Rs.41.65)	-	2.08
	f/ Erection & commissioning @ 10% of the above items 3a, b, & c (i.e. of Rs.437.65)	-	43.76
	g/ i) Excise duty @ 8%		
	ii) Sales Tax @ 4%		
	iii) Insurance & Transportation @ 5%		
	Total:- @ 17% on the above items 3b, c, & e (i.e. of Rs.43.73)		7.43
	Total:-		510.72
4-	<u>Sub-station equipments</u>		
	a/ Main equipment like transformers, circuit breakers, isolators etc. (Annexure-C)	-	19.70



b/	Auxiliary equipment and services for switchyard (Annexure-D)	-	2.70
c/	Spares for above items 4a @ 5%	-	0.98
d/	Erection & commissioning @ 10% for the above items 4a & b (i.e. of Rs. 22.40)	-	2.24
e/	i) Excise duty @ 8%		
	ii) Sales Tax @ 4%		
	iii) Insurance and Transportation @ 5%		
	17% of the above items 3a, b, & c, (i.e. of Rs. 23.38)		3.97
	Total (Sl. 4)		29.59
			5.40
5-	Transmission line cost (Annexure-E)		
			Total (Sl. 1 to 5) 554.21
6-	Procurement & inspection charges @ 2% of the above items 2, 3 (a, b, c, d, e, & g) & 4 (a, b, c, & e) - (i.e. of Rs. 500.31)	-	10.00
7 -	Contingencies @ 3% of the above items at Sl. 3 to 6 (i.e. of Rs. 555.71)		16.67
8-S	Power Plant & Electrical system (Sl. 3 to 7)		572.38
	<u>Direct charges</u>		
	I- Works		
	A- Preliminary	-	2.50
	C- Miscellaneous	-	6.00
	F- Maintenance @ 1% of (I works-A Preliminary)		5.86
	S- Power Plant & Electrical system		572.38
	Y- Losses on stock @ 0.25% of (I-Works-A, Preliminary)		1.47
			538.21
			47.06
II-	Establishment @ 8% of I-Works		5.88
III-	Tools & Plants @ 1% of I-Works		NIL
IV-	Suspense		
V-	Receipts & Recoveries	(-)	3.00
	Total direct charges		638.15
	<u>Indirect charges</u>		
	Audit & Accounts Charges @ 1% of I- Works		5.88
	Grand Total :-		644.03

Say Rs. 644 Lakhs.

Auxiliary Electrical Equipment for power station.

Rs. in lakhs.

1. 2 nos Unit Auxiliary/Station Service Transformers each of 250 KVA @ Rs.125/- KVA	0.625
2. LT Ac Switchgear for power supply to Power House/Switch yard auxiliaries	3.00
3. D.C. Equipment (Batteries, battery Charging units, distribution board etc)	1.25
4. 33 KV Control Relay Panels- 4 Nos. @ Rs. 75,000/- per panel ..	3.25
5. 33 KV Switch Board	2.50
6. Synchronising Panel- 1 set	0.50
7. Control/Protection equipment	5.00
8. Miscellaneous equipment & devices required for completion	0.75

Total :- 16.875

Say Rs. 16.875 lakhs.

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ANNEXURE 'B'

AUXILIARY EQUIPMENT & SERVICES FOR POWER STATION.

Rs. in lakhs.

1. Power House EOT Crane 15 T capacity	2.00
2. Cable racks & accessories	0.75
3. Power & Control Cables	1.5
4. Station Grounding	0.75
5. Testing Equipment	0.75
6. Workshop Equipment	1.0
7. Station/cooling Water Supply Arrangement	1.50
8. Fire Protection & Co <sub>2</sub> equipment	1.0
9. Power House Illumination	1.0
10. P.L.C.C.	1.00
11. Drainage & Dewatering System	1.50
12. Ventilation & Air Conditioning	
13. Lubricating & governing oil system comprising oil centrifuge pump, Transfer pump, Tank, Pipes & fittings.	2.00
14. Diesel generating set, 50 KW electrical panels 0.4 KV @ Rs. 3000/- KW	1.5
15. ( compressed air pipings) -	1.50

TOTAL :- 19.75

MAIN EQUIPMENT FOR SWITCH YARD.

	<u>Qty.</u>	<u>No. in lakhs</u>
1. 5 MVA, 3.3/33 KV, 3 Phase step up power transformers including oil for first filling @ Rs.125/KVA. 2 nos.		12.50
2. 33 KV Oil Circuit Breakers @ Rs. 70,000/-	4 nos.	3.00
3. 33 KV Isolators without earthing switch @ Rs. 9,000/-	4 Sets	0.40
4. 33 KV Isolators with earthing Switch @ Rs. 10,000/-	2 Sets	0.20
5. 33 KV PTs @ Rs. 25,000/-	1 set	0.25
6. 33 KV CTs @ Rs. 7,000/-	14 nos	1.00
7. 33 KV LAs @ Rs. 7,000/-	12 nos.	0.85
8. Steel Structure, Bus Bars, Hard Wares, Insulators etc.	L.S	0.75
9. Miscellaneous Equipment & devices required for completion		0.75
	Total	19.70



ANNEXURE 'D'

AUXILIARY EQUIPMENT & SERVICES FOR SWITCH YARD.

	<u>Rs. in lakhs</u>
1. Fencing and security	0.25
2. Drainage System	0.50
3. Grounding & Shielding	0.50
4. Illumination	0.20
5. Cable Ducks & Accessories	0.25
6. Foundations for structures and equipment	0.50
7. Miscellaneous equipment and devices required for completion.	0.50
<u>Total</u>	<u>2.70</u>

TRANSMISSION SYSTEM

Rs. in lakhs

1. 33 KV single circuit line with  
ACSR 'Dog' and 7/14 G.I.  
Continuous earth wire on P.S. pole  
(for 2 single circuit lines of  
5 Km. length) - @ Rs.55,000/-  
per circuit Km.

	<u>5.50</u>
Total -	<u>5.50</u>



Abstract of cost of  
Construction of Power House of Sone Western Link  
Canal Hydro-electric Project.

No.	Item of Work	Quantity	Rate	Amount.
1.	Earth work in excavation of Overburden of all kinds of soil with all lead and average 2 m. extra lift as per direction of Engineer Incharge.	24000 M <sup>3</sup>	6.20 per M <sup>3</sup>	1,48,800.00
2.	Earth work in excavation of foundation trenches in ordinary soil with all loads and lifts all complete as per direction of Engineer incharge.			
	(a) by labour up to 6 extra lifts.	97,400 M <sup>3</sup>	7.65 per M <sup>3</sup>	7,45,110.00
	(b) by machine "bottom of the foundation	47,700 M <sup>3</sup>	17.87 per M <sup>3</sup>	8,52,399.00
3.	Providing P.C.C.(1:4:8) with approved quality of Stone metal of grade-III 1 1/2 to 2" Size and coarse grammular sand of approved quality in foundation including the cost of curing, screening, royalty all taxes with cost of all labour and materials as per Specification and direction of Engineer incharge.	132 M <sup>3</sup>	438.40 per M <sup>3</sup>	57,868.80
5.	Providing and laying R.C.C. M-200 grade in foundation and plinth at all elevation with hard quartzite or trap stone chips including the cost of shuttering, curing etc. all complete job, excluding the cost of inforcement and its bending, binding cutting and placing into position.	11830 M <sup>3</sup>	717.45 per m <sup>3</sup>	84,87,433.50
5.	-do do- in super structure.	1900 M <sup>3</sup>	767.45 per m <sup>3</sup>	14,58,155.00

Earth work in back filling  
including the cost watering,  
compacting, at O.M.C. in  
layers not exceeding 150 mm  
with all lifts and lead.

25009 M<sup>3</sup> 5.85 per M<sup>3</sup> 1,46,250.00

Providing all materials  
and labour for 0.610 mm  
inverted filler as per  
specification and direction  
of Engineer-in-charge

1267 m<sup>3</sup> 127.25  
per m<sup>3</sup> 1,61,225.75

Providing P.C.C. 1:3:6  
in U/S and D/S slope with  
hard quartzite or trap stone  
chips including the cost of  
curing etc. all complete job

2450 m<sup>3</sup> 494.70 per  
M<sup>3</sup> 12,12,015.00

Providing and driving sheet  
pile in foundation as per  
specification and direction  
of Engineer in-charge.

1021 M<sup>2</sup> 1550/M<sup>2</sup> 15,82,550.00

Providing and fixing 25 mm  
dia 914 mm C/C pressure  
release pipe as per direc-  
tion of Engineer in-charge.

1600 metres 15.00 M. 24,000.00

Providing and fixing intake  
gate of P.H. including the  
cost of hoisting arrangements.

98 M.T. 14.500/MT 14,27,000.00

Providing and fixing draft  
tube gates including its  
hoisting arrangements all  
complete job as per speci-  
fication and direction.

56 M.T. 14,500/MT 8,12,000=00

Providing and fixing trash  
rack of approved design and  
drawing and as per direction  
of Engineer in-charge.

32.9 MT. 7500 MT. 2,46,750=00

Cont'd....



providing and fixing steel  
floors and windows Luvours  
etc. as per I.S.I.  
specification/ and direction  
of Engineer Incharge.

302 M<sup>2</sup>400.00  
Per m<sup>2</sup>

1,20,800.00

-do-----do----- rolling sh-  
tters as per I.S.I.speci-  
fication.

14 M<sup>2</sup>350/M<sup>2</sup>

4,900.00

Providing and laying in posi-  
tion steel re-inforcement in  
foundation and super structure  
of the P.M. and its axuliary  
structure as per direction  
of Engineer incharge including  
the cost of all labour and  
materials, complete job.

1227 MT

6948.15  
Per MT

85,25,380.10

Providing bricating steel  
purlines C.P.E. including  
the cost its erretion and  
one coat of protective pain-  
ting as per specification and  
direction of Engineer incharge

14 M.T

7500  
per M/T

1,05,000.00

Providing and fixing 100 mm  
H.C.I. rain water down pipe  
including its all fittings  
complete job as per specifi-  
cation and direction of  
Engineer Incharge.

175 Metres 30 per /M

5250.00

• providing all materials and  
labours for expansion joints  
as per specification and  
direction of Engineer Incharge

300 M.

33=20

9960.00

• Providing and laying 40 mm  
thick mozic tile flooring as  
per specification and direc-  
tion of Engineer Incharge.

1135 M<sup>2</sup>100.00 M<sup>2</sup>

113500.00

Cont'd.....

1. Providing and laying wall finishing work including colouring etc.	L.S.		50,000.00
22. Providing and painting steel structure windows, door, etc.	L.S.		30,000.00
23. Providing and fixing water supply and sanitary installation Work	L.S.		50,000.00
24. -do -do- Electrification	L.S.		50,000.00
25. Providing and laying stone Masonary wall U/S & D/S for Closing the opening 5th. & 6th unit.	308 M <sup>3</sup>	400.00 Per m <sup>3</sup>	123200.00
26. Site Clearance levelling and dressing	L.S.		30,000.00
27. Dewatering during construction	L.S.		2,00,000.00
Total Rupees			26779547=00
Add 3% Contingency			803386=00
Grand Total Rupees			2,75,82,933=00
Say Rupees 2,75,83,000=00 only.			



## CHECK LIST

<b>NAME OF THE PROJECT</b>		DHELABAGH ✓
<b>LOCATION</b>		
a.	State	Bihar
b.	District	Konaras (Sasaram)
c.	Taluka	Dehri-on-Sone
d.	Site	Dhelabagh

### **CATEGORY OF THE PROJECT**

a.	<b>Micro Hydel -</b> Hydroelectric schemes with a total installed capacity upto 100 KW having individual units with capacities of a few KW to 100 KW	:	
b.	<b>Mini Hydel -</b> Hydroelectric schemes with a total installed capacity upto 2000 KW or near around with capacities of individual units from 100 KW to 1000 KW.	:	Mini Hydel Project
c.	<b>Small Hydel -</b> Hydroelectric schemes with a total installed capacity upto 15 KMW with individual units having capacities from 1 MW to 5 MW.	:	
<b>PLANNING</b>			
	Has the overall development of the stream/canal been prepared and stages of development discussed briefly ?	:	Yes
	Have the alternative proposals been studied and their merits : and demerits discussed ?	:	Yes
	Have the detailed topographical surveys been carried out for the following items and drawings prepared as per prescribed scales : a. Stream Surveys b. Head work surveys (weir or diversion structures) c. Camp site	: : :	Yes Yes Yes
	d. Water conductor system e. Power House, Switchyard, Tailrace f. Penstock g. Communication, etc.	: : : :	Yes Yes Not applicable Yes
<b>GEOLOGY</b>			
	Have the geological surveys for head works, power house and tailrace, etc. been carried out and report on general geology of the area and on geology of the sites of principal structures	:	Yes

## CHAPTER - 13

### PROJECT COST ESTIMATE

- 13.1 While framing the project cost estimate tentative design of the power channel, tailrace channel, power station building, D.L.R. bridge, approach road, etc. has been prepared and based on that the quantity of work involved has been calculated. The rates for civil works have been taken from the scheduled rates notified by Patna Division of PWD, Govt. of Bihar in October, 1998. The location of this power station falls in the area of the Division for which the rates have been prescribed.
- 13.2 As regards cost of the electrical and mechanical equipment the recent tender received against different works for Bihar and near about Bihar have been taken into consideration. Budgetary rates have also been obtained from manufacturers. The scheduled rates for transmission line is as per the schedule rates of the Bihar State Electricity Board. Budgetary offers have also been obtained for E/M equipments.

#### ABSTRACT OF PROJECT COST

Cost Head	Item	Cost (Rs. in lakhs)
100	Preliminary	Rs. 05.11
102	Temporary Construction and Enabling works	Rs. 20.60
	Permanent Building Works	
200	Land	Rs. 07.73
300	All other Civil works	Rs. 168.71
400	Electrical/Mechanical works	Rs. 392.50
500	Associated Transmission system	Rs. 30.00
600	Trial and Commissioning activities	Rs. 1.50
	<b>Total works</b>	<b>Rs. 626.13 lakhs</b>
800	Overhead construction Account	
	a. Establishment and overhead construction charges (5% of total)	Rs. 31.30



	b. Audit and Accounts (1% of total works)	Rs. 6.26
	c. Tools and Plants	Rs. 05.00
1000	Physical contingency (3% of total works)	Rs. 18.78
Grand Total :		Rs. 687.47 lakhs
Say :		Rs. 687.50 lakhs

### GENERAL ABSTRACT OF COST FOR LAND, COMMUNICATION AND OTHER CIVIL WORKS

Sub Head		Amount (Rs. in Lakh)
A	Preliminary	Rs. 5.11
B	Land	Rs. 7.73
K	Building	Rs. 20.60
J	Other Civil Works	Rs. 168.71
i.	Power Channel with lining and S.L.R. Bridge	Rs. 23.14
ii.	Power House (Civil works)	Rs. 103.03
iii.	Tailrace Channel with lining and S.L.R. Bridge	Rs. 21.44
iv.	D.L.R. Bridge	Rs. 12.90
v.	Miscellaneous Civil works	Rs. 01.10
vi.	Communication	Rs. 07.10
Total		Rs. 168.71 lakhs
E	Tools & Plants	Rs. 05.00 lakhs

### DETAILS OF COST UNDER THE SUB-HEAD A - PRELIMINARY

Sl. No.	Particulars	Amount in Rs.
---------	-------------	---------------

1.	Detailed alignment, survey of Power channel Tailrace Channel including dogbelling, fixation of pillars etc.	L.S.	Rs. 50,000.00
2.	Establishing and fixing bench marks	L.S.	Rs. 01,000.00
3.	Digging test pits along canal alignment and at structure site	L.S.	Rs. 05,000.00
4.	Bearing pressure test at Power House sites and canal structure site and bore hole at site	L.S.	Rs. 45,000.00
5.	Charges for consultancies for detailed design and engineering	L.S.	Rs. 4,00,000.00
6.	Training of Engineers	L.S.	Rs. 10,000.00
Total :			Rs. 5,11,000.00
Say :			Rs. 5.11 Lakhs

#### DETAILED COST UNDER SUB-HEAD B - LAND

Sl.No.	Particulars	Qty.	Rate	Unit	Amount
1.	Permanent land for acquisition Headrace channel, Power House, Tailrace channel, Sqitch Yard, etc.	3 Hect.	Rs. 80,000/-	Per Acre	Rs. 6,00,000/-
2.	Permanent land for construction of camps, colony.	0.4 Hect	Rs. 2.0 lacs	Per Hect.	Rs. 80,000/-
3.	Compensation for standing crops for 3 Hect.	3 Hect.	Rs. 30,000/-	Per Hect.	Rs. 90,000/-
4.	Demarcation, dogbelling and fixing of boundary pillars				



including joint L.S.  
verification.

Rs. 2,500/-

Total Rs. 7,72,500/-

Say Rs. 7.73 lakhs

### DETAILS OF COST UNDER THE SUB - HEAD K - BUILDING.

1.	Residential Buildings with electrification, sewerage and plumbing			
	Junior Engineer	1 No.	@ 95 M <sup>2</sup> each	95 M <sup>2</sup>
	Operator/ Asstt. Controller	4 Nos.	@ 70 M <sup>2</sup> each	280 M <sup>2</sup>
	Grade IV staff	2 No.	@ 4 M <sup>2</sup> each	80 M <sup>2</sup>
	Total for residential building			445 M <sup>2</sup>
			@ Rs. 4,000/- M <sup>2</sup>	Rs. 18,20,000/-
2.	Non-Residential Building (Temporary)			
	Store shed	10M x 8M=80 M <sup>2</sup>		Rs. 2,40,000/-
		@ Rs. 3,000/- M <sup>2</sup>		
	Total			Rs. 20,60,000/-
	Say			Rs. 20.60 lakhs

### J-POWER PLANT/APPERTENANCES AND OTHER (CIVIL WORKS)

#### GENERL ABSTRACT OF COST

Sl.No.	Particulars	Cost in Rs. lakhs
		Rs. 23.14
1.	Power Channel	6.02
	i. Earth Work	9.20
	ii. Lining	

iii. Pucca structures (SLR Bridge)		<u>7.92</u>	
		23.14 lakhs	
2.	Power House		Rs. 103.03
3.	Tailrace Channel		Rs. 21.44
	i. Earth work	03.10	
	ii. Lining	10.42	
	iii. Pucca structure (SLR Bridge)	<u>07.92</u>	
		21.44 lakhs	
4.	D.L.R. Bridge		Rs. 12.90
5.	Miscellaneous		Rs. 01.10
6.	Communion		<u>Rs. 07.10</u>
Total			Rs. 168.71 lakhs

#### ESTIMATED COST FOR EXCAVATION OF POWER CHANNEL

Sl.No.	Item of work	Quantity	Unit	Rate	Amount
1.	Earth work in excavation in all kinds of soil within initial lead of 50M and initial lift as per drawing, specification and direction of Engineer Incharge (Page 85, Item No. 10.1.7)	4600	M <sup>3</sup>	Rs. 17.90	Rs. 82,340/-
2.	Earth work in filling in embankment in all kinds of soil with initial lead of 40W and initial lift of 1.5M as per specification and direction of Engineer Incharge (Page-86, Item No. 10.1.9)	23000	M <sup>3</sup>	Rs. 16.95	Rs. 3,89,850/-
3.	Extra for each additional lead of 25M of part thereof over initial lead of 30W as per specification (one number extra lead)	18000	M <sup>3</sup>	Rs. 2/-	Rs. 36,000/-
4.	Extra for additional lift of 1.0M or part thereof over initial lift of 1.5M as per	12000	M <sup>3</sup>	Rs. 2/-	Rs. 24,000/-



specification (two lifts in Item No.(1)& (2) above.

5.	Extra for hard soil 110% of item 1 & 2.	2000	M <sup>3</sup>	Rs. 2/-	Rs. 4,000/-
6.	Extra for hard soil 10% of item (1)	1000	M <sup>3</sup>	Rs. 2/-	Rs. 1,000/-
7.	Extra for consolidation in all layers with sheep foot roller including watering as per specification.	27600	M <sup>3</sup>	Rs. 2/-	Rs. 55,200/-
8.	Fine dressing & turfing with 3" thick grass sods obtained with a lead of 150W and with all lifts (Page-97, Item No. 10.1.41.1)	5300/-	M <sup>2</sup>	Rs. 2.30	Rs. 12,190
		Total		Say	Rs. 6,02,380/- Rs. 6.02 lakhs

### ESTIMATE OF COST OF LINING OF POWER CHANNEL OF DHELABAGH SMALL HYDROELECTRIC PROJECT

Sl.No.	Item of work	Quantity	Unit	Rate	Amount
1.	Fine dressing the inside slope andbed of the canal with compacted fully and rammed well including wetting of required etc. all complete job as per direction of Engineer Incharge for laying PCC precast concrete slab over the finished surface of canal inside slope andbed all complete job as per specification (Page 96, Item No. 10.1.36)	3200	M <sup>2</sup>	Rs. 4.10	Rs. 13,120/-
2.	Providing 0.6 x 0.45 x 0.056 M precast PCC (1:3:6) slab in the side sope and bed of the canal with groove of the x slab etc. set in cement mortar (1:3) and flush pointing (1:2) including cost of all materials carriage, royalty, labours all complete	5300	M <sup>2</sup>	Rs. 125/-	Rs. 6,62,500/-

job as per specification and direction of Engineer Incharge (Page-103, Item No. 10.2.19)

3.	Providing PCC (1:3:6) with approved quality of graded stone chips of 20mm and down size and coarse granular sand of approved quality in lug slab, cross and longitudinal sleepers for lining of canal including maxing cement concrete in mixer viberating and curing including screening royalty all taxes, carriage of materials etc. wit all lifts and leads, removal of shuttering etc all complete job as per drawing, specification and direction of Engineer Incharge	60	M <sup>3</sup>	Rs. 2184.90	Rs.1,31,094/-
Sl.No.	Item of work	Quantity	Unit	Rate	Amount
4.	Providing intake wall with cement concrete (1:2:4) with approved quality of stone chips 20mm down to 6mm graded and quality sand including the cost of form work making space for under drainage pipes, fixing bolts of suitable size to fix valve on tp, curing and placng in position, mixing cement concrete in mixer all complete job including royalty all taxes with cost of all labour and materials as per specificaiton and direction of Engineer Incharge (Pg-98, Item 10.2.3)	10	Nos	Rs. 396.40	Rs. 3,964/-
5.	Providing 10mm thick vertical joints in lining at suitable interval filled with bituminous materials of approved quality including cost of materials all complete (Page-101, Item No. 10.2.10.1)	400	M	Rs.18.60	Rs.9,300/-



6.	Supplying, fitting and fixing 150 mm dia vertical non return valves complete with bolts, nuts plates etc. all complete.	15	Nos.	Rs. 2500/-	Rs. 37,500/-
7.	Supplying, fitting and fixing 50mm dia non return pocket valves complete with bolts, nuts etc. all complete.	30	Nos.	Rs. 1500/-	Rs. 45,000/-
8.	Lip cutting for providing transfilter and drain all complete job including the cost and laying of sand/stone chips of graded all complete job as per direction of Engineer Incharge.	700	M <sup>3</sup>	Rs. 25/-	Rs. 17,500
Total				Say	Rs.9,19,958/- Rs. 9.20 lakhs

**ESTIMATE OF COST OF CONSTRUCTION OF FOUNDATION OF EACH S.L.R. BRIDGE :  
ONE OF POWER CHANNEL AND ONE IN TAILRACE CHANNEL OF DHELABAGH S.H.P.**

S.N.	Item of work	Quantity	Unit	Rate	Amount
1	Earth work in excavation of foundation truces in all kinds of soils with all leads & lifts as per drawing, specification and direction of Engineer Incharge.	250	M <sup>3</sup>	Rs.21.90	Rs.5,475/-
2.	PCC (1:3:6) M-100 in foundation of piers with stone metal 1½ " and down and sone sand (washed and screened) including the cost of contering, shuttering and curing etc. complete job as per drawing, specification and direction of Engineer Incharge.	26	M3	Rs.2134.90	Rs.55,507.40
3.	1st class brick work in C.M. (1:4) with quality Sone sand w/s in foundation and superstructure including cost of curing, as per drawing, specification and direction of Engineer Incharge (Page-113, Item 10.4.2)	155	M <sup>3</sup>	Rs.1427.80	Rs.2,21,309/-

4.	Earth work in filling in foundation tranches with previous soil including watering & remaining in layers as per specification and direction of Engineer I/C complete.	145	M <sup>3</sup>	Rs.16.95	Rs.2,467.40
5.	R.C.C. M-150 (1:2:4) with stone chips ¾" and down and Sone sand (washed & screened) in bearing slab of piers including cost of shuttering, centring and curing etc. but excluding the cost of reinforcement as per drawing, specification and direction of Engineer I/C (Page-105, Item 10.3.4.)	15	M <sup>3</sup>	Rs.1737.55	Rs.26,063.25
6.	Providing roller boarding with all accessories complete set for girder of bridge including supply, fabrication and erection complete as per drawing, specification and direction of Engineer I/C (for class A- A loading)	8	Sets	Rs.500/-	Rs.40,000/-
S.N.	Item of work	Quantity	Unit	Rate	Amount
7.	R.C.C. (1:2:4) M-150 with stone chips ¾" and down and Sone sand in wearing coat as per drawing specification and direction of Engineer I/C (Page-110 Item 10.3.13)	25	M <sup>3</sup>	Rs.1746.30	Rs.43,657.50
8.	Providing expansion joint in deck slab and weasing coat with angle iron and masterfillet etc including cost of supply, filling and mixing complete.	12	M	Rs. 250/-	Rs. 3,000/-
9.	R.C.C. (1:2:4) M-150 with Stone chips ¾" and down and Sone sand w/s in precast wall including cost of shuttering, centring and curing, etc. complete but excluding cost of reinforcement.	6	M <sup>3</sup>	Rs. 1732.55	Rs. 10,425.30
10.	R.C.C. (1:1½:3) M-200 with stone chips ¾" and down and Sone sand in wearing coat as per drawing, specification and direction of Engineer I/C (Page-110, Item-10.3.13)	20	M <sup>3</sup>	Rs 2094.30	Rs. 41,886/-



11.	Providing 4" dia G.I. drain waater pipe in deck slab with perforated cap including cost of material and labour complete as er specification and direction of Engineer incharge.	12	Nos.		Rs. 960/-
12.	Providing R.C.C. (1:2:4) M-120 railing and railing post with stone chips ¾" and down and Sone sand including cost of reinforcement as per specification and direction of Engineer Incharge.	35	M <sup>3</sup>	Rs 1737.85	Rs.60,814.25
13.	Providing deep ruled cement in C.M. (1:3) with Sone sand (w/s) as per specification and direction of Engineer K/C on brick work exposed surface (Page-122, Item-10.5.11)	150	M <sup>3</sup>	Rs. 37.10	Rs. 5,565/-
14.	Providing reinfoement in R.C.C. work including cost of cutting, beiding, placing in position and binding with 16 BWG wire completes per drawing, specification and direction of Engineer I/C.	12	MT	Rs.17,309.80	Rs. 2,07,711 60
15.	Providing Wheel guard post of R.C.C. (1:2:4) with stone chips ¾" and down and Sone Sand (W/S) 3'-6' long and 9" dia including cost of shuttering, centering, curring and cost of reinforcement all complete as per drawing, specification all direction of Western Link Canal Hydroelectric Project)	35	NOS	Rs. 45/each	Rs. 1,575.00
16.	Dewatering, Diversion of Road and site clearance, etc.	L.S.			Rs 65,000/-
		Total			Rs.7,91,416.70
			Say		Rs. 7.92 lakhs

Note :

1. Cost of one No. S.L.R. Bridge on Power Channel Rs. 7.92 Lakhs
2. Cost of one No. S.L.R. Bridge on Tailrace Channel Rs. 7.92 Lakhs

# ESTIMATE OF COST FOR CONSTRUCTION OF POWER HOUSE OF DHILABAGH SMALL HYDROELECTRIC PROJECT

## POWER HOUSE

S.N.	Item of work	Quantity	Unit	Rate	Amount
1.	Earth work in excavation of foundation tranches of Power House structures service ways, retaining walls u/s & d/s aprons etc in all kinds of soil wet & dry including all lifts & leads by manual labour as per drawing, specification and direction of Engineer I/C (vide Item No. 10.1.7 & 10.1.33.1 & 10.1.34.1 Page-85,93 and 94 of Volume No.III & IV)	3500	M <sup>3</sup>	Rs. 21.90	Rs. 76,650/-
2.	Earth work in filling with selected earth on back fill of abutment wing walls and foundation tranches in larges nor exceeding 15cm well watered rammed fully completed by machine at CMC to the desired percentage of maximum dry density with all lifts & leads as per drawing, specification and direction of Engineer I/C (Page-86, Item-10.1.9)	6000	M <sup>3</sup>	Rs. 16.95	Rs. 1,01,700/-
3.	P.C.C.M. 7.5 (1:4:8) in foundation well below raft including cost of materials labour, mixing conveying laying, compacting and curing alongwith the cost of shuttering and centering all complete as per drawing specification and direction of Engineer I/C (Page-104, Item 10.3.2)	35	M3	Rs. 1268.26	Rs. 44,389.10
4.	(a) Providing and laying RCC M-200 in foundation and plinth and superstructure at all elevation with hard quartzite or trap stone chips including the cost of shuttering, curing, etc. all complete job excluding the cost of reinforcement and its benging, binding, cutting & placing with position (vide page-108, Item	850	M3	Rs.2016.25	Rs.1713812.50



10.3.10)

S.N.	Item of work	Quantity	Unit	Rate	Amount
	(a) Providing and laying RCC M-15 in foundation and plinth and superstructure at all elevation with hard quartzite or trap stone chips including the cost of shuttering, curing, etc. all complete job excluding the cost of reinforcement and its bending, binding, cutting & placing with position (vide page-109, Item 10.3.12)	250	M <sup>3</sup>	Rs.1729.95	Rs.432,487.50
5.	Supply & laying for Steel reinforcement in concrete work including straighting, derusting, curing, bending & binding with 16/20 SWG annealed wire, welding top but etc. with approved electrodes, providing cone block pins chain supports or reinforcement etc. with all materials complete as per drawing, specification and direction of Engineer Incharge (Page 122, Item No. 10.3.22)	62	MT	Rs.17309.30	Rs. 1073176.60
6.	Supply, fabrication, erection, fitting, fixing, painting & hoising for roof trusses including embeded parts as per drawing, specification & direction of Engineer I/C (Vide Page-18 & 126 Item No. (ii) and 5.5.28)	24	MT	Rs.21452.80	Rs.514867.20
7.	Supply, fabrication, fitting and fixing in position pressure release pipe and M.S. grill railing, steel ladders and steel hoisting agreements chequered plates, etc wherever necessary as per drawing, specification and direction of Engineer I/C. (Page-122, Item 3.5.28 and Page-18)	25	MT	Rs.23352.80	Rs. 5,83,820/-
8.	(a) Supply, erection, fitting & fixation of embeded plates 12mm thick to trash rack beams of the Power House as per drawing,	12	MT	Rs. 21452.90	Rs. 257434.80

specification and direction of  
Engineer Incharge

S.N.	Item of work	Quantity	Unit	Rate	Amount
	(b) Supply, erection, fitting & fixation M.S. Flats/rods in surrounding Mat/cables for earthing etc. all complete job as per direction of Engineer Incharge.	8	MT	Rs.21452.80	Rs.1,71622.40
9.	Providing and fixing steel doors and windows fully glazed etc as per I.S. specification and direction of Engineer I/C (Page 120 Item 5.5.18)	60	M <sup>2</sup>	Rs. 1173.10	Rs. 70,386/-
10.	Supplying, fitting and fixing in position 16 gauge rolling steel shutter as per I.S. specification including all railings, roller bearing, locking (doublelock) arrangement as per direction of Engineer I/C (Page-119, Item - 5.5.16)	15	M <sup>2</sup>	Rs. 977.70	Rs. 14,665.50
11.	Providing & fabricating steel purlin C.P.E. including the cost of its erection and one coat of protective painting as per specification and direction of Engineer I/C.	8	MT	Rs. 21,452	Rs. 171,622.40
12.	Providing & fixing 100mm H.C.I. rain water down pipe including its all fittings complete as per specification and direction of Engineer I/C (Page-56, Item 24(c) and Item 12.1.45.3, Page-220)	90	M	Rs. 226.80	Rs. 20,412/-
13.	Providing all materials & labour for expansion joints including supplying, fixing and plying of 230mm water stops filling with asphalt in diamond shaped hole in concrete of size 125mm square & providing 1 no. 12mm galvanised standard stream pipe, pipe clump & 12x250mm bolts & fixing 25mm thick bituminous board in the gap of the existing joints	50	M <sup>2</sup>	Rs. 985.35	Rs. 49,267.50



as per drawing, specification and direction of Engineer I/C (Page-161, Item 5.10.25)

S.N.	Item of work	Quantity	Unit	Rate Rs. 950/-	Amount Rs. 237,500/-
14.	Supply & laying standard jason of terphelt or equivalent water proofing material in doubleayers of tarpelt treatment in five course over exdpased roofs of Power House treating the top with gravel 100sft of surface (it will be the 6th and last course as per I.S.S. and manufactures specification the surface with brush and cloths lightly socket in vasing oil and cost of allmaterials & labour complete job as per drawing, specification and direction of Engineer I/C (Page-32, Item-84).	250	M <sup>2</sup>		
15.	Providing and laying 25mm thick mozaic tile flooring / glazed tiles as per specification and direction of Engineer I/C (Page-130, Item 5.6.15(c).	200	M <sup>2</sup>	Rs. 398.55	Rs. 79,710/-
16.	Providing & laying wall finishing work including colouring etc.	L.S.			Rs. 2,40,000/-
17.	Providing & painting steel structe, windows doors and etc.	L.S.			Rs. 30,000/-
18.	Providing & fixing water supply and sanitary installation work.	L.S.			Rs. 40,000/-
19.	Providing & fixing electrification works.	L.S.			Rs. 40,000/-
20.	Site, clearance, levelling and dressing.	L.S.			Rs. 15,000/-
21.	Dewatering during construction	L.S.			Rs. 23,00,000/-
22.	Providing & Laying precast slab R.C.C. *M-150) as per design and drawing all complete job (Over roof Trusses).	L.S.			Rs. 1,75,000/-
23.	Providing and laying foam concrete complete job over the precast slab as per design and instruction of Engineer I/C.	L.S.			Rs. 2,00,000/-
24.	Providing & Laying of "ESCAPE" & shifting of the existing village channel all complete job.	L.S.			Rs. 16,50,000/-

Total

Rs.1,03,03,523/-

Say

Rs. 103.03 lakhs

### ESTIMATE OF COST OF EXCAVATION OF TAIL RACE CHANNEL

S.N.	Item of work	Quantity	Unit	Rate	Amount
1	Earth work in excavation in all kinds of soil, within initial lead of 50m and initial lift of 1.5M as per drawing, specification and direction of Engineer I/S.	12600	M <sup>3</sup>	Rs. 17.90	Rs. 2,25,540/-
2.	Extra for lead of 25m or part thereof over initial lead of 30m as per specification (one extra lead).	12100	M <sup>3</sup>	Rs. 2/-	Rs. 24,200/-
3.	Extra for each lift of 1.0M or part thereof over the initial lift of 1.5M per specification.	12100	M <sup>3</sup>	Rs. 2/-	Rs. 24,000/-
4.	Extra for wet soil	2000	M <sup>3</sup>	Rs. 2/-	Rs. 4,000/-
5.	Extra for consolidation of earth in 225mm layers with power roller including watering and ramming as per specification.	12600	M <sup>3</sup>	Rs. 2-	Rs. 25,200/-
6.	Fine dressing and turfing with 3" thick grass sods obtained within a lead of 60M.	2700	M <sup>2</sup>	Rs. 2.30	Rs. 6,210/-
		Total			Rs. 3,09,350/-
				Say	Rs. 3.10 lakhs

### ESTIMATE OF COST OF LINING OF TAILRACE CHANNEL OF DHILABAGH SMALL HYDROELECTRIC PROJECT.

S.N.	Item of work	Quantity	Unit	Rate	Amount
1	Fine dressing the inside slope and bed of the canal with compacted fully and remmed well including wetting of required etc. all complete job as per direction of Engineer	6300	M <sup>2</sup>	Rs. 4.10	Rs. 25,830/-



Incharge for laying PCC precast concrete slab over the finished surface of canal inside slope and bed all complete job as per specification (Page-96,Item-10.1.36)

2.	Providing 0.6 x 0.45 x 0.056 M precast PCC (1:3:6) slab in the side slope and bed of the canal with groove of the slab etc. set in cement mortar (1:3) and flush pointing (1:2) including cost of all materials carriage, royalty, labours all complete job as per specification and direction of Engineer Incharge (Page-103, Item 10.2.19)	6800	M <sup>2</sup>	Rs. 125/-	Rs. 8,50,000/-
3.	Providing intake walls with cement concrete (1:2:4) with approved quality of stone chips 20mm down to 6mm graded and quality sand including the cost of forms work, making space bolts of suitable size to fix valve on top, curing and placing in position, mixing cement concrete in mixer all complete job and materials as per specification and direction of Engineer Incharge (Page 98, Item 10.2.3).	20	Nos	Rs. 396.40	Rs. 7,928/-
4.	Providing 10mm thick vertical joints in lining at suitable interval filled with bituminous materials of approved quality including cost of material all complete (Page 101, Item 10.2.10.1)	700	M	Rs. 180.60	Rs. 13,020/-
5.	Supplying, fitting and fixing 150 mm dia vertical nonreturn valves complete with bolts, nuts, plates etc all complete.	20	Nos.	Rs. 2,500/-	Rs. 50,000/-

S.N.	Item of work	Quantity	Unit	Rate	Amount
6.	Supply, fitting and fixing 150mm dia non return pocket valve complete with bolts, nuts etc all complete.	40	Nos.	Rs. 1,500/-	Rs. 60,000/-

7.	Lip cutting for providing transverse filter and drain all complete job including the cost and laying of sand/stone chips filter of graded all complete jogas per direction of Engineer I/C.	1400	M <sup>3</sup>	Rs. 25/-	Rs. 35,000/-
Total				Say	Rs. 10,41,778/- Rs. 10.42 lakhs

**ESTIMATE OF COST OF CONSTRUCTION OF D.L.R. BRIDGE AT 230 METERS  
OF POWER CHANNEL OF DHELABAGH HYDROELECTRIC PROJECT.**

S.N.	Item of work	Quantity	Unit	Rate	Amount
				Rs. 21.90	Rs. 7,665/-
1	Earth work in excavation of foundation truces in all kind of soils with all leads & lifts as per drawing, specification and direction of Engineer I/C.	350	M <sup>3</sup>		
2	P.C.C. (1:3:6) M-100 in foundation of piers with stone metal 1 1/2" & down & Sone sand (washed and screened) including the cost of centering, shuttering and curing etc. complete job as per drawing, specification and direction of Engineer Incharge.	35	M <sup>3</sup>	Rs. 2,184.90	Rs. 76,471.50
3	1st class brick work in CM (1:4) with quality Sone sand w/s in foundation and super structure including cost of curing, as per drawing, specification and direction of Engineer Incharge.	230	M <sup>3</sup>	Rs. 1,427.80	Rs. 3,28,394/-
4	Earth work in filling in foundation truces with previous soil including watering and remaining in layers as per specification and direction of Engineer Incharge complete.	200	M <sup>3</sup>	Rs. 16.96	Rs. 3,390/-
5	R.C.C. M-150 (1:2:4) with stone ship 3/4" and down and Sone sand w/s n bearing slab of piers including cost of	22	M <sup>3</sup>	Rs. 1,737.55	Rs. 38,226.10



shuttering, centring and curing etc. but excluding the cost of reinforcement as per drawing, specification and direction of Engineer Incharge (Page-105, Item 10.3.4)

6. Providing roller bearing with all accessories complete set for girder of bridge including supply, fabrication and erection complete as per drawing, specification and direction of Engineer I/C (for Class A-A loading)

8 Sets Rs. 5,000/- Rs. 40,000/-

7. R.C. (1:2:4) M-150 with stone chips  $\frac{3}{4}$ " and down and Sone sand (washed and screened) in deck slab, kerb and girder including the cost of storing, shuttering, centring and curing complete but excluding the cost of reinforcement as per specification and direction of Engineer Incharge (Page-63, Item-9.3.8)

35 M<sup>3</sup> Rs. 1,746.30 Rs. 61,120.50

8. Providing expansion joint in deck slab & weasing cost with angel iron and master fillet etc. including cost of supply, filling and mixing complete.

20 M Rs. 250/- Rs. 5,000/-

9. R.C.C. (1:2:4) M-150 with stone chips  $\frac{3}{4}$ " and down and Sone sand w/s in breast wall including cost of shuttering, centring and curing etc. complete but excluding cost of reinforcement.

8 M<sup>3</sup> Rs. 1,737.55 Rs. 13,900.40

10. R.C.C. (a.1 $\frac{1}{2}$ :3) M-200 with stone chips  $\frac{3}{4}$ " and down and Sone and in wearing coat as per drawing, specification and direction of Engineer I/C.

31 M<sup>3</sup> Rs. 2,094.30 Rs. 64,923.30

11. Providing 4" dia G.I. drain water pipe in deck slab with perforated cap including cost of material and labour complete as per specification and direction of Engineer I/C.

16 Each Rs. 80/- Rs. 1,280/-

12. Providing R.C.C. (1:2:4) M-150 railing and railing post with stone chip  $\frac{3}{4}$ " and down and Sone sand including cost of shuttering, centring

45 M<sup>3</sup> Rs. 1,737.55 Rs. 78,189.75

	and curing complete best excluding cost of reinforcement as per specification and direction of Engineer Incharge.				
13.	Providing deep ruled cement pointing in C.M. (1:3) with Sone sand (w/s) as per specification and direction of Engineer Incharge on brick work exposed surface.	240	M <sup>2</sup>	Rs. 37.10	Rs. 8,904.00
14.	Providing reinforcement in R.C.C. work including cost of cutting, bending, placing in position and binding with 16 BWG wire complete as per drawing, specification and direction of Engineer Incharge.	15	MT	Rs. 17,309.30	Rs. 2,59,638/-
15.	Providing wheel guard post of R.C.C. (1:2:4) with stonechips ¾" and down and Sone sand (w/s) 3'-6" long and 9" dia including cost of chattering, centering, curing and cost of reinforcement all complete as per drawing, specification and direction of Engineer I/C (vide Sone Western Link Canal Hydroelectric Project).	50	Nos.	Rs. 45/-	Rs. 2,250/-
16.	Dewatering, Diversion of Road and site clearance, etc.		L.S.		Rs. 3,00,000/-
	Total				Rs. 12,89,352.40
				Say	Rs. 12.90 lakhs

## DETAILS OF COST UNDER THE SUB-HEAD

### MISCELLANEOUS

S.N.	Particulars	Amount in Lakhs
1.	<u>Capital cost of</u>	
i.	Electrification of colony	L.S. Rs. 0.20
ii.	Water supply over head tank	L.S. Rs. 0.50
iii.	Sewage and drains	L.S. Rs. 0.20



BIHAR STATE HYDROELECTRIC POWER CORPORATION LTD  
PATNA

JAINAGARA SMALL HYDEL PROJECT  
(2 X 500 KW)

## DETAILED PROJECT REPORT

D. N. SINGH ASSOCIATES PVT. LTD.  
59/D SHRIKRISHNA PURI  
PATNA - 800 001

MARCH '99

## CHAPTER - II

### PROJECT COST ESTIMATE

11.1 While framing the project cost estimate the tentative design of the power channel, tailrace channel, power station building, D.L.R. bridge, approach road, etc. has been prepared and based on that the quantity of work involved has been calculated. The rates for civil works have been taken from the scheduled rates notified by Patna Division of P.W.D., Govt. of Bihar in October, 1998. The location of this power station falls in the area of the Division for which the rates have been prescribed.

11.2 As regards cost of the electrical and mechanical equipment the recent tender received against different works for Bihar and near about Bihar have been taken into consideration. The scheduled rates for transmission line is as per the scheduled rates of the Bihar State Electricity Board. Budgetary offers have also been obtained for E/M equipments.

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ABSTRACT OF PROJECT COST

Cost. Head	Item	Cost(Rs.in Lakhs)
100	Preliminary	Rs. 5.11 lakhs
102	Temporary construction and Enabling works	Rs. 20.60 lakhs
	Permanent Building works.	
200	Land	Rs. 7.73 lakhs
300	All other Civil Works	Rs.120.65 lakhs
400	Electrical/Mechanical works.	Rs.297.24 lakhs
500	Associated Transmission System	Rs. 30.00 lakhs
600	Trial and Commissioning activities	Rs. 1.00 lakhs
	Total Works:	Rs.482.33 lakhs
800	Overhead construction Account:	
	a. Establishment and Overhead construction charges (5% of total)	Rs. 24.11 lakhs
	b. Audit and Accounts (1% of total works).	Rs. 4.82 lakhs
	c. Tools & Plants	Rs. 5.00 lakhs
1000	Physical contingency (3% of total works)	Rs. 14.47 lakhs
	Grand Total:	Rs..530.73 lakhs
	SAY :	Rs. 531.00 lakhs.

JAINAGARA SMALL HYDEL PROJECT

GENERAL ABSTRACT OF COST FOR LAND, COMMUNICATION  
AND OTHER CIVIL WORKS

SUB-HEAD

AMOUNT  
(Rs.in Lakh)

A.	Preliminary		Rs. 5.11 Lakhs
B.	Land		Rs. 7.73 "
K.	Buildings		Rs. 20.60 "
J.	Other Civil Works :		
(i)	Power Channel with lining and S.L.R.Bridge	-- Rs.16.33 lakhs	
(ii)	Power House (Civil Works)	-- Rs.74.20 "	
(iii)	Tailrace Channel with lining and S.L.R. Bridge	-- Rs.15.03 "	
(iv)	D.L. Road Bridge	-- Rs.11.14 "	
(v)	Miscellaneous Civil works	-- Rs. 1.10 "	
(vi)	Communication	-- Rs. 2.85 "	
	Total	-- Rs.120.65 lakhs	Rs. 120.65 lakhs
E.	Tools & Plants		Rs. 5.00 lakhs.



DETAILS OF COST UNDER THE SUB-HEAD

A PRELIMINARY

<u>S.No.</u>	<u>PARTICULARS</u>	<u>AMOUNT IN (Rs.LACS)</u>	
1.	Detailed alignment, survey of Power Channel, Tailrace Channel including dugbelling, fixation of pillars etc.	L.S.	Rs. 50,000.00
2.	Establishing and fixing bench marks.	L.S.	Rs. 1,000.00
3.	Digging test pits along canal alignment and at structure site	L.S.	Rs. 5,000.00
4.	Bearing pressure test at Power-House sites and canal structures site and bore hole at site.	L.S.	Rs. 45,000.00
5.	Charges for consultancies for detailed design and engineering.	L.S.	Rs. 4,00,000.00
6.	Training of Engineers.	L.S.	Rs. 10,000.00
Total :			Rs. 5,11,000.00
SAY :			Rs. 5.11 lakhs

DETAILED OF COST UNDER SUB-HEAD

B - LAND

<u>S.No.</u>	<u>PARTICULARS</u>	<u>QTY.</u>	<u>RATE</u>	<u>UNIT</u>	<u>AMOUNT</u>
1.	Permanent land for acquisition Headrace channel, Power House, Tailrace channel, Switch Yard, etc.	3 Hect.	Rs. 80,000/ Per Acre per Acre (Rs.2.0 lacs per Hect.)		Rs.6,00,000.00
2.	Permanent land for construction of camps, colony.	0.4 Hect.	Rs. 2.0	Per Hect.	Rs. 80,000.00 lacs
3.	Compensation for standing crops for 3 Hect.	3 Hect.	Rs.30,000/- Per Hect.		Rs. 90,000.00 per Hect.
4.	Demarcation, dugbelling and fixing of boundary pillars including joint verification	L.S.			Rs. 2,500.00

Total : Rs. 7,72,500.00  
SAY : Rs. 7,73 Lakhs



DETAILS OF COST UNDER THE SUB-HEAD

K. - BUILDINGS

1. Residential Buildings with electrification, sewerage and plumbing.

Junior Engineer	1 No.	@ 95 M <sup>2</sup> each	95 M <sup>2</sup>
Operator/Asstt. Controller	4 Nos.	@ 70 M <sup>2</sup> each	280 M <sup>2</sup>
Grade IV staff.	2 Nos.	@ 40 M <sup>2</sup> each	80 M <sup>2</sup>

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Total for residential building = 455 M<sup>2</sup>  
@ Rs. 4,000/- M<sup>2</sup> 18,20,000/-

2. Non-Residential Building (Temporary)

Stone shed	10 Mx8M=80 M <sup>2</sup>	@ Rs. 3,000/- per M <sup>2</sup>	Rs. 2,40,000/-
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Total : Rs. 20,60,000/-  
SAY : Rs. 20.60 lakhs

J - POWER PLANT/APPERTENANCES AND OTHER (CIVIL WORKS)

GENERAL ABSTRACT OF COST

<u>S.No.</u>	<u>PARTICULAS</u>	<u>COST IN ₹. LAKHS</u>	
1.	Power Channel		₹. 16.33 lakhs
	I) Earth Work	4.44	
	II) Lining	4.97	
	III) Pucca structures (S.L.R. Bridge)	6.92	
	Total :	16.33 Lakhs	
2.	Power House	74.20 "	₹. 74.20 lakhs
3.	Tailrace Channel		₹. 15.03 lakhs
	I) Earth Work	1.61	
	II) Lining	6.50	
	III) Pucca structure (S.L.R. Bridge)	6.92	
	Total :	15.03 lakhs	
4.	D.L.R. Bridge	11.14 "	₹. 11.14 lakhs
5.	Miscellaneous		₹. 1.10 lakhs
6.	Communication		₹. 2.85 lakhs
			₹. 120.65 lakhs



ESTIMATE OF COST FOR EXCAVATION OF POWER CHANNEL

Sl.No.	ITEM OF WORK	QUANTITY	UNIT	RATE	AMOUNT
1	2	3	4	4	5
1.	Earth work in excavation in all kinds of soil within initial lead of 50 M and initial lift as per drawing, specification and direction of Engineer Incharge. (Page-85. Item No. 10.1.7).	3700	M <sup>3</sup>	Rs. 17.90	Rs. 66,230/-
2.	Earth work in filling in embankment in all kinds of soil with initial lead of 40 M and initial lift of 1.5 M as per specification and direction of Engineer Incharge. (Page-86, Item No. 10.1.9).	16000	M <sup>3</sup>	Rs. 16.95	Rs. 2,71,200/-
3.	Extra for each additional lead of 25 M or part thereof over initial lead of 30 M as per specification (one number extra lead).	16000	M <sup>3</sup>	Rs. 2/-	Rs. 32,000/-
4.	Extra for additional lift of 1.0 M or part thereof over initial lift of 1.5 M as per specification (two lifts) in Item No. (1) & (2) above.	10000	M <sup>3</sup>	Rs. 2/-	Rs. 20,000/-
5.	Extra for hard soil 10% of item 1 & 2.	2000	M <sup>3</sup>	Rs. 2/-	Rs. 4,000/-
6.	Extra for hard soil 10% of Item (1).	1000	M <sup>3</sup>	Rs. 2/-	Rs. 2,000/-
7.	Extra for consolidation in all layers with sheep foot roller including watering as per specification.	19700	M <sup>3</sup>	Rs. 2/-	Rs. 39,400/-
8.	Fine dressing & turfing with 3" thick grass sods obtained within a lead of 150 M and with all lifts (Page-97, Item-10.1.41.1).	4000	M <sup>2</sup>	Rs. 2.30	Rs. 9,200/-
Total :					Rs. 4,44,030/-
SAY :					Rs. 4,44,000/-



ESTIMATE OF COST OF LINING OF POWER CHANNEL OF  
JAINAGARA SMALL HYDROELECTRIC PROJECT

S.No.	ITEM OF WORK	QUANTITY	UNIT	RATE	AMOUNT
1	2	3	4	5	6
1.	Fine dressing the inside slope and bed of the canal with compacted fully and rammed well including wetting of required etc. all complete job as per direction of Engineer Incharge for laying PCC precast concrete slab over the finished surface of canal inside slope and bed all complete job as per specification. (Page-96, Item - 10.1.36).	2500	M <sup>2</sup>	Rs.4.10	Rs.10,250/-
2.	Providing 0.6x 0.45x 0.056M precast PCC (1:3:6) slab in the side slope and bed of the canal with groove of the x slab etc. set in cement mortar (1:3) and flush pointing (1:2) including cost of all materials carriage, royalty, labours all complete job as per specification and direction of Engineer Incharge. (Page-103, Item-10.2.19).	2500	M <sup>2</sup>	Rs.125/-	Rs.3,12,500/-
3.	Providing PCC (1:3:6) with approved quality of graded stone chips of 20 mm and down size and coarse granular sand of approved quality in lug slab, cross and longitudinal sleepers for lining of canal including mixing cement concrete in mixer vibrating and curing including screening royalty all taxes, carriage of materials etc with all lifts and leads, removal of shuttering etc all complete job as per drawing, specification and direction of Engineer Incharge.	40	M <sup>3</sup>	Rs.2184.90	Rs.87,396/-
4.	Providing intake walls with cement concrete (1:2:4) with approved quality of stone-chips 20 mm down to 6 mm graded and quality sand including the cost of form work, making space for under drainage pipes, fixing				



1	2	3	4	5	6
	bolts of suitable size to fix valve on top, curing and placing in position, mixing cement concrete in mixer all complete job including royalty all taxes with cost of all labour and materials as per specification and direction of Engineer Incharge (Page-98, Item - 10.2.3).	10	Nos.	Rs.396.40	Rs.3,964/-
5.	Providing 10 mm thick vertical joints in lining at suitable interval filled with bituminous materials of approved quality including cost of materials all complete (Page-101, Item - 10.2.10.1).	400	M	Rs.18.60	Rs.7,440/-
6.	Supplying, fitting and fixing 150 mm dia vertical nonreturn valves complete with bolts, nuts plates etc. all complete.	10	Nos.	Rs.2500/-	Rs.25,000/-
7.	Supplying, fitting and fixing 50 mm dia nonreturn pocket valves complete with bolts, nuts etc. all complete.	25	Nos.	Rs.1500/-	Rs.37,500/-
8.	Lip cutting for providing trans-filter and drain all complete job including the cost and laying of sand/stone chips filter of graded all complete job as per direction of Engineer Incharge.	500 M	M <sup>3</sup>	Rs. 25/-	Rs.12,500/-
Total :					Rs.4,96,550/-
SAY :					Rs.4,97,000/-

ESTIMATE OF COST OF CONSTRUCTION OF EACH S.I.R. BRIDGE; ONE ON POWER CHANNEL AND ONE ON TAILRACE CHANNEL OF JAINAGARA S.H.P.

Sl.No.	ITEM OF WORK	QTY.	UNIT	RATE	AMOUNT
1	2	3	4	5	6
1.	Earth work in excavation of foundation trunches in all kinds of soils with all leads & lifts as per drawing, specification and direction of Engineer Incharge.	210	M <sup>3</sup>	Rs.21.90	Rs.4,599.00
2.	P.C.C. (1:3:6) M100 in founda- of piers with stone metal 1½" and down and Sone sand (washed and screened) including the cost of contering, shuttering and curing etc. complete job as per drawing, specification and direction of Engineer Incharge.	20	M <sup>3</sup>	Rs.2184.90	Rs.43,698.00
3.	Ist class brick work in C.M. (1:4) with quality Sone sand w/s in foundation and superstructure including cost of curing, as per drawing, specification and direction of Engineer Incharge. (Page-113, Item - 10.4.2).	145	m <sup>3</sup>	Rs.1427.80	Rs.2,07,031.00
4.	Earth work in filling in founda- tion trunches with previous soil including watering & remaining in layers as per specification and direction of Engineer I/C complete.	145	M <sup>3</sup>	Rs.16.95	Rs.2,467.40
5.	R.C.C. M150 (1:2:4) with stone chips ¾" and down and Sone sand (washed & screened) in bearing slab of piers including cost of shuttering, centring and curring etc. but excluding the cost of reinforcement as per drawing, specification and direction of Engineer I/c. (Page-105, Item - 10.3.4).	12	M <sup>3</sup>	Rs.1737.55	Rs.20,850.60



1	2	3	4	5	6
6.	Providing roller bearing with all accessories complete set for girder of bridge including supply, fabrication and erection complete as per drawing, specification and direction of Engineer I/c (for class - A-A loading).	8 sets	Sets	Rs.5000/- each	Rs.40,000/-
7.	R.C.C. (1:2:4) M150 with stone chips 3/4" and down and Sone sand (washed and screened) in deck slab, kerb and girder including the cost of storing, shuttering, centring and curing complete but excluding the cost of reinforcement as per specification and direction of Engineer Incharge (Page-63, Item - 9.3.8).	19	M <sup>3</sup>	Rs.1746.30	Rs.33,179.70
8.	Providing expansion joint in deck slab and weasing coat with angle iron and masterfillet etc including cost of supply, filling and mixing complete.	12	M	Rs. 250/-	Rs. 3,000/-
9.	R.C.C. (1:2:4) M150 with Stone chips 3/4" and down and Sone sand w/s in precast wall including cost of shuttering, centring and curing, etc complete but excluding cost of reinforcement.	4	M <sup>3</sup>	Rs.1737.55	Rs.6,950.20
10.	R.C.C (1:1/2":30 M200 with stone chips 3/4" and down and Sone sand in wearing coat as per drawing, specification and direction of Engineer I/c (Page-110, Item - 10.3.13).	15	M <sup>3</sup>	Rs.2094.30	Rs.31,414.50
11.	Providing 4" dia G.I. drain water pipe in deck slab with perforated cap including cost of material & labour complete as per specification and direction of Engineer Incharge.	12	nos.	Rs.80 each	Rs. 960/-

1	2	3	4	5	6
12.	Providing R.C.C. (1:2:4) M200 railing and railing post with stone chips 3/4" and down and Sone sand including cost of shuttering, centring and curing complete best excluding cost of reinforcement as per specification and direction of Engineer Incharge.	30	M <sup>3</sup>	Rs. 1737.55	Rs. 52,126.50
13.	Providing deep ruled cement in C.M. (1:3) with Sone sand (w/s) as per specification and direction of Engineer I/c on brick work exposed surface (Page-122, Item - 10.5.11).	145	M <sup>2</sup>	Rs. 37.10	Rs. 5,379.50
14.	Providing reinforcement in R.C.C work including cost of cutting, beiding, placing in position and binding with 16 BWG wire complete as per drawing, specification and direction of Engineer I/c.	10	MT	Rs. 17369.30	Rs. 1,73,093.00
15.	Providing Wheel guard post of R.C.C. (1:2:4) with stone chips 3/4" and down and Sone Sand (w/s) 3'-6' long and 9" dia including cost of shuttering, centering, curring and cost of reinforcement all complete as per drawing, specification and direction of Western Link Canal Hydrowlectric Project).	35	Nos.	Rs. 45/- each	Rs. 1,575.00
16.	Dewatering, Diversion of Road and site clearance, etc.	L.S.			Rs. 65,000/-
Total :					Rs. 6,91,324.40
Say :					Rs. 6,92,000.00

Note:-

- (1) Cost of one No. S.L.R. Bridge on Power Channel Rs. 6.92 lakhs
- (2) Cost of one No. S.L.R. Bridge on Tailrace Channel Rs. 6.92 lakhs.



ESTIMATE OF COST FOR CONSTRUCTION OF POWER HOUSE  
OF JAINAGARA SMALL HYDROELECTRIC PROJECT

POWER HOUSE

S.No.	Item of work	Qty.	Unit	Rate	Amount
1	2	3	4	5	6
1.	Earth work in excavation of foundation tranches of Power-House structures service ways, retaining walls u/s & d/s aprons etc in all kinds of soil wet & dry including all lifts & leads by manual labour as per drawing, specification and direction of Engineer I/c. (Vide Item No. 10.1.7 & 10.1.33.1 & 10.1.34.1 Page-85, 93 & 94 of Volume No. III & IV).	2300	M <sup>3</sup>	Rs.21.90/M <sup>3</sup>	Rs.50,370/-
2.	Earth work in filling with selected earth on back fill of abutment wing walls and foundation tranches in layers not exceeding 15 cm well watered rammed fully completed by machine at CMC to the desired percentage of maximum dry density with all lifts & leads as per drawing, specification and direction of Engineer I/c (Page-86, item - 10.1.9).	4200	M <sup>3</sup>	Rs.16.95	Rs.71,190/-
3.	P.C.C.M 7.5 (1:4:8) in foundation well below raft including cost of materials labour, mixing conveying laying, compacting and curing alongwith the cost of shuttering and centering all				

1	2	3	4	5	6
	complete as per drawing, specification and direction of Engineer I/c. (Page-104, Item 10.3.2).	16	m <sup>3</sup>	Rs.1268.25	Rs.20,292/-
4.	(a) Providing and laying RCC M200 in foundation and plinth and superstructure at all elevation with hard quartzite or trap stone chips including the cost of shuttering, curing, etc all complete job excluding the cost of reinforcement and its benging, binding, cutting & placing with position. (Vide page-108, Item 10.3.10).	600	M <sup>3</sup>	Rs.2016.25	Rs.12,09,750/-
	(b) Providing and laying RCC M15 in foundation and plinth and superstructure at all elevation with hard quartzite or trap stone chips including the cost of shuttering, curing, etc all complete job excluding the cost of reinforcement and its benging, binding, cutting & placing with position and direction of Engineer I/c. (page-109, Item 10.3.12).	100	M <sup>3</sup>	Rs.1729.95	Rs.1,72,995/-
5.	Supply & laying for Steel reinforcement in concrete work including straighting, derusting, curing, bending & binding with 16/20 SWG annealed wire, welding top butt etc. with approved electrodes, providing cone block pins chain supports or reinforcement etc. with all materials complete as per drawing, specification and direction of Engineer Incharge (Page-112, Item No. 10.3.22).	50 MT	MT	Rs.17,309.30	Rs.8,65,465/-
6.	Supply, fabrication, erection, fitting, fixing, painting & hoisting of roof trusses including embedded parts as per drawing, specification & direction of Engineer I/c. (Vide Page-18 and 126, Item No. (ii) and 5.5.28).	20 MT	MT	Rs.21,452.80	Rs.4,29,056/-



1	2	3	4	5	6
7.	Supply, fabrication, fitting and fixing in position pressure release pipe and M.S. grill railing, steel ladders and steel hoisting arrangements chequered plates, etc wherever necessary as per drawing, specification and direction of Engineer I/c. (Page-122, Item 3.5.28 and Page-18).	25 MT MT		Rs.23,352.80	Rs.5,83,820/-
8.	(a) Supply, erection, fitting & fixing of embeded plates 12 mm thick to trash rack beams of the Power House as per drawing, specification and direction of Engineer Incharge.	10 MT MT		Rs.21,452.80	Rs.2,14,528/-
	(b) Supply, erection, fitting & fixing of M.S. Flats/rods in surrounding Mat/cables for earthing etc. all complete job as per direction of Engineer Incharge.	8 MT MT		Rs.21,452.80	Rs.1,71,622.40
9.	Providing and fixing steel doors and windows fully glazed etc as per I.S. specification and direction of Engineer I/c. (Page-120, Item 5.5.18).	60 M <sup>2</sup> M <sup>2</sup>		Rs.1173.10	Rs.70,386/-
10.	Supplying, fitting and fixing in position 16 gauge rolling steel shutter as per I.S. specification including all railings, roller bearing, locking (double lock) arrangement as per direction of Engineer I/c. (Page-119, Item - 5.5.16).	15 M <sup>2</sup> M <sup>2</sup>		Rs.977.70	Rs.14,665.50
11.	Providing & fabricating steel purlin C.P.E. including the cost of its erection and one coat of protective painting as per specification and direction of Engineer I/c.	8 MT MT		Rs.21,452.80	Rs.1,71,622.40
12.	Providing & fixing 100 mm H.C.I rain water down pipe including its all fittings complete as per specification and direction of Engineer I/c. (Page-56, Item-24 (c) and Item 12.1.45.3, Page-220).	90 M M		Rs.226.80	Rs.20,412/-

1	2	3	4	5	6
13.	Providing all materials & labour for expansion joints including supplying, fixing and placing of 230 mm water stops filling with asphalt in diamond shaped hole in concrete of size 125 mm square & providing 1 no. 12 mm galvanised standard stream pipe, pipe clump & 12x250 mm bolts & fixing 25 mm thick bituminous board in the gap of the existing joints as per drawing, specification and direction of Engineer Incharge. (page-161, Item - 5.10.25).	50 M <sup>2</sup>	M <sup>2</sup>	Rs.985.85	Rs.49,292.50
14.	Supplying & laying standard jason of terphelt or equivalent water proofing material in double layers of tarpfelt treatment in five course over exposed roofs of Power House treating the top with gravel 100 sft of surface (it will be the 6th and last course as per I.S.S. and manufactures specification the surface with brush and cloths lightly soaked in vasine oil and cost of all materials & labour complete job as per drawing, specification and direction of Engineer I/c (Page-32, Item-84).	220 M <sup>2</sup>	M <sup>2</sup>	Rs. 950/-	Rs.2,09,000/-
15.	Providing and laying 25mm thick mozaic tile flooring/glazed tiles as per specification and direction of Engineer I/c (Page-130, Item - 5.6.15 (c).	200M <sup>2</sup>	M <sup>2</sup>	Rs.398.55	Rs.79,710/-
16.	Providing & laying wall finishing work including colouring etc.	L.S.			Rs.2,40,000/-
17.	Providing & painting steel struc- ture, windows doors and etc.	L.S.			Rs.30,000/-
18.	Providing & fixing water supply and sanitary installation work.	L.S.			Rs.40,000/-
19.	Providing & fixing electrification works.	L.S.			Rs.40,000/-



01	02	3	4	5	6
20.	Site clearance, levelling and dressing	L.S.		Rs. 15,000/-	
21.	Dewatering during construction	L.S.		Rs. 13,00,000/-	
22.	Providing & laying precast slab R.C.C. (M150) as per design and drawing all complete job. (over roof Trusses).	L.S.		Rs. 1,50,000/-	
23.	Providing and laying foam concrete complete job over the precast slab as per design and instruction of Engineer I/c.	L.S.		Rs. 2,00,000/-	
24.	Providing and laying "ESCAPE" with Hume Pipe etc. etc. complete job as per direction of Engineer Incharge	L.S.		Rs. 10,00,000/-	
Total-				Rs. 74,19,176.80	
Say-				Rs. 74,20,000/- (Rs. 74,20 lakhs).	

ESTIMATE OF COST OF EXCAVATION OF TAILRACE CHANNEL

Sl.No.	Item of work	Qty.	Unit	Rate	Amount
1.	Earth work in excavation in all kinds of soil, within initial lead of 50m and initial lift of 1.5 m as per drawing, specification and direction of Engineer I/c.	6500	M <sup>3</sup>	Rs. 17.90	Rs. 1,16,350/-
2.	Extra for lead of 25 M or part thereof over initial lead of 30 M as per specification (one extra lead).	6500	M <sup>3</sup>	Rs. 2/-	Rs. 13,000/-
3.	Extra for each lift of 1.0 M. or part thereof over the initial lift of 1.5 M per specification.	6500	M <sup>3</sup>	Rs. 2/-	Rs. 13,000/-
4.	Extra for wet soil	100	M <sup>3</sup>	Rs. 2/-	Rs. 2,000/-
5.	Extra for consolidation of earth in 225 mm layers with power roller including watering and ramming as per specification.	6500	M <sup>3</sup>	Rs. 2/-	Rs. 13,000/-
6.	Fine dressing and turfing with 3" thick grass sods obtained within a lead of 60 M.	1500	M <sup>2</sup>	Rs. 2.30	Rs. 3,450/-
Total :					Rs. 1,60,800/-
Say :					Rs. 1.61 lacs



ESTIMATE OF COST OF LINING OF TAILRACE CHANNEL OF  
JAINAGARA SMALL HYDROELECTRIC PROJECT

S.No.	Item of work	Qty.	Unit	Rate	Amount
1	2	3	4	5	6
1.	Fine dressing the inside slope and bed of the canal with compacted fully and rammed well including wetting of required etc all complete job as per direction of Engineer Incharge for laying PCC precast concrete slab over the finished surface of canal inside slope and bed all complete job as per specification (Page-96, Item - 10.1.36).	4000	M <sup>2</sup>	Rs. 4.10	Rs.16,400/-
2.	Providing 0.6x0.45x0.056M precast PCC (1:3:6) slab in the side slope and bed of the canal with groove of the slab etc set in cement mortar (1:3) and flush pointing (1:2) including cost of all materials carriage, royalty, labours all complete job as per specification and direction of Engineer Incharge. (Page-103, Item-10.2.19).	4000	M <sup>2</sup>	Rs. 125/-	Rs.5,00,000/-
3.	Providing intake walls with cement concrete (1:2:4) with approved quality of stone-chips 20 mm down to 6 mm graded and quality sand including the cost of form work, making space bolts of suitable size to fix valve on top, curing and placing in position, mixing cement concrete in mixer all complete job including royalty all taxes with cost of all labour and materials as per specification and direction of Engineer Incharge. (Page-98, Item - 10.2.3).	20	Nos.	Rs. 396.40	Rs.7,928/-
4.	Providing 10 mm thick vertical joints in lining at suitable interval filled with bituminous materials of approved quality including cost of materials all complete. (Page-101, Item - 10.2.10.1).	700	M	Rs.18.60	Rs.13,020/-

1	2	3	4	5	6
5.	Supplying, fitting and fixing 150 mm dia vertical nonreturn valves complete with bolts, nuts plates etc all complete.	16	Nos.	Rs.2,500/-	Rs.40,000/-
6.	Supplying, fitting and fixing 50 mm dia nonreturn pocket valves complete with bolts, nuts etc all complete.	35	Nos.	Rs.1,500/-	Rs.52,500/-
7.	Lip cutting for providing transverse filter and drain all complete job including the cost and laying of sand/stone chips filter of graded all complete job as per direction of Engineer I/c.	800	M <sup>3</sup>	Rs. 25/-	Rs.20,000/-
				Total :	Rs.6,49,848/-
				Say :	Rs.6,50,000/-



ESTIMATE OF COST OF CONSTRUCTION OF D.L.R. BRIDGE-CUM-H/R AT 165 METRES  
OF POWER CHANNEL OF JAINAGARA HYDROELECTRIC PROJECT.

S.No.	Item of work	Qty.	Unit	Rate	Amount
1	2	3	4	5	6
1.	Earth work in excavation of foundation trenches in all kind of soils with all leads & lifts as per drawing, specification and direction of Engineer I/c.	300	M <sup>3</sup>	Rs.21.90	Rs.6,570/-
2.	P.C.C. (1:3:6) M100 in foundation of piers with stone metal 1½" & down & Sone sand (washed & screened) including the cost of centering, shuttering and curing etc complete job as per drawing, specification and direction of Engineer Incharge.	30	M <sup>3</sup>	Rs.2184.90	Rs.65,547/-
3.	Ist class brick work in CM (1:4) with quality Sone sand w/s in foundation and superstructure including cost of curing, as per drawing, specification and direction of Engineer Incharge.	200	M <sup>3</sup>	Rs.1,427.80	Rs.2,85,560/-
4.	Earth work in filling in foundation trenches with previous soil including watering & remaining in layers as per specification and direction of Engineer Incharge complete.	200	M <sup>3</sup>	Rs.16.95	Rs.3,390/-
5.	RCC M150 (1:2:4) with stone chips ¾" and down and Sone sand (washed and screened in bearing slab of piers including cost of shuttering, centring and curing etc but excluding the cost of reinforcement as per drawing, specification and direction of Engineer Incharge. (Page-105, Item - 10.3.4)	15	M <sup>3</sup>	Rs.1,737.55	Rs.26,063.25

1	2	3	4	5	6
6.	Providing roller bearing with all accessories complete set for girder of bridge including supply, fabrication and erection complete as per drawing, specification and direction of Engineer I/c (for Class - A-A loading).	8	Sets	Rs.5,000/-	Rs.40,000/-
7.	R.C.C. (1:2:4) M-150 with stone chips 3/4" and down and fine sand (washed and screened) in deck slab, keel and girder including the cost of stirring, shuttering, centering and curing complete but excluding the cost of reinforcement as per specification and direction of Engineer incharge. (Page-6). Item - 9.3.8).	25	M <sup>3</sup>	Rs.1,746.30	Rs.43,657.50
8.	Providing expansion joint in deck slab & wearing coat with angle iron and master filled etc including cost of supply, filling and mixing complete.	15	M	Rs.250/-	Rs.3,750/-
9.	RCC (1:2:4) M150 with stone chips 3/4" and down and fine sand w/a in breast wall including cost of shuttering, centering and curing etc complete but excluding cost of reinforcement.	5	M <sup>3</sup>	Rs.1,727.55	Rs.8,687.75
10.	RCC (1:1:1.33) M200 with stone chips 3/4" and down and fine sand in wearing coat as per drawing, specification and direction of Engineer I/c.	20	M <sup>3</sup>	Rs.2,094.30	Rs.41,886/-
11.	Providing 1" dia G.I. drain water pipe in deck slab with perforated cap including cost of material and labour complete as per specification and direction of Engineer I/c.	16	Nos.	Rs.80 each.	Rs.1,280/-



1	2	3	4	5	6
12.	Providing RCC (1:2:4) M150 railing and railing post with stone chips 3/4" and down and Sone sand including cost of shuttering, centring and curing complete best excluding cost of reinforcement as per specification and direction of Engineer Incharge.	40	M <sup>3</sup>	Rs.1737.55	Rs.69,502.00
13.	Providing deep ruled cement pointing in C.M. (1:3) with Sone sand (w/s) as per specification and direction of Engineer Incharge on brick work exposed surface. (Page-122, Item-10.5.11).	200	M <sup>2</sup>	Rs..37.10	Rs.7,420/-
14.	Providing reinforcement in RCC work including cost of cutting, bending, placing in position and binding with 16 BWG wire complete as per drawing, specification and direction of Engineer Incharge.	12	MT	Rs .17309.30	Rs.2,07,711.60
15.	Providing wheel guard post of RCC (1:2:4) with stonechips 3/4" and down and Sone sand (w/s) 3'-6" long and 9" dia including cost of shuttering, centering, curing and cost of reinforcement all complete as per drawing, specification and direction of Engineer I/c (vide Sone Western Link Canal Hydroelectric Project).	50	Nos.	Rs. 45/- each	Rs.2,250/-
16.	Dewatering, Diversion of Road and site clearance, etc.	L.S.			Rs.3,00,000/-
Total :					Rs.11,13,275.10
Say :					Rs.11.14 lakhs

DETAILS OF COST UNDER THE SUB-HEAD

MISCELLANEOUS

<u>S.No.</u>	<u>PARTICULARS</u>	<u>AMOUNT IN Rs LAKHS</u>	
1.	Capital cost of -		
	i) Electrification of colony	L.S.	Rs. 0.20
	ii) Water supply over head tank	L.S.	Rs. 0.50
	iii) Sewage and drains	L.S.	Rs. 0.20
2.	<u>OTHER ITEMS</u>		
	i) Technical record	L.S.	Rs. 0.10
	Photographic recors	L.S.	Rs. 0.10
	ii) Tree Plantation		
	TOTAL :		Rs. 1.10 lakhs.



DETAILS OF COST UNDER THE SUB-HEAD

COMMUNICATION

<u>S.No.</u>	<u>PARTICULARS</u>	<u>QTY.</u>	<u>RATE</u>	<u>AMOUNT (IN LAKHS)</u>
1.	Cost of improving the existing road upto Power House site. (widening & metalling)	1.5 km	Rs. 1.5 lac per km.	Rs. 2.25 lakhs
2.	Construction of colony road.	L.S		Rs. 0.60 lakhs
			TOTAL :	Rs. 2.85 lakhs

DETAILS OF COST UNDER THE SUB-HEAD

E - SPECIAL TOOLS AND PLANTS

One Number Jeep (Inspection Vehicle)

@ Rs. 40 lakhs each

Rs. 4.00 lakhs

other special tools

Rs. 1.00<sup>t</sup> lakh

TOTAL :

5.00 lakhs



# ESTIMATE FOR ELECTRICAL & MECHANICAL EQUIPMENT INCLUDING EVACUATION SYSTEM

## A. ELECTRICAL & MECHANICAL EQUIPMENTS

	Quantity	Unit Price Ex-Works (in lacs)	Total Price (in lacs)
1. Vertical Semi-Kaplan, Turbine with Syphon Intake.	2	37.00	74.00
2. Governing System	2	10.00	20.00
3. Speed Increaser	2	13.00	26.00
4. E.O.T. Crane - 10 T Capacity	1	5.00	5.00
5. Generator	2	21.00	42.00
6. Power Transformer	1	9.00	9.00
7. Battery with charging System	1 set	3.00	3.00
8. Switchboard Panels for Turbine, Generator, Auxiliary, etc.	L.S.	22.00	22.00
9. Switch-Yard	L.S.	5.00	5.00
10. Cabling/Earthing/Lighting/ Ventilation/Firefighting.	L.S.	15.00	15.00
11. 30 KVA diesel Generator with Control Panel and emergency Supply System	L.S.	2.00	2.00
12. Tools & Plants.	L.S.	1.00	1.00
13. Spares for two O & M.	L.S.	8.00	8.00
	Total -		232.00
14. Excise duty 12%			27.84
	Total -		259.84
15. C.S.T. 4% Central Sales Tax			10.40
16. Transport and transit insurance & insurance during erection			4.00
17. Miscellaneous overhead charges	L.S.		3.00
18. Cost of erection, testing and commissioning of equipment covered from SI.1 to 11 above.	L.S.		20.00
	Grand Total -		297.24

## B. COST OF POWER EVACUATION :

1. Cost of Transmission Line 11 KV  
on Rabbit Conductor 15 KM in  
length.

L.S. 30.00

Total - 30.00

## 12. ESTIMATED COST OF GENERATION

S.No.	Particulars	1000 KW
1.	Installed capacity	Rs. 5,31,00,000/-
2.	Cost of the Project	Rs. 53,100/-
3.	Cost/KW (2/1)	Rs. 5,31,000/-
4.	Interest on capital during construction	Rs. 5,36,31,000/-
5.	Total sum at large (2+4)	Rs. 53,631/-
6.	Cost/KW including interest during construction (5/1)	72,00,000KWh
7.	Annual generation	36,000 KWh
8.	Auxiliary consumption (@0.5%)	71,64,000 KWh
9.	Units sent out/year (7-8)	Rs. 69,63,100/-
10.	Fixed charges (a+b+c)	
a.	Interest charges-	Rs. 53,31,100/-
b.	O&M charges @ 1% of 2	Rs. 5,31,000/-
c.	Depreciation @2.0% of 2	Rs. 10,62,000/-
11.	Total fixed and running charges per annum (10)	Rs. 69,56,100/-
12.	Cost/KWh generated 11/7x100	Rs. 0.95
13.	Return on capital 16% and general reserve @ 1% i.e. 16.5% of project cost (0.165x2)	Rs. 87,61,500/-
14.	Profit/Unit sent out 13/9x100	Rs. 0.96 P+Rs. 1.22
15.	Cost of sale of energy for sending out	=Rs. 2.18

Note:

a. Interest during construction is calculated assuming total duration of construction of the project as 24 months and an interest rate of 10% as per formula:

$$I = \frac{PNR}{2 \times 12 \times 100}$$

Where,

P = Project Cost;  
N = Total duration of the project in months;  
R = Interest rate in %  
I = Interest during construction

b. As such projects are to be executed through IPP route 16% return on capital has been allowed as per Government of India's Notifications.



13. PAY BACK PERIOD

1. INVESTMENT

1.1	Project capital cost	Rs. 5,31,00,000/-
1.2	Interest during construction	Rs. 5,31,000/-
1.3	Total investment	Rs. 5,36,31,000/-

2. REVENUE DURING OPERATION

2.1 Annual Revenue Generated

a.	Units sent out/year KWh (Refer Item 9 of calculation of cost of generation)	71,64,000 KWh
b.	Selling price of power Paise/KWh (Refer Item 16 of Calculation of cost of generation)	218 Paise.
c.	Total revenue generated: axb	Rs. 1,56,17,520/-

2.2 Annual Generation Costs Incurred

a.	Annual fixed charges excluding depreciation and interest charges (Refer Item 10(b) of calculation of cost of generation)	Rs. 5,31,000/-
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2.3	Net annual revenue generation (2.1 (c) - 2.2)	Rs. 1,50,86,520/-
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3.0	Pay- back period (1.3/2.3)	3.55 years.
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BENEFIT COST RATIO

A.	Annual Expenses	Rs. 69,56,000/-
1.	O & M	Rs. 5,31,000/-
2.	Depreciation charges @ 2%	Rs. 10,62,000/-
3.	Interest charges	Rs. 53,63,000/-
B.	Annual Revenue	Rs. 1,56,17,520/-
C.	Benefit cost Ratio (B/A)	2.24



14. FINANCIAL STATEMENT

CAPITAL EXPENDITURE DURING FIRST YEAR - R. 157.84 LAKHS  
CAPITAL EXPENDITURE DURING SECOND YEAR - R. 373.16 LAKHS

YEAR	CAPITAL OUTLAY (R. LAKHS)	EXPENDI- TURE DURING THE YEAR IN R. LAKHS	SIMPLE INTEREST ON COL. 2 @ 10% ON COL. 3 @ 5% R. IN LAKHS	DEPRECIA- TION @ 2% ON COL. 2 R. LAKHS	0 & N EXPENSES @ 1% ON COL. 2 R. LAKHS	TOTAL WORKING EXPENSES IN LAKHS (5+6)	UNIT GENER- ATED IN LAKHS KWH	UNIT SENT OUT IN LAKHS KWH	ANTICI- PATED REVENUE @ 21% P/ KWH IN LAKHS	NET REVENUE (10-7) R. LAKHS	SURPLUS (+) OR DEFICIT (-) AFTER MEETING INTEREST (11-4) R. LAKHS	ACCUMULA- TED SURPLUS (+) OR DEFICIT (-) IN LAKHS PREVIOUS YEAR OF COL. 13	SUM AT LARGE AT THE END OF THE YEAR COL. 2+3-13	% RETURN 12 x 100 14
01.	02	03	04	05	06	07	08	09	10	11	12	13	14	15
1	-	157.84	7.892	-	-	-	-	-	-	-	-7.892	-7.892	165.732	-4.76
2	157.84	373.16	34.442	3.156	1.578	4.73	72.00	71.64	156.17	-4.73	-39.172	-47.064	578.054	-6.77
3	531.00	-	53.1	10.62	5.31	15.93	72.00	71.64	156.17	140.24	87.14	40.07	490.93	17.74
4	531.00	-	53.1	10.62	5.31	15.93	72.00	71.64	156.17	140.24	87.14	127.21	403.79	21.58
5	531.00	-	53.1	10.62	5.31	15.93	72.00	71.64	156.17	140.24	87.14	214.35	316.65	27.5
6	531.00	-	53.1	10.62	5.31	15.93	72.00	71.64	156.17	140.24	87.14	301.49	229.51	37.96
7	531.00	-	53.1	10.62	5.31	15.93	72.00	71.64	156.17	140.24	87.14	388.63	142.37	61.20
8	531.00	-	53.1	10.62	5.31	15.93	72.00	71.64	156.17	140.24	87.14	475.77	55.23	157.77
9	531.00	-	53.1	10.62	5.31	15.93	72.00	71.64	156.17	140.24	87.14	562.91	-31.91	
10	531.00	-	53.1	10.62	5.31	15.93	72.00	71.64	156.17	140.24	87.14	650.05	-119.05	

15. ENVIRONMENT AND ECOLOGICAL ASPECTS

QUESTIONNAIRE ISSUED BY THE DEPARTMENT OF ENVIRONMENT  
FOR RIVER VALLEY PROJECTS

1.0 Detailed basic information affecting the environment :

1.01 Predominant existing land use : Comprises mostly agricultural  
pattern (agricultural land land owned by W.R. Deptt. of  
reserve and the forests etc.) Govt. of Bihar.  
in project area upto 10 km,  
upstream.

1.02 Break up of submerged area : The project does not envisage  
total submerged area any reservoir and hence  
(1% hectares) question of submergence does  
not arise. A bypass channel  
will be constructed parallel  
to Buxar canal of Sone canal  
system.

Forest land

Cultivated land

Shrubs & fallow

Rocky outcrop : Nil

Wet land

Open water

Other use

1.03 a. Forest type in catchment :  
and submerged areas.

b. Extent and nature of :  
forest to be cut for  
construction of roads,  
colony and other  
appurtenant works.

1.04 Duration of project's  
construction : 24 months



BIHAR  
POWER

STATE  
CORPORATION  
\*\*\*

HYDROELECTRIC  
LIMITED

FINAL PROJECT REPORT OF FINAL  
POWER HOUSE OF EASTERN GANDAK  
CANAL HYDROELECTRIC POWER  
STATION (3 x 5 MW) AT  
BALMIKINGAR

*Balmikingar*

( Report, Salient Features,  
Cost Estimates, Analysis  
of Rates, Financial Fore-  
casts, Computation of  
Energy Generation and  
computation of Final  
Comments/Clearances for  
the project proposed )

-6-      -57-

GENERAL ABSTRACT OF COST

for 1st POWER HOUSE- EAST  
GANDAK CANAL HYDROELECTRIC POWER  
PROJECT 3x 5 MW.

	Rs.
1. Abstract of cost of Civil works-	7,60,00,000
2. Abstract of cost of Electrical and Mechanical Works including Direct & Indirect Charges pertaining to production (P- Production)	9,74,73,800
3. T- Transmission- Lump sum provision for 2 Kilometer Double Circuit line to connect the power station to existing line @ Rs.2.5 lakhs per Km	5,00,000
	<u>Rs. 17,39,73,800</u>

Say Rs. 17,40,00,000



SALIENT

FEATURES

- 8 -

1.1

ESTIMATES FOR LAND & CIVIL WORKS



-9-

GENERAL ABSTRACT OF COST FOR CIVIL WORKS

Sl. no.	Item	Amount in Rs. lacs.
1.	A. Preliminary @ 1% of I works-	7.20
2.	B. Land	55.13
3.	C. Works:	48.16
	D. Regulator	12.40
	E. Cross drainage work	11.00
	G. Bridge (SLR) 115 Mtr. long.	15.60
	H. Escape-	25.16
		35.05
	I. Power House (Civil) works	201.54
	L. Earth work and Lining	84.00
		85.72
	Trileni Link Canal	30.00
		543.63
4.	K Building (permanent) (temporary)	40.23
		10.30
		50.53
5.	M. Plantation-	0.10
6.	O Miscellaneous	28.10
7.	P. Maintenance @ 1% of I-works excluding preliminary land & special tools & plant	6.43
8.	Q. Special Tools & plant-	21.43
9.	R. Communication-	0.70
10.	Losses on stock 1/2% of I-works excluding preliminary, land and special tools and plant-	3.16
		<u>703.11</u>
I-	Works, Civil works (Total 1 to 10)	703.11
II-	Establishment charges including leave and pension 8% cost of works i.e. Rs. 703.11 lakhs	56.25
III-	Small tools and plant (1% of works, i.e. Rs. 703.11 lakhs)	7.03
IV.	Suspense-	Nil
V.	<u>Receipt and Recoveries</u>	
a/	Resale of equipment under Q. special tools & plant-	14.51
b/	Resale value of temporary building 15% of values	
	(i.e. 15% of 10.30 lakhs)	<u>1.54</u>
	(-)	<u>16.05</u>
	Total Direct charges-	750.34

Cont'd.....2/-

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Indirect charges

i- Capitalisation of abatement of land revenue, i.e. 5% of land acquisition cost-	1.96
ii- Audit charges 1% of I works	7.03
Total cost of Civil works-	759.37

Say Rs. 760 lakhs

There is an error of 0.70 in totalling value of  
C-Works. This is ignored. Read 547.93 in place  
of 548.63.



# LAND

Estimate for Land Acquisition Expenses for Power/  
Tail-race channel, Power House, Colony, etc.

Sl. no.	Name & location of work	Area to be acquired.
1.	By-pass channel from RD 6.3 to 19.6 a strip of land 800' wide 800 x 13,300'	98.93 Hectares.
2.	Land for Colony	13.40 Hectares
3.	Land for Tail-race Link Canal	31.00 Hectares
4.	Land for Power House	42.94 Hectares.
		186.27 Hectares.

Say 187 Hectares.

## ABSTRACT OF COST OF "B" LAND

	Qty.	Rate	Amount in Rs. lakhs
1. Cost of land (all land is agricultural)	187 Hect.	16000	29.92
2. Solatium @ 15% of cost of land	-	-	4.49
3. Crop compensation @ 1200 per acre for 30% of the land	-	-	0.67
	Total (A)		35.08
4. Establishment cost 6.25 of a			2.19
	Total (B)		37.27
5. Add for demarcation and measurement of land and for legal expenses @ 5% on (B)			1.86
	Rs.		39.13

Cont'd....

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ABSTRACT OF COST  
OF CROSS REGULATOR AT RD 19.6

C-WORKS

D-REGULATOR

( Vide detailed estimate for HIR at RD 42.8  
first estimate submitted page 54 to 61).

Sl.no.	Items of work	Quantity	Rate	Amount
1.	2.	3.	4.	5.
1(a)	Excavation of foundation in ordinary soil, with disposal & dressing of earth work with in lead of 2 m lift of 1.5m	7662.6M <sup>3</sup>	Rs.4.97	Rs.38,083.00
(b)	Extra for earth work in hard soil @ 10% of total quantity	766 M <sup>3</sup>	Rs. 1.23	Rs. 942.00
(c)	Extra for earth work in Wet soil @ 10% of total quantity		Rs. 1.66	Rs. 1,271.00
(d)	Extra for additional lift (three extra) lifts to take out excavated shift and store on bank-	7662x3	Rs.0.42 per M <sup>3</sup> for each extra lift	Rs. 9,654.00
2.	C.C. in Foundation: 1:3:6	1.763M <sup>3</sup>	Rs.382.40	Rs.6,74,171.00
3.	R.Rstone masonry in C.C 1:3:6 with faced masonry in course-	2,179.4M <sup>3</sup>	Rs. 291/-	Rs.6,34,089.00
4.	Dressed Granite stone sets in C.C(1:1.5:3)in flooring	101.865M <sup>3</sup>	Rs. 343/-	Rs. 34,940.00
5.	Boulder stone sets in C.C (1:1.5:3) in flooring-	1,075.00M <sup>3</sup>	Rs. 331/-	Rs. 3,55,825.00
6.	C.C.1:2:4 in copings and bearing plates etc.	55.00M <sup>3</sup>	Rs.584.30	Rs. 32,137.00
7.	R.C.C.(1:2:4) in T-Beam Brust wall,curbs,lintel beams & wearing coat's etc.	633.43M <sup>3</sup>	Rs.622.40	Rs.3,94,247.00
8.	Steel reinforcement complete-	49.708MT	Rs.5880.00	Rs.2,92,283.00
9.	R.C.C.1:1.5:3 in railing cum-parapet of bridge with lighting arrangement and RCC street light poles etc. on the bridge	182.26RM	L.S	Rs.10,000.00
10.	Fitting expansion joints with bitumin mastic filler-	95.71 RM	5.00	Rs. 479.00
11.	Dewatering of foundations providing different seals and providing false parapet walls of the bridge-	Job		Rs. 50,000.00

Contd.....



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3. 4. 5.

Providing and fabrication  
 of place girder bridge for  
 gangway, gangway steel  
 bridge with sal-wood,  
 structural steel decking,  
 gates winches, guide, cills,  
 lintel beams steel stair  
 and other parts of gates  
 and steel fabricated  
 standiens etc. alongwith  
 electric motors, switches,  
 meters and electrification  
 with trail and testing  
 all charges with cost and  
 labour of materials with  
 carriage and erection of  
 same:

@ 50 Tonne per 5000 cuseecs  
 for 13500 cuseecs-

135 Tonnes Rs.14,450  
 per Mton Rs.19,50,750.00

13. R.C.C.(1:1.5:3) in railing  
 postes and G.I. pipe  
 railing on wings etc-

80.16RM L.S. Rs. 8,000.00

14. Ruled Cement pointing  
 1:2 on R.R stone masonry  
 faces-

13.21 M<sup>2</sup> Rs. 200.00

Rs.45,89,071.00

Add 5% for W/C & contingencies-

Rs. 2,29,353.00

Total- Rs.48,16,424

Say Rs. 48.16

Cont'd.....

# D. REGULATOR

## ABSTRACT OF COST OF HEAD REGULATOR FOR TRIBENI CANAL AT RD 19.6

-14-

Wide First estimate submitted proposal I/page 54 to 61)

Sl. no.	Item of works	Qty.	Rate	Amount Rs. in lacs.
1.a/	Excavation of foundation in ordinary soil, with disposal & dressing of earth work including all lands of 50m and lift of 1.5m	3000M <sup>3</sup>	4.97 per M <sup>3</sup>	0.149 lacs.
b/	Extractor -do- in wet soil	2000M <sup>3</sup>	1.66 per M <sup>3</sup>	0.033 lacs.
2.	C.C. in foundation 1:3:6	700 M <sup>3</sup>	382.40/M <sup>3</sup>	0.027 "
3.	R.C. stone masonry in C.C. 1:3:6 with faced masonry in course-	800M <sup>3</sup>	291/M <sup>3</sup>	2.328 "
4.	Dressed Granite stone setts in C.C.(1:1.5:3) in flooring-	50 M <sup>3</sup>	343 /M <sup>3</sup>	0.172 "
5.	Boulder stone setts in C.C.(1:1.5:3) in flooring	500M <sup>3</sup>	331 /M <sup>3</sup>	Rs.1.655 lacs.
6.	C.C.(1:2:4) in coping and bearing plates etc.	30M <sup>3</sup>	384.30	Rs.0.175 "
7.	R.C.C.1:2:4 in T.Beam			
8.	Bress walls, lurches, lintels beams and bearing coats etc.	150M <sup>3</sup>	622.40	Rs.0.934 "
8.	Steel reinforcement	20MT	5880.00	1.176 "
9.	R.C.C.1:1.5:3 in railing cum parapet of Bridge with lighting arrangement and R.C.C steel light portosets on Bridge-	80 RM	L.S.	Rs.0.008 "
10.	Filling expansion joints with bitumin mastic	40 RM	Rs.5/-per M	Rs.0.002 "
11.	Dewatering of foundation	Job		0.500 "

Cont'd....



D- REGULATOR

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Sl. no.	Item of works	Qty.	Rate	Amount
12.	Providing and fabrication of plates girder bridge for gangway, gangway steel bridge with all kind structural, steel — decking, gates, winches guide, lills linter beams steel stair & other parts of gages & steel fabrication etc. with the cost of labour & materials for 3000 cuft.	32 Tonnes	Rs. 14,450 per Tonne	Rs. 4.624 lacs.
13.	R.C.C. (1:1.5:3) in railing posts and C.I. pipe railing on wings etc-	25 RM	L.S.	Rs. 0.003 "
14.	Red cement painting 112 on R.R. stone masonry faces-	5M <sup>2</sup>	L.S.	Rs. 0.001 lacs
	Add 3% for W/c & conting.			Rs. 11.767 lacs
				Rs. 0.589 "
				<u>Rs. 12.376 lacs.</u>
				Say Rs. 12.40 lacs.

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# CALCULATION OF WEIGHT OF GATE AND HOISTING ARRANGEMENTS

## Weight of stop log and guides.

Head- 3.3M

Span 6M

Factor (Head in M x span in M) =  $99.8 \angle 30$

(Ref. to page 245 of R.S. Varshney's hydro-power structures)

Weight factor = 0.22 ton/sq.m. for stop log

and = 67 Kg/sq.m. for guides

∴ Stoplog weight =  $19.8M^2 \times 0.22$  ton per spare x 5 spares  
= 21.78 (i)

Guides Wt.

=  $67 \times 19.8$  Kg

= 6.633 (ii)

Weight of fixed type

Hoists (Based on page 250 of Varshney's book)

= K. capacity of hoist

=  $0.3 \times 20$  tons

= 6 tons (iii)

(i)+(ii)+(iii) = 31.413

Say 32 Tons.



E.C.D. WORKS

C.D. Works: L.O. Siphon at R.D. 17.60

(One vent of 10'-0")

Abstract of cost.

Sl. no.	Items of work		Rate per unit.	Rs. in lacs.
1.	Earth work in excavation and banking it again for filling:-	0,150M <sup>3</sup>	4.73	0.36
2.	P.C.C.(1:1:6) in foundation of barrel	.140M <sup>3</sup>	382.40	0.57
3.	Brickwork in C.M.(1:1:5)	250M <sup>3</sup>	325.20	0.64
4.	R.C.C.(1:1:2) for pipes and trench walls:-	600M <sup>3</sup>	584.30	3.51
5.	Boulder pitching	1925M <sup>3</sup>	79.40	1.53
6.	Graded filter below boulder pitching	475 M <sup>3</sup>	66.50	0.32
7.	Reinforcement	35MT	3680.00	2.06
8.	Sheet piles	15 MT	7160.00	1.07
9.	Other miscellaneous items	L.S.		0.30
10.	Provided subterseal-	L.S.		0.10
		Rs.		10.48 lacs.
	Add 5% for workcharged establishment	Rs.		0.52
	+ 2% contingency:-	Rs.		11.00 lacs.

H. ESCAPES

ABSTRACT OF COST OF CONSTRUCTION OF  
ESCAPE REGULATOR OF 5000 CUSECS CAPACITY  
AT RD-10

(based on quantities abstract indicated  
at page 196 of Vol-1 of project Report)

Sl. No.	Items of work	Quantity	Rate	Amount
1.	Earthwork in excavation of foundation trenches	1800M <sup>3</sup>	Rs.4.75 perM <sup>3</sup>	Rs.8,514.00
2.	Earthwork in back-filling in foundation trenches	1500M <sup>3</sup>	Rs.4.73 "M <sup>3</sup>	Rs.7,095.00
3.	Earthwork in random fall in bank	1400M <sup>3</sup>	Rs.8.47 "M <sup>3</sup>	Rs.11,858.00
4.a.	P.C.C.(1:3:6) in foundation and mud mat etc.w th stone shingle including cut-off	1208 M <sup>3</sup>	Rs.382.40 perM <sup>3</sup>	Rs.2,88,644.00
	b/Extra cost for shuttering in cut-off(for282MS concrete)	L.S.	L.S.	Rs. 50,018.00
5.	R.C.C.(1:2:4) over top surface of piers & abutments etc and on floors-	494M <sup>3</sup>	Rs.584.30 per M <sup>3</sup>	Rs.2,88,644.00
6.	Brickwork(1:4) in foundation and plinth	815M <sup>3</sup>	Rs.338.80 Per M <sup>3</sup>	Rs.2,76,122.00
7.	Providing reinforcement in R.C.C.works-	53M.Ton	Rs.5880 per meter	Rs.3,11,640.00
8.	Providing cement concrete block (1:2:4) over filter	322M <sup>3</sup>	Rs.402.50 per M <sup>3</sup>	Rs.1,29,605.00
9.	Providing filter	127M <sup>3</sup>	Rs.67.50 perM <sup>3</sup>	Rs. 8,573.00
10.	Providing 5% brick-on-edge soling over 3" flat soling on ramps etc.	L.S.		Rs. 10,000.00
11.	Providing wheelguard posts of (1:2:4)concrete(.09M <sup>3</sup> ) each in volume	200nos	Rs.44/-each	Rs. 8,800.00
12.	Weep holes	100 nos	Rs.25/-cach	Rs. 2,500.00
13.	Providing gates,hoists,etc. including ganness for 5 sparex6M x 3.3 M	50MTon	@Rs.14.450 per ton	Rs.7,22,500.00
14.	Dewatering	L.S.		Rs. 60,000.00
Total-				Rs.23,96,048.00
Add contingencies @ 3% & W/c estt.@ 2%-				Rs. 1,29,802.00
				Rs.25,15,850.00

Say Rs. 25,16,000/-



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ABSTRACT OF COST OF RAMPURWA ESCAPE AT RD 10.00

No.	Name of items	units.	Qty.	Rate Rs.	Amount Rs.
<u>C-Works.</u>					
1.	Providing Kotarah Minor crossing at RD 1.4	Nos	1 no.	1,00,000 each	1,00,000
2.	Providing D.L.R. Bridge at 1.6 40M 1 @ Rs.15000 per m				6,25,000
3.	Providing V.R.B. at RD 8.0 and 18.0	Nos.	2 nos.	50,000 each	1,00,000
4.	Providing Tail fall with pitching and other training works	nos.	1 no.	75,000 "	1,75,000
Total					10,00,000

2. L.E.W.

a/	Channel Excavation in ordinary soil with 50cm lead and 1.5 m lift including making spoils and dressed shape	M <sup>3</sup>	4,35,465 @0.97M <sup>3</sup>	Rs.21,64,265
b/	Extra for -do- in hard soil	M <sup>3</sup>	43,540 @1.23M <sup>3</sup>	Rs.53,554.00
c/	Extra for -do- in wet soil	M <sup>3</sup>	43,540 @1.66M <sup>3</sup>	Rs.72,276.00
d/	Extra for -do- in additional lift of one metre	M <sup>3</sup>	2,30,000 @0.42M <sup>3</sup>	Rs.96,600.00

Rs. 23,86,691.00 (A)

Add for contingencies & W/C establishment @ 5% on(A)

1,19,300

Grand Total - 35,05,991

Cost of works- 35.05 lakhs

WORKS  
POWER HOUSE CIVIL WORKS  
Abstract of cost of Power House at RD 9.6(3x5MW)

-20-

Item of works	Qty.	Rate per unit.	Amount. (in lacs Rs.)
a/ Excavation by manual labour (in initial stage)			
b/ Excavation by machine including all leads after manual works becomes more difficult	51009M <sup>3</sup>	6.93	3.53
2.a/ R.C.C.M 200 in foundation	25,508M <sup>3</sup>	9.47	2.42
b/ Do- in substructures-	3107 M <sup>3</sup>	@475.50 per M <sup>3</sup>	15.20
c/ R.C.C M200 in floors and sloops of Main Power house @ super structures-	4600M <sup>3</sup>	@602.00 per M <sup>3</sup>	39.00
d/ R.C.C.M-200 in retaining walls:	4608M <sup>3</sup>	@648.40 per M <sup>3</sup>	29.86
3. Brickwork in (1:4)	2624M <sup>3</sup>	@695.20 per M <sup>3</sup>	18.24
4. Reinforcement	364 M <sup>3</sup>	@338.80 per M <sup>3</sup>	2.53
5. Roof trusses	200 MT	@5880 per M/ton	11.76
5. Trash rack gates-	28MT	@7160 per "	2.00
7. Stop log gates	37 tonnes @7160 "		2.65
Draft tube gates-	133 Tonnes @14450 "		10.22
Flooring in turbine bay	100 Tonnes @14450 "		14.45
Dewatering while excavation	634M <sup>2</sup>	@150/M <sup>2</sup>	0.95
	1200000 BHP hr.	Rs.2.50 per BHP hr.	30.00
		Rs.	191.74
			9.60 lacs.

Add 5% (3% for W/C & 2% for contingency)-



Detailed estimate of power house  
(3x5 MW) at RD 9.6  
N.S.L. at 9.6 RD- 347.50 ft.

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Excavation:-

(E.P.H-Est-1)

i/ Main portion between A&F line-	70x70x13 = 63,700
ii/ Right service bays	7.4x8.x1 = 59
Between A & B Line-	12.3 x 8.x2 = 197
Between B and D line-	7.3x8x2 = 117
Below D & E line-	$\frac{3.142}{4} \times 3^2 \times 14 = 99$
Sump pit-	12.3x15.2x2.8 = 523
iii/ Left service bays-	2x10x5x14 = 1400
iv/ Retaining walls-	2x9x5x14 = 1260
U/S	37x $\frac{1}{2}$ x9x27 = 4476
D/S	37x $\frac{1}{2}$ x6x42 = 4662
v/ U/S and D/S pond-	76,513 M <sup>3</sup>
2a/ M 200 Concrete in foundation Raft, pier etc.	
i/ Main power House-	37x12x17.4x2=1295
ii/ Main power house supporting piers-	37.2x21.3x2.4 = 1902
	3x2.454x10.06x8.200 = 607
	$3 \times \frac{(2.454+7.565)}{2} \times 6.390 \times 8.2 = 786$
	$3 \times \frac{(7.565+2.207)}{2} \times 21.28 \times 5.5 = 1716$
iii/ Sump raft and stenning	$\frac{1}{4} \times 4^2 \times 0.30 = 4$
	$\frac{1}{4} \times 3^2 - 2.7^2 \times 0.15 \times 14 = 3$

iv) Service Bays-

Right- Between A&B line-  
Between B&D line-  
Between D&E line-

Left service bay-

U/S and D/S pools:

U/S pool-

U/S pools-

Key wall:-

Foundation and Wall-

Foundation-

Walls:-

$$7.4 \times 8 \times 0.9 = 53$$

$$12 \times 3 \times 8 \times 1.1 = 177$$

$$7.3 \times 8 \times 1.8 = 105$$

$$12.3 \times 15.2 \times 0.9 = 168$$

$$37 \times 30 \times 0.9 = 995$$

$$37 \times 45 \times 0.9 = 1499$$

$$US \ 2 \times 10 \times 5 \times 1 = 100$$

$$D/S \ 2 \times 9 \times 5 \times 1 = 90$$

$$U/S \ 2 \times 2 \times (10+5) \times 6 \times 0.30 = 108$$

$$D/S \ 2 \times 3 \times (5+3) \times 6 \times 0.30 = 86$$

9697M<sup>3</sup>

b) Grade M 200 concrete in floors & slabs of Main power house and super structure:

Main power house floor  
slab at EL 348.00-

U/S beam at EL 360.0-

U/S pair top

Column M.H building-

Column in pump house

Auxiliary room-

Roof slab of main P.H.

Roof slab of Auxiliary room-

Roof Right service bay

Megazine floors-

Draft gate column-

$$12.18 \times 37.3 \times 1.5 = 681$$

$$18.26 \times 37.3 \times 2.0 = 1662$$

$$37.3 \times 4.6 \times 1.219 = 209$$

$$4 \times 4.0 \times 6.2 \times 2.45 = 1215$$

$$28 \times 1.219 \times 0.75 \times 7 = 179$$

$$8 \times 0.25 \times 0.25 \times 8 = 4$$

$$11 \times 52.5 \times 0.15 = 87$$

$$8 \times 26.9 \times 0.15 = 32$$

$$7.315 \times 37 \times 0.15 = 41$$

$$10.5 \times 37 \times 0.15 = 58$$

$$8 \times 7.4 \times 0.15 = 9$$

$$8 \times 7.3 \times 0.15 = 9$$

$$4 \times 4.6 \times 2.3 \times 7 = 296$$

4482



Grade M-200 in crane beams and lintels

-23-

BF- 4482

Crane beams-

$$2 \times 60.3 \times 1 \times 5 = 90$$

Wall supporting beam-

$$2 \times 60.3 \times 0.3 \times 0.75 = 27$$

$$1 \times 60.3 \times 0.3 \times 0.50 = 9$$

$$\underline{4608 \text{ M}^3}$$

C/ Grade M 200 Retaining wall concrete:

Foundation-

$$2 \times \frac{(8+6)}{2} \times 45 \times 0.5 = 1260 \text{ M}^3$$

Wall-

$$2 \times \frac{(12+6)}{2} \times 45 \times 0.35 = 284$$

Counter fort-

$$18 \times \frac{(5+1)}{2} \times 10 \times 0.50 = 1080$$

$$\underline{2624 \text{ M}^3}$$

3. Brick work- ( in 1:4 c.m)

$$2 \times 60.3 \times 13 \times 0.25 = 329$$

$$24 \times 6.5 \times 0.25 = \frac{35}{364 \text{ M}^3}$$

4. Reinforcement-

200 MT

5. Roof trusses-

11 nos @ 20 MT each = 20 MT

6. Trash Rack gates-

$$3 \times 13.41 \times 9.13 = 370 \text{ M}^2$$

7. Stop log gates-

$$3 \times 9.13 \times 8.5 = 235 \text{ M}^2$$

8. Draft tube gate:

$$3 \times 9.67 \times 6.00 = 174 \text{ M}^2$$

9. Flooring in turbine bay-

$$2/3 \times 12.33 \times 37 = 304 \text{ M}^2$$

Auxiliary Room

$$7.315 \times 45 = 330 \text{ M}^2$$

$$\underline{634 \text{ M}^2}$$

10. Dewatering while excavation- 1200000 BHP hrs.

@ 2.50 BHP hr.

# E.M. AND LINING

Abstract of cost of Earth work in  
by-pass Canal from 6.3 to 19.6

....

S.No.	Name of item	Qty.	Rate	Amount in Rs.lacs.
1.	Earth work in Excavation including disposal of surplus earth in proper shape-4,39,39,400-			75.61
a/	Earth work in Excavation including disposal of surplus earth in proper shape-	12,45,236M <sup>3</sup>	@4.97/M <sup>3</sup>	Rs.61.89
b/	Extra for -do- in hard soil-	1,24,523M <sup>3</sup>	@ 1.23/M <sup>3</sup>	Rs. 1.53
c/	Extra for -do- in wet soil-	1,24,523M <sup>3</sup>	@ 1.66 /M <sup>3</sup>	Rs. 2.07
d/	Extra for one adil. lift of one metre	28,49,000	80,470M <sup>3</sup> @ 0.42/M <sup>3</sup>	Rs.0.34
e/	Extra for two adil. lifts (on average) involved in quantity between 9.7 to 19.6RD	11,64,000M <sup>3</sup>	@ 0.84 /M <sup>3</sup>	Rs.9.78 lakhs
				<u>Rs.75.61 lakhs</u>
2.	Earth work in filling from adjoining borrowpit within 300 meters 13,54,000 cft.i.e. 38430M <sup>3</sup>		@ 11.08	4.26
				<u>79.87</u>
	Add 5%(for w/c establishment and contingencies)-			<u>3.99</u> 83.86

Say Rs.84 lakhs.



RD/Location.	Left Bank		Right Bank		Total sectional		Average Sec-		Length		Volume of		Surplus	
	Sectional area		Sectional area		area		Cutting Fitt		ing foot		earth work		filling	
	Cutting in sft. in sft.		Cutting in sft. in sft.		Cutting in sft. in sft.		in sft. in sft.		in sft. in sft.		Cutting in sft. in sft.		in sft. in sft.	

RD 6.3 to 7	555	407	555	453	1110	920	1110	920	700	777000	644000	-	-	-
RD 7 to 8	200	800	200	790	560	1640	835	1280	1000	835000	1280000	-	-	-
RD 8 to 9	435	700	435	634	870	1334	715	1485	1000	715000	1485000	-	-	-
RD 9 to 9.6	-	-	-	-	-	-	870	1334	600	522000	800400	-	-	-
D/S of I.H.														
9.7 to 10	2555	-	2525	-	5080	-	5080	-	300	1524000	-	-	-	-
10 to 13	2280	-	2260	-	4540	-	4610	-	3000	14430000	-	-	-	-
13 to 16	2175	33	2175	28	4350	61	4430	31	8000	13290000	93000	-	-	-
16 to 19	1267	280	1267	240	2534	520	3442	280	3000	10320000	8,40,000	-	-	-
19 to 19.6	-	-	-	-	-	-	2534	500	600	1520400	312000	-	-	-
												41090400	1245000	-

# ANSTRUT OF QUANTITY AND COST OF PILING WORKS

Sl. No.	Name of Items	Reach 6:3 to 9:6	Reach 9:7 to 11:50	Total Qty. in P.C.	Total Qty. in P.C.	Rate	Unit	Amount
		Length	Quantity	Length	Quantity			
1.	B.M in lip cutting.	3300' @ 219.13 cft.	7,23,124 cft.	1800' @ 117.97 cft.	2,12,346 cft.	2051175	M <sup>3</sup>	1.72
2.	Concrete lining in Bed & slope.	3300' @ 70.77 cft.	2,33,541 cft.	1800' @ 112.15 cft.	201870 cft.	4,35,411	M <sup>3</sup>	55.65
3.	1st class B/M (1:5) in con. in sleepers cft.	3300' @ 372 cft.	12,276 cft.	1800' @ 371 cft.	6678 cft.	18,954	M <sup>3</sup>	1.75
4.	Cement plaster in sleepers	3300' @ 5.51 cft.	18183 cft.	1800' @ 7.93 cft.	14274 cft.	32457 cft.		0.99
5.	Grate filter	3300' @ 67.90 cft.	224070 cft.	1800' @ 91.76 cft.	165168 cft.	389238 cft.	M <sup>3</sup>	7.45
6.	1:3:6 cement concrete in bed beam	3300' @ 1.32 cft.	4356 cft.	1800' @ 2.79 cft.	5022 cft.	9878 cft.	M <sup>3</sup>	8.65
7.	Expansion joints 100mm deep.	3300' @ 11.50 cft.	37950 cft.	1800' @ 19.2 cft.	34722 cft.	7,072 cft.	R/Met.	1.11
8.	Pressure release valves (C.I)	-	-	-	695 nos	695 nos	each	0.49
9.	Perforated pipe	-	-	1800' @ 19.29 cft.	34722 cft.	10590 M	R/M	3.8
								81.6
								4.08
								85.72

Add 5% for w/c establishment & contingencies-

Say Rs. 85.72 lakhs.



# L-E.W. & LINING

## Detailed Estimate of Lining in Power Channel and Tailrace channel (C-PC-1 in-1)

-27-

Name of items	No.	Length	Bredth	Depth, or height.	Content.
2.	3.	4.	5.	6.	7.

### Earth work in lining

Earth-work in lip-cutting in power channel portion i.e. wheel of SD16'-6"

b/ Side sleepers-

c/ Bed-

d/ Earth work in lip cutting for lining in tail-race portion

e/ Sleepers-

f/ Bed-

2	41.23	1	0.6	49.48
2	0.75	1	1.5	2.25
1	279	1	0.6	167.40
				219.13
2	30.43	1	0.6	36.52
2	0.75	1	1.5	2.25
1	132	1	0.6	79.20
				117.97

Laying of lining in canal bed and slope

a/ Portion of 140' width-

i/ Bed-

ii/ Slope

b/ Portion of 287' width

i/ Bed-

ii/ Slope

3. First class BW in 1:5CM in sleepers

a/ Portion of 140'

Bed- sleeper

Deduct for CC beam

1	41.23	75	1.5	2.81
2	41.23	1	0.33	43.56
				27.21
				70.77
1	279	1	0.33	92.07
2	3043	1	0.33	20.08
				112.15
1	41.23	75	1.5	2.81
4	1	0.75	0.25	0.94
1	0.75	1	0.25	(-)0.03
				3.72

Cont'd.....

-28-

	3.	4.	5.	6.	7.
b/ Portion of 287	2	<u>30.43</u> 33	.75	1.5	2.07
Bed sleepers-	9	1	.75	0.25	1.69
Deduct for c/c beam @ 33'0" c/c	9	<u>0.75</u> 33	1	0.25	<u>(-)0.05</u> 3.71
Cement plaster on sleepers (top only)					
a/ 10'6" depth & 140' bed width	2	<u>41.23</u> 33	0.75		1.87
Bed sleepers-	5	0.75	1.0		3.75
Deduct c/c beam	5	<u>0.75</u> 33	1.0		<u>(-)0.11</u> 5.51 sft.
3" Graded filter beneath the lining work-					
a/ 10'6" depth & 140' bed width	2	41.23	1	.27	22.26
b/ 140' bed-	1	132	1	.27	16.43
c/ 10'6" depth & 287' bed width-	2	30.43	1	.27	<u>35.64</u> 67.90
d/ 287' bed-	1	279	1	.27	<u>75.33</u> 91.76
1:3:6 cement concrete bed beams @ 33' c/c					
a/ 140' bed width	1	132	1	.33	1.32 cft
b/ 287' bed width	1	<u>279</u> 33	1	.33	2.79 cft.

Cont'd.....



2. 3. 4. 5. 6. 7.

Extension joint 100 mm deep					
3/140' bed width					
Bed sleeper-	5	1			5.00 rft.
Side slope 33' c/c	2	<u>41.23</u> 33			2.50 rft.
Bed width 33' c/c	1	<u>132</u> 33			<u>4.00 rft.</u>
					11.50 rft.
267' bedwidth	1	1			9.00 rft.
Side slope 33' c/c	2	<u>30.43</u> 33			1.84 rft.
Bed width	1	<u>279</u> 33			<u>8.45 rft.</u>
					19.29 rft.
Perforated A.C. pipe					
237' bed width Longitude					19.29 rft.

WORK IN TRIBUTARY LINK CANAL

E.M in filling by earth from borrow area-	2,17,320 M <sup>3</sup>	Rs. 11.08 per M <sup>3</sup>	24,07,906
	89,170 M <sup>3</sup>	Rs. 4.97 M <sup>3</sup>	<u>4,43,175</u> 28,51,081
	Add 5% for w/c & contingencies-		<u>Rs. 1,42,540</u>
			Rs. 29,93,621
	Say Rs. 30 lakhs.		

BUILDING

DETAILS OF ESTIMATED COST OF PERMANENT BUILDINGS  
ON FIFTH AREA BASIS FOR O&M STAFF. THEY WILL  
ACCOMMODATE INITIAL STAFF FOR CONSTRUCTION

A. RESIDENTIAL BUILDINGS (PERMANENT)

1. J.E.E.	1 no.	@ 150 M <sup>2</sup>	=	150 M <sup>2</sup>
2. J.E.E.	3 nos.	@ 90M <sup>2</sup>	=	270 M <sup>2</sup>
3. J.E.(C)	1 no.	@ 90M <sup>2</sup>	=	90 M <sup>2</sup>
4. Controller/JEE-12 nos	@ 60M <sup>2</sup>	=	720 M <sup>2</sup>	
5. J.E(Civil) 3 nos.	@ 60M <sup>2</sup>	=	180 M <sup>2</sup>	
6. Asst. Controller/ operator-	24 nos.	@ 50M <sup>2</sup>	=	1200M <sup>2</sup>
7. Grade-IV staff-12 nos	@ 40M <sup>2</sup>	=	480 M <sup>2</sup>	

900 per M<sup>3</sup>  
 @ Rs.1200 per M<sup>2</sup>  
 = Rs.27.81 lacs.

B. OFFICE SHEDS/STORAGE

OFFICE SHEDS/STORAGE

1. Stores-	3 nos x 33 M x 13 M =	1287 M <sup>2</sup>
2. Office -	1 no.x33Mx13 M =	429 M <sup>2</sup>
		<u>1716 M<sup>2</sup></u>

@ Rs.800 per M<sup>2</sup>

= Rs. 13.73 lacs.

C. Rest House- 1 no.x100 M<sup>2</sup> @ Rs.1500 per M<sup>2</sup> = Rs.2.24 lacs.

D. Dormitory/- 1 no.x30 suites @ 25M<sup>2</sup>

= 750 M<sup>2</sup>

@ Rs.900 per M<sup>2</sup> = Rs.6.75 lacs.

Rs. 65.48 lacs.

A. Permanent Building-

Rs.40.23 lakhs

B. Temporary stores

1287M<sup>2</sup> @ Rs 800 per M<sup>2</sup> =

Rs. 10.30 lakhs

Total- Rs.50.53 lacs.

N.B. High School/Middle school/Dispensary  
 already exist at site and provision  
 deleted.



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M- PLANTATION

Item	Distance	Number per Kms	Total nos.	Rate	Amount in lakhs.
Plantation	41 Kms	1250 Kms	5000	2	0.10
					<u>Rs. 0.10</u> lakhs.

Normally Forest Department gives sub-sidy for afore-  
estation and hence a nominal rate of Rs.2 each plant  
has been taken in the estimate.

0- MISCELLANEOUS

32-

Sl. No.	Item of work	Qty.	Unit rates in Rs.	Amount.
1.	Electrification of the new Colony	2 Km	30,000	0.60
2.	Water supply, construction of overhead tanks-	Job	-	5.00
3.	Sewerage & storm water disposal works-	Job	-	2.00
4.	Fire fighting equipments-	Job	-	1.50
5.	Maintenance & service of electrification, Medical assistance, recreation Post-office, telephone & telegraph office, Security arrangements, inspection Vehicle etc. for four years- including maintenance of rest house-			6.00
6.	Other items viz. visit of dispensaries technical record & exhibit, publicity & information centre, training of Engineers, Time keeping cabinet, etc-			3.00
				<hr/> 28.10

Say Rs. 28.10 lacs.



# Q. SPECIAL TOOLS AND PLANT

-33-

<u>Earth Moving equipments</u>				<u>Rs. in lakhs</u>
1. Shovel/Dragline 3 CYD	One	Rs.25 lacs		25.00
2. Bulldozer 75 HP	One	Rs.12 lacs.		12.00
3. Tractor (50HP) with trailers	One	Rs. 2 lacs		2.00
				<u>39.00</u>
<u>Compressor and pneumatic equipment</u>				
1. Portable Air Compressor (125 c.f.m.)	One	Rs.0.80 lacs		0.80
2. Jack Hammer (Dry & Wet. Drilling)	Two	Rs.0.04 lacs		0.08
				<u>0.88</u>
<u>Concrete mixing &amp; Placing Equipment</u>				
1. Concrete mixer (14/10cft) 3nos.	@	Rs.34 lacs		1.05
2. Vibrator (Elect.&Petrol)	6nos.	@ Rs..06 lacs		0.36
				<u>1.41</u>
<u>Haulage Equipments</u>				
1. Heavy Duty Tractor Trailer	One	Rs.15 lacs		15.00
2. Trucks	Two	Rs. 2 lacs		4.00
				<u>19.00</u>
<u>Road Making Equipments.</u>				
1. Pneumatic Tyred travelling crane-20 Ton Capacity	One	Rs.10 lacs		10.00
2. Pump for dewatering 20 HP Pumps 10 nos.	Two	Rs.30 lacs		3.00
				<u>13.00</u>
<u>Road making equipments</u>				
10T Road Roller	One	Rs.2 lacs		2.00
<u>Vehicles</u>				
1. Jeep	Three	Rs.0.8 lacs		2.40
2. Pick-up van	One	Rs.1.5 lacs		1.50
				<u>3.90</u>
Total Equipment		Rs.		77.15 lacs.
Less Vehicles		Rs. 77.15 lacs		
Vehicles		Rs. 3.90 lacs.		
Cost chargeable to works. 75% of I		Rs.73.25 lacs	I	
Cost chargeable to Q special tools and plant i.e. balance of equipment + 80% of Vehicles		Rs. 3.90 lacs	II	
		Rs. 54.94 lacs.		
		Rs. 18.31 lacs		
		+ 3.12 lacs.		
		Rs.21.43 lacs.		
Cost chargeable to receipt and recovery for equipment		Rs. 13.73 lacs.		
for Vehicles		Rs. 0.78 lacs.		
		Rs. 14.51 lacs.		

## R - COMMUNICATION

-34-

Sl. no.	Item	Quantity	Rate per unit	Rs. in lakhs.
1.	Cost of improving existing road upto site.	3 KM	0.20/km	0.60
2.	Cost of improving the existing road from PH site to quarry excluding main road	1 KM	0.10/km	0.10
				Rs. 0.70 lakhs.

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..2 ESTIMATES  
FOR  
ELECTRICAL  
WORKS

-35-

ABSTRACT OF COST OF ELECTRICAL &  
MECHANICAL WORKS INCLUDING DIRECT AND  
INDIRECT CHARGES.

	Rs.	
I. <u>Works</u>		
1. Preliminary		10,00,000
2. Land		-
3. Generating plant & equipment including telephone, power system, illumination, switchyard etc. including miscellaneous items and contingencies		
a/ Power Station-I	Rs. 9,09,88,850	9,09,88,850
	Rs.	9,19,88,850
II. Establishment charges including leave and pension contribution Lump sum		50,00,000
III. Small tools & Plants already included in works.		-
Total of I to III		Rs. 9,69,88,850
IV. <u>Indirect Charges</u>		
Account and Audit charges @ 1/2% of I-works(Rs. 9,69,88,850)		4,84,950
Total of I to IV		Rs. 9,74,73,800



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**1st POWER HOUSE, GENERATING PLANT & EQUIPMENT**  
**COST ESTIMATE FOR ELECTRICAL WORKS-EAST GANDAK**  
**CANAL HYDROELECTRIC POWER PROJECT 3x5 MW AT**  
**RD 9.6 FALL 5.244 M**

S.No.	Qty.	Item	Rate	Amount
1.	2.	3.	4.	5.
	Nos.		Rs.	Rs.
I	3	Bulb Turbine 6910 B.H.P Complete with all accessories such as electronic Hydraulic Governor, Servomotors and Oil pressure unit, etc. with valves & spares for 5 years, special tools and lifting tools, Generator 5 MW, 11 Kv, 50 c/s, 3 phase, 0.8 PF, excitation system AVR etc. for site.	4,500 per KW	6,75,00,000
II	1	E.O.T.Crane of capacity 50/10 T to be operated by AC 415 V, 3-phase, 50 c/s supply with down stop leads, gantry rails etc. with spares complete	10,00,000	10,00,000
III		Busbars and Bus ducts etc.		60,000
IV	2	Power Transformer rated at 10 MVA 11/132 Kv, 3 phase, 50 c/s, with off load tap changer, accessories etc. including spares	100 per KVA	20,00,000
V	3	Station Auxiliary Transformer rated at 250 KVA voltage ratio 11 KV/415 V, 3 phase, 50 c/s with all accessories complete	120 per KVA	90,000
	2	11 Kv/415V step down station service transformer rated 300 KVA as above	120/per KVA	72,000
VI	3	0.4 Kv unit Auxiliary Board comprising of CT, PT, breaker & metering instruments etc.	65,000/- each.	1,95,000
	2	0.4 Kv station service Board comprising of CT, PT breakers & metering instruments etc.	65,000/- each	1,30,000
Sub Total of items II to VI				35,47,000



3	Control & Protection equipment Generator line cubicle with PTs, CTs, lightning arrestors and isolators, etc. complete with bus terminals	2,70,000 each	8,10,000
2.	11/132 Kv Transformers, control instruments, relay board etc.	1,80,000 each.	3,60,000
3.	Sheet steel neutral grounding cubicles alongwith neutral links, earthing, transformer, bus from generator neutral terminal to its panel with CTs, etc. complete	1,00,000 each	3,00,000
4.	Control Board for 132 Kv outgoing feeder and Bus cubicle-	1,80,000 each	7,20,000
3.	Synchronising panel	12,500 each	37,500
	Control Desk Equipment complete	75,000	75,000
1 set	Set of 220V, 300 AHR capacity 10-Hr-rated lead acid batteries with accessories complete	75,000	75,000
1 No.	220 V float-cum-boost charger complete with accessories	45,000	45,000
1	220 V.D.C. distribution board with switch fuses units invertors, change over contacts etc. complete	35,000	35,000

Sub-total of items No.  
VII & VIII

Rs. 24,57,500

IV	132 KV Switchgear and S/s equipment at Generating station end		
6	132KV MOCB	2,80,000 each	16,80,000
18	132Kv CTs	30,000 each	5,40,000
3	132 Kv PTs	35,000 each	1,05,000
15	132 Kv Lightning Arrestors	12,000 each	1,80,000
20	132 Kv Isolators with each blades	30,000 each	6,00,000



2.	3.	4.	5.
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Busbar Ex'gen. busbar connector for switchyard and equipment earthing L.S @ Rs.60,000 per bay for six(6) bays	3,60,000
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Sub Total of Item IX-	Rs.34,65,000
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MISCELLANEOUS ITEMS

a/ Fire fighting equipment including portable fire extinguishers, etc. for use in transformer station L.S.	1,00,000
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b/ Cooling Water supply system		
i/ Cooling pump with duplex strainers- 2 nos.	35,000 each	70,000
ii/ Sluice valve cast steel 10 Kg/cm <sup>2</sup> 150-200 $\phi$ 5 nos.	10,000 each	50,000
iii/ Sluice valve cast steel 5 Kg/cm <sup>2</sup> 150-200 $\phi$ 5 nos.	5,000 each	30,000
iv/ Pressure reducers-		25,000
v/ Pipes & fittings		60,000
Total Sub-item(b)		Rs.2,35,000

c/ Drainage & Dewatering system		
i/ 1 no.10 HP VT/Submersible drainage pump-	25,000	25,000
ii/ 1 no.30 HP VT/Submersible drainage pump	50,000	50,000
iii/ Control Panel, connection cables etc.	25,000	25,000
iv/ Pipes & fittings		30,000
Total sub-item(c)		Rs.1,30,000

d/ <u>Lubrication &amp; Governing Oil system</u>		
i/ Oil Centrifuge tanks	2,50,000	2,50,000
ii/ Oil Transfer pump-	5,000	5,000
iii/ Pipes & fittings-		50,000
Total sub item(d)		Rs.3,05,000



2.

3.

4.

5.

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e/	Compressed air system			
	i/Air compressors- 2 nos.	70,000		
	ii/ Air receivers- 2 nos.	25,000		
	iii/Control panel, electrical connection cables-	25,000		
	iv/ Pipes & fittings-	50,000		<u>1,70,000</u>
f/	Air conditioning plant- 1 set			2,30,000
g/	Ventilation Equipment- 1 set			2,50,000
h/	Power House & Switchyard lighting-			150,000
i/	i/ 11 KV panel board with isolators Ct, LT, breaker, complete etc. - 9 nos. @ Rs.1,00,000 each.	9,00,000		
	ii/ 11 KV busbar, cabling etc.	50,000		9,50,000
j/	i/ 11 Kv power cables of different sizes- 500 m	200/- per M		1,00,000
	ii/ LT power cables of different sizes-1,000M	100 per M		1,00,000
	iii/ Control cables 10,000 M different sizes	50/-per M		5,00,000
	iv/ Cable and boxes, accessories cable racks for laying cables			<u>1,25,000</u>
	Total Sub-item(j)			Rs.8,25,000
l/	Carrier communication Equipments.			<u>2,00,000</u>
m/	Diesel generating sets with engine generators, electrical panels - panels 0.4 KV 2x 150KW @ Rs.3000/-KW			<u>9,00,000</u>
	Sub-Total (item(a) to (m))			<u>Rs.44,45,000</u>

Cont'd.....



1. 2. 3. 4. 5.

WORKS AND OVERHEADS ON WORKS

Item-I

Sub-Total of items II to X Rs. 1,39,14,500 6,75,00,000

1. Excise duty- @ 8%

2. Insurance, Trans-  
portation & Com-  
missioning- @ 5%

3. Sales Tax- @ 4%

4. Erection, testing  
& commissioning- @ 5%

5. Contingencies- @ 3%

6. Spares- @ 5%

@ 30%

41,74,350 1,80,88,850

Total of Items I to X. Rs. 8,55,88,850

XI ADD on item I for erection,  
testing, commissioning,  
including tools and  
construction facilities @ 8%  
of Rs. 6,75 lakhs

54,00,000

Total of I to XI- Rs. 9,09,88,850

BIHAR STATE HYDROELECTRIC POWER CORPORATION LTD.,  
PATNA - 800001

NASRIGANJ SMALL HYDEL PROJECT  
✓ (2 X 500 KW)

DETAILED PROJECT REPORT



**CHAPTER -13**  
**PROJECT COST ESTIMATE**

13.1

While framing the project cost estimate tentative design of the power channel, talraas channel, power station building, D.L.R. bridge, approach road, etc. has been prepared and based on that the quantity of work has been calculated. The rates for civil works have been taken from the scheduled rates notified by Patna Division of P.W.D., Govt. of Bihar in October, 1998. The location of this power station falls in the area of the Division for which the rates have been prescribed.

13.2

As regards cost of the electrical and mechanical equipment the recent tender received against different works for Bihar and near about Bihar have been taken into consideration. Budgetary Rates have also been obtained from manufacturers. The scheduled rates for transmission line is as per the schedule rates of the Bihar State Electricity Board. Budgetary offers have also been obtained for E/M equipments.

**ABSTRACT OF PROJECT COST**

Cost Head	Item	Cost(Rs. In lakh)
100	Preliminary	Rs. 5.11 lakhs
102	Temporary Construction and Enabling works Permanent Building works	Rs. 20.60 lakhs
200	Land	Rs. 7.73 lakhs
300	All other Civil Works	Rs. 155.00 lakhs
400	Electrical/Mechanical Works	Rs. 303.00 lakhs
500	Associated Transmission system	Rs. 2.00 lakhs
600	Trial and Commissioning activities	Rs. 1.00 lakhs
	<b>Total works</b>	<b>Rs. 494.44 lakhs</b>
800	Overhead construction Account	Rs.
	a. Establishment and Overhead construction charges (5% of total)	Rs. 24.72 lakhs
	b. Audit and Accounts (1% of total works)	Rs. 4.94 lakhs
	c. Tools & Plants	Rs. 05.00 lakhs
1000	Physical contingency (3% of total works)	Rs. 14.83 lakhs
	<b>Grand Total</b>	<b>Rs. 543.93 lakhs</b>
	<b>Say :- 584.00 Lakhs</b>	



**GENERAL ABSTRACT OF COST FOR LAND  
COMMUNICATION AND OTHER CIVIL WORKS**

	Sub Head	Amount (Rs. In lakh)
A	Preliminary	Rs. 11 lakhs
B	Land	Rs 7.73 lakhs
K	Building	Rs. 20.60 lakhs
J	Other Civil Works	Rs 155.00 lakhs
i.	Power Channel with lining and S.L.R. Bridge	Rs. 22.02 lakhs
ii.	Power House (Civil works)	Rs 95.30 lakhs
iii.	Tailrace Channel with lining and S.L.R. Bridge	Rs 21.08 lakhs
iv.	D.L.R. Bridge	Rs. 12.90 lakhs
v.	Miscellaneous Civil works	Rs 01.10 lakhs
vi.	Communication	Rs. 02.60 lakhs
	<b>TOTAL</b>	<b>Rs. 155.00 lakhs</b>
E	Tools & Plants	Rs 05.00 lakhs

DETAILS OF COST UNDER THE SUB-HEADA. PRELIMINARY

S.No.	Particulars	Amount In Rs.
1	Detailed alignment, survey of Power channel, Tailrace Channel including dog belling, fixation of pillars etc	L S Rs 50,000 00
2	Establishing and fixing bench marks	L S Rs 01,000 00
3	Digging test pits along canal alignment and at structure site	L S Rs 05,000 00
4	Bearing pressure test at Power-House sites and canal structures site and bore hole at site	L S Rs 45,000 00
5	Charges for consultancies for detailed design and engineering	L S Rs 4,00,000 00
6	Training of Engineers	L S Rs 10,000 00
	<b>TOTAL-</b>	<b>Rs. 5, 11,000.00</b>
	<b>SAY-</b>	<b>Rs.5.11 Lakhs.</b>



**DETAILED COST UNDER SUB-HEAD**  
**B - LAND**

N.	Particulars	Qty.	Rate	U.	Amount
	Permanent land for acquisition Headrace channel, Power House, Tailrace channel, Switch Yard, etc	3 Hect.	Rs.80,000/-	Per Acre	Rs.6,00,000/-
2	Permanent land for construction of camps, colony	0.4 hect	Rs. 2.0 lacs	Per Hect	Rs. 80,000/-
3.	Compensation for standing crops for 3 Hect.	3 Hect	Rs.30,000/-	Per Hect.	Rs. 90,000/-
4	Demarcation, dog belling and fixing of boundary pillars including joint verification	L.S.			Rs. 2,500/-
				TOTAL:-	Rs. 7, 72,500/-
				SAY:-	Rs.7.73lakh

DETAILS OF COST UNDER THE SC HEADK. BUILDINGS

Residential Buildings with electrification, sewerage and plumbing

Junior Engineer	1 No.	@ 95 M <sup>2</sup> Each	95 M <sup>2</sup>
Operator / Asstt. Controller	4 Nos.	@ 70 M <sup>2</sup> Each	280 M <sup>2</sup>
Grade IV staff	2 Nos.	@ 40 M <sup>2</sup> Each	80 M <sup>2</sup>
Total for residential building			445 M <sup>2</sup>
@ Rs. 4,000/- M <sup>2</sup>			Rs. 18,20,000/-
Non- Residential Building (Temporary)			₹
Store shed	10 M x 8M = 80 M <sup>2</sup>		Rs. 2,40,000/-
	@ Rs.3,000/- M <sup>2</sup>		
TOTAL-			Rs. 20,60,000/-
Say -			Rs. 20.60 lakhs



**J-POWERPLANT/APPERTENANCES AND OTHER (CIVIL WORKS)**  
**GENERALABSTRACTOFCOST**

S.N.	Particulars		Cost in Rs. Lakhs
1.	Power Channel:		Rs. 22.02 lakhs.
i.	Earth Work	5.40	
ii.	Lining	8.70	
iii.	Pucca structures (S.L.R. Bridge)	7.92	
		22.02 Lakhs	
2.	Power House		Rs. 95.30 lakhs
3.	Tailrace Channel		Rs. 21.08 lakhs
i.	Earthwork	2.99	
ii.	Lining	10.17	
iii.	Pucca structure (S.L.R. Bridge)	07.92	
		21.08 lakhs	
4.	D.L.R. Bridge	12.90	Rs. 12.90 lakhs
5.	Miscellaneous		Rs. 01.10 lakhs
6.	Communication		Rs. 02.60 lakhs
		<b>TOTAL:-</b>	<b>Rs. 155.00lakhs</b>

# **ESTIMATED COST FOR EXCAVATION OF POWER CHANNEL**

S.N.	Item of work	Quantity	Unit	Rate	Amount
1	Earth work in excavation in all kinds of soil within initial lead of 50M and initial lift as per drawing, specification and direction of Engineer In-charge. (Page- 85, Item N 10.1.9)	4200	M <sup>3</sup>	Rs.17.90	Rs. 75,180/-
2.	Earth emban with initial lead of 40M and initial lift of 1.5M as per specification and direction of Engineer In-charge. (Page-86, Item No. 10.1.9)				
3.	Extra for each additional lead of 25M of part thereof over initial lead of 30M as per specification (one number extra lead).	18000	M <sup>3</sup>	Rs. 2/-	Rs. 36,000/-
4.	Extra for additional lift of 1.0M or part there of over initial lift of 1.5M as per specification (two lifts) in Item No. (1) & (2) above.	12000	M <sup>3</sup>	Rs.2/-	Rs. 24,000/-
5.	Extra for hard soil 11 0% of Item 1&2.	2000	M <sup>3</sup>	Rs. 2/-	Rs. 4,000/-
6.	Extra for hard soil 10% of Item (1)	1000	M <sup>3</sup>	Rs. 2/-	Rs. 2,000/-
7.	Extra for consolidation in all layers with sheep foot roller including watering as per specification.	24,400	M <sup>3</sup>	Rs. 2/-	Rs. 48,700/-
8.	Fine dressing & turning with 3" thick grass sods obtained with a lead of 150M and with all lifts (Page-97.Item-10.1.41.1).	5000/-	M <sup>2</sup>	Rs.2.30	Rs. 11,500/-
				Total-	Rs. 5,40,080/-
				Say-	Rs. 5.40 lakhs



**ESTIMATE OF COST OF LINING OF POWER CHANNEL  
OF NASRIGANJ SMALL HYDROELECTRIC PROJECT**

<u>Sn. No.</u>	<u>Item of work</u>	<u>Quan- tity</u>	<u>Unit</u>	<u>Rate</u>	<u>Amount</u>
1.	Fine dressing the inside slope and bed of the canal with compacted fully and rammed well including wetting of required etc. all complete job as per direction of Engineer In-charge for laying PCC pre cast concrete slab over the finished surface of canal inside slope and bed all complete job as per specification (Page - a 96, Item-10.1.36)	2900	M <sup>2</sup>	Rs.4.10	Rs. 11,890/-
2.	Providing 0.6 x 0.45 x 0.056M. pre-cast PCC (1 :3:6) slab in the side slope and bed of the canal with groove of the x slab etc. set in cement mortar (1:3) and flush pointing (1 :2) including cost of all materials carriage, royalty, labours all complete job as per specification and direction of Engineer In-charge. (Page-1 03, Item-0.2.19).	5100	M <sup>2</sup>	Rs.125/-	Rs.6,37,500/-
3.	Providing PCC(1:3:6) with approved quality of graded stone chips of 20mm and down size and coarse granular sand of approved quality in lug slab, cross and longitudinal sleepers for lining of canal including mixing cement concrete in mixer vibrating and curing including screening royalty all taxes, carriage of materials etc. wit all lifts and leads, removal of shuttering etc all complete job as per drawing, specification and direction of Engineer In-charge.	50	M <sup>3</sup>	Rs.2184.90	Rs.1,09,245/-
4.	Providing intake wall with cement concrete (1:2:4) with approved quality of stone chips 20mm down to 6mm graded and quality sand including the cost of form	10	Nos.	Rs.396.40	Rs.3,964/-

	work, making space for under drainage pipes, fixing bolts of suitable size to fix valve on top, curing and placing in position, mixing cement concrete in mixer all complete job including royalty all taxes with cost of all labor and materials as per specification and direction of Engineer In-charge (Page -98, Item - 10.2.3).				
5.	Providing 10mm thick vertical joints in lining at suitable interval filled with bituminous materials of approved quality including cost of materials all complete (Page-101, Item-10.2.10.1).	500	M	Rs.18.60	Rs.9,300/-
6.	Supplying, fitting and fixing 150mm dia vertical non return valves complete with bolts, nuts plates etc. all complete.	15	Nos.	Rs.2500/-	Rs.37,500/-
7.	Supplying, fitting and fixing 50mm dia non return pocket valves complete with bolts, nuts etc. all complete.	30	Nos.	Rs.1500/-	Rs.45,000/-
8.	Lip cutting for providing trans filter and drain all complete job including the cost and laying of sand stone chips filter of graded all complete job as per direction of Engineer In-charge.	650	M <sup>3</sup>	Rs. 25/-	Rs.15,750/-
				TOTAL-	Rs.8,70,149/-
				SAY -	Rs. 8.70 Lakhs.



**ESTIMATE OF COST OF CONSTRUCTION OF EACH S.L.R. BIDGE :  
ONE ON POWER CHANNEL AND ONE IN TAILRACE CHANNEL. OF NASRIGANJ S.H.P.**

S. N.	Item of Work	Qty.	Unit	Rate	Amount
1.	Earth work in excavation of foundation trenches in all kinds of soils with all leads & lifts as per drawing, specification and direction of Engineer In-charge.	250	M <sup>3</sup>	Rs.21.90	Rs.5,475/-
2.	P.C.C. (1:3:6) M-100 in foundation of piers with stone metal 1 1/2" and down and Sone sand (washed and screened) including the cost of centering, shuttering and curing etc. complete job as per drawing, specification and direction of Engineer In-charge.		M		Rs.55,507.40
3.	1 <sup>st</sup> class brickwork in C.M. (1:4) quality Sone sand w/s in foundation and superstructure including cost of curing, as per drawing, specification and direction of Engineer In-charge. (Page -113, Item-10.4.2).	155	M <sup>3</sup>	Rs.1427.80	Rs.2,21,309/-
4.	Earth work in filling in foundation trenches with previous soil including watering & remaining in layers as per specification and direction of Engineer I/C complete.	145	M <sup>3</sup>	Rs.16.95	Rs.2,467.40
5.	R.C.C.M-150 (1:2:4) with stone chips 3/4" and down and Sone sand (washed & screened) in bearing slab of piers including cost of shuttering, centering and currying etc. but excluding the cost of reinforcement as per drawing, specification and direction of Engineer I/C. (Page-105, Item-10.3.4).	15	M <sup>3</sup>	Rs.1737.55	Rs.26,063.25
6.	Providing roller boring with all accessories complete set for girder of bridge including supply, fabrication and erection complete as per drawing, specification and direction of Engineer I/C (for class A loading).	8	Sets	Rs.500/-	Rs.40,000/-
7.	R.C.C. (1:2:4) M-150 with stone chips 3/4" and down and Sone sand in wearing coat as per drawing, specification and direction of Engineer I/C (Page-110, Item- 10.3.13).	25	M <sup>3</sup>	Rs.1746.30	Rs.43,657.50
8.	Providing expansion joint in deck slab and weasing coat with angle iron and master fillet etc. including cost of supply, filling and mixing complete.	12	M	Rs.250/-	Rs.3,000/-
9.	R.C.C. (1:2:4) M-150 with Stone chips 3/4" and down and Sone sand w/s in pre cast wall including cost of shuttering, centring and curing, etc. complete but excluding cost of reinforcement.	6	M <sup>3</sup>	Rs.1732.55	Rs.10,425.30
10.	R.C.C. (1:1 1/2 :3) M-200 with stone chips 3/4" and down and Sone sand in wearing coat as per drawing, specification and direction of Engineer I/C (Page-110, Item- 10.3.13).	20	M <sup>3</sup>	Rs.2094.30	Rs.41,886/-

11.	Providing 4" dia G.I. drain water pipe in deck slab with perforated cap including cost of material & labor complete as per specification and direction of Engineer In-charge.	12	Nos.	Rs.80/-	Rs. 960/-
12.	Providing R.C.C. (1:2:4) M-120 railing and railing post with stone chips ¾" and down and Sone sand including cost of reinforcement as per specification and direction of Engineer In-charge.	35	M <sup>1</sup>	Rs.1737.85	Rs.60,814.25
13.	Providing deep ruled cement in C.M. (1 :3) with Sone sand (w/s) as per specification and direction of Engineer I/C on brick work exposed surface (Page-122, Item- 10.5.11)	150	M <sup>1</sup>	Rs.37.10	Rs.5,565/-
14.	Providing reinforcement in R.C.C. work including cost of cutting, beading, placing in position and binding with 16 BWG wire complete s per drawing, specification and direction of Engineer I/c.	12	MT	Rs.17,309.80	Rs.2,07,711.60
15.	Providing Wheel guard post of R.C.C. (1:2:4) with stone chips ¾"nd down and Sone Sand (w/s) 3' -6' long and 9" dia including cost of shuttering, centering, curing and cost of reinforcement all complete as per drawing, specification all direction of Western Link Canal Hydro electric Project)	35	Nos.	Rs.45/- each	Rs.1,575.00
16.	Dewatering, Diversion of Road and site clearance, etc.	L.S.			Rs.65,000/-
				<b>TOTAL-</b>	<b>Rs.7,91,416.70</b>
				<b>Say-</b>	<b>Rs.7.92 lakhs.</b>

Note:

1. Cost of one No. S.L.R. Bridge on Power Channel Rs. 7.92 lakhs
2. Cost of one No. S.L.R. Bridge on Tailrace Channel Rs. 7.92 lakhs.



**ESTIMATE OF COST FOR CONSTRUCTION OF POWER HOUSE OF  
NASRIGANJ SMALL HYDROELECTRIC PROJECT**

**POWER HOUSE**

S.N.	Item of Work	Qty.	Unit	Rate	Amount
1.	Earth work in excavation of foundation trenches of Power House structures service ways, retaining walls u/s & d/s aprons etc in all kinds of soil wet & dry including all lifts & leads by manual labor as per drawing, specification and direction of Engineer I/C. (Vide Item No. 10.1.7 & 10.1.33.1 & 10.1.34.1 Page -85, 93 & 94 of Volume No III & IV).	3100	M <sup>3</sup>	Rs.21.90	Rs.67,890/-
2.	Earth work in filling with selected earth on back fill of abutment wing walls and foundation trenches in larges not exceeding 15cm well watered rammed fully completed by machine at CMC to the desired percentage of maximum dry density with all lifts & leads as per drawing, specification and direction of Engineer I/C (Page-86, Item-10.1.9).	5600	M <sup>3</sup>	Rs.16.95	Rs.94,920/-
3.	P.C.C.M. 7.5 (1:4:8) in foundation well below raft including cost of materials labor, mixing conveying laying, compacting and curing alongwith the cost of shuttering and centering all complete as per drawing, specification and direction of Engineer I/C. (Page-104, Item 10.3.2).	22	M <sup>3</sup>	Rs.1268.26	Rs.27,901.72
4.	(a) Providing and laying RCC M-200 in foundation and plinth and superstructure at all elevation with hard quartzite or trap stone chips including the cost of shuttering, curing, etc. all complete job excluding the cost of reinforcement and its banging, binding, cutting & placing with position, (vide page -108, Item 10.3.10).	710	M <sup>3</sup>	Rs.2016.25	Rs.14,31,537.50
	(b) Providing and laying RCC M-15 in foundation and plinth and superstructure at all elevation with hard quartzite or trap stone chips including the cost of shuttering, curing, etc. all complete job excluding the cost of reinforcement and its banging, binding, cutting & placing with position and direction of Engineer I/C. (Page -109, Item 10.3.12).	155	M <sup>3</sup>	Rs.1729.95	Rs.2,59,492.50
5.	Supply & laying for Steel reinforcement in concrete work including straighting, derusting, curing, bending & binding with 16/20 SWG annealed wire, welding top but etc with approved electrodes,	56	MT	Rs.17,309.30	Rs.9,69,320.80

	providing cone block pins chain supports or reinforcement etc. with all materials complete as per drawing, specification and direction of Engineer In-charge (Page - 122, Item No. 1 0.3.22).				
6.	Supply, fabrication, erection, fitting, fixing, painting & hoisting of roof trusses including embedded parts as per drawing, specification & direction of Engineer I/C. (Vide Page -18 and 126, Item No. (ii) and 5.5.28).	20	MT	Rs.21,452.80	Rs.4,29,056/-
7.	Supply, fabrication, fitting and fixing in position pressure release pipe and M.S. grill railing, steel ladders and steel hoisting agreements chequered plates, etc wherever necessary as per drawing, specification and direction of Engineer I/C. (Page -122, Item 3.5.28 and Page-18).	25	MT	Rs.23,352.80	Rs.5,83,820/-
8.	(a) Supply, erection, fitting & fixing of embedded plates 12mm thick to trash rack beams of the Power House as per drawing, specification and direction of Engineer In-charge.	10	MT	Rs.21,452.90	Rs.2,14,528/-
8.	b. Supply, erection, fitting & fixing of MS. Flats/rods in surrounding Mat/cables for earthing etc. all complete job as per direction of Engineer In-charge.	8	MT	Rs.21,452.80	Rs.1,71,622.40
9.	Providing and fixing steel doors and windows fully glazed etc as per I.S. specification and direction of Engineer I/C. (Page-120, Item 5.5.18).	60	M <sup>2</sup>	Rs.1173.10	Rs.70,386/-
10.	Supplying, fitting and fixing in position 16 gauge rolling steel shutter as per I.S. specification including all railings, roller bearing, locking (double lock) arrangement as per direction of Engineer I/C. (Page-119, Item- 5.5.16).	15	M <sup>2</sup>	Rs.977.70	Rs.14,665.50
11.	Providing & fabricating steel purling C.P.E. including the cost of its erection and one coat of protective painting as per specification and direction of Engineer I/C.	8	MT	Rs.21,452	Rs.1,71,622.40
12.	Providing & fixing 100mm H.C.I. rain water down pipe including its all fittings complete s per specification and direction of Engineer I/C. (Page-56, Item24 (c) and Item 12.1.45.3, Page-220).	90	M	Rs.226.80	Rs.20,412/-
13.	Providing all materials & labour for expension joints including supplying, fixing and placing of 230mm water stops filling with asphalt in diamond shaped hole in concrete of size 125mm square & providing 1 no. 12mm galvanised	50	M <sup>2</sup>	Rs.985.35	Rs.49,267.50



	standard, stream pipe, pipe clamp & 12x250mm bolts & fixing 25mm thick bituminous board in the gap of the existing joints as per drawing, specification and direction of Engineer in-charge (Page-161, Item - 5.10.25)				
14.	Supply & laying standard ton of terphelt or equivalent water proofing material in double layers of tarpelt treatment in five course over exposed roofs of Power House treating the top with gravel 100 Sq. ft. of surface (it will be the 6 <sup>th</sup> and last course as per I.S.S. and manufactures specification the surface with brush and cloths lightly soaked in vasing oil and cost of all materials & labour complete job as per drawing, specification and direction of Engineer I/C (Page-32, Item-84)	220	M <sup>2</sup>	Rs. 950/-	Rs. 2,09,000/-
15.	Providing and laying 25mm thick mosaic tile flooring/glazed tiles as per specification and direction of Engineer I/c. (Page-130, Item-5.6.15(c).	200	M <sup>2</sup>	Rs. 398.55	Rs. 79,710/-
16.	Providing & laying wall finishing work including coloring etc.	L.S.			Rs. 2,40,000/-
17.	Providing & Painting steel structure, windows doors and etc.	L.S.			Rs. 30,000/-
18.	Providing & fixing water supply and sanitary installation work.	L.S.			Rs. 40,000/-
19.	Providing & fixing electrification works.	L.S.			Rs. 40,000/-
20.	Site clearance, leveling and dressing.	L.S.			Rs. 15,000/-
21.	Dewatering during construction.	L.S.			Rs. 23,00,000/-
22.	Providing & Laying pre cast slab R.C.C. *M-150) as per design and drawing all complete job (Over roof Trusses).	L.S.			Rs. 1,50,000/-
23.	Providing and laying foam concrete complete job over the pre cast slab as per design and instruction of Engineer I/C.	L.S.			Rs. 2,00,000/-
24.	Providing & Laying of "ESCAPE" & shifting of the existing village channel all complete job.	L.S.			Rs. 16,50,000/-
				TOTAL-	Rs. 95,30,152.30
				Say-	Rs. 95.30 lakh.

ESTIMATE OF COST OF EXCAVATION OF TAILRACE CHANNEL

S.N.	Item of Work	Qty.	Unit	Rate	Amount
1.	Earth work in excavation in all kinds of soil, within initial lead of 50m and initial lift of 1.5M as per drawing, specification and direction of Engineer I/c	12100	M <sup>3</sup>	Rs. 17.90	Rs. 2,16,590/-
2.	Extra for lead of 25M or part thereof over initial lead of 30M as per specification (one extra lead).	12100	M <sup>3</sup>	Rs. 2/-	Rs. 24,200/-
3.	Extra for each lift of 1.0M or part thereof over the initial lift of 1.5M per specification.	12100	M <sup>3</sup>	Rs. 2/-	Rs. 24,200/-
4.	Extra for wet soil	2000	M <sup>3</sup>	Rs. 2/-	Rs. 4,000/-
5.	Extra for consolidation of earth in 225mm layers with power roller including watering and ramming as per specification.	12100	M <sup>3</sup>	Rs. 2/-	Rs. 24,200/-
6.	Fine dressing and turfing with 3" thick grass sods obtained within a lead of 60M.	2500	M <sup>2</sup>	Rs. 2.30	Rs. 5,750/-
				<b>TOTAL-</b>	<b>Rs. 2,98,940/-</b>
				Say Rs.-	2.99 lakhs.



**ESTIMATE OF COST OF LINING OF TAILRACE CHANNEL OF  
NASRIGANJ SMALL HYDROELECTRIC PROJECT**

S.N.	Item of Work	Qty.	Unit	Rate	Amount
1.	Fine dressing the inside slope and bed of the canal with compacted fully and rammed I well including wetting of required etc. all complete job as per direction of Engineer In-charge for laying PCC pre cast concrete slab over the finished surface of canal inside slope and bed all complete job as per specification (Page -96, Item -10.1.36).	6100	M <sup>2</sup>	Rs.4.10	Rs.25,010/-
2.	Providing 0.6 x 0.45 x 0.056M pre cast PCC (1:3:6) slab in the side slope and bed of the canal with groove of the slab etc. set in cement mortar (1:3) and flush pointing (1:2) including cost of all materials carriage, royalty, labours all complete job as per specification and direction of Engineer In-charge. (Page- 103, Item- 10.2.19)	6650	M <sup>2</sup>	Rs.125/-	Rs.8,31,250/-
3.	Providing intake walls with cement concrete (1:2:4) with approved quality of stone chips 20mm down to 6mm graded and quality sand including the cost of form work, making space bolts of suitable size to fix valve on top, curing and placing in position, mixing cement concrete in mixer all complete job including royalty all taxes with cost of all labor and materials as per specification and direction of Engineer In-charge. (Page- 98, Item -10.2.3).	20	Nos.	Rs.396.40	Rs.7,928/-
4.	Providing 10mm thick vertical joints in lining at suitable interval filled with bituminous materials of approved quality including cost of materials all complete. (Page - 101, Item -10.2.10.1).	700	M	Rs.18.60	Rs.13,020/-
5.	Supplying, fitting and fixing 150mm dia vertical non return valves complete with bolts, nuts plates etc all complete.	20	Nos.	Rs.2,500/-	Rs.50,000/-
6.	Supplying, fitting and fixing 150mm dia non return pocket valve complete with bolts, nuts etc. all complete.	40	Nos.	Rs.1,500/-	Rs.60,000/-

7.	Lip cutting for providing transverse filter and drain all complete job including the cost and laying of sand/stone chips filter of graded all complete jogas per direction of Engineer I/c.	1200	M <sup>3</sup>	Rs.25/-	Rs.30,000/-
				TOTAL-	Rs.10,17,208/-
				Say-	Rs. 10.17 lakhs.



**ESTIMATE OF COST OF CONSTRUCTION OF D.L.R. BRIDGE AT 210 METRES OF  
POWER CHANNEL OF NASRIGANJ HYDROELECTRIC PROJECT.**

S.N.	Item of Work	Qty.	Unit	Rate	Amount
1.	Earth work in excavation of foundation trenches in all kind of soils with all leads & lifts as per drawing, specification and direction of Engineer I/c.	350	M <sup>3</sup>	Rs.21.90	Rs.7,665/-
2.	P.C.C. (1:3:6) M-100 in foundation of piers with stone metal 1 1/2" & down & Sone sand (washed & screened) including the cost of centering, shuttering and curing etc. complete job as per drawing, specification and direction of Engineer In-charge.	35	M <sup>3</sup>	Rs.2,184.90	Rs.76,471.50
3.	1" class brick work in CM (1:4) with quality Sone sand w/s in foundation and super structure including cost of curing, as per drawing, specification and direction of Engineer In-charge.	230	M <sup>3</sup>	Rs.1,427.80	Rs.3,28,394/-
4.	Earth work in filling in foundation trenches with previous soil including watering & remaining in layers as per specification and direction of Engineer In-charge complete.	200	M <sup>3</sup>	Rs.16.95	Rs.3,390/-
5.	R.C.C.M-150 (1:2:4) with stone chips 3/4" and down and Sone sand (washed and screened in bearing slab of piers including cost of shuttering, centering and curing etc. but excluding the cost of reinforcement as per drawing, specification and direction of Engineer In-charge. (Page - 105, Item-10.3.4).	22	M <sup>3</sup>	Rs.1,737.55	Rs.38,226.10
6.	Providing roller boring with all accessories complete set for girder of bridge including supply, fabrication and erection complete as per drawing, specification and direction of Engineer I/c (for Class- A-A loading).	8	Sets	Rs.5,000/-	Rs.40,000/-
7.	R.C.C.(1:2:4) M-150 with stone chips 3/4" and down and Sone sand (washed and screened) in deck slab, kerb and girder including the cost of storing, shuttering, centering, and curing complete but excluding the cost of reinforcement as per specification and direction of Engineer In-charge. (Page-63, Item-9.3.8).	35	M <sup>3</sup>	Rs.1,746.30	Rs.61,120.50
8.	Providing expansion joint in deck	20	M	Rs.250/-	Rs.5,000/-

	slab & weasing cost with angle iron and master fillet etc. including cost of supply, filling and mixing complete.				
9.	R.C.C. (1:2:4) M-150 with stone chips $\frac{1}{4}$ " and down and Sone sand w/s in breast wall including cost of shuttering, centering and curing etc. complete but excluding cost of reinforcement	8	M <sup>3</sup>	Rs 1,717.55	Rs 13,900.40
10.	R.C.C. (a:1 $\frac{1}{2}$ :3) M-200 with stone chips $\frac{1}{4}$ " and down and Sone sand in wearing coat as per drawing, specification and direction of Engineer I/c	31	M <sup>3</sup>	Rs 2,094.30	Rs 64,923.30
11.	Providing 4" dia G.I. drain water pipe in deck slab with perforated cap including cost of material and labour complete as per specification and direction of Engineer I/c.	16		Each Rs 80/-	Rs 1,280/-
12.	Providing R.C.C. (1:2:4) m-150 railing and railing post with stone chips $\frac{1}{4}$ " and down and Sone sand including cost of shuttering, centering and curing complete but excluding cost of reinforcement as per specification and direction of Engineer In-charge.	45	M <sup>3</sup>	Rs 1,737.55	Rs 78,189.75
13.	Providing deep ruled cement pointing in C.M. (1:3) with Sone sand (w/s) as per specification and direction of Engineer In-charge on brickwork exposed surface.	240	M <sup>2</sup>	Rs 37.10	Rs 8,904.00
14.	Providing reinforcement in R.C.C. work including cost of cutting, bending, placing in position and binding with 16 BWG wire complete as per drawing, specification and direction of Engineer In-charge.	15	MT	Rs 17309.30	Rs 2,59,638/-
15.	Providing wheel guard post of R.C.C. (1:2:4) with stone chips $\frac{1}{4}$ " and down and Sone sand (w/s) 3'-6" long and 9" dia including cost of shuttering, centering, curing and cost of reinforcement all complete as per drawing, specification and direction of Engineer I/c (vide Sone Western Link Canal Hydroelectric Project).	50	Nos.	Rs 45/-	Rs 2,250/-
16.	Dewatering, Diversion of Road and site clearance, etc.	L.S.			Rs 1,00,000/-
				TOTAL-	Rs 12,89,352.40
				Say-	Rs 12.90 lakhs



**DETAILS OF COST UNDER THE SUB-HEAD MISCELLANEOUS**

S.No.	Particulars		Amount in Rs. Lakhs
1.	Capital cost of		
	i.	Electrification of colony	L.S. Rs. 0.20
	ii.	Water supply over head tank	L.S. Rs. 0.50
	iii.	Sewage and drains	L.S. Rs. 0.20
2.	Other Items		
	i.	Technical record Photographic records	L.S. Rs. 0.10
	ii.	Tree Plantation	L.S. Rs. 0.10
		TOTAL	Rs. 1.10 lakhs.

DETAILS OF COST UNDER THE SUB-HEAD COMMUNICATION

S.No.	Particulars	Qty.	Rate	Amount (in lakhs)
1.	Cost of improving the existing road upto Power House site (Widening & metalling)	1 Km	Rs. 1.50 lacs per km.	Rs. 1.50 lakhs
2.	Construction of colony road	L.S.		Rs. 0.60 lakhs
3.	Telephone	L.S.		Rs. 0.50 lakhs.
			Total	Rs. 2.60 lakhs.



DETAILS OF COST UNDER THE SUB-HEAD  
E-SPECIAL TOOLS AND PLANTS

One Number Jeep (Inspection Vehicle)	
@ Rs. 4 lakhs each	Rs. 4.00 lakhs
Other special tools	Rs. 1.00 lakh
TOTAL	Rs. 5.00 lakhs.

**ESTIMATE FOR ELECTRICAL & MECHANICAL EQUIPMENT INCLUDING  
EVACUATION SYSTEM**

**A. ELECTRICAL & MECHANICAL EQUIPMENTS**

S.N.	Particulars	Qty	Unit Price Ex-works (in lacs)	Total Price (in lacs)
1	Vertical semi-Kaplan, Turbine with Syphon Intake	2	37.00	74.00
2	Governing System	2	10.00	20.00
3	Speed Increaser	2	13.00	26.00
4	E O T. Crane-10 T capacity	1	5.00	5.00
5	Generator	2	21.00	42.00
6	Power Transformer	1	6.00	6.00
7	Battery with charging System	1 set	3.00	3.00
8	Switchboard Panels for Turbine Generator, Auxiliary, etc.	L.S.	22.00	22.00
9	Switch -Yard	L.S.	10.00	10.00
10	Cabling/Earthing Lighting/ Ventilation/ Fire fighting	L.S.	15.00	15.00
11	30 KVA diesel Generator with Control Panel and emergency Supply System	L.S.	2.00	2.00
12	Tools & Plants	L.S.	1.00	1.00
13	Spares for two years O & M	L.S.	8.00	8.00
			<b>Total-</b>	<b>234.00</b>
14	Excise duty 12%			28.08
			<b>Total-</b>	<b>262.08</b>
15	C.S.T. 4% Central Sales tax			10.48
16	Transport and transit insurance & insurance during erection	L.S.		03.00
17	Miscellaneous overhead charges	L.S.		03.00
18	Cost of erection, testing and commissioning of equipment covered from Sl. No. 1 to 11 above.	L.S.		24.00
			<b>Grand Total-</b>	<b>302.56</b>
			<b>Say-</b>	<b>303.00 lakhs</b>
B.	<b>COST OF POWER EVACUATION</b>			
1	Cost of Transmission Line 11KV on Weasel conductor SKM in length	L.S.		2.00
C.	<b>TRIAL &amp; COMMISSIONING ACTIVITIES</b>			
1	Cost of lubricant and other consumables	L.S.		1.00

*Handwritten notes:*  
 1. 10.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00 17.00 18.00 19.00 20.00 21.00 22.00 23.00 24.00 25.00 26.00 27.00 28.00 29.00 30.00 31.00 32.00 33.00 34.00 35.00 36.00 37.00 38.00 39.00 40.00 41.00 42.00 43.00 44.00 45.00 46.00 47.00 48.00 49.00 50.00 51.00 52.00 53.00 54.00 55.00 56.00 57.00 58.00 59.00 60.00 61.00 62.00 63.00 64.00 65.00 66.00 67.00 68.00 69.00 70.00 71.00 72.00 73.00 74.00 75.00 76.00 77.00 78.00 79.00 80.00 81.00 82.00 83.00 84.00 85.00 86.00 87.00 88.00 89.00 90.00 91.00 92.00 93.00 94.00 95.00 96.00 97.00 98.00 99.00 100.00 101.00 102.00 103.00 104.00 105.00 106.00 107.00 108.00 109.00 110.00 111.00 112.00 113.00 114.00 115.00 116.00 117.00 118.00 119.00 120.00 121.00 122.00 123.00 124.00 125.00 126.00 127.00 128.00 129.00 130.00 131.00 132.00 133.00 134.00 135.00 136.00 137.00 138.00 139.00 140.00 141.00 142.00 143.00 144.00 145.00 146.00 147.00 148.00 149.00 150.00 151.00 152.00 153.00 154.00 155.00 156.00 157.00 158.00 159.00 160.00 161.00 162.00 163.00 164.00 165.00 166.00 167.00 168.00 169.00 170.00 171.00 172.00 173.00 174.00 175.00 176.00 177.00 178.00 179.00 180.00 181.00 182.00 183.00 184.00 185.00 186.00 187.00 188.00 189.00 190.00 191.00 192.00 193.00 194.00 195.00 196.00 197.00 198.00 199.00 200.00 201.00 202.00 203.00 204.00 205.00 206.00 207.00 208.00 209.00 210.00 211.00 212.00 213.00 214.00 215.00 216.00 217.00 218.00 219.00 220.00 221.00 222.00 223.00 224.00 225.00 226.00 227.00 228.00 229.00 230.00 231.00 232.00 233.00 234.00 235.00 236.00 237.00 238.00 239.00 240.00 241.00 242.00 243.00 244.00 245.00 246.00 247.00 248.00 249.00 250.00 251.00 252.00 253.00 254.00 255.00 256.00 257.00 258.00 259.00 260.00 261.00 262.00 263.00 264.00 265.00 266.00 267.00 268.00 269.00 270.00 271.00 272.00 273.00 274.00 275.00 276.00 277.00 278.00 279.00 280.00 281.00 282.00 283.00 284.00 285.00 286.00 287.00 288.00 289.00 290.00 291.00 292.00 293.00 294.00 295.00 296.00 297.00 298.00 299.00 300.00 301.00 302.00 303.00 304.00 305.00 306.00 307.00 308.00 309.00 310.00 311.00 312.00 313.00 314.00 315.00 316.00 317.00 318.00 319.00 320.00 321.00 322.00 323.00 324.00 325.00 326.00 327.00 328.00 329.00 330.00 331.00 332.00 333.00 334.00 335.00 336.00 337.00 338.00 339.00 340.00 341.00 342.00 343.00 344.00 345.00 346.00 347.00 348.00 349.00 350.00 351.00 352.00 353.00 354.00 355.00 356.00 357.00 358.00 359.00 360.00 361.00 362.00 363.00 364.00 365.00 366.00 367.00 368.00 369.00 370.00 371.00 372.00 373.00 374.00 375.00 376.00 377.00 378.00 379.00 380.00 381.00 382.00 383.00 384.00 385.00 386.00 387.00 388.00 389.00 390.00 391.00 392.00 393.00 394.00 395.00 396.00 397.00 398.00 399.00 400.00 401.00 402.00 403.00 404.00 405.00 406.00 407.00 408.00 409.00 410.00 411.00 412.00 413.00 414.00 415.00 416.00 417.00 418.00 419.00 420.00 421.00 422.00 423.00 424.00 425.00 426.00 427.00 428.00 429.00 430.00 431.00 432.00 433.00 434.00 435.00 436.00 437.00 438.00 439.00 440.00 441.00 442.00 443.00 444.00 445.00 446.00 447.00 448.00 449.00 450.00 451.00 452.00 453.00 454.00 455.00 456.00 457.00 458.00 459.00 460.00 461.00 462.00 463.00 464.00 465.00 466.00 467.00 468.00 469.00 470.00 471.00 472.00 473.00 474.00 475.00 476.00 477.00 478.00 479.00 480.00 481.00 482.00 483.00 484.00 485.00 486.00 487.00 488.00 489.00 490.00 491.00 492.00 493.00 494.00 495.00 496.00 497.00 498.00 499.00 500.00 501.00 502.00 503.00 504.00 505.00 506.00 507.00 508.00 509.00 510.00 511.00 512.00 513.00 514.00 515.00 516.00 517.00 518.00 519.00 520.00 521.00 522.00 523.00 524.00 525.00 526.00 527.00 528.00 529.00 530.00 531.00 532.00 533.00 534.00 535.00 536.00 537.00 538.00 539.00 540.00 541.00 542.00 543.00 544.00 545.00 546.00 547.00 548.00 549.00 550.00 551.00 552.00 553.00 554.00 555.00 556.00 557.00 558.00 559.00 560.00 561.00 562.00 563.00 564.00 565.00 566.00 567.00 568.00 569.00 570.00 571.00 572.00 573.00 574.00 575.00 576.00 577.00 578.00 579.00 580.00 581.00 582.00 583.00 584.00 585.00 586.00 587.00 588.00 589.00 590.00 591.00 592.00 593.00 594.00 595.00 596.00 597.00 598.00 599.00 600.00 601.00 602.00 603.00 604.00 605.00 606.00 607.00 608.00 609.00 610.00 611.00 612.00 613.00 614.00 615.00 616.00 617.00 618.00 619.00 620.00 621.00 622.00 623.00 624.00 625.00 626.00 627.00 628.00 629.00 630.00 631.00 632.00 633.00 634.00 635.00 636.00 637.00 638.00 639.00 640.00 641.00 642.00 643.00 644.00 645.00 646.00 647.00 648.00 649.00 650.00 651.00 652.00 653.00 654.00 655.00 656.00 657.00 658.00 659.00 660.00 661.00 662.00 663.00 664.00 665.00 666.00 667.00 668.00 669.00 670.00 671.00 672.00 673.00 674.00 675.00 676.00 677.00 678.00 679.00 680.00 681.00 682.00 683.00 684.00 685.00 686.00 687.00 688.00 689.00 690.00 691.00 692.00 693.00 694.00 695.00 696.00 697.00 698.00 699.00 700.00 701.00 702.00 703.00 704.00 705.00 706.00 707.00 708.00 709.00 710.00 711.00 712.00 713.00 714.00 715.00 716.00 717.00 718.00 719.00 720.00 721.00 722.00 723.00 724.00 725.00 726.00 727.00 728.00 729.00 730.00 731.00 732.00 733.00 734.00 735.00 736.00 737.00 738.00 739.00 740.00 741.00 742.00 743.00 744.00 745.00 746.00 747.00 748.00 749.00 750.00 751.00 752.00 753.00 754.00 755.00 756.00 757.00 758.00 759.00 760.00 761.00 762.00 763.00 764.00 765.00 766.00 767.00 768.00 769.00 770.00 771.00 772.00 773.00 774.00 775.00 776.00 777.00 778.00 779.00 780.00 781.00 782.00 783.00 784.00 785.00 786.00 787.00 788.00 789.00 790.00 791.00 792.00 793.00 794.00 795.00 796.00 797.00 798.00 799.00 800.00 801.00 802.00 803.00 804.00 805.00 806.00 807.00 808.00 809.00 810.00 811.00 812.00 813.00 814.00 815.00 816.00 817.00 818.00 819.00 820.00 821.00 822.00 823.00 824.00 825.00 826.00 827.00 828.00 829.00 830.00 831.00 832.00 833.00 834.00 835.00 836.00 837.00 838.00 839.00 840.00 841.00 842.00 843.00 844.00 845.00 846.00 847.00 848.00 849.00 850.00 851.00 852.00 853.00 854.00 855.00 856.00 857.00 858.00 859.00 860.00 861.00 862.00 863.00 864.00 865.00 866.00 867.00 868.00 869.00 870.00 871.00 872.00 873.00 874.00 875.00 876.00 877.00 878.00 879.00 880.00 881.00 882.00 883.00 884.00 885.00 886.00 887.00 888.00 889.00 890.00 891.00 892.00 893.00 894.00 895.00 896.00 897.00 898.00 899.00 900.00 901.00 902.00 903.00 904.00 905.00 906.00 907.00 908.00 909.00 910.00 911.00 912.00 913.00 914.00 915.00 916.00 917.00 918.00 919.00 920.00 921.00 922.00 923.00 924.00 925.00 926.00 927.00 928.00 929.00 930.00 931.00 932.00 933.00 934.00 935.00 936.00 937.00 938.00 939.00 940.00 941.00 942.00 943.00 944.00 945.00 946.00 947.00 948.00 949.00 950.00 951.00 952.00 953.00 954.00 955.00 956.00 957.00 958.00 959.00 960.00 961.00 962.00 963.00 964.00 965.00 966.00 967.00 968.00 969.00 970.00 971.00 972.00 973.00 974.00 975.00 976.00 977.00 978.00 979.00 980.00 981.00 982.00 983.00 984.00 985.00 986.00 987.00 988.00 989.00 990.00 991.00 992.00 993.00 994.00 995.00 996.00 997.00 998.00 999.00 1000.00



14.2 PAY BACK PERIOD

1.	<b>INVESTMENT</b>	Rs.lakhs.
	1.1 Project capital cost	Rs.5, 44,00,000/-
	1.2 Interest during construction	Rs.0, 54,40,000/-
	1.3 Total Investment	Rs.5, 98,40,000/-
2.	<b>REVENUE DURING OPERATION</b>	
	2.1 Annual Revenue Generated	
	a, Units sent out/year KWh (Refer item 9 of calculation sheet of units)	81,04,772.5 Kwh
	b. Selling price of power Paise / Kwh (Refer item 15 of calculation sheet of units generated)	203
	c. Total revenue generated: axb/100	Rs. 1, 64,52,688/-
2.2	<b>Annual Generation Costs Incurred</b>	
	Annual fixed charges excluding depreciation and interest charges (Refer item 10(b) of calculation of cost of generation)	Rs. 0 05,44,000/-
2.3	Net Annual revenue generation (2.1 -2.2)	Rs. 1,59,08,688/-
3.0	Pay back period (1.3/2.3)	3.76 years.

14.3 BENEFIT COST RATIO

A.	Annual Expenses	
1	O& M	
2.	Depreciation charges @ 2%	Rs.5,44,000/-
3.	Interest charges	Rs. 88,000/-
4.	Total annual expenses	Rs. 59,84,000/-
B.	Annual Revenue	Rs. 76,16,000/-
C.	Benefit cost ratio (B/A ) =	Rs.1,64,52,688/-
		2.16



AGNOOR HYDROELECTRIC PROJECT

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	10.0	Estimate (Civil & Electrical)
	11.0	Economic Evaluation
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## CHAPTER - X ESTIMATE (CIVIL AND ELECTRICAL)

### 10.1 General :

The total estimated cost of the project is Rs. 247.5 lakhs. The cost of civil work is Rs. 89.33 lacs and cost of electrical and mechanical equipments (including cost of Transmission line) is Rs. 158.16 lacs. The general abstract of cost, the abstract of cost sub head wise for various components are enclosed with the report in the following chapter. The estimates for Civil works are based on the current rates of material and labour as approved by the Government for the project area. However, rates of some items not available in the current schedule of rates have been taken from other project estimates. The rates for electrical equipments are based on the current market price.

### 10.2 Provision in the Estimate :

The provisions made under different sub-heads are discussed below in brief:

#### 10.3 A- Preliminary

A sum of Rs. 1.65 lacs has been provided under this sub-head which is less than 2% of I-works of Civil works.

#### 1.04 B - Land :

A sum of Rs. 4.21 lacs has been provided under this sub-head. The rate of land acquisition has been taken as Rs. 4000/- per ha and that of crop compensation as Rs. 25000/- per ha has suggested by Revenue Department, Government of Bihar for Sone modernisation project. Provision for other allied matters has also be made.

### 10.5 E - Fall :



A provision of Rs. 0.3 lacs has been made for the remodeling of the existing gates of all and making it electrically operated.

**10.6 J - Power Plant / Appurtenance (Civil Works) :**

A sum of Rs. 58.885 lacs has been provided under this sub-head which includes the following :

10.06.1 The estimated cost of excavation and lining of power channel alongwith the cost of construction of a D.L.R. bridge cum H/R on it is Rs. 18.43 lacs.

10.06.2 The estimated cost of tailrace channel including excavation, lining and construction of a super passage to allow a parallel channel to pass over it is Rs. 6.83 lacs.

10.06.3 The estimated cost of the civil works of power house is Rs. 33.625 lacs, which includes the entire civil works.

**10.7 K - Building :**

A sum of Rs. 11.52 lacs has been provided for the construction of permanent as well as temporary buildings as per requirement of the project. This is about 4.65% of I-works (Civil & Electrical).

**10.08 M - Plantation :**

A sum of Rs. 0.15 lac has been provided under this sub-head.

**10.09 O - Miscellaneous :**

A sum of Rs. 2.60 lacs has been provided under this sub-head, which includes the cost of electrical and sanitary installations, water supply R/M of inspection vehicles. Provisions have also been made for security arrangement, medical assistance, maintenance of telephones etc. besides expenditure during visit of signatories. This is about 3% of I-works.

**10.10 P - Maintenance :**

A sum of Rs. 0.668 lacs (about 1% of I-works) has been provided under this sub-head.

**10.11 Q = Special Tools and Plants :**

A provision of Rs. 1.44 lakhs has been made under this sub-head for the purchase of inspection vehicles only.

10.12

**R - Communication :**

A sum of Rs. 0.70 lacs has been provided under this sub-head for the improvement of existing approach road to the project site.

10.13

**Y - Losses on stock and unforeseen items :**

A sum of Rs. 0.167 lacs has been provided under this sub-head which is 0.25% of the cost of I-works less A-Preliminary, B-Land & Q-Special Tools and Plants.

10.14

**I - Works :**

The total cost of I-works for civil work is Rs. 82.29 lacs.

10.15

**Establishment :**

A sum of Rs. 6.25 lacs has been provided for establishment which is 8% of I-works less cost of B-land.

10.16

**Ordinary Tools and Plants :**

A sum of Rs. 0.82 lacs which is 1% of I-works has been provided under this sub-head.

10.17

**Receipt and Recoveries on capital account :**

The total provision under this sub-head includes the abatement of land revenue @ 5% of the cost of land and 1% of I-works on account of audit and accounts charges. The total provision is Rs. 1.03 lacs.



# **AGNOOR FALL HYDROELECTRIC PROJECT** **GENERAL ABSTRACT OF COST FOR CIVIL WORKS**

Sub Head		Amount (Rs. in Lakh)	
A	Preliminary		Rs. 1.65
B	Land		Rs. 4.21
E	Fall		Rs. 0.30
J	Power Plant/Appearance (Civil)		Rs. 168.71
	i.	Power Channel with structures	Rs. 18.43
	ii.	Power House (Civil works)	Rs. 33.625
	iii.	Tailrace Channel with structures	<u>Rs. 6.83</u>
			Rs. 58.885      Rs. 58.885
K.	Building		Rs. 11.52
M.	Plantation		Rs. 0.15
O.	Miscellaneous		Rs. 2.60
P.	Maintenance 1% of I-works less cost of A-Preliminary, B-Land and Q-Special Tools and Plants		Rs. 0.668
Q.	Special Tools and Plants		Rs. 1.44
R.	Communication		Rs. 0.70
Y.	Lasses in stock & unforeseen items @ 0.25% of I-works		Rs. 0.167
<b>Total :</b>		<b>I works</b>	<b>Rs. 82.29</b>

**Direct Charges**

I -	Works		82.29
II -	Establishment @8% of I-works Less cost of B-Land		6.25
III -	Ordinary Tools and plants @ 1% of I-works		0.82
IV -	Suspense		
V.	<u>Receipt and Recoveries -</u>		
i)	Resale of inspection vehicle	(-)	0.36
ii)	Resale of Temporary building	(-)	<u>0.70</u>
		(-)	1.60
	Total Direct Charges	-	88.30

**Indirect Charges -**

i)	Capitalised value of abetment of land revenue @ 5% of cost of B - Land -		0.21
ii)	Audit and Accounts charges @ 1% of I-works		<u>0.82</u>
	Total :-		1.03

Total cost for civil works

(Direct + Indirect) (1.03 + 88.30) = Rs. 89.33 lacs.



## DETAILS OF COST UNDER THE SUB-HEAD

### A - PRELIMINARY

Sl. No.	Particulars		Amount in Rs.
1.	Detailed alignment, survey of Power channel Tailrace Channel including dog belling, fixation of pillars etc.	L.S.	Rs. 5,000.00
2.	Establishing and fixing bench marks	L.S.	Rs. 1,000.00
3.	Digging test pits along canal alignment and at structure site	L.S.	Rs. 5,000.00
4.	Bearing pressure test at Power House sites and canal structure site and bore hole at site	L.S.	Rs. 35,000.00
5.	Establishment of rain gauges and their running charges	L.S.	Rs.10,000.00
6.	Geological testing and report	L.S.	Rs. 5,000.00
7.	Testing of Water quality	L.S.	Rs. 5,000.00
8.	Site observation	L.S.	Rs.10,000.00
9.	Stationary for preparation of report	L.S.	Rs. 3,000.00
10.	Camp equipment	L.S.	Rs.10,000.00
11.	Charges for consultancies	L.S.	Rs.50,000.00
12.	Model Experiments	L.S.	Rs.25,000.00
13.	Purchase of Technical books	L.S.	Rs. 1,000.00
14.	Training of Engineers	L.S.	Rs. 10,000.00
<b>Total :</b>			<b>Rs.1,65,000.00</b>

### DETAILED COST UNDER SUB-HEAD B - LAND

Sl.No.	Particulars	Qty.	Rate	Unit	Amount
1.	Permanent land for excavation.	3 Hect.	Rs. 62,5000/-	Per Acre	Rs. 1,87,500/-
2.	Permanent land for construction of camps.	1 Hect	Rs. 62,500	Per Hect.	Rs. 62,500/-
3.	Compensation for standing crops for 3 Hect. @ Rs. 25,000/- per ha.	-	-	-	Rs. 1,00,000/-
4.	Demarcation, dog belling and fixing of boundary pillars including joint verification.	L.S.			Rs. 2,000/-
5.	Solarium charges @ 15%				Rs. 37,500/-
6.	Interest charges @ 6%				Rs. 15,000.00
7.	Land acquisition establishment and legal expenses @ 6½%				Rs. 16,250.00
Total					Rs. 4,20,750/-
Say					Rs. 41,21,000/-



## J - POWER PLANT / APPERTENANCES (CIVL WORKS)

## GENERAL ABSTRACT OF COST

<u>Particulars</u>		<u>Cost of Rs. lacs</u>	
1.	Power Channel -		
	i) Earth work	3.70	
	ii) Lining	9.74	
	iii) Pucca structures		
	Bridge-cum- H/R	<u>4.99</u>	
	Total	18.43 lacs	Rs. 18.43 lacs
2.	Power House	33.625 lacs	Rs. 33.625 lacs
3.	Tailrace channel -		
	i) Earth work	1.12	
	ii) Lining	3.89	
	iii) Pucca structure super passage	<u>1.82</u>	
		6.83 lacs	<u>Rs. 6.83 lacs</u>
	Total -		Rs.58.885 lacs

Total for Power Plant Rs. 58.885 lacs.

## DETAILS OF COST UNDER THE SUB - HEAD

K - BUILDINGS

1. Residential Buildings for Assistant Engineer	1 No.	@ 150 M <sup>2</sup>	150 M <sup>2</sup>
Junior Engineer	3 No.	@ 90 M <sup>2</sup>	270 M <sup>2</sup>
Operator/ Asstt. Controller	3 Nos.	@ 60 M <sup>2</sup>	180 M <sup>2</sup>
Grade IV staff	5 No.	@ 40 M <sup>2</sup>	200 M <sup>2</sup>

Total for residential building = 800 M<sup>2</sup>  
 @ Rs. 1,000.00 per M<sup>2</sup> = Rs. 8,00,000/-

## 2. Non-Residential Building (Temporary)

i) Office-cum-Store - 1x20x13 = 260 M <sup>2</sup> @ 800 Per M <sup>2</sup>	=	2,08,000.00
ii) Rest House 1 No. 25 M <sup>2</sup> = 25 M <sup>2</sup> @ per M <sup>2</sup>	=	54,000.00
iii) Dormitory 4 Units @ 25 M <sup>2</sup> = 100 M <sup>2</sup> @ Rs. 900 per M <sup>2</sup>	=	<u>90,000.00</u>

**Total Rs. 3,52,000.00**

Say Rs. 3.52 lacs

Total Rs. 11.52 lacs

Resale of Temporary building -  
 20% - Rs. 0.70 lacs.



**DETAILS OF COST UNDER THE SUB-HEAD  
O - MISCELLANEOUS**

Sl. No.	Particulars	Amount (in Rs. Lacs)
<b>1.</b>	<b>Capital Cost of -</b>	
i)	Electrification of colony	0.05
ii)	Water supply over head tank	0.50
iii)	Sewage and drains	0.15
<b>2.</b>	<b>Maintenance and services -</b>	
i)	Electrification	0.03
ii)	Water supply	0.03
iii)	Sewage	0.03
iv)	Medical Assistance	0.03
v)	Recreation	0.03
vi)	Security arrangement	0.04
vii)	Inspection vehicles	0.50
viii)	Telephone	0.20
<b>3.</b>	<b>Other Items</b>	
i)	Visit of Signatories	0.10
ii)	Technical record, photographic record	0.03
iii)	Inaugural Ceremonies	0.20
iv)	Compensation to workmen	0.05
v)	Model & Exhibits	0.05
vi)	Publicity and information centre	0.05
vii)	Running of rest shed/Inspection Bungalow	0.20
viii)	Canteen facility	0.06
ix)	Co-operative stores	Nil
x)	Time keeping cabine	0.03
xi)	Community Centre	0.04
xii)	Wireless communication	0.10
xiii)	Writing of completion report and history of project	0.10

(54)

Total Rs. 2.60 lacs

DETAILS OF COST UNDER THE SUB-HEAD

Q - SPECIAL TOOLS AND PLANTS

1. 2 Nos. Jeep (Inspection Vehicle) Rs. 1,80,000.00  
@ Rs. 90,000/- each

80% cost of vehicle - Rs. 1,44,000/-

20% cost chargeable to  
Receipt & recoveries - Rs. 36,000/-



**DETAILS OF COST UNDER THE HEAD**  
**R - COMMUNICATION**

Sl.No.	Particulars	Quantity	Rate	Amount
1.	Cost of improving the existing road upto power house site (Widening & metalling)	0.5 Km	@ Rs. 1.00 Per KM	Rs. 0.50 lacs ₹
2.	Construction of colony road	L.S.	....	Rs. 0.20 lacs
			<b>Total</b>	<b>Rs. 0.70 lacs</b>

**ABSTRACT OF COST FOR CONSTRUCTION OF POWER HOUSE OF**  
**AGNOOR FALL HYDROELECTRIC PROJECT**

Sl.No.	Item of work	Quantity	Unit	Rate	Amount
1.	Earth work in excavation of Power House structures service bags, retaining walls u/s and d/s aprons etc. in all kinds of soil wet and dry including all lifts and leads by manual labour as per drawing, specification and direction of Engineer Incharge.	5500 M <sup>3</sup>	per m <sup>3</sup>	6.85	Rs. 37,675/-
2.	Earth work excavation of foundation trenches of power house structures, service bays, retaining walls, u/s and d/s aprons etc. by Machine in all kinds of soil wet and dry including all lifts and leads by manual labour as per drawing, specification and direction of Engineer Incharge Lowering down of water table shall be a separate item.	5500 M <sup>3</sup>	per M <sup>3</sup>	21.05	Rs. 1,15,775/-
3.	Earth work in filling with selected earth on back fill of butment wing walls and foundation trenches in largers not exceeding 15 m. well watered ramed fully completed by machine at OMC to the desired percentage of maximum dry density with all lifts and leads as per drawing, specification and direction of Engineer Incharge (vide Tribeni Linc Canal Hydroelectric Project).	9900 M <sup>3</sup>	Per M <sup>3</sup>	13.95	Rs. 1,38,105.00



4.	P.C.C. M <sub>7.5</sub> (1:4:8) in foundation well below raft including cost of materials, labour, mixing conveying laying, compacting and curing alongwith the cost of shuttering and centering all complete as per drawing, specification and direction of Engineer Incharge.	24 M <sup>3</sup>	Per M <sup>3</sup>	428.71	Rs. 10,289.28
5.	Providing and laying R.C.C. M <sub>20</sub> in foundation and plinth and superstructure at all election with hard quartzite or trap stone chipos including the cost of shuttering, curing etc. all complete job excluding the cost of reinforcement and its bending, binding, cutting and placing with position (Vide Chandil Dam Hydro Electric Project)	1125.0 M <sup>3</sup>	Per M <sup>3</sup>	915.00	Rs. 10,29,375.00
6.	Supplying and laying tor steel reinforcement in concrete work including straighting, derusting, curing, bending and binding with 16/20 S.W.G. annealed wire, welding top but etc. with approved electrodes, providing cone block pins chain supports of reinforcement etc. with all materials complete as per dreading, specification and direction of Engineer Incharge.	800 MT	Per MT	8246	Rs. 6,59,680.00
7.	Providing and fixing intake gate of Power House including the cost of hoisting arrangements	20 MT	Per MT	14500	Rs. 2,90,000.00
8. (a)	Supply, fabrication, fitting and	0.5 MT	Per	9330	Rs. 4,665.00

	fixing at cutting edge in well curp of sump well including the cost of M.S. plate angle and welding etc. all complete as per drawing, specification and direction of Engineer Incharge.	MT			
(b)	Sinking R.C.c. sump well (3500 mm internal dia) in vergue soil remaining after power house excavation in completed down to specific level and alignment excluding the cost of R.C.C. well but including complete layout and machine for sinking in all kinds of soils as per drawing, specification and direction of Engineer Incharge (The diameter may vary without effecting rate)	8 M	Per M	900	Rs. 7,200.00
9.	Supply, fabrication, erection fitting, fixing, painting and hoisting of roof trunks including embedded parts as per drawing, specification and direction of E/I.	25 MT	Per MT	8000	Rs. 2,00,000.00
10.	Supply, fabrication, fitting and fixing in position pressure release pipe and M.S. grill railing, steel ladders and steel hoisting arrangements etc., wherever necessary specification and direction of Engineer Incharge.	40 MT	Per MT	6850.00	Rs. 27,400.00
11.	Providing and fixing draft tube gates including its hoisting arrangement all complete job as per specification and direction of Engineer Incharge.	15 MT	Per MT	14500.00	Rs. 2,17,500.00
12.	Supplying, erection, fitting and fixing of embedded plates 12	10 MT	per MT	7725.00	Rs. 77,250.00



mm thick to trash rack beams of the Power house as per drawing, specification and direction of Engineer Incharge.

- |     |  |                    |                    |         |               |
|-----|--|--------------------|--------------------|---------|---------------|
| 13. | Providing and fixing steel doors and windows etc. as per I.S. specification and direction of Engineer Incharge.  | 100 M <sup>2</sup> | Per M <sup>2</sup> | 450.00  | Rs. 45,000.00 |
| 14. | Supplying, fitting and fixing in position 16 gauge rolling steel shutter as per I.S. specification including all railings roller bearing, locking (double lock) arrangement as per direction of Engineer Incharge.   | 14 M <sup>2</sup>  | Per M <sup>2</sup> | 350.00  | Rs. 4,900.00  |
| 15. | Providing and fabricating steel purl in C.P.e. including the cost of its erection and one coat of protective painting as per specification and direction of Engineer Incharge.   | 8 MT               | per MT             | 7500.00 | Rs. 60,000.00 |
| 16. | Providing and fixing 100 mm H.C.I. rain water down pipe including its all fittings complete as per specification and direction of Engineer Incharge.   | 100 M              | per m              | 30.00   | Rs. 3,000.00  |
| 17. | Providing all materials and labours for expansion joints including supplying, fixing and placing of 230 mm water stops filling with asphalt in concrete of size 12 mm square and providing 1 no. 12 mm galvanised standard stream pipe, pipe clump and 12x250 mm bolts and fixing 25 mm thick bituminous board in the gap of the existing joints as per drawing, specification and | 200 Mtrs           | Per M              | 121.35  | Rs. 24,270.00 |

direction of Engineer Incharge.

18.	Supplying and laying standard jason of terphelt or equivalent water proofing material in in double layers of tarpfelt treatment in five course house treating the top with gravel at the rate of 10 ft. for 100 st. of surface (it will be the 6th and last course as per I.S.S. and manufacturers specification) including cleaning the surface with brush and cloths lighty soaked in vesine oil and cost of all materials and labour complete job as per drawing, specification specification and direction of Engineer Incharge.	300 M <sup>2</sup>	Per M <sup>2</sup>	50.00	Rs. 15,000.00
19.	Providing and laying 40 mm. thick mosaic tile flooring as per specification and direction of Engineer Incharge.	300 M <sup>2</sup>	Per M <sup>2</sup>	140.00	Rs. 42,000.00
20.	Providing & laying wall finishing work including colouring etc.	L.S.			Rs. 20,000.00
21.	Providing & painting steel structure, windows doors & etc..	L.S.			Rs. 20,000.00
22.	Providing & fixing water supply and sanitary installation work	L.S.			Rs. 20,000.00
23.	Providing & fixing electrification works	L.S.			Rs. 20,000.00
24.	Site clearance, leveling & dressing	L.S.			Rs. <u>20,000.00</u> Rs. 31,09,084.28 Rs. <u>93,272.52</u>
25.	Dewatering during construction (3% of total				Rs. 3,02,356.802



Add 3% for contingency +2%  
for work charge establishment

Rs. 1,60,117.84

Rs. 33,62,474.64

say Rs.33.625 lacs

### ABSTRACT OF COST FOR EXCAVATION OF POWER CHANNEL

Sl.No.	Item of work	Quantity	Unit	Rate	Amount
1.	Earth work in excavation in all kinds of soil within initial lead of 50 m and initial lift as per drawing, specification and direction of Engineer Incharge (Item 4.2, P-21 Patna S.R.)	4200 M <sup>3</sup>	M <sup>3</sup>	6.07	25,494.00
2.	Earth work in filling in embankment in all kinds of soil with initial lead of 40 M and initial lift of 1.5 m as per specification and direction of Engineer Incharge (Item 4.27, P-25 Patna S.R.)	32600 M <sup>3</sup>	M <sup>3</sup>	4.84	1,57,784.00
3.	Extra for each additional lead of 25 m or part thereof over initial lead of 30 m as per specification (one no. extra lead) Item 4.13, P-23 Patna S.R.)	32600 M <sup>3</sup>	M <sup>3</sup>	0.60	19,660.00
4.	Extra for additional lift of 1.0 M or part thereof over initial lift of 1.5 M as per specification (two lifts) (Item 4.12, P-23 Patna S.R.)	36800 M <sup>3</sup>	M <sup>3</sup>	1.20	44,160.00
5.	Extra for hard soil 10% of item 1 and 2 (Item 4.8, P-22 Patna S.R.)	3680 M <sup>3</sup>	M <sup>3</sup>	1.20	4,416.00
6.	Extra for wet soil 5% of item (1) (Item 4.35, P-26 Patna S.R.)	1480 M <sup>3</sup>	M <sup>3</sup>	0.42	772.80

(62)

7.	Extra for consolidation in all layers with sheep foot roller including watering as per specification (Item 4.20, P-24 Patna S.R.)	36800 M <sup>3</sup>	M <sup>3</sup>	1.98	72,864.00
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8.	Fine dressing and terling with 3" thick grass sods obtained within a lead of 150 M (Item 4.37, P-26 Patna S.R.)	13200 M <sup>2</sup>	M <sup>2</sup>	0.75	<u>9,900.00</u>
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Dewatering 5% of total cost

Add 3% for contingency and 2% for W/C establishment

= 5%

Say Rs.

3,34,950.00

1,747.54

3,51,698.34

17,584.92

3,69,283.26

3,70,000/-



# ABSTRACT OF COST OF LINING OF POWER CHANNEL OF AGNOOR CANAL HYDROELECTRIC PROJECT

S.N.	Item of work	Quantity	Unit	Rate	Amount
1	Supply and laying compacted sand filter on side slopes and in bed of canal with sand of F.M. not less than 1.25 including cost of watering, ramming, leveling and dressing etc. all complete as per specification and direction of Engineer Incharge (Item 7, P-30, Patna S.R.)	2020 M <sup>3</sup>	M <sup>3</sup>	74.87	1,51,237.40
2.	Providing 0.6x0.45x0.056 m precast P.C.C. (1:3:6) slab in the side slope and bed of the canal with groove of the slab etc. set in cement mortar (1:3) and flush pointing (1:2) including cost of all materials carriage, royalty, labours all complete job as per specification and direction of Engineer Incharge (Item 4.45, P-27, Patna S.R.)	12380 M <sup>2</sup>	M <sup>2</sup>	8.40	1,03,992.00
3.	Providing P.C.C. (1:3:6) with approved quality of graded stone chips of 20 m. and down size and coarse granular sand of approved quality in lug, slab cross and longitudinal sleepers for lining of canal including mixing cement concrete in mixer vibrating and curing including screening royalty all taxes, carriage of materials etc. with all lifts and leads, removal of shuttering etc. all complete job as per drawing, specification and direction of Engineer Incharge.	100 M <sup>3</sup>	M <sup>3</sup>	709.82	70,982.00

(Item 4.49, P-28, Patna S.R.)

- |    |  |                     |                |        |             |
|----|--|---------------------|----------------|--------|-------------|
| 4. | Supplying and placing stone metal graded filter 12.5 mm to 45 mm in slope and bed of canal below lining as per design, drawing, specification and direction of Engineer Incharge including cost of materials, royalty and other taxes and carriage with all leads and lifts. | 1771 M <sup>3</sup> | M <sup>3</sup> | 241.20 | 4,27,165.20 |
|----|--|---------------------|----------------|--------|-------------|

(Item 4.48, P-28, Patna S.R.)

- |    |  |          |          |         |          |
|----|--|----------|----------|---------|----------|
| 5. | Providing intake walls with cement concrete (1:2:4) with approved quality of stone chips 20mm down to 6mm graded and quality sand including the cost of form work, making space for under drainage pipes, fixing bolts of suitable size to fix valve on top, curing and placing in position, mixing cement concrete in mixer all complete job including royalty all taxes with cost of all layout and materials as per direction and specification of Engineer Incharge (vide Sone Western Link Canal Hydroelectric Project + 20%) | 8 Nos.   | Each     | 129.60  | 1,036.80 |
| 6. | Providing 10 mm. thick vertical joints in lining at suitable interval filled with bituminous materials of approved quality including cost of materials all complete job (vide S.W.L.C. H.E.P. + 20%)   | 760 mtrs | Mtrs     | 5.84    | 4,438.40 |
| 7. | Providing safety ladder in lined section of canal with galvanised M.S.rod embeded in cement concrete (1:3:6) in accordance with I.S.S. 3812-1366 (vide Sone Western Link Canal Hydroelectric Project +20% more)-   | 2 Nos.   | Each No. | 2851.20 | 5,702.40 |
| 8. | Supplying, fitting and fixing 150 mm. dia vertical non-return valves   | 8 Nos.   | Each     | 746.40  | 5,971.20 |



complete with bolts, nuts plates etc. all complete (vide Sone Western Link canal Hydroelectric Project + 20% more)					
9.	Supplying, fitting and fixing 50 mm. dia non-return pocket valves complete with bolts, nuts etc. all complete (vide Sone Western Link Canal Hydroelectric Project + 20%)	30 Nos.	Each	373.20	11,196.00
10.	Supplying, fitting and fixing 150 mm. dia open jointed cement pipe in longitudinal drains with collar all complete job (vide Sone Western Link Canal Hydroelectric Project + 20%) -	760 Mtrs.	per Mtrs.	70.86	53,853.60
11.	Providing 100 mm. thick P.C.C. (1:3:6) lining with well graded stone chips of approved quality 20 mm. down size as per specification and direction of Engineer Incharge (Item 4.46,p-27, Patna S.R.)	109 M <sup>3</sup>	Per M <sup>3</sup>	730.30	79,602.70
12.	Lip cutting for providing transverse filter and drain all complete job (Item 4.34, p-26, Patna S.R.)- Add 3% for contingency and 2% for w/c establishment =5% =	1756 M <sup>3</sup>	Per M <sup>3</sup>	6.85	<u>12,028.60</u> 9,27,206.30
					<u>46,360.31</u> 9,73,566.61
				Say Rs.	9,74,000.00

**ABSTRACT OF COST OF CONSTRUCTION OF D.L.R. BRIDGE-CUM- H/R AT  
300 METERS OF POWER CHANNEL OF AGNOOR FALL HYDROELECTRIC  
PROJECT.**

S.N.	Item of work	Quantity	Unit	Rate	Amount
1	Earth work in excavation of foundation truces in all kinds of soils with all leads & lifts as per drawing, specification and direction of Engineer Incharge. (Item 4.1, P-21, Patna S.R.)	405 M <sup>3</sup>	M <sup>3</sup>	6.85	2,774.25
2.	PCC (1:3:6) M-100 in foundation of piers with stone metal 1½ " and down and sone sand (washed and screened) including the cost of contring, shuttering and curing etc. complete job as per drawing, specification and direction of Engineer Incharge. (Item 6.3, P-34, Patna S.R.)	49 M3	M <sup>3</sup>	484.51	23,740.99
3.	1st class brick work in C.M. (1:4) with quality Sone sand w/s in foundation and superstructure including cost of curing, as per drawing, specification and direction of Engineer Incharge. (Item 5.2, Page-32, Patna S.R.)	343 M <sup>3</sup>	M <sup>3</sup>	406.47	1,39,419.21
4.	Earth work in filling in foundation trenches with previous soil including watering & remaining in layers as per specification and direction of Engineer I/C complete. (Item 4.16, P-23, Patna S.R.)	243 M <sup>3</sup>	M <sup>3</sup>	5.23	1,223.82
5.	R.C.C. M-150 (1:2:4) with stone chips ¾" and dosn and Sone sand (washed & screened) in bearing slab of piers including cost of shuttering, centring and curing etc. but excluding the cost of	16 M <sup>3</sup>	M <sup>3</sup>	899.11	14,385.76



(67)

reinforcement as per drawing,  
specification and direction of Engineer  
I/C (Item 6.10, Page-35, Patna S.R.)

6.	Providing roller boarding with all accessories complete set for girder of bridge including supply, fabrication and erection complete as per drawing, specification and direction of Engineer Incharge. (vide Sone Western Link Canal Hydroelectric Project, P-148, Item-7 + 20%)	8 sets	Each Set	600.00	4,800.00
7.	R.C.C. (1:2:4) M-150 with stone chips $\frac{3}{4}$ " and down and Sone sand (w/s) in deck slab, kerb and girder including the cost of sharing, shuttering, centring and curing complete but excluding the cost of reinforcement as per specification and direction of Engineer Incharge. (Item 6.10, Page-35, Patna S.R.)	25 M <sup>3</sup>	M <sup>3</sup>	899.11	22,477.75
8.	Providing expansion joint in deck slab and weasing coat with angle iron and master fillet etc including cost of supply, filling and mixing complete. (vide item 9, P-148, Sone Western Link Canal Hydroelectric Project)	14 M	Per R/M	62.20	870.80
9.	R.C.C. (1:2:4) M-150 with Stone chips $\frac{3}{4}$ " and down and Sone sand w/s in breast wall including cost of shuttering, centring and curing, etc. complete but excluding cost of reinforcement. (Item 6.13, P-35, Patna S.R.)	3.5 M <sup>3</sup>	M <sup>3</sup>	821.06	2,873.71
10.	R.C.C. (1:1½:3) M-200 with stone chips $\frac{3}{4}$ " and down and Sone sand in wearing coat as per drawing, specification and direction of Engineer Incharge. (Item 6.15, P-35, Patna S.R.)	19 M <sup>3</sup>	M <sup>3</sup>	910.05	17,290.95
11.	Providing 4" dia G.I. drain water pipe in deck slab with perforated cap	12 Nos.	Each No.	20.00	240.00

	including cost of material and labour complete as specification and direction of Engineer incharge. (Tribeni Link Canal H.E.P.)				20,000.00
12.	Supply and fabrication of H/R gates including the cost of operation equipments all complete.	L.S.	-	-	
13.	Providing R.C.C. (1:2:4) M-200 railing and railing post with stone chips $\frac{3}{4}$ " and down and Sone sand including cost of shuttering, centring and curing complete best excluding cost of reinforcement as per specification and direction of Engineer In charge. (Tribeni Link Canal Hydroelectric Project, P-170)	66 M	Per R/M	50.00	3,300.00
14	Providing deep ruled cement in C.M. (1:3) with Sone sand (w/s) as per specification and direction of Engineer Incharge on brick work exposed surface. (Item 10.7, P-44, Patna S.R.)	256 M <sup>2</sup>	M <sup>2</sup>	10.12	2,590.72
15	R.C.C. (1:2:4) M-150 with stone chips $\frac{3}{4}$ " and down and sone sand w/s in approach slab including cost of shuttering and curing etc. complete as per drawing, specification and direction of Incharge. (Item 6.7, P-35, Patna S.R.)	4.25 M <sup>3</sup>	M <sup>3</sup>	766.32	3,256.86
16.	Providing reinforcement in R.C.C. work including cost of cutting, beiding, placing in position and binding with 16 BWG wire completes per drawing, specification and direction of Engineer Incharge.	23 MT	Per MT	8246.00	1,89,658.00
17	Providing Wheel guard post of R.C.C. (1:2:4) with stone chips $\frac{3}{4}$ " and down and Sone Sand (w/s) 3'-6' long and 9" dia including cost of	60 Nos.	Each No.	62.76	<u>3,765.60</u>



(69)

shuttering, centering, curing and cost of reinforcement all complete as per drawing, specification and direction of Incharge.(vide Western Link Canal Hydroelectric Project, P-150, Item-15 + 20%)

4,52,668.42

22,633.42

- 18 Dewatering, Diversion of Road and site clearance, etc. 5% of total cost.

4,75,301.84

Add 3% for contingency and  
2% w/c establishment

=

23,765.09

₹

Total

Rs.4,99,066.93

Say

Rs. 4.99 lakhs

# ABSTRACT OF COST OF EXCAVATION OF TAILRACE CHANNEL

S.N.	Item of work	Quantity	Unit	Rate	Amount
1	Earth work in excavation in all kinds of soil, within initial lead of 50m and initial lift of 1.5M as per drawing, specification and direction of Engineer Incharge. (Item 4.2, P-21, Patna S.R.)	10700 M <sup>3</sup>	M <sup>3</sup>	6.07	64,949.00
2.	Extra for lead of 25m or part thereof over initial lead of 30m as per specification (one extra lead) (Item 4.13, P-23, Patna S.R.)	10700 M <sup>3</sup>	M <sup>3</sup>	0.60	6,420.00
3.	Extra for each lift of 1.0 M or part thereof over the initial lift of 1.5M per specification. (Item 4.12, P-23, Patna S.R.)	10700 M <sup>3</sup>	M <sup>3</sup>	0.60	6,420.00
4.	Extra for wet soil 50% of item (1) (Item 4.35, P-26, Patna S.R.)	5350 M <sup>3</sup>	M <sup>3</sup>	0.42	2,247.00
5.	Extra for consolidation of earth in 0.175m (9") layers with power roller including watering and ramming as per specification. (Item 4.20, P-24, Patna S.R.)	10700 M <sup>3</sup>	M <sup>3</sup>	1.98	21,186.00
6.	Fine dressing and turfing with 3" thick grass sods obtained within a lead of 60M. (Item 4.37, P-26, Patna S.R.)	300 M <sup>2</sup>	M <sup>2</sup>	0.75	225.00

1,01,447.00

5,072.35

Dewatering - 5% of total cost



(71)

Add 3% extra for contingency and  
2% w/c establishment

= 5%

1,06,519.35

5,325.97

Total 1,11,845.32

Say Rs. 1,12,000.00

### ABSTRACT OF COST OF LINING OF TAILRACE OF AGNOOR FALL HYDROELECTRIC PROJECT

S.N.	Item of work	Quantity	Unit	Rate	Amount
1	Supply all kinds of materials and labour for lining of tailrace channel including the cost of compacted sound filter, graded stone metal filter, P.C.C. (1:3:6) lugs, cross and longitudinal sleeper, ties including the cost of supplying and fixing safety ladder, non return valves, R.C.C., pipe, open joint drain etc. all complete as per drawing, specification and direction of Engineer Incharge all complete job.	5378 M <sup>2</sup>	M <sup>2</sup>	72.32	3,88,936.96
				Say Rs.	3.89 lacs

**ABSTRACT OF COST FOR CONSTRUCTION OF SUPER PASSAGE AT  
100 METERS OF TAILRACE CHANNEL OF AGNOOR FALL  
HYDROELECTRIC PROJECT.**

S.N.	Item of work	Quantity	Unit	Rate	Amount
				6.85	972.70
1.	Earth work in excavation of foundation trenches in all kinds of soil with all leads and lifts as per drawing, specification and direction of Engineer Incharge. (vide Item No.4.1, P-21, Patna S.R.)	142 M <sup>3</sup>	M <sup>3</sup>		
2.	P.C.C. (1:3:6) M-100 in foundation of piers, abutments, wing walls etc. with stone metal 1½" and down and some sandw/s including the cost of centering, shuttering and curing etc. all complete as per drawing, specification and direction of Engineer Incharge. (Item 6.3, P-34, Patna S.R.)	16 M <sup>3</sup>	M <sup>3</sup>	484.51	7,752.16
3.	1 <sup>st</sup> class brick work in C.M. (1:4) with quality some sand w/s in foundation and superstructure including cost of carriage of bricks upto 5 kms. etc. all complete as per drawing specification and direction of Engineer Incharge. (Item 5.2, Page-32)	120 M <sup>3</sup>	M <sup>3</sup>	406.47	48,776.40
4.	Earth work in filling of foundation trenches with excavated soil including watering and ramming in layers not exceeding 6" as per specification and direction of Engineer Incharge. (Item 4.16, P-23, Patna S.R.)	76 M <sup>3</sup>	M <sup>3</sup>	5.23	397.48



5.	R.C.C. (1:2:4) M-150 with stone chips $\frac{3}{4}$ " and down and quality sone sand in through slab including cost of centring, shuttering, curing etc all complete but excluding the cost of reinforcement as per drawing, specification and direction of Engineer Incharge. (Item 6.10, P-35, Patna S.R.)	30 M <sup>3</sup>	M <sup>3</sup>	899.11	26,873.30
6.	P.C.C. (1:2:4) with stone chips $\frac{3}{4}$ " and down and quality sone sand in coping of pier caps including the cost of shuttering, centring, curing etc. all complete as per drawing, specification and direction of Engineer Incharge. (Item 6.2, P-34, Patna S.R.)	2 M <sup>3</sup>	M <sup>3</sup>	698.17	1,396.34
7.	Providing C.C. block (1:4:8) 1.2 m x 0.6 m pitching with stone metal $1\frac{1}{2}$ " and down in bed and slope as u/s and d/s side of trough slob as per drawing, specification and direction of Engineer Incharge including cost of shuttering, centering etc. all complete. (Item 6.21, P-36, Patna S.R.)	50 M <sup>3</sup>	M <sup>3</sup>	709.82	35,491.00
8.	Providing reinforcement (tor) including cutting, bending, binding and placing of rods including the cost of 16 BWH wire.	4.72 MT	MT	8246.00	38,921.12
9.	Filling harries with stone pebbles in the open joints of C.C. Blocks with all materials and labour complete job. (vide Tribeni Link Canal Hydroelectric Project, P-171, Item 9)	10 M <sup>3</sup>	M <sup>3</sup>	62.40	624.00
10.	Providing 0.15 M thick graded invested filter below C.c. blocks. (Item 7, P-30, Patna S.R.)	10 M <sup>3</sup>	M <sup>3</sup>	74.87	748.70

11. Providing cement ruled pointing (1:3) in exposed surfaces of wing walls, abutment and piers etc. (Item 10.7, P-44, Patna S.R.)	300 M <sup>2</sup>	M <sup>2</sup>	10.12	<u>3,036.00</u>
				1,65,089.20
				<u>8,252.40</u>
Dewatering, Diversion and clearance of site 5% of total				1,72,343.66
Add 3% for contingency and 2% for w/c	=	5%		<u>8,667.18</u>
			Total Rs. ₹	1,82,010.64
			Say Rs.	1.82 lacs

**ESTIMATE FOR ELECTRICAL/MECHANICAL EQUIPMENT AGNOOR  
HYDROELECTRIC PROJECT (2 x 500 KW)**

Sl.No.	Items	Quantity	Rs. in lacs
1.0	A. Preliminary		
	Preliminary expenses including design and consultancy charges completion of Project Report etc.		1.00
2.0	Provision of telephones and arrangement of construction power colony lights by extending L.T. Line and 11 KV H.T. Lines		2.50
3.0	Generating Plant and Equipment		
a.	Generating unit of 500 KW, 0.9 Pf. V, 3 phase, 50 Hz. with S-type tubular turbine complete with allied equipments, e.g. governing and Lubricating oil system, Drainage and Dewatering system, compressed Air system, Unit control panels, desk, line terminals and N.G. cubicles and cts, surge protection equipment, synchronising equipment, other accessories including Inlet valve		



and special tools and tackles, spares etc.  
FOR site @ Rs. 8,500 per KW inclusive  
of excise duty and sales tax.

2 Nos. 85.00

b. Auxiliary electrical equipment and services for Power Station (Annexure-A)	7.1
c. Auxiliary electrical equipment and services for power station (Annexure-B)	12.4
d. Spares for above items 3 (b and c) @ 5% (i.e. of 19.5) lacs.	0.975
e. Erection and commissioning charges @ 10% of the above items 3 (a, b and c) i.e. of (Rs. 104.5 lacs)	10.45
f. (i) Excise duty @ 10%	
(ii) Sales Tax @ 4% of (ex-work price + excise duty)	
(iii) Insurance and Transportation @ 5% total at @ 19.4% on the above item 3 (b, c and d) i.e. of (Rs. 20.475)	3.372
Total Sl. No. 3	119.897

#### 4. Sub-Station Equipments

Main equipments like Transformers, Circuit breakers, Isolators etc. (Annexure-C)

6.6

b. Auxiliary equipment and services for switchyard (Annexure-D)	2.10
c. Spares for above items 4 a @ 5% (i.e. of Rs. 6.6 lacs)	0.33
d. Erection and commissioning charges @ 10% for the above items 4 (a and b) (i.e. of Rs. 8.70 lacs)	0.87
e. (i) Excise duty @ 10%	
(ii) Sales Tax @ 4% of (ex-work price + excise duty)	

(iii) Insurance and Transportation @ 5% total at @ 19.4% on the above item 4 (a,b,c ) i.e. of (Rs. 9.03 lacs)		1.751
Total Sl.No.4		11.651
5.	Transmission line cost (Annexure-E)	2.50
6.	Procurement and inspection charges @ 2% of the above item 2, 3 (a,b,c,d) (i.e. of Rs. 107.975 lacs)	2.159
7.	Contingencies @ 3% of the above items at serial 3 to 3 (i.e. of Rs. 136.207 lacs)	4.086
8.	Power Plant and Electrical System (Sl. No. 3 to 7)	140.203
I.	<b>Direct charges</b> <b>Works</b>	
A -	Preliminary	1.00
O -	Miscellaneous	2.50
P -	Maintenance @ 1% of ( I-work - A-Preliminary)	1.446
S -	Power Plant and Electrical system	140.293
Y -	Losses on stock @ 0.25% of I-work	0.36
	I-work	145,599
II.	Establishment @ 8% of I-works (i.e. of 145.399)	11.648
III.	Tools and Plants @ 1% I - works	1.456
IV.	Receipt and Recoveries (-)	2.00
<b>Total Direct charges -</b>		<b>156.703</b>
<b>Indirect charges.</b>		
Audit and Accounts charges		



(77)

@ 1% of I-works

1.456

Grand Total

158.159

Say Rs.

158.16 lacs

ANNEXURE - A

AUXILIARY EQUIPMENT FOR POWER STATION

		Rs. in lacs
1.	3 nos. 0.4 KV auxiliary Board comprising of CTs, PTs backers and metering, instrument etc. @ Rs. 0.30 lacs.	0.90
2.	1 no. 0.4 KV station service Board comprising of breakers, fuse units etc. @ Rs. 0.50 lacs.	0.50
3.	2 sets control and protection equipments for the generator @ Rs. 1.5 lacs.	3.00
4.	D.C. equipment (Batteries, Battery charging units, distribution board etc.)	2.00
5.	Synchronising Pannel - 2 sets @ Rs. 0.1 lacs	0.2
6.	Miscellaneous equipment and devices required for completion	0.5
	<b>Total</b>	<b>7.1 lacs</b>

## ANNEXURE - B

## AUXILIARY EQUIPMENTS AND SERVICES FOR POWER STATION

	Rs. in lacs
1. Power House E.O.T. Crane - 10 T. capacity	4.00
2. Cable racks supports and accessories	0.5
3. Power and Control cables	1.5
4. Station Grounding	0.50
5. Testing equipment	0.5
6. Workshop equipment	0.5
7. Fire protection and CO <sub>2</sub> equipment	0.4
8. Power House illumination	0.75
9. Unit Air conditioner	0.5
10. Oil handling system, comprising oil centrifuge pump, transfer pump, tank pipes and fittings.	1.50
11. Diesel Generating set of 50 KW capacity alongwith 0.4 KV electrical panel @ Rs. 3500/- Per KW	1.75
<b>Total</b>	<b>Rs. 12.4 lacs</b>



## ANNEXURE-C

## MAIN EQUIPMENTS FOR SWITCHYARD

Sl.No.		Quantity	Rs. in lacs
1.	1250 KVA 415 V/1100 V, 3 phase 50 Hz, step-up Power transformers with off load top charger including oil for first filling, accessories etc. with spares @ 200/- per KVA	1 No.	2.5.
2	11 K.V. circuit breakers @1.50 lac	1 No.	1.5
3	11 KV. Isolators @ 0.1	2 sets	0.2
4	Three phase 11 K.V. PTS @ 0.3	1 set	0.3
5	Three phase 11 K.V. CTS @ 0.1	3 sets	0.3
6	11 KV LAS @ 0.1	1 No.	0.1
7	Steel structures, bus bars, hand wares, insulators etc.	L.S.	0.5
8	Miscellaneous equipment & devices required for completion	L.S.	0.2
9	Control and really panel for 415 V/1100 V Transformer @ 50,000	1 No	0.5
10	11 K.V. feeder Control and relay panel @ 50,000	1 No.	0.5
Total			Rs. 6.6. lacs

## ANNEXURE-D

## AUXILIARY EQUIPMENT AND SERVICE FOR SWITCHYARD

	Rs. in lacs
1. Fencing and Security	0.10
2. Drainage system	0.20
3. Grounding and Shielding	0.30
4. Cable ducts and accessories	0.50
5. Illumination	0.35
6. Foundation for structure and equipment	0.40
7. Miscellaneous equipment and devices required for completion.	0.25
<b>Total</b>	<b>Rs. 2.1 lacs</b>



## ANNEXURE - E

## TRANSMISSION LINE SYSTEM

	Rs. in lacs
1. 11 KV Transmission as single circuit line with A.C.S.R. Rabbit conductor on towers from Power Station to Daud Nagar sub-station (which is the nearest 33/11 KV sub-station of Bihar State Electricity Board) at a distance of about 10 Kms. (approx.) @ Rs. 25,000/- per KM.	Rs. 2.50 lacs
<b>Total</b>	<b>Rs. 2.50 lacs</b>

## CHAPTER - XI

### ECONOMIC EVALUATION

#### 11.01 Cost :

The cost of the project has been estimated on the basis of current rates of materials and labour as approved by the State Government for the project area. The rates of items, which are not available in the schedule of rates have been taken as per Chandil Hydroelectric Project. The detailed cost of civil and electrical works are enclosed under Chapter-10

#### 11.02 Abstract of Cost :

The general abstract of cost is as follows :-

i)	Cost of civil works	Rs. 89.33 lacs
ii)	Cost of electrical systems (including Transmission System)	<u>Rs.158.16 lacs</u>
	Total	Rs.247.49 lacs
		Say Rs. 247.4 lacs
iii)	Cost of Transmission system	Rs. 2.5 lacs
iv)	Total cost of project excluding transmission system	Rs. 245 lacs

#### 11.03 Phasing of Expenditure :

The yearwise phasing of expenditure as per construction programme, has been worked out, which is as follows :-



(83)

Ist year	Rs. 57.0 lacs
2nd year	Rs. 112.0 lacs
3rd year	<u>Rs. 76.0 lacs</u>
Total	Rs. 245.00 lacs

11.04 **Benefits :**

11.04.1 **Direct Benefits :**

In addition to already accruing irrigation benefits this scheme will generate 4.4856 Gwh. i.e.  $4.4856 \times 10^6$  Kwh. (units) of electrical energy out of which  $4.4632 \times 10^6$  Kwh (Units) will be available on bus for distribution. After modernisation, the expected generation is of the order of  $5.3105 \times 10^6$  Kwh (Units)

11.04.2 **Indirect Benefits :**

The scheme will facilitate setting up of small industrial units, thus improving the employment opportunity of the people of the area.

11.05 **Financial Aspects :**

11.05.1 **Unit rate of generation :**

The total estimated cost of the project is Rs. 247.5 lacs. The yearwise phasing of the expenditure is given above. The rate of depreciation has been calculated which comes as 2%. Considering the interest rate of 8% operation and maintenance @ 1% and general reserve @  $\frac{1}{2}\%$  of the capital cost, the unit rate of generation at bus bar will be 63.13 paise.

11.05.2 **Installation Cost :**

The installation cost per KW comes to Rs. 24,500/-

11.05.3 **Financial Fore case :**

The financial fore case has been prepared which is available at page 122. It indicates that during the 5th (fin.) year the return from the project is 11.98%.

- 11.05.4 The above parameters of financial aspects suggests that the scheme is economically viable and financially sound.

TABLE - X - I

## AGNOOR FALL HYDROELECTRIC PROJECT

## General Abstract of Cost

Cost of Civil Works	Rs. 89.33 lacs
Cost of electrical and mechanical system (including Transmission cost of 2.5 lakhs)	<u>Rs.158.16 lacs</u>
<b>Total</b>	<b>Rs.247.49 lacs</b>
<b>Say</b>	<b>Rs.247.5 lacs</b>



## CHAPTER - 5 ESTIMATES OF COST

### 5.1 COST OF CIVIL WORKS

The detailed estimates of civil works have been framed for the selected alternative viz. installation of 2 x 1.5 MW. The cost at March 1992 price level comes to Rs. 360 lakhs. The abstract of cost given at Annex 5.1 to 5.2 is in the form as prescribed in Broad guidelines for preparation of project estimates published by CWC in July, 1983.

Rates for major items of work for power channel and C.D. works are based on Tirhut Division Schedule of Rates on which 40% extra has been considered to account for tender appreciation so as to bring the rates in line with the actual rates being obtained on similar works in the area. For items of work in power house estimate, analyses of rates based on current rates of labour and material has been prepared. The quantities of materials have been worked out from preliminary drawings.

Detailed estimates of civil work are enclosed in Annexure 5.4

### 5.2 ESTIMATED COST OF ELECTRICAL WORK

Detailed estimates of cost of electrical works for Tribeni Link Canal H.E. Project (2x1.5 MW) have been prepared in the standard format. The provision for main generating equipment has been made based on budgetary enquiries made with the manufacturers. A copy of the budgetary offer from indigenous manufacturer is also enclosed (Annex. 5.3a). The cost of other electrical equipments have been estimated based on the prevalent (March, 92) prices.

The duties as applicable for generators, transformers and other electrical equipments has been provided wherever required. The detailed estimates of cost of electrical works is given at Annex- 5.3.

The detailed cost estimate of the civil works as well as electrical works has been framed for the selected scheme i.e. installation of 2 x 1.5 MW capacity. The civil works estimate for the selected

alternatives has been updated with revised quantities based on layout as now reviewed, and more detailed estimate with additional sectional details of structures, as also reviewed rates inclusive of escalation. In the electrical estimate for the purpose of comparison of estimates of cost, 1% contingency was taken but in the final estimate the contingency has been taken as 3% as per norms. The abstract of the cost is given below :-

(i)	Cost of civil works	Rs. 360.00 lakhs
(ii)	Cost of electrical works	<u>Rs. 555.00 lakhs</u>
	Total	Rs. 915.00 lakhs

The detailed estimate is enclosed as Annexure.

5.4

#### YEARWISE PHASING OF THE EXPENDITURE

The year wise phasing of expenditure has been worked out on the basis of construction programme of 4 years and the details with respect to the selected installation of 2 x 1.5 MW are given below :-

1st year	-	91.00 lakhs
2nd year	-	273.00 lakhs
3rd year	-	366.00 lakhs
4th year	-	185.00 lakhs

#### ANNEXURE-5.1

### TRIVENI LINK CANAL HYDRO ELECTRICAL PROJECT

#### GENERAL ABSTRACT OF COST

	<u>Rs. in Lakhs</u>
Cost of Civil works	- 360.00
Cost of Electrical works	- <u>555.00</u>

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Total

915.00

**ANNEXURE-5.2**  
**GENERAL ABSTRACT OF COST**  
**(CIVIL WORKS)**

Sub Head		Amount (Rs. lakhs)
A - Preliminary		3.751
B - Land		8.317
J - Power Plant -Civil works		
i. Power Channel	16.14	
ii. S.L.R. Bridge	4.91	
iii. Hd. regulator-cum-bridge of Don Canal	47.43	
iv. C.D. work	12.01	
v. Don Bye-pass channel	13.95	
vi. Power house	163.54	
vii. Tailrace	19.73	283.24
K - Buildings		11.22
M - Plantation		1.33
O - Miscellaneous		11.22
P - Maintenance 1% of I works less A, B & Q		3.17
Q - Spl. T&P		4.59
R - Communications		1.77
S - Losses on stock @ 0.25% of I Works		0.78
Total I Works		329.39
II - Establishment 8% of I Works less B - Land		25.68
III - T & P 1% of I works		3.30
IV - Suspense		--
V - Receipts & Recoveries		
i. Resale of spl. T & P	(-)	1.01
ii. Resale of temporary buildings 15% of 50% of K-Buildings (-)	(-)	1.01
Direct Charges		356.34
Indirect Charges		
i. Capitalised value of		0.42

abatement of land revenue		
5% of cost of land		3.30
ii. Audit & Accounts charges		
1% of 1. A/c		360.00
Total		360.00
Net		360.00



ANNEXURE-5.3

## TRIVENI LINK CANAL HYDRO ELECTRIC PROJECT (2x1.5 MW)

## VALMIKINAGAR

## COST ESTIMATES OF ELECTRICAL WORKS

Sl. No.	Item	Qty.	Amount (Rs. lakhs)
1.0	<b>PRELIMINARY</b> Preliminary expences including design and consultancy charges, completion of project report including inspection charges.	L.S.	8.00
2.0	<b>MISCELLANEOUS</b> Provision of telephones and arrangement of construction power colony lights by extending LT lines and 11 KV HT lines.	L.S.	5.00
3.0	<b>GENERATING PLAT &amp; EQUIPMENT</b> (a) 'S'- type kaplan turbine rated head 4.94 m. gear box, complete with accessories, electro hydraulic governor, syn. generator having 1500 KW rating at 3.3 KV, 0.9 pt, AVR, excitation system, NG cubicles, including spares @ Rs. 10,066/- per KW	2 Set.	301.98
	(b) Aux. Electrical Equipment for the Power Station.		
	(i) Unit control board	2 Nos.	2.40
	(ii) Metering relay, and control panel	2 Nos.	18.00
	(iii) 3.3 KV switchgear complete with CB's isolators, LA's, CT's, PT's etc.	4 Nos.	5.72
	(iv) LT (0.4KV) distribution panel		
	(v) Generator line cubicle	2 Nos.	2.60
	(vi) Battery & charger complete with DC distribution panel	2 Nos.	8.00
		L.S.	2.00
	(vii) 250 KVE, 3.3/0.4 KV station Aux. transformer @ Rs. 640/ KVA.	1 No.	1.60
	<b>(C) Aux. Equipment &amp; Services for the Power Stn.</b>		
	(i) Semi-EOT crane 15 T capacity		
	(ii) Illumination, Ventilation & Air	1 No.	12.00

	conditioning	L.S.	1.50
	(iii) Station fire fighting equipment	1 set	0.60
	(iv) Drainage and Dewatering system	1 set	1.00
	(v) Earthing equipment & Network	1 set	1.50
	(vi) Power and Control cables	LOT	4.50
	(vii) Oil Purification system for the turbine and Lub. system	1 set	2.00
	(viii) 62.5 KVA diesel generating set	1 No.	3.25
	<b>Total 3 (c)</b>		<b>26.35</b>
	(d) Erection and commissioning charges of all the above equipment 3 (a,b,c) @ 10%.		<b>36.86</b>
	(e) Excise duty (15%) transportation & insurance @ 5% and sales tax (4%) i.e. 24% on item (3a)		<b>74.28</b>
	<b>Total item 3</b>		<b>479.79</b>
4.	Switchyard Equipment		
	i. 4.0 MVA 3.3/33 KV step up trans- former @ Rs. 200/- per KVA	1 No.	8.00
	ii. 33 KV circuit breaker (MOCB)	1 No.	1.41
	iii. 33 KV isolators	2 Nos.	0.20
	iv. Lightning arrestors	3 Nos.	0.20
	v. Current transformers	3 Nos.	0.7
	vi. Potential transformers	3 Nos.	0.60
	vii. Main structures, hardware & fittings post insulators, conductors, painting earthing etc.	L.S.	0.50
	viii. Erection, testing & Commissioning of the above	L.S.	0.50
	<b>Total item 4.</b>		<b>12.16</b>
5.	33 KV single circuit transmission line with ACSR 'Dog' conductor on PSC poles @ 1.12 lakhs per km.	2 km	2.24
6.	Contingencies @ 3% on the above items at Sl. 3 & 4		14.82
	Power Plant and Electrical System (Sl. 3 to 6)		509.01
	<u>Direct Charges:</u>		
	<u>I - Works</u>		8.00
	<u>A - Preliminary</u>		



O - Miscellaneous	5.00
P - Maintenance @ 1%	5.01
(I-works - A Preliminary)	509.01
S - Power Plant & Electrical System	
Y - Losses on stock @ 0.25% on	1.27
I - Works	528.29
I - Works	
II - Establishment @ 4% of I works	21.13
III - Tools & Plants 1/2%	2.64
IV - Receipt & Recovery (-)	2.50
Total direct Charges	549.56
Indirect Charges	
Audit & Accounts Charges @ 1% of	5.28
I-Works	
GRAND TOTAL	554.84
SAY	555.00

**ESTIMATION**  
**BUDGETARY PROPOSAL - TRIVENI LINK CANAL**

Date

	1 x 3000 KW		2 x 1500 KW		3 x 1000 KW	
	Pit Type	S - Type	Pit Type	S - Type	Pit Type	S - Type
A. <i>Discharge rate</i>						
H Max			~ 94.0 M			
H Min			4 0.20 M			
Head			77.825			
Q - Max - M <sup>3</sup> /S			10.188			
Q - Min - M <sup>3</sup> /S			L & T VOITH			
Turbine Make			TRILAPLAN			
Proposed Type	1060	3800	2190	2510	1900	2190
Runner O Min.	3	4		4	3	4
No. of blades	142/750	90/600	185/700	138/750	222/750	164/750
Normal speed rpm	3180	Not feasible	1590	1590	1074	1070
Turbine - P at rated h KW				568	581	581
Turbine P at max h	Min. Q	--	568	568	581	581
& Min. Q = 10.188	= 18.00	--	568	568	-2.0M	+ve
Setting app	-2.0 M	--	-2.0 M	+ve		
Voltage	750	600	750	750	750	750
RPM						

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	Pit Type	S - Type	Pit Type	S - Type	Pit Type	S - Type
Neutral Earthing			Through	Resistor		
Maximum Wt.	14 T	16 T	12 T	12 T	11 T	11 T
Crane Capacity	15 T	20 T	15T	15T	15T	15T
Power House Size LXBXH	10x10x6	-	14x12x6	16x12x6	16x12x6	16x12x6
Budgetory Cost in Rs. Lakhs	For 1 Unit		For 2 Units		For 3 Units	
i. Turbine + Gear + Accessories	95	--	156	180	170	190
ii. Electro Hydro Governor	13	--	26	26	39	39
iii. Generator + NG Cubicles	85	--	96	96	90	90
iv. Unit Control Board	1.20	--	2.40	2.40	3.60	3.60
LT Distribution Panel	1.50	--	2.60	2.60	3.00	3.00
MRC Panel	12.00	--	18.00	18.00	24.00	24.00
v. Generator Line Cubicles	4.00	--	8.00	8.00	10.00	10.00
vi. 3.3 KV Cables				Rs. 500/M		

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**ANNEXURE-5.4**  
**ABSTRACT OF COST POWER CHANNEL**

S.No.	Item	Unit	Qty.	Rate	Amount
1.	Preparation of scale of embankment by removing grass and roots by ploughing 75mm deep.	59 m.	12000	0.35	4,200
2.	(a) Earthwork in excavation in all kinds of soil and making banks with earth obtained from excavation or borrow areas with initial lead of 30 m and initial life of 1.5 m.	Cum	21000	8.65	1,81,650
	(b) Extra for one additional lead of 25 m beyond the initial lead of 30 m.	Cum	21000	0.80	16,800
	(c) Extra for two additional lifts of 1 m each beyond the initial life of 1.5 m.	Cum	21000	1.60	33,600
	(d) Extra for hard soil				
	(e) Extra for wet soil	Cum	5225	2.40	12,540
3.	Watering & consolidation with sheep foot roller or any power roller to required profile & shape.	Cum	21000	0.82	17,220
4.	(a) Fine dressing & turtling with 75mm thick gross sods with initial lead of 150 m.	59 m	3500	1.00	3,500
	(b) Extra for one additional lead of 150 m beyond the initial lead of 150 m.	59 m	1800	0.37	666



5.	Earth work in lip cutting in bed and slope of canal in all kinds of soil with all leads and lifts.	Cum	2000	15.53	31,060
6.	Supplying & laying compacted sand filter on side slopes & curve below lining.	Cum	1000	102.60	1,02,600
7.	Supplying & laying filter of gravel or stone shingle in pressure release valve.	Cum	1.10	178.65	197
8.	R.C.C. M-150 (1:2:4) with single 20 mm & down & selected sand washed & screened in lining in curved portion.	Cum	60	821	49,260
9.	Supplying & laying LDPE film of approved quality below lining	59 m	8000	10	80,000
10.	Laying precast C.C. files of mix 1:2:4 with stone single 20 mm & down and selected sand W/S of size 500 x 250 x 50 mm in CM 1:3 & flush pointed with CM 1:2	59 m	6+00	68.25	4,36,800
11.	Providing 15 mm thick cement mortar 1:5 below lining.	59	<del>6+00</del>	18.07	1,15,648
12.	Supplying & laying pressure release valve.	Nos.	6	616	3696
13.	Providing safety ladder	Nos.	2	3950	7900
					10,97,337
	Add 40% escalation				4,38,935
					15,36,272
	Add 5% for contingencies & W.C. est.				76,814
					16,13,086
	Say Rs.				16,14,100



ANNEXURE-5.5ABSTRACT OF COST FOR S.L.R. CHANNEL

S.No.	Item	Unit	Qty.	Rate	Amount
1.	Earth work in excavation in foundation trenches in all kinds of soil with all leads & lifts as per specifications.	M <sup>3</sup>	579.70	8.35	4,840.49
2.	E/W in filling in foundation including watering & ramming with all leads & 1 lifts.	M <sup>3</sup>	2000	8.60	17,200.00
3.	P.C.C. (1:1:6) with stone single (40mm & down) & selected sand W/S in foundation.	M <sup>3</sup>	66.41	603.55	40,081.75
4.	1st Class brick works in C.M. (1:4) in foundation & Plinth as per specification.	M <sup>3</sup>	71.02	525.15	37,296.15
5.	-Do- -Do- in super structure.	M <sup>3</sup>	149.10	525.15	78,347.12
6.	R.C.C. (1:1:6) with stone shingle (20mm & down) including shuttering & lining in deck slab, approach, T, beam, pier cap slab etc.	M <sup>3</sup>	60.66	948.64	57,544.50
7.	Providing pipe railing.	M <sup>3</sup>	51.10	50.00	2,555.00
8.	Providing water drain pipe.	Each	12.00	30.00	360.00
9.	Supplying, fitting and fixing slide bearing.	Each set	6	2500.00	15,000.00



10.	-do- -do- fixed bearing	-	6	250.00	1,500.00
11.	R.C. (1:1-1/2:3) with stone shingle (20mm & down) in wearing cost.	M <sup>3</sup>	6.35	972.90	6,177.91
12.	Providing reinforcement in R.C.C. work including, cutting, Rs. bending & binding.	per MT	5.30	6537.50	34,648.75
13.	5" brick on edge spling in approach as per specification.	M <sup>3</sup>	216.00	34.75	7,506.00
14.	Providing wheel guard of R.C.C. (1:2:4)	Each	100	150.00	15,000.00
					3,18,057.67
					15,902.88
	Dewatering 5%				3,33,960.02
					16,698.02
	5% Contingency & WC Staff				3,50,658.57
					1,40,263.20
	Add 40% extra for tender - (+)				4,90,921.77
	Appreciation				4,91,000.00
	Say Rs.				



**ANNEXURE-5.6**  
**ABSTRACT OF COST OF CONSTRUCTION OF HEAD REGULATOR -**  
**CUM- BRIDGE**

S.No.	Item	Unit	Qty.	Rate	Amount
1.	Earth work in all kinds of soil in foundation trenches with all leads & lifts as per drawing and specifications & direction of E/I.	M <sup>3</sup>	1725	8.35	14,403.75
2.	E/W in filling foundation trenches with previous soil including watering and remming in layers as per specification and direction of E/I.	M <sup>3</sup>	2500	8.60	21,500.00
3.	P.C.C. (1:3:6) in foundation of abutments, piers wing walls & floors etc. with stone shingles 1-1/2" & down and quality sand including the cost of centering, shuttering & curing all complete as per drawing, specification and direction of E/I.	M <sup>3</sup>	690	603.55	4,16,449.50
4.	R.C.C. in deck slab M-15 and stone shingle 3/4" & down and quality sand W & S in deck slab karb etc. including cost of centering shuttering, curing etc. all complete but excluding the cost of reinforcement.	M <sup>3</sup>	36	976.05	35,137.80



5.	1st class B/W in C.M (1:4) in foundation and super structure including the cost of curing as per drawing, specification and direction of E/L.	M <sup>3</sup>	1030	525.15	5,40,904.50
6.	Providing R.C.C. (1:2:4) in railing and post painting etc. all complete.	M <sup>3</sup>	50	50.00	2,500.00
7.	Boulder pitching 0.61 M thick in canal bed & slope with boulder weighing 90 lb to 120 lbs.	M <sup>3</sup>	110	84.40	9,284.00
8.	Inverted filter below C.C. block pitching.	M <sup>3</sup>	360	62.40	22,464.00
9.	Filling the open joints of C.C. block with Jharles.	M	4	62.40	249.60
10.	Providing C.C. blocks (1:4:8) with stone shingles 1-1/4" & down as per drawing & specification Including the cost of shuttering, curing etc. all complete.	M <sup>2</sup>	4300x.6 = 2623	541.05	14,19,174.15
11.	P.C.C. (1:3:6) with stone shingles 3/4" & down and selected sand in coping including the cost of shuttering centering all complete.	M <sup>3</sup>	5.88	603.55	3,548.87
12.	Providing reinforcement including cuttings, bending, binding & placing of M.S.	MT	6	6537.50	39,225.00



	roads including the cost of 16 BWG wire.				
13.	Supply & fabrication of H/R gates including the cost of operational equipment and all complete &	L.S.	-	-	1,62,500.00
14.	Deep ruled pointing in C.M. (1:3) as per specification and direction of E/I.	M <sup>2</sup>	156	12.45	1,942.20
15.	Providing rubber seal in floor as per drawing and specification.	Mn.	100	58.30	5,830.00
16.	R.C.C. (1:2:4) in floor with stone shingles 3/4" & down and selected sand as per drawing and specification and direction of E/I.	M <sup>3</sup>	182	976.05	1,77,641.10
17.	Truss Rack	Each	One		2,00,000.00
					30,72,754.47
	Dewatering 5%				1,53,637.70
					32,26,392.17
	Contingencies & WC staff 5%				1,61,319.60
					33,87,711.70
	Add 40% extra for tender appreciation				13,55,084.60
	<b>Total</b>				<b>47,42,796.30</b>
	<b>Say Rs.</b>				<b>47,42,797.00</b>



ANNEXURE-5.7ABSTRACT OF COST OF C.D. WORK

S.No.	Item	Unit	Qty.	Rate	Amount
1.	Earth work in excavation in foundation trenches in all kinds of soil with all leads & lifts	M <sup>3</sup>	2028	8.35	16,933.80
2.	E/W in filling in foundation & back fill etc. with all leads & lifts including watering and ramming	M <sup>3</sup>	700	8.60	6,020.00
3.	P.C.C. (1:3:6) with stone shingle 40mm & down & selected sand W/S in foundation including shuttering etc. complete	M <sup>3</sup>	251	603.55	1,51,491.05
4.	Ist Class brick works in C.M. (1:4) in foundation & Plinth as per specification.	M <sup>3</sup>	269.40	525.15	1,41,475.41
5.	-Do- -Do- in super structure.	M <sup>3</sup>	207.80	525.15	1,09,226.17
6.	R.C.C. (1:2:4) with stone shingle (20mm & down) & selected sand W/S in deck slab, through wall, pier cap slab approved slab etc. including cost of shuttering & centering complete.	M <sup>3</sup>	158.90	976.05	1,55,094.34
7.	P.C.C. (1:3:6) with stone shingle (40mm & down) &	M <sup>3</sup>	2.506	603.55	1,512.49



	selected sand W/S in coping.				
8.	R.C.C. (1:1-1/2:3) with stone shingle (20 mm & down) & selected sand W/S in watering coat.	M <sup>3</sup>	2.293	972.90	2,230.85
9.	Providing railing of pipe	Per M	11.90	50.00	595.00
10.	Providing Water drain pipe.	Nos.	6	30.00	240.00
11.	Supplying, fitting & fixing copper seal strip as per specification.	Per M	58.426	400.00	23,370.40
12.	R.C.C. (1:2:4) with stone shingle (20mm & down) in floor as per specification.	M <sup>3</sup>	14.993	976.05	14,526.55
13.	Providing C.C. Block (1:4:8) in protection of floor of drainage as per specification.	M <sup>3</sup>	14.75	541.05	7,980.48
14.	Providing graded filter below block pitching as per specification.	M <sup>3</sup>	14.75	62.40	920.40
15.	Providing weep holes as per specification.	Each No.	98	5.00	490.00
16.	Providing 0.30 x 30 x 0.20 mm brick block pitching (1:4)	M <sup>3</sup>	44.50	369.15	16,427.17
17.	Deep ruled cement pointing (1:3) with selected sand W/S	M <sup>2</sup>	201.60	12.45	2,509.92
18.	Providing reinforcement in R.C.C. work including cutting, bending, binding etc. complete.	Per MT	13.50	6537.50	88,256.25



19.	Providing 5" brick on edge pitching on approach ramp.	M <sup>2</sup>	648	34.75	22,518.00
20.	Providing wheel guard of R.C.C. (1:2:4)	Nos.	100	150.00	15,000.00
21.	Earth work in bank connection.	M <sup>3</sup>	140	8.35	12,107.50
22.	Dewatering 5%				38,896.28
					8,16,822.06
	Contingency 5%				40,841.10
					8,57,663.16
	Add 40% for tender appreciation (+)				3,43,065.26
	<b>Total</b>				12,00,728.40
	<b>Say Rs.</b>				12,00,728.40



**ANNEXURE-5.8****ABSTRACT OF COST OF DON BYE-PASS CHANNEL**

S.No.	Item	Unit	Qty.	Rate	Amount
1.	Preparation of scat of embankment by removing grass and roots by ploughing 75mm deep.	59 M	30000	0.35	10,500
2.	(a) Earthwork in excavation in all kinds of soil and making banks with earth obtained from excavation or borrow areas with initial lead of 30m and initial lift of 1.5 m.	Cum	62000	8.65	5,36,300
	(b) Extra for one additional lead of 25m beyond the initial lead of 30m.	Cum	62000	0.80	49,600
	(c) Extra for two additional lifts of 1M each beyond the initial lift of 1.5 M	Cum	62000	1.60	99,200
	(d) Extra for hard soil	Cum	15500	2.40	37,200
	(e) Extra for wet soil	Cum	15500	0.82	12,710
3.	Watering & consolidation with sheep foot roller or any power roller to required profile & shape	Cum	62000	2.75	1,70,500
4.	Providing safety ladder	Nos.	6	3950	23,700
					9,49,190
	Add 40% escalation				3,79,676
					13,28,866
	Add 15% (3% contingencies + 2% W.C. Staff)				66,443
	<b>Total</b>				<b>13,95,309</b>



	Say Rs.			13,95,400
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**ANNEXURE-5.9****ABSTRACT OF COST POWER HOUSE**

S.No.	Item	Unit	Qty.	Rate	Amount
1.	Earth work in excavation of foundation trenches and power house structures in all kinds of soil, dry or wet, including boulders with all lifts and disposal of excavated earth upto a distance of 500 M.	Cum	8,000	38.20	3,05,600
2.	Back filling with selected earth in layers not exceeding 15 m including watering and ramming as per specifications and direction of engineer.	Cum	5,400	13.60	73,440
3.	R.C.C. M-10 (1:3:6) in foundations and below raft including shuttering.	Cum	60	820	49,200
4.	R.C.C. M-20 (1:1.5:3) in substructure (raft, machine foundations etc.) including grouting of embedded parts for gates, trash rack etc. (excluding reinforcement)	Cum	1650	1206	19,89,900
5.	R.C.C. M-20 (1:1.5:3) in power house super structure (piers, columns, beam slabs stairs, hoist bridges etc.) excluding reinforcement.	Cum	1100	1540	16,94,000

DPR Triveni



6.	Supplying & laying for steel reinforcement including derusting, bending & binding with 16/20 SWG annealed wire as per specifications and direction of Engineer.	MT	370	10350	38,29,500
7.	R.C.C. M-20 (1:1.5:3) for retaining walls, its pile cap, rafts, stern & counter forts etc., excluding reinforcement.	Cum	1700	1396	23,73,200
8.	Steel work, rivetted or bolted in roof trusses including cutting, hoisting fixing in position and applying a priming coat of red lead paint.	MT	30	16000	4,80,000
9.	Supplying fabrication & fixing in position pressure release pipe and M.S. grill, railing steel ladders etc.	MT	5	11093	55,465
10.	Providing & fixing draft tube gates including hoisting arrangement.	MT	58	25000	14,50,000
11.	Supplying, fitting & fixing of trash rack.	MT	14	16000	2,24,000
12.	Providing & fixing steel doors & windows etc.	L.S.			50,000
13.	Supplying, fitting & fixing in position rolling shutters including steel pulleys, bolts nuts, locking arrangement, stoppers etc. & applying a	59 M	14	800	11,200



	priming coat of red lead paint.				
14.	Providing & laying 100 mm CI rain water pipes.	M	150	50	7,500
15.	Providing expansion joints including water stops, filling with asphalt etc. as per approved drawing, specifications and direction of Engineer.	M		150	45,000
16.	Supplying & laying tarfelt or equivalent water proofing material over exposed roofs including laying gravel at the rate of surface area complete as per specifications and direction of Engineer.	59 M	460	60	27,600
17.	Providing & laying 40mm thick mosaic tile flooring as per specification.	59 M	400	200	80,000
18.	Providing smooth finish to walls including painting etc. as directed by Engineer.	L.S.			40,000
19.	Painting steel doors & windows, trusses etc.	L.S.			50,000
20.	Providing & fixing water supply & sanitary installation.	L.S.			50,000
21.	Providing & fixing electrification works	L.S.			50,000
22.	Providing & installing fire fighting equipment.	L.S.			20,000



(61)

23.	Site clearance, leveling & dressing	-L.S.			25,000
24.	Sheet piles of approved Make (a) Cost of sheet pile (b) Driving Including cutting to required lengths making holes, welding etc. complete as per specification and direction of Engineers.	59m	734	1800	13,21,200
25.	PCC M-10 in U/S & D/S sloping apron.	Cum	260	820	2,13,200
					1,51,55,005
					4,54,650
	Add. for dewatering 3%				1,56,09,655
					7,43,500
	Add. 5% (3% contingencies + 2% W.C. staff)				
	<b>Total</b>				<b>1,63,53,155</b>
	<b>Say Rs.</b>				<b>1,63,54,000</b>

DPR Triveni



**ANNEXURE-510****PLATFORM FILLING BETWEEN DON BYE  
PASS CHANNEL & POWER CHANNEL**

S.No.	Item	Unit	Qty.	Rate	Amount
1.	Earth work in filling by earth obtained from borrow pits with initial lead of 30m. & initial lift of 1.5 m.	Cum	23200	8.65	2,00,680
2.	Extra for 4 Additional leads of 30m. each over initial lead of 30m.	Cum	23200	3.20	74,240
3.	Extra for 2 additional lifts of 1 m. each over initial lift of 1.5 m.	Cum	23200	1.60	37,120
4.	Watering & compaction by power roller	Cum	23200	2.75	63,800
					3,75,840
	Add 40% escalation				1,50,336
					5,26,176
	Add 5% for contingencies & WC staff				26,309
	<b>Total</b>				<b>5,52,485</b>
	<b>Say Rs.</b>				<b>5,52,500</b>



**ANNEXURE-511****ABSTRACT OF COST TAIL RACE CHANNEL**

S.No.	Item	Unit	Qty.	Rate	Amount
1.	Preparation of seat of embankment by ploughing & removing grass and roots etc.	59 m	3000	0.35	1,050
2.	(a) Earthwork in excavation in canal in all kinds of soil with initial lead of 30m and initial lift of 1.5 m.	Cum	96000	8.65	8,30,400
	(b) Extra for one subsequent lead of 25m beyond the initial lead of 30m.	Cum	96000	0.80	76,800
	(c) Extra for two nos. lifts of 1M each beyond the initial lift of 1.5 M	Cum	96000	1.60	1,53,600
	(d) Extra for hard soil	Cum	48000	2.40	1,15,200
	(e) Extra for wet soil	Cum	48000	0.82	39,360
	(f) Extra for slush and daldal	Cum	24000	3.20	76,800
3.	(a) Fine dressing & turfing with 75mm thick grass sods with initial lead of 150 m.	59m	20000	1.00	20,000
	(b) Extra for each subsequent lead of 150m lead of 150m.	59m	10000	0.37	3,700
					13,16,910
	Add 40% escalation				5,26,764
					18,43,670
	Add dewatering 2%				36,873
	Add 5% for contingencies & W.C. staff.				92,183
	<b>Total</b>				<b>19,72,726</b>
	<b>Say Rs.</b>				<b>19,72,800</b>



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NO-2 / 111551-1110-3110-11 / 01

सामयिक विमर्श

महलक्ष्मीनगर, बिहार,  
वीरचन्द्र पटेल भार्ग, पटना

वित्त विभाग, बिहार, पटना ।

वित्तीय वर्ष 2006-07 में कटैया जल सुगृह (4 x 4.8 मेगावाट) का नवीनीकरण/आधुनिकीकरण के लिए राज्य योजना के अन्तर्गत 3500.00 लाख (पैंतीस करोड़) रुपये की योजना की स्वीकृति एवं 3284.00 लाख (बत्तीस करोड़ चौरासी लाख) रुपये व्यय की निकासी की स्वीकृति।

उपर्युक्त विषय के संबंध में कहना है कि सरकार ने कोशी (कटैया)

जल विद्युत गृहों के जीर्णोद्धार, नवीनीकरण हेतु 3500.00 लाख (पैंतीस करोड़) रुपये की योजना की स्वीकृति के साथ : जना के कार्यान्वयन हेतु वर्तमान वित्तीय वर्ष 2006-07 में 2000.00 लाख (दो हजार करोड़) रुपये का अनुमान है।

विहार राज्य जल विद्युत निगम (राज्य जल विद्युत निगम) रूपरेखा की निकासी की विद्युत निगम अपने आंतरिक 2006-07 एवं 2007-08 के

2. वित्त विभाग : परिपत्र संख्या एफ-4-3881 दिनांक 07.07.1989 के अनुसार पुराने बकाये एवं सूद का 25% की कटौती पर राज्य जल विद्युत निगम लि०, पटना की वित्तीय स्थिति को देखते हुए नहीं करने का छूट प्रदान की जाती है। ऋण की अन्य शर्तें निम्नवत होंगी :-

(क) ऋण का पुनर्भुगतान एवं सूद का भुगतान 10 (दस) वराबर किश्तों में होगा। इसकी पहली किश्त की अदायगी ऋण निकासी की तिथि से एक साल बाद से प्रारम्भ होगी।

(ख) इस राशि पर 13% की दर से वार्षिक व्याज देय होगा।

(ग) समय पर भुगतान नहीं करने पर 2.5% की दर से विलम्ब दण्ड देय होगा।

(घ) समय पर भुगत न करने पर व्याज दर में 1% (चौथाई) प्रतिशत छूट देया होगा।

3. यह राशि बजट शीर्ष- मुख्य शीर्ष-6801-विद्युत परियोजनाओं के लिए कर्ज- राज्य योजना-800-विद्युत, बोर्डों के लिए अन्य क्र. 0104-विहार राज्य जल विद्युत निगम को ऋण मांग संख्या-10, विपत्र संख्या पी-68010080000104 के अन्तर्गत वित्तीय वर्ष 2006-07 के आय-व्यय में उपरोक्त राशि से विकलनीय होगा।



5. इस राशि की निकाली मुख्य विद्युत अभियन्ता के सचिव (प्रावैधिक) विभाग द्वारा सचिवालय कोषागार, सिंचाई भवन, पटना से की जाएगी। राशि को निकालने के बाद इसका भुगतान बैंकर्स चेक/बैंक ड्रा के माध्यम से बिहार राज्य जल विद्युत निगम लि०, पटना को भुगतान दिया जाएगा।

अनुरोध है कि 34.00 लाख (तीस करोड़ चौरासी लाख) रुपये का प्राधिकरण पत्र स्थायीतः निर्गत करने की कृपा की जाय।

बिहार राज्यपाल के आदेश से,

ह०/-  
(राजेश गुप्ता)

ज्ञापक - \_\_\_\_\_/ दिनांक - \_\_\_\_\_/  
प्रतिलिपि कोषागार पदाधिकारी, सचिवालय कोषागार, सिंचाई भवन, पटना को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित ॥

ह०/-  
(राजेश गुप्ता)  
सरकार के सचिव।

ज्ञापक - 360/ दिनांक - 29/1/02/  
प्रतिलिपि सचिव, योजना एवं विकास विभाग, विहार, पटना/वित्त विभाग वजेट शाखा/विभागीय वजेट शाखा/विभागीय योजना शाखा/मुख्य विद्युत अभियन्ता के सचिव (प्रावैधिक), ऊर्जा विभाग, विहार, पटना/प्रबंध निदेशक, बिहार राज्य जल विद्युत निगम लि०, पटना को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

राजेश गुप्ता  
(राजेश गुप्ता)  
सरकार के सचिव।  
01/2/02



प्रबंध निदेशक  
जल विभाग, पटना  
महोदय, पटना



Bihar State Hydroelectric Power Corporation Ltd.  
Sone Bhawan, 2nd floor, B.C.P.Marg, Patna

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Details of Grant and Aid

Sl.No.	Year	Grant and Aid ( INR )
1	1982-83	-
2	1983-84	-
3	1984-85	-
4	1985-86	-
5	1986-87	-
6	1987-88	-
7	1988-89	-
8	1989-90	-
9	1990-91	-
10	1991-92	-
11	1992-93	-
12	1993-94	-
13	1994-95	-
14	1995-96	-
15	1996-97	-
16	1997-98	13,163,000.00
17	1998-99	-
18	1999-00	-
19	2000-01	-
20	2001-02	-
21	2002-03	-
22	2003-04	-
23	2004-05	-
24	2005-06	4,062,500.00
25	2006-07	41,125,000.00
26	2007-08	59,274,500.00
27	2008-09	16,413,000.00
28	2009-10	24,062,500.00
	Total Rs.	158,100,500.00

No. 0/169/2004-SHP  
GOVERNMENT OF INDIA  
Ministry of Non-Conventional Energy Sources  
(Small Hydro Power Division)

Block No.14, CGO Complex  
Lodi Road, New Delhi - 110003

Dated: 24<sup>th</sup> October, 2005.

Tel: 24360707

Fax: 24361298

To: The Ray & Accounts Officer

Ministry of Non-Conventional Energy Sources

New Delhi-110003

Subject: Setting up of Dhelabagh (1. IW) SHP project in district Rohtas, Bihar by the Bihar State Hydroelectric Power Corporation, Patna - Release of 1<sup>st</sup> instalment of MNES subsidy, reg.

Sir,

With reference to the letter No. 3929 dated 27.11.04, 160 dated 01.2.05, 184 dated 14.02.2005 & 417 dated 21.3.05 from the Bihar State Hydroelectric Power Corporation (BHPC) on the subject mentioned above and in continuation of this Ministry's letter of even no. dated 15<sup>th</sup> October 2004, I am directed to convey the sanction of the President for the release of first installment of Rs. 40,62,500/- (Rupees forty lakhs, sixty two thousands and five hundred only) as grants-in-aid within the sanctioned outlay to the Bihar State Hydroelectric Power Corporation, Patna for incurring expenditure on the above SHP project in district Rohtas of Bihar during the current financial year 2005-2006.

2. The amount of Rs. 40,62,500/- (Rupees forty lakhs, sixty two thousands and five hundred only) will be drawn by the DDO, MNES from the PAO, MNES, New Delhi and disbursed to the Chairman & Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchand Patel Marg, Patna-800001 by an accounts payee demand draft for incurring expenditure on the above mentioned SHP project during the current financial year 2005-06. The release is being made to the Autonomous Body of the State Govt. (Category 'A' as per PAO OM No. PAO/MNES/SANCTION/2005-06 dated 11-7-2005).

3. The other terms and conditions will remain the same as already conveyed vide sanction letter of even number dated 15<sup>th</sup> October 2004 and the general terms & conditions of the relevant Scheme of SHP programme circulated vide letter No. 14(5)/2003-SHP dated 29<sup>th</sup> July 2003 (Annexure C). The sanction is further subject to (a) the quarterly progress reports and Utilisation certificates in the prescribed format being submitted regularly by the BHPC and audited statement of expenditure, which should also indicate progressive and matching funds by the BHPC (b) the amount being utilised exclusively for the above SHP project and for works as approved by MNES.

4. The Grantee Organisation is exempted from executing a Bond as required under Govt. of India decision no. 5 (a) under GFR-149. All the terms & conditions of the administrative approval have been followed.

.....2/-



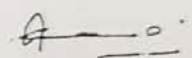
5. The expenditure is debitable to the Head of Account: Demand No. 63.02.03.02 - Small Hydro Power Development; 03.02.33 - Subsidies, for the year 2005-06.

6. With the above release of Rs. 40,62,500/- (Rupees forty lakhs, sixty two thousand and five hundred only), the total amount released on the subject project would be Rs. 40,62,500/- against the MNES sanctioned subsidy of Rs. 162.50 lakhs for the above SHP project.

7. This sanction issues in exercise of delegated powers of the Ministry and with concurrence of Integrated Finance Division vide their sanction No. IFD/SAN/106/501/2005 dated 21/10/2005 and with the approval of Minister (NES).

8. This sanction/expenditure for release of Rs. 40,62,500/- (Rupees forty lakhs, sixty two thousand and five hundred only) for the above SHP project has been noted at Sl. No. 4 (page No. 282) of the Expenditure Control Register of SHP Division for the year 2005-06.


Yours faithfully,

  
(S. S. BEDI)

Under Secretary to the Govt. of India

Copy to:

1. The Secretary, Energy Dept., Govt. of Bihar, Secretariat, Patna.
2. The Chairman & Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchan 1 Patel Marg, Patna-800001.
3. AG, CW&M-II (Science Audit), DACR Building, I.P. Estate, New Delhi-110 002.
4. AG, Govt. of Bihar, Patna.
5. JS/ Dir(PS)/ Dir(AKC)/ US(SHP)/ AC(F), MNES.
6. Regional Office, MNES, Patna.
7. Cash Section, MNES (4 copies).
8. Sanction Folder.

  
(S. S. BEDI)

Under Secretary to the Govt. of India

GOVERNMENT OF INDIA  
Ministry of Non-Conventional Energy Sources  
(Small Hydro Power Division)

tel. : 24360707  
Fax : 24361298

Block No.14, CGO Complex  
Lodi Road, New Delhi - 110003

Dated: 29<sup>th</sup> May, 2006.



To

The Pay & Accounts Officer  
Ministry of Non-Conventional Energy Sources  
New Delhi-110003.

Subject: **Setting up of Triveni (3 MW) SHP project in district West Champaran, Bihar by the Bihar State Hydroelectric Power Corporation, Patna - Release of three installments of MNES subsidy reg.**

Sir,

With reference to the letter Nos. 4038 dated 15.12.04, 161 dated 01.2.05, 189 dated 05.2.2005, 417 dated 21.3.05 & 986 dated 18.03.06 from the Bihar State Hydroelectric Power Corporation (BHPC) on the subject mentioned above and in continuation of this Ministry's letter of even no. dated 15<sup>th</sup> October 2004, I am directed to convey the sanction of the President for the release of three installments (75%) amounting to Rs. 1,50,00,000/- (Rupees one crore and fifty lakhs only) as grants-in-aid within the sanctioned outlay to the Bihar State Hydroelectric Power Corporation, Patna for incurring expenditure on the above SHP project in district Rohtas of Bihar during the current financial year 2006-2007.

2. The amount of Rs. 1,50,00,000/- (Rupees one crore and fifty lakhs only) will be drawn by the DDO, MNES from the PAO, MNES, New Delhi and disbursed to the Chairman & Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchand Patel Marg, Patna 800001 by an accounts payee demand draft for incurring expenditure on the above mentioned SHP project during the current financial year 2006-07. The release is being made to the Autonomous Body of the State Govt. (Category 'A' as per PAO OM No. PAO/MNES/SANCTION/2005-06 date 11-7-2005).

3. The other terms and conditions will remain the same as already conveyed vide sanction letter of even number dated 15<sup>th</sup> October 2004 and the general terms & conditions of the relevant Scheme of SHP programme circulated vide letter No. 14(5)/2003-SHP dated 29<sup>th</sup> July 2003 (Annexure C). The sanction is further subject to (a) the quarterly progress reports and Utilisation certificates in the prescribed format being submitted by the BHPC by 30<sup>th</sup> September 2006 and audited statement of expenditure which should also indicate progressive and matching funds by the BHPC (b) the amount being utilised exclusively for the above SHP project and for works as approved by MNES.

4. The Grantee Organisation is exempted from executing a Bond as required under Govt. of India decision no. 5 (a) under GFR-149. All the terms & conditions of the administrative approval have been followed. The accounts of Grantee Organisation shall be open to inspection by the sanctioning authority and audit both by C&AG and the internal audit by the Principal Account Office of the Ministry, whenever the organization is called upon to do so.



56

5. The expenditure involved will be debitable to Head of Account: Demand No. 64-2810-Non-Conventional Sources of Energy (Major Head); 60-Other (Sub-Major Head); 61-Other Sources of Energy (Minor Head); 03-Small Hydro Power Development; 03.02-Promotion Programme; 03.02.33-Subsidies, for the year 2006-07 (Plan).

6. With the above release of Rs. 1,50,00,000/- (Rupees one crores and fifty lakhs only), the amount released on the subject project would be Rs. 150.00 lakhs against the MNES sanction subsidy of Rs. 200 lakhs for the above SHP project.

7. This sanction issues in exercise of delegated powers of the Ministry and with the concurrence of Integrated Finance Division vide their sanction no. IFD/SAN/107/55/2006-07 dated 26/5/2006 and with the approval of Minister (NES).

8. This sanction/expenditure for release of Rs. 1,50,00,000/- (Rupees one crores and fifty lakhs only) for the above SHP project has been noted at Sl. No. 9 (page No. 335) of the Expenditure Control Register of SHP Division for the year 2006-07.

Yours faithfully,


  
(S. S. BEDI)

Under Secretary to the Govt. of India

Copy to: -

1. The Secretary, Energy Dept., Govt. of Bihar, Secretariat, Patna.
2. The Chairman & Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchand Patel Marg, Patna-800001.
3. AG, CW&M-II(Science Audit), DACR Building, I.P.Estate, New Delhi-110 002.
4. AG, Govt. of Bihar, Patna.
5. JS/ Dir(PS)/ Dir(AKC)/ US(SHP)/AO(F), MNES.
6. Regional Office, MNES, Patna.
7. Cash Section, MNES (4 copies).
8. Sanction Folder.

Drawing & Publishing Officer  
Min. of Power, Govt. of India  
Block No. 44, P.O. Complex,  
Lodhi Road, New Delhi-110003

  
(S. S. BEDI)

Under Secretary to the Govt. of India

No. 64-N  
Head: 60-S  
03.02-S

No. 6/170/2004-SHP  
GOVERNMENT OF INDIA  
Ministry of Non-Conventional Energy Sources  
(Small Hydro Power Division)

Tel. : 24360707  
Fax : 24361298



Block No.14, CGO Complex  
Lodi Road, New Delhi - 110003

Dated: 29<sup>th</sup> May, 2006.

To

The Pay & Accounts Officer  
Ministry of Non-Conventional Energy Sources  
New Delhi-110003.

**Subject: Setting up of Jainagra (1 MW) SHP project in district Rohtas, Bihar by the Bihar State Hydroelectric Power Corporation, Patna - Release of 1<sup>st</sup> & 2<sup>nd</sup> instalments of MNES subsidy reg.**

Sir,

With reference to the letter Nos. 4037 dated 15.12.04, 161 dated 01.2.05, 184 dated 14.02.2005, 417 dated 21.3.05 & 986 dated 18.03.06 from the Bihar State Hydroelectric Power Corporation (BHPC) on the subject mentioned above and in continuation of this Ministry's letter of even no. dated 15<sup>th</sup> October 2004, I am directed to convey the sanction of the President for the release of first & second installments amounting to Rs. 67,50,000/- (Rupees sixty seven lakhs and fifty thousands only) as grants-in-aid within the sanctioned outlay to the Bihar State Hydroelectric Power Corporation, Patna for incurring expenditure on the above SHP project in district Rohtas of Bihar, during the current financial year 2006-2007.

2. The amount of Rs. 67,50,000/- (Rupees sixty seven lakhs and fifty thousands only) will be drawn by the DDO, MNES from the PAO, MNES, New Delhi and disbursed to the Chairman & Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchand Patel Marg, Patna-800001 by an accounts payee demand draft for incurring expenditure on the above mentioned SHP project during the current financial year 2006-07. The release is being made to the Autonomous Body of the State Govt. (Category 'A' as per PAO OM No. PAO/MNES/SANCTION/2005-06 dated 11-7-2005).

3. The other terms and conditions will remain the same as already conveyed vide sanction letter of even number dated 15<sup>th</sup> October 2004 and the general terms & conditions of the relevant Scheme of SHP programme circulated vide letter No. 14(5)/2003-SHP dated 29<sup>th</sup> July 2003 (Annexure C). The sanction is further subject to (a) the quarterly progress reports and Utilisation certificates in the prescribed format being submitted by the BHPC by 30<sup>th</sup> September 2006 and audited statement of expenditure which should also indicate progressive and matching funds by the BHPC (b) the amount being utilised exclusively for the above SHP project and for works as approved by MNES.

4. The Grantee Organisation is exempted from executing a Bond as required under Govt. of India decision no. 5 (a) under GFR-149. All the terms & conditions of the administrative approval have been followed. The accounts of Grantee Organization shall be open to inspection by the sanctioning authority and audit both by C&AG and the internal audit by the Principal Account Office of the Ministry, whenever the organization is called upon to do so.

.....2/



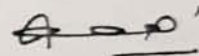
5. The expenditure involved will be debitable to Head of Account: Demand No. 64-Minor  
2810-Non-Conventional Sources of Energy (Major Head); 60-Other (Sub-Major Head); 60.60-  
Other Sources of Energy (Minor Head); 03-Small Hydro Power Development; 03.02-SHP  
Promotion Programme; 03.02.33-Subsidies, for the year 2006-07 (Plan).

6. With the above release of Rs. 67,50,000/- (Rupees sixty seven lakhs and fifty thousands  
only), the total amount released on the subject project would be Rs. 67.50 lakhs against the MNES  
sanctioned subsidy of Rs. 150 lakhs for the above SHP project.

7. This sanction issues in exercise of delegated powers of the Ministry and with the concurrence  
of Integrated Finance Division vide their sanction no. IFD/SAN/107/61/2006-07 dated 26/5/2006  
and with the approval of Minister (NES).

8. This sanction/expenditure for release of Rs. 67,50,000/- (Rupees sixty seven lakhs and fifty  
thousands only) for the above SHP project has been noted at Sl. No. 7 (page No. 334) of the  
Expenditure Control Register of SHP Division for the year 2006-07.

Yours faithfully,



(S. S. BEDI)

Under Secretary to the Govt. of India

Copy to: -

1. The Secretary, Energy Dept., Govt. of Bihar, Secretariat, Patna.
2. The Chairman & Managing Director, Bihar State Hydroelectric Power Corporation,  
Sone Bhawan, Birchand Patel Marg, Patna-800001.
3. AG, CW&M-II(Science Audit), DACR Building, I.P.Estate, New Delhi-110 002.
4. AG, Govt. of Bihar, Patna.
5. JS/ Dir(PS)/ Dir(AKC) / US(SHP)/AO(F), MNES.
6. Regional Office, MNES, Patna.
7. Cash Section, MNES (4 copies).
8. Sanction Folder.



(S. S. BEDI)

Under Secretary to the Govt. of India

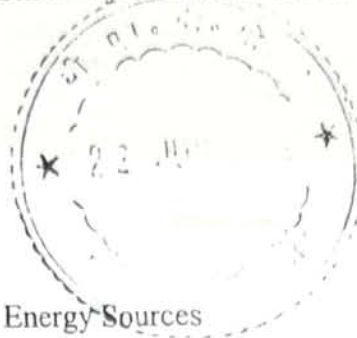
Forwarded to Managing Officer  
Lodhi Road, New Delhi

No. 6/164/2004-SHP  
GOVERNMENT OF INDIA  
Ministry of Non-Conventional Energy Sources  
(Small Hydro Power Division)

Tel. : 24360707  
Fax : 24361298

Block No.14, CGO Complex  
Lodi Road, New Delhi - 110003

Dated: 29<sup>th</sup> May, 2006.



To  
The Pay & Accounts Officer  
Ministry of Non-Conventional Energy Sources  
New Delhi-110003.

**Subject: Setting up of Nasariganj (1 MW) SHP project in district Rohtas, Bihar by the Bihar State Hydroelectric Power Corporation, Patna - Release of three installments of MNES subsidy reg.**

Sir,

With reference to the letter Nos. 4037 dated 15.12.04, 161 dated 01.2.05, 184 dated 14.02.2005, 417 dated 21.3.05 & 986 dated 18.03.06 from the Bihar State Hydroelectric Power Corporation (BHPC) on the subject mentioned above and in continuation of this Ministry's letter of even no. dated 15<sup>th</sup> October 2004, I am directed to convey the sanction of the President for the release of three installments (75%) amounting to Rs. 1,12,50,000/- (Rupees one crore, twelve lakhs and fifty thousands only) as grants-in-aid within the sanctioned outlay to the Bihar State Hydroelectric Power Corporation, Patna for incurring expenditure on the above SHP project in district Rohtas of Bihar during the current financial year 2006-2007.

2. The amount of Rs. 1,12,50,000/- (Rupees one crore, twelve lakhs and fifty thousands only) will be drawn by the DDO, MNES from the PAO, MNES, New Delhi and disbursed to the Chairman & Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchand Patel Marg, Patna-800001 by an accounts payee demand draft for incurring expenditure on the above mentioned SHP project during the current financial year 2006-07. The release is being made to the Autonomous Body of the State Govt. (Category 'A' as per PAO OM No. PAO/MNES/SANCTION/2005-06 dated 11-7-2005).
3. The other terms and conditions will remain the same as already conveyed vide sanction letter of even number dated 15<sup>th</sup> October 2004 and the general terms & conditions of the relevant Scheme of SHP programme circulated vide letter No. 14(5)/2003-SHP dated 29<sup>th</sup> July 2003 (Annexure C). The sanction is further subject to (a) the quarterly progress reports and Utilisation certificates in the prescribed format being submitted by the BHPC by 30<sup>th</sup> September 2006 and audited statement of expenditure which should also indicate progressive and matching funds by the BHPC (b) the amount being utilised exclusively for the above SHP project and for works as approved by MNES.
4. The Grantee Organisation is exempted from executing a Bond as required under Govt. of India decision no. 5 (a) under GFR-149. All the terms & conditions of the administrative approval have been followed. The accounts of Grantee Organization shall be open to inspection by the sanctioning authority and audit both by C&AG and the internal audit by the Principal Accounts Office of the Ministry, whenever the organization is called upon to do so.

.....2/-



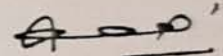
5. The expenditure involved will be debitable to Head of Account: Demand No. 64-2810-Non-Conventional Sources of Energy (Major Head); 60-Other (Sub-Major Head); 60-Other Sources of Energy (Minor Head); 03-Small Hydro Power Development; 03.02-Promotion Programme; 03.02.33-Subsidies, for the year 2006-07 (Plan).

6. With the above release of Rs. 67,50,000/- (Rupees sixty seven lakhs and fifty thousands only), the total amount released on the subject project would be Rs. 67.50 lakhs against the MNES sanctioned subsidy of Rs. 150 lakhs for the above SHP project.

7. This sanction issues in exercise of delegated powers of the Ministry and with the concurrence of Integrated Finance Division vide their sanction no. IFD/SAN/107/61/2006-07 dated 26/5/2006 and with the approval of Minister (NES).

8. This sanction/expenditure for release of Rs. 67,50,000/- (Rupees sixty seven lakhs and fifty thousands only) for the above SHP project has been noted at Sl. No. 7 (page No. 334) of the Expenditure Control Register of SHP Division for the year 2006-07.

Yours faithfully,

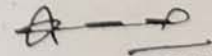


(S. S. BEDI)

Under Secretary to the Govt. of India

Copy to: -

1. The Secretary, Energy Dept., Govt. of Bihar, Secretariat, Patna.
2. The Chairman & Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchand Patel Marg, Patna-800001.
3. AG, CW&M-II(Science Audit), DACR Building, I.P.Estate, New Delhi-110 002.
4. AG, Govt. of Bihar, Patna.
5. JS/ Dir(PS)/ Dir(AKC) / US(SHP)/AO(F), MNES.
6. Regional Office, MNES, Patna.
7. Cash Section, MNES (4 copies).
8. Sanction Folder.



(S. S. BEDI)

Under Secretary to the Govt. of India

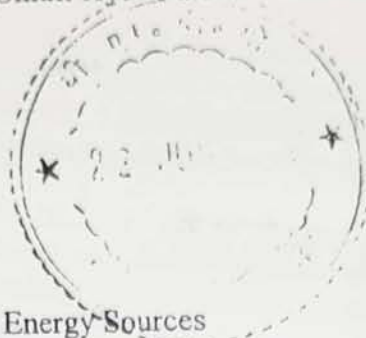
Drawing & Planning Officer  
Bt  
Lodhi Road, New Delhi

No. 6/164/2004-SHP  
GOVERNMENT OF INDIA  
Ministry of Non-Conventional Energy Sources  
(Small Hydro Power Division)

Tel.: 24360707  
Fax: 24361298

Block No.14, CGO Complex  
Lodi Road, New Delhi - 110003

Dated: 29<sup>th</sup> May, 2006.



To  
The Pay & Accounts Officer  
Ministry of Non-Conventional Energy Sources  
New Delhi-110003.

Subject: **Setting up of Nasariganj (1 MW) SHP project in district Rohtas, Bihar by the Bihar State Hydroelectric Power Corporation, Patna - Release of three installments of MNES subsidy reg.**

Sir,

With reference to the letter Nos. 4037 dated 15.12.04, 161 dated 01.2.05, 184 dated 14.02.2005, 417 dated 21.3.05 & 986 dated 18.03.06 from the Bihar State Hydroelectric Power Corporation (BHPC) on the subject mentioned above and in continuation of this Ministry's letter of even no. dated 15<sup>th</sup> October 2004, I am directed to convey the sanction of the President for the release of three installments (75%) amounting to Rs. 1,12,50,000/- (Rupees one crore, twelve lakhs and fifty thousands only) as grants-in-aid within the sanctioned outlay to the Bihar State Hydroelectric Power Corporation, Patna for incurring expenditure on the above SHP project in district Rohtas of Bihar during the current financial year 2006-2007.

2. The amount of Rs. 1,12,50,000/- (Rupees one crore, twelve lakhs and fifty thousands only) will be drawn by the DDO, MNES from the PAO, MNES, New Delhi and disbursed to the Chairman & Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchand Patel Marg, Patna-800001 by an accounts payee demand draft for incurring expenditure on the above mentioned SHP project during the current financial year 2006-07. The release is being made to the Autonomous Body of the State Govt. (Category 'A' as per PAO OM No. PAO/MNES/SANCTION/2005-06 dated 11-7-2005).

3. The other terms and conditions will remain the same as already conveyed vide sanction letter of even number dated 15<sup>th</sup> October 2004 and the general terms & conditions of the relevant Scheme of SHP programme circulated vide letter No. 14(5)/2003-SHP dated 29<sup>th</sup> July 2003 (Annexure C). The sanction is further subject to (a) the quarterly progress reports and Utilisation certificates in the prescribed format being submitted by the BHPC by 30<sup>th</sup> September 2006 and audited statement of expenditure which should also indicate progressive and matching funds by the BHPC (b) the amount being utilised exclusively for the above SHP project and for works as approved by MNES.

4. The Grantee Organisation is exempted from executing a Bond as required under Govt. of India decision no. 5 (a) under GFR-149. All the terms & conditions of the administrative approval have been followed. The accounts of Grantee Organization shall be open to inspection by the sanctioning authority and audit both by C&AG and the internal audit by the Principal Accounts Office of the Ministry, whenever the organization is called upon to do so.

.....2/-



- 164
5. The expenditure involved will be debitable to Head of Account: Demand No. 2810-Non-Conventional Sources of Energy (Major Head); 60-Other (Sub-Major Head); Other Sources of Energy (Minor Head); 03-Small Hydro Power Development; 03.02.33-Subsidies, for the year 2006-07 (Plan).
6. With the above release of Rs. 1,12,50,000/- (Rupees one crore, twelve lakhs and thousands only), the total amount released on the subject project would be Rs. 112.50 lakhs against the MNES sanctioned subsidy of Rs. 150.00 lakhs for the above SHP project.
7. This sanction issues in exercise of delegated powers of the Ministry and with the concurrence of Integrated Finance Division vide their sanction no. IFD/SAN/107/54/2006-07 dated 26/5/06 and with the approval of Minister (NES).
8. This sanction/expenditure for release of Rs. 1,12,50,000/- (Rupees one crore twelve lakhs and fifty thousands only) for the above SHP project has been noted at Sl. No. 8 (page No. 334) of Expenditure Control Register of SHP Division for the year 2006-07.

Yours faithfully,



(S. S. BEDI)

Under Secretary to the Govt. of India

Copy to: -

1. The Secretary, Energy Dept., Govt. of Bihar, Secretariat, Patna.
2. The Chairman & Managing Director, Bihar State Hydroelectric Power Corporation, Bhawan, Birchand Patel Marg, Patna-800001.
3. AG, CW&M-II(Science Audit), DACR Building, I.P.Estate, New Delhi-110 002.
4. AG, Govt. of Bihar, Patna.
5. JS/ Dir(PS)/ Dir(AKC)/ US(SHP)/AO(F), MNES.
6. Regional Office, MNES, Patna.
7. Cash Section, MNES (4 copies).
8. Sanction Folder.

Joint Secretary (Financials) Officer  
National Office  
14, C.G. Road,  
Lodhi Road, New Delhi-110 002



(S. S. BEDI)

Under Secretary to the Govt. of India

No. 64  
or Head): 03.02-  
ent: 03.02-

RECEIVED

No. CIA/CE 21/06-07/03.02-31/06-07

GOVERNMENT OF INDIA  
MINISTRY OF NON-CONVENTIONAL ENERGY SOURCES

CASH SECTION



Block No.14, CGO complex  
Lodhi Road, New Delhi-3

Dated: 22/9/07

To

Managing Director  
Bihar State Hydro Electric  
Project Corp.  
Patna

Sub: Forwarding of Demand draft/ Cheque - r/s.

Sir,

Please find enclosed Demand Draft/ Cheque No. 038492

dated 16/9/06 for Rs. 21,25,000 (Rupees Eighty one  
lakh Twenty five thousand only)

drawn on State Bank of Hyderabad, P.V. Hostel, Scope complex, New Delhi was sanction

vide this ministry's sanction No. 6/189/2004-S.H.P.

dated 31/8/06 your bill / invoice No. ✓

dated \_\_\_\_\_

Our Account No. is \_\_\_\_\_ . Please acknowledge the

receipt of the cheque/draft.

Yours faithfully,

Admit

(Section Officer (Cash))

Encl: As above

Chelabaga  
2nd & third  
instalment





Tel. : 24360707  
Fax : 24361298

Block No.14, CGO Complex  
Lodi Road, New Delhi - 110003.  
Dated: 16<sup>th</sup> March, 2007..

To

The Pay & Accounts Officer  
Ministry of New and Renewable Energy  
New Delhi-110003.

**Subject: Setting up of Tejpura (1.50 MW) SHP project in District Aurangabad, Bihar by BHPC, Patna - Sanction of subsidy & release of 1<sup>st</sup> instalment reg.**

Sir,

With reference to the letter Nos. 210 dated 19.1.04, 4205 dated 28.11.2006 & 895 dated 28.02.07 from the Bihar State Hydroelectric Power Corporation (BHPC), Patna on the subject mentioned above and in pursuance of this Ministry's 'Scheme for Promotion of Grid Interactive Power Generation projects based on Renewable Energy Sources' for the year 2006-07 as circulated vide MNRE letter No. 14/8/2004-SHP dated 26.12.2006 for setting up SHP projects upto 25 MW station capacity in the government sector, I am directed to convey the sanction of the President for providing MNRE subsidy of Rs. 195 lakhs ( Rupees one crores & ninety five lakhs only ) to the BHPC, Patna for setting up of Tejpura (1.50 MW) Small Hydro Power project in district Aurangabad of Bihar.

2. The total cost of the project has been estimated by the BHPC as Rs. 1025.00 lakhs for setting up the above SHP project in district Aurangabad of Bihar. Out of total project cost of Rs. 1025.00 lakhs, the support of the Ministry will be Rs. 195 lakhs or the actual cost of project, whichever is less, as per the provisions in the concerned Scheme. The balance cost of the project over & above eligible MNRE subsidy will be met or borne by the Bihar State Hydroelectric Power Corporation, Patna.

3. I am also directed to convey the sanction of the President for the release of first installment of 25%, amounting to Rs. 48.75 lakhs (Rupees forty eight lakhs and seventy five thousands only) as grants-in-aid within the sanctioned outlay to the BHPC, Patna for incurring expenditure on the above SHP project in district Aurangabad of Bihar, during the current financial year 2006-2007.

4. The amount of Rs. 48.75 lakhs (Rupees forty eight lakhs and seventy five thousands only) will be drawn by the DDO, MNRE from the PAO, MNRE, New Delhi and disbursed to the Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchand Patel Marg, Patna-800001 by an accounts payee demand draft for incurring expenditure on the above mentioned SHP project during the current financial year 2006-07. The release is being made to the Autonomous Body of the State Govt. (Category 'A' as per PAO OM No. PAO/MNES/SANCTION/ 2005-06 dated 11-7-2005).

5. The sanction is further subject to (a) the relevant general terms & conditions of the 'Scheme for Promotion of Grid Interactive Power Generation projects based on Renewable Energy Sources' as circulated vide letter no. 14/8/2004-SHP dated 26.12.2006 including installation of SHP projects upto 25 MW station capacity in the Govt. Sector (b) the progress reports and Utilisation certificates in the prescribed format being submitted by the BHPC, Patna and audited statement of expenditure which should also indicate progressive and matching funds by the BHPC (c) the amount being utilised exclusively for Tejpura SHP project and for works as approved by the Ministry.

Contd.....2/-

6. The Grantee Organisation is exempted from executing a Bond as required under Govt. of India decision no. 5 (a) under GFR-149. All the terms & conditions of the administrative approval have been followed. The accounts of Grantee Organization shall be open to inspection by the sanctioning authority and audit both by C&AG and the internal audit by the Principal Accounts Office of the Ministry, whenever the organization is called upon to do so.

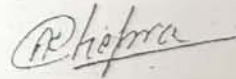
7. The expenditure is debitable to the following Head of Account: Demand No. 64; 2810 (Major Head) - Non-Conventional Sources of Energy; 60 (Sub-Major Head) - other; 60.600 (Minor Head) - Other Sources of Energy; 03 - Small Hydro Power Development; 03.02 - SHP Promotion Programme; 03.02.31 - Grants-in-aid, for the year 2006-07 (Plan).

8. With the above release of Rs. 48.75 lakhs (Rupees forty eight lakhs and seventy five thousands only), the total amount released on the subject project would be Rs. 48.75 lakhs against the MNRE sanctioned subsidy of Rs. 195.00 lakhs for the above SHP project.

9. This sanction issues in exercise of delegated powers of the Ministry and with the concurrence of Integrated Finance Division vide their sanction no. IFD/SAN/107/989/2006-07 dated 15/3/2007.

10. This sanction/expenditure for release of Rs. 48.75 lakhs (Rupees forty eight lakhs and seventy five thousands only) for the above SHP project has been noted at Sl. No. 14 (page No. 332) of the Expenditure Control Register of SHP Division for the year 2006-07.

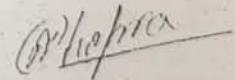
Yours faithfully,



(A. K. Chopra)  
Director

Copy to: -

1. The Secretary, Energy Dept., Govt. of Bihar, Secretariat, Patna.
- ✓ 2. The Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchand Patel Marg, Patna-800001.
3. AG, CW&M-II(Science Audit), DACR Building, I.P.Estate, New Delhi-110 002.
4. AG, Govt. of Bihar, Patna.
5. JS/ Dir(PS)/ Dir(AKC) / US(SHP)/AO(F), MNES.
6. Regional Office, MNES, Patna.
7. Cash Section, MNES.
8. Sanction Folder.



(A. K. Chopra)  
Director



No. 6/160/2004-SHP  
GOVERNMENT OF INDIA  
Ministry of New and Renewable Energy  
(Small Hydro Power Division)

Tel. : 24360707  
Fax : 24361298

Block No.14, CGO Complex  
Lodi Road, New Delhi - 110003.  
Dated: 16<sup>th</sup> March, 2007.

To

The Pay & Accounts Officer  
Ministry of New and Renewable Energy  
New Delhi-110003.

Subject: **Setting up of Belsar (1.00 MW) SHP project in District Jehanabad, Bihar by BHPC, Patna - Sanction of subsidy & release of 1<sup>st</sup> instalment reg.**

Sir,

With reference to the letter Nos. 189 dated 17.1.04, 4468 dated 26.12.2006 & 895 dated 28.02.07 from the Bihar State Hydroelectric Power Corporation (BHPC), Patna on the subject mentioned above and in pursuance of this Ministry's 'Scheme for Promotion of Grid Interactive Power Generation projects based on Renewable Energy Sources' for the year 2006-07 as circulated vide MNRE letter No. 14/8/2004-SHP dated 26.12.2006 for setting up SHP projects upto 25 MW station capacity in the government sector, I am directed to convey the sanction of the President for providing MNRE subsidy of Rs. 150.00 lakhs ( Rupees one crores fifty lakhs only ) to the BHPC, Patna for setting up of Belsar (1.00 MW) Small Hydro Power project in district Jehanabad of Bihar.

2. The total cost of the project has been estimated by the BHPC as Rs. 1086.00 lakhs for setting up the above SHP project in district Rohtas of Bihar. Out of total project cost of Rs. 1086.00 lakhs, the support of the Ministry will be Rs. 150 lakhs or the actual cost of project, whichever is less, as per the provisions in the concerned Scheme. The balance cost of the project over & above eligible MNRE subsidy will be met or borne by the Bihar State Hydroelectric Power Corporation, Patna.

3. I am also directed to convey the sanction of the President for the release of first installment of 25%, amounting to Rs. 37.50 lakhs (Rupees thirty seven lakhs and fifty thousand only) as grants-in-aid within the sanctioned outlay to the BHPC, Patna for incurring expenditure on the above SHP project in district Aurangabad of Bihar, during the current financial year 2006-2007.

4. The amount of Rs. 37.50 lakhs (Rupees thirty seven lakhs and fifty thousand only) will be drawn by the DDO, MNRE from the PAO, MNRE, New Delhi and disbursed to the Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchand Patel Marg, Patna-800001 by an accounts payee demand draft for incurring expenditure on the above mentioned SHP project during the current financial year 2006-07. The release is being made to the Autonomous Body of the State Govt. (Category 'A' as per PAO OM No. PAO/MNES/SANCTION/ 2005-06 dated 11-7-2005).

5. The sanction is further subject to (a) the relevant general terms & conditions of the 'Scheme for Promotion of Grid Interactive Power Generation projects based on Renewable Energy Sources' as circulated vide letter no. 14/8/2004-SHP dated 26.12.2006 including installation of SHP projects upto 25 MW station capacity in the Govt. Sector (b) the progress reports and Utilisation certificates in the prescribed format being submitted by the BHPC, Patna and audited statement of expenditure which should also indicate progressive and matching funds by the BHPC (c) the amount being utilised exclusively on the above SHP project and for works as approved by the Ministry.

Contd.....2/-

6. The Grantee Organisation is exempted from executing a Bond as required under Govt. of India decision no. 5 (a) under GFR-149. All the terms & conditions of the administrative approval have been followed. The accounts of Grantee Organization shall be open to inspection by the sanctioning authority and audit both by C&AG and the internal audit by the Principal Accounts Office of the Ministry, whenever the organization is called upon to do so.

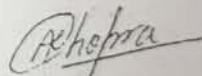
7. The expenditure is debitable to the following Head of Account: Demand No. 64; 2810 (Major Head) - Non-Conventional Sources of Energy; 60 (Sub-Major Head) - other; 60.600 (Minor Head) - Other Sources of Energy; 03 - Small Hydro Power Development; 03.02 - SHP Promotion Programme; 03.02.31 - Grants-in-aid, for the year 2006-07 (Plan).

8. With the above release of Rs. 37.50 lakhs (Rupees thirty seven lakhs and fifty thousand only), the total amount released on the subject project would be Rs. 37.50 lakhs against the MNRE sanctioned subsidy of Rs. 150 lakhs for the above SHP project.

9. This sanction issues in exercise of delegated powers of the Ministry and with the concurrence of Integrated Finance Division vide their sanction no. IFD/SAN/107/984/2006-07 dated 15/3/2007.


10. This sanction/expenditure for release of Rs. 37.50 lakhs (Rupees thirty seven lakhs and fifty thousand only) for the above SHP project has been noted at Sl. No. 13 (page No. 332) of the Expenditure Control Register of SHP Division for the year 2006-07.

Yours faithfully,

  
(A. K. Chopra)  
Director

Copy to: -

1. The Secretary, Energy Dept., Govt. of Bihar, Secretariat, Patna.
- ✓ 2. The Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchand Patel Marg, Patna-800001.
3. AG, CW&M-II(Science Audit), DACR Building, I.P.Estate, New Delhi-110 002.
4. AG, Govt. of Bihar, Patna.
5. JS/ Dir(PS)/ Dir(AKC) / US(SHP)/AO(F), MNES.
6. Regional Office, MNES, Patna.
7. Cash Section, MNES.
8. Sanction Folder.

  
(A. K. Chopra)  
Director





No. 6/153/2004-SHP  
GOVERNMENT OF INDIA  
Ministry of New and Renewable Energy  
(Small Hydro Power Division)

Tel. : 24360707  
Fax : 24361298

Block No.14, CGO Complex  
Lodi Road, New Delhi - 110003.  
Dated: 16<sup>th</sup> March, 2007.

To

The Pay & Accounts Officer  
Ministry of New and Renewable Energy  
New Delhi-110003.

Subject: **Setting up of Walidad (700 kW) SHP project in District Jehanabad, Bihar by BHPC, Patna - Sanction of subsidy & release of 1<sup>st</sup> instalment reg.**

Sir,

With reference to the letter Nos. 13 dated 2.1.01, 4261 dated 2.12.06 & 895 dated 28.02.07 from the Bihar State Hydroelectric Power Corporation (BHPC), Patna on the subject mentioned above and in pursuance of this Ministry's 'Scheme for Promotion of Grid Interactive Power Generation projects based on Renewable Energy Sources' for the year 2006-07 as circulated vide MNRE letter No. 14/8/2004-SHP dated 26.12.2006 for setting up SHP projects upto 25 MW station capacity in the government sector, I am directed to convey the sanction of the President for providing MNRE subsidy of Rs. 119.13 lakhs ( Rupees one crores nineteen lakhs and thirteen thousands only ) to the BHPC, Patna for setting up of Walidad (700 kW) Small Hydro Power project in district Jehanabad of Bihar.

2. The total cost of the project has been estimated by the BHPC as Rs. 664.00 lakhs for setting up the above SHP project in district Rohtas of Bihar. Out of total project cost of Rs. 664.00 lakhs, the support of the Ministry will be Rs. 119.13 lakhs or the actual cost of project, whichever is less, as per the provisions in the concerned Scheme. The balance cost of the project over & above eligible MNRE subsidy will be met or borne by the Bihar State Hydroelectric Power Corporation, Patna.

3. I am also directed to convey the sanction of the President for the release of first installment of 25%, amounting to Rs. 30.00 lakhs (Rupees thirty lakhs only) as grants-in-aid within the sanctioned outlay to the BHPC, Patna for incurring expenditure on the above SHP project in district Aurangabad of Bihar, during the current financial year 2006-2007.

4. The amount of Rs. 30.00 lakhs (Rupees thirty lakhs only) will be drawn by the DDO, MNRE from the PAO, MNRE, New Delhi and disbursed to the Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchand Patel Marg, Patna-800001 by an accounts payee demand draft for incurring expenditure on the above mentioned SHP project during the current financial year 2006-07. The release is being made to the Autonomous Body of the State Govt. (Category 'A' as per PAO OM No. PAO/MNES/SANCTION/ 2005-06 dated 11-7-2005).

5. The sanction is further subject to (a) the relevant general terms & conditions of the 'Scheme for Promotion of Grid Interactive Power Generation projects based on Renewable Energy Sources' as circulated vide letter no. 14/8/2004-SHP dated 26.12.2006 including installation of SHP projects upto 25 MW station capacity in the Govt. Sector (b) the progress reports and Utilisation certificates in the prescribed format being submitted by the BHPC, Patna and audited statement of expenditure which should also indicate progressive and matching funds by the BHPC (c) the amount being utilised exclusively on the above SHP project and for works as approved by the Ministry.

Contd.....2/-

151) (276)

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6. The Grantee Organisation is exempted from executing a Bond as required under Govt. of Bihar decision no. 5 (a) under GFR-149. All the terms & conditions of the administrative approval have been followed. The accounts of Grantee Organization shall be open to inspection by the sanctioning authority and audit both by C&AG and the internal audit by the Principal Accounts Office of the Ministry, whenever the organization is called upon to do so.

7. The expenditure is debitable to the following Head of Account: Demand No. 64; 2810 (Major Head) - Non-Conventional Sources of Energy; 60 (Sub-Major Head) - other; 60.600 (Minor Head) - Other Sources of Energy; 03 - Small Hydro Power Development; 03.02 - SHP Promotion Programme; 03.02.31 - Grants-in-aid, for the year 2006-07 (Plan).

8. With the above release of Rs. 30.00 lakhs (Rupees thirty lakhs only), the total amount released on the subject project would be Rs. 30 lakhs against the MNRE sanctioned subsidy of Rs. 119.13 lakhs for the above SHP project.

9. This sanction issues in exercise of delegated powers of the Ministry and with the concurrence of Integrated Finance Division vide their sanction no. IFD/SAN/107/985, 2006-07 dated 15/3/2007.

10. This sanction/expenditure for release of Rs. 30.00 lakhs (Rupees thirty lakhs only) for the above SHP project has been noted at Sl. No. 10 (page No. 331) of the Expenditure Control Register of SHP Division for the year 2006-07.

Yours faithfully,

(A. K. Chopra)  
Director

Copy to: -

1. The Secretary, Energy Dept., Govt. of Bihar, Secretariat, Patna.
2. The Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Bircand Patel Marg, Patna-800001.
3. AG, CW&M-II(Science Audit), DACE Building, I.P.Estate, New Delhi-110 002.
4. AG, Govt. of Bihar, Patna.
5. JS/ Dir(PS)/ Dir(AKC) / US(SHP)/AOFF, MNES.
6. Regional Office, MNES, Patna.
7. Cash Section, MNES.
8. Sanction Folder.

(A. K. Chopra)  
Director





No. 6/151/2004-SHP  
GOVERNMENT OF INDIA  
Ministry of New and Renewable Energy  
(Small Hydro Power Division)

Tel.: 24360707  
Fax: 24361298

Block No.14, CGO Complex  
Lodi Road, New Delhi - 110003.  
Dated: 16<sup>th</sup> March, 2007.

To  
The Pay & Accounts Officer  
Ministry of New and Renewable Energy  
New Delhi-110003.

Subject: **Setting up of Arwal (500 kW) SHP project in District Jehanabad, Bihar by BHPC, Patna - Sanction of subsidy & release of 1<sup>st</sup> instalment reg.**

Sir,

With reference to the letter Nos. 12 dated 2.1.04, 396 dated 25.01.2007 & 895 dated 28.02.07 from the Bihar State Hydroelectric Power Corporation (BHPC), Patna on the subject mentioned above and in pursuance of this Ministry's 'Scheme for Promotion of Grid Interactive Power Generation projects based on Renewable Energy Sources' for the year 2006-07 as circulated vide MNRE letter No. 14/8/2004-SHP dated 26.12.2006 for setting up SHP projects upto 25 MW station capacity in the government sector, I am directed to convey the sanction of the President for providing MNRE subsidy of Rs. 95.86 lakhs (Rupees ninety five lakhs and eighty six thousands only) to the BHPC, Patna for setting up of **Arwal (500 kW) Small Hydro Power project in district Jehanabad of Bihar.**

2. The total cost of the project has been estimated by the BHPC as Rs. 1025.00 lakhs for setting up the above SHP project in district Aurangabad of Bihar. Out of total project cost of Rs. 640.00 lakhs, the support of the Ministry will be Rs. 95.86 lakhs or the actual cost of project, whichever is less, as per the provisions in the concerned Scheme. The balance cost of the project over & above eligible MNRE subsidy will be met or borne by the Bihar State Hydroelectric Power Corporation, Patna.

3. I am also directed to convey the sanction of the President for the release of first installment of 25%, amounting to Rs. 24.00 lakhs (Rupees twenty four lakhs only) as grants-in-aid within the sanctioned outlay to the BHPC, Patna for incurring expenditure on the above SHP project in district Aurangabad of Bihar, during the current financial year 2006-2007.

4. The amount of Rs. 24.00 lakhs (Rupees twenty four lakhs only) will be drawn by the DDO, MNRE from the PAO, MNRE, New Delhi and disbursed to the Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchand Patel Marg, Patna-800001 by an accounts payee demand draft for incurring expenditure on the above mentioned SHP project during the current financial year 2006-07. The release is being made to the Autonomous Body of the State Govt. (Category 'A' as per PAO OM No. PAO/MNES/SANCTION/ 2005-06 dated 11-7-2005).

5. The sanction is further subject to (a) the relevant general terms & conditions of the 'Scheme for Promotion of Grid Interactive Power Generation projects based on Renewable Energy Sources' as circulated vide letter no. 14/8/2004-SHP dated 26.12.2006 including installation of SHP projects upto 25 MW station capacity in the Govt. Sector (b) the progress reports and Utilisation certificates in the prescribed format being submitted by the BHPC, Patna and audited statement of expenditure which should also indicate progressive and matching funds by the BHPC (c) the amount being utilised exclusively on the above SHP project and for works as approved by the Ministry.

Contd.....2/-

6. The Grantee Organisation is exempted from executing a Bond as required under Govt. of India decision no. 5 (a) under GFR-149. All the terms & conditions of the administrative approval have been followed. The accounts of Grantee Organization shall be open to inspection by the sanctioning authority and audit both by C&AG and the internal audit by the Principal Accounts Office of the Ministry; whenever the organization is called upon to do so.

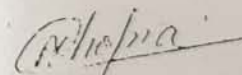
7. The expenditure is debitable to the following Head of Account: Demand No. 64; 2810 (Major Head) - Non-Conventional Sources of Energy; 60 (Sub-Major Head) - other; 60.600 (Minor Head) - Other Sources of Energy; 03 - Small Hydro Power Development; 03.02 - SHP Promotion Programme; 03.02.31 - Grants-in-aid, for the year 2006-07 (Plan).

8. With the above release of Rs. 24.00 lakhs (Rupees twenty four lakhs only), the total amount released on the subject project would be Rs. 24 lakhs against the MNRE sanctioned subsidy of Rs. 95.86 lakhs for the above SHP project.

9. This sanction issues in exercise of delegated powers of the Ministry and with the concurrence of Integrated Finance Division vide their sanction no. IFD/SAN/107/990/2006-07 dated 15/3/2007.

10. This sanction/expenditure for release of Rs. 24.00 lakhs (Rupees twenty four lakhs only) for the above SHP project has been noted at Sl. No. 11 (page No. 332) of the Expenditure Control Register of SIIP Division for the year 2006-07.

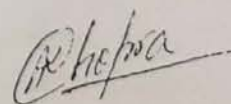
Yours faithfully,



(A. K. Chopra)  
Director

Copy to: -

1. The Secretary, Energy Dept., Govt. of Bihar, Secretariat, Patna.
2. The Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchand Patel Marg, Patna-800001.
3. AG, CW&M-II(Science Audit), DACR Building, I.P.Estate, New Delhi-110 002.
4. AG, Govt. of Bihar, Patna.
5. JS/ Dir(PS)/ Dir(AKC )/ US(SHP)/AO(F), MNES.
6. Regional Office, MNES, Patna.
7. Cash Section, MNES.
8. Sanction Folder.



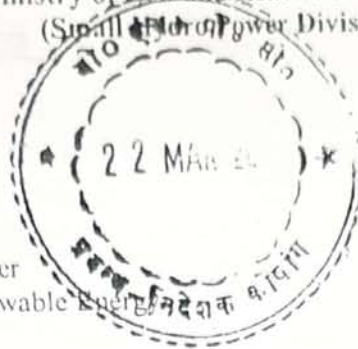
(A. K. Chopra)  
Director



No. 6/157/2004-SHP  
GOVERNMENT OF INDIA  
Ministry of New and Renewable Energy  
(Small Hydro Power Division)

Tel. : 24360707  
Fax : 24361298

Block No.14, CGO Complex  
Lodi Road, New Delhi - 110003.  
Dated: 16<sup>th</sup> March, 2007.



To

The Pay & Accounts Officer  
Ministry of New and Renewable Energy  
New Delhi-110003.

Subject: Setting up of Shirkhinda (700 kW) SHP project in District Rohtas, Bihar by BHPC, Patna -  
Sanction of subsidy & release of 1<sup>st</sup> instalment reg.

Sir,

With reference to the letter Nos. 207 dated 19.1.04, 236 dated 10.01.2007 & 895 dated 28.02.07 from the Bihar State Hydroelectric Power Corporation (BHPC), Patna on the subject mentioned above and in pursuance of this Ministry's 'Scheme for Promotion of Grid Interactive Power Generation projects based on Renewable Energy Sources' for the year 2006-07 as circulated vide MNRE letter No. 14/8/2004-SHP dated 26.12.2006 for setting up SHP projects upto 25 MW station capacity in the government sector, I am directed to convey the sanction of the President for providing MNRE subsidy of Rs. 119.13 lakhs ( Rupees one crores nineteen lakhs and thirteen thousands only ) to the BHPC, Patna for setting up of Shirkhinda (700 kW) Small Hydro Power project in district Rohtas of Bihar.

2. The total cost of the project has been estimated by the BHPC as Rs. 789.00 lakhs for setting up the above SHP project in district Rohtas of Bihar. Out of total project cost of Rs. 789.00 lakhs, the support of the Ministry will be Rs. 119.13 lakhs or the actual cost of project, whichever is less, as per the provisions in the concerned Scheme. The balance cost of the project over & above eligible MNRE subsidy will be met or borne by the Bihar State Hydroelectric Power Corporation, Patna.

3. I am also directed to convey the sanction of the President for the release of first installment of 25%, amounting to Rs. 30.00 lakhs (Rupees thirty lakhs only) as grants-in-aid within the sanctioned outlay to the BHPC, Patna for incurring expenditure on the above SHP project in district Aurangabad of Bihar, during the current financial year 2006-2007.

4. The amount of Rs. 30.00 lakhs (Rupees thirty lakhs only) will be drawn by the DDO, MNRE from the PAO, MNRE, New Delhi and disbursed to the Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchand Patel Marg, Patna-800001 by an accounts payee demand draft for incurring expenditure on the above mentioned SHP project during the current financial year 2006-07. The release is being made to the Autonomous Body of the State Govt. (Category 'A' as per PAO OM No. PAO/MNES/SANCTION/ 2005-06 dated 11-7-2005).

5. The sanction is further subject to (a) the relevant general terms & conditions of the 'Scheme for Promotion of Grid Interactive Power Generation projects based on Renewable Energy Sources' as circulated vide letter no. 14/8/2004-SHP dated 26.12.2006 including installation of SHP projects upto 25 MW station capacity in the Govt. Sector (b) the progress reports and Utilisation certificates in the prescribed format being submitted by the BHPC, Patna and audited statement of expenditure which should also indicate progressive and matching funds by the BHPC (c) the amount being utilised exclusively on the above SHP project and for works as approved by the Ministry.

Contd.....2/-

6. The Grantee Organisation is exempted from executing a Bond as required under Govt. of India decision no. 5 (a) under GFR-140. All the terms & conditions of the administrative approval have been followed. The accounts of Grantee Organization shall be open to inspection by the sanctioning authority and audit both by C&AG and the internal audit by the Principal Accounts Office of the Ministry, whenever the organization is called upon to do so.

7. The expenditure is debitable to the following Head of Account: Demand No. 64; 2810 (Major Head) - Non-Conventional Sources of Energy; 60 (Sub-Major Head) - other; 60.600 (Minor Head) - Other Sources of Energy; 03 - Small Hydro Power Development; 03.02 - SHP Promotion Programme; 03.02.31 - Grants-in-aid, for the year 2006-07 (Plan).

8. With the above release of Rs. 30.00 lakhs (Rupees thirty lakhs only), the total amount released on the subject project would be Rs. 30 lakhs against the MNRE sanctioned subsidy of Rs. 119.13 lakhs for the above SHP project.

9. This sanction issues in exercise of delegated powers of the Ministry and with the concurrence of Integrated Finance Division vide their sanction no. IFD/SAN/107/986/2006-07 dated 15/3/2007.

10. This sanction/expenditure for release of Rs. 30.00 lakhs (Rupees thirty lakhs only) for the above SHP project has been noted at Sl. No. 12 (page No. 332) of the Expenditure Control Register of SHP Division for the year 2006-07.

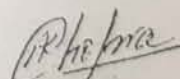
Yours faithfully,



(A. K. Chopra)  
Director

Copy to: -

1. The Secretary, Energy Dept., Govt. of Bihar, Secretariat, Patna.
2. The Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchand Patel Marg, Patna-800001.
3. AG, CW&M-II (Science Audit), DACR Building, I.P. Estate, New Delhi-110 002.
4. AG, Govt. of Bihar, Patna.
5. JS/ Dir(PS)/ Dir(AKC)/ US(SHP)/AO(F), MNES.
6. Regional Office, MNES, Patna.
7. Cash Section, MNES.
8. Sanction Folder.



(A. K. Chopra)  
Director





No. 6/155/2004-SHP  
GOVERNMENT OF INDIA  
Ministry of New and Renewable Energy  
(Small Hydro Power Division)

Tel. : 24360707  
Fax : 24361298

Block No.14, CGO Complex  
Lodi Road, New Delhi - 110003.  
Dated: 16<sup>th</sup> March, 2007. /

To

The Pay & Accounts Officer  
Ministry of New and Renewable Energy  
New Delhi-110003.

Subject: **Setting up of Rajapur (700 kW) SHP project in District Supaul, Bihar by BHPC, Patna**  
**Sanction of subsidy & release of 1<sup>st</sup> instalment reg.**

Sir,

With reference to the letter Nos. 57 dated 8.1.04, 237 dated 10.01.2007 & 895 dated 28.02.07 from the Bihar State Hydroelectric Power Corporation (BHPC), Patna on the subject mentioned above and in pursuance of this Ministry's 'Scheme for Promotion of Grid Interactive Power Generation projects based on Renewable Energy Sources' for the year 2006-07 as circulated vide MNRE letter No. 14/8/2004-SHP dated 26.12.2006 for setting up SHP projects upto 25 MW station capacity in the government sector, I am directed to convey the sanction of the President for providing MNRE subsidy of Rs. 119.13 lakhs ( Rupees one crore nineteen lakhs and thirteen thousands only ) to the BHPC, Patna for setting up of **Rajapur (700 kW) Small Hydro Power project in district Supaul of Bihar.**

2. The total cost of the project has been estimated by the BHPC as Rs. 774.50 lakhs for setting up the above SHP project in district Rohtas of Bihar. Out of total project cost of Rs. 774.50 lakhs, the support of the Ministry will be Rs. 119.13 lakhs or the actual cost of project, whichever is less, as per the provisions in the concerned Scheme. The balance cost of the project over & above eligible MNRE subsidy will be met or born by the Bihar State Hydroelectric Power Corporation, Patna.

3. I am also directed to convey the sanction of the President for the release of first installment of 25% amounting to Rs. 30.00 lakhs (Rupees thirty lakhs only) as grants-in-aid within the sanctioned outlay to the BHPC, Patna for incurring expenditure on the above SHP project in district Aurangabad of Bihar, during the current financial year 2006-2007.

4. The amount of Rs. 30.00 lakhs (Rupees thirty lakhs only) will be drawn by the DDO, MNRE from the PAO, MNRE, New Delhi and disbursed to the Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchand Patel Marg, Patna-800001 by an accounts payee demand draft for incurring expenditure on the above mentioned SHP project during the current financial year 2006-07. The release is being made to the Autonomous Body of the State Govt. (Category 'A' as per PAO OM N PAO/MNES/SANCTION/ 2005-06 dated 11-7-2005).

5. The sanction is further subject to (a) the relevant general terms & conditions of the 'Scheme for Promotion of Grid Interactive Power Generation projects based on Renewable Energy Sources' as circulated vide letter no. 14/8/2004-SHP dated 26.12.2006 including installation of SHP projects upto 25 MW station capacity in the Govt. Sector (b) the progress reports and Utilisation certificates in the prescribed format being submitted by the BHPC, Patna and audited statement of expenditure which should also indicate progress and matching funds by the BHPC (c) the amount being utilised exclusively on the above SHP project and for works as approved by the Ministry.

Contd.....

133 279

6. The Grantee Organisation is exempted from executing a Bond as required under Govt. of India decision no. 5 (a) under GFR-149. All the terms & conditions of the administrative approval have been followed. The accounts of Grantee Organization shall be open to inspection by the sanctioning authority and audit both by C&AG and the internal audit by the Principal Accounts Office of the Ministry, whenever the organization is called upon to do so.

7. The expenditure is debitable to the following Head of Account: Demand No. 64; 2810 (Major Head) - Non-Conventional Sources of Energy; 60 (Sub-Major Head) - other; 60.600 (Minor Head) - Other Sources of Energy; 03 - Small Hydro Power Development; 03.02 - SHP Promotion Programme; 03.02.31 - Grants-in-aid, for the year 2006-07 (Plan).

8. With the above release of Rs. 30.00 lakhs (Rupees thirty lakhs only), the total amount released on the subject project would be Rs. 30 lakhs against the MNRE sanctioned subsidy of Rs. 119.13 lakhs for the above SHP project.

9. This sanction issues in exercise of delegated powers of the Ministry and with the concurrence of Integrated Finance Division vide their sanction no. IFD/SAN/107/988/2006-07 dated 15/3/2007.

10. This sanction/expenditure for release of Rs. 30.00 lakhs (Rupees thirty lakhs only) for the above SHP project has been noted at Sl. No. 9 (page No. 331) of the Expenditure Control Register of SHP Division for the year 2006-07.

Yours faithfully,

(A. K. Chopra)  
Director

Copy to: -

1. The Secretary, Energy Dept., Govt. of Bihar, Secretariat, Patna.
- ✓ 2. The Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchand Patel Marg, Patna-800001.
3. AG, CW&M-II(Science Audit), DACR Building, I.P.Estate, New Delhi-110 002.
4. AG, Govt. of Bihar, Patna.
5. JS/ Dir(PS)/ Dir(AKC) / US(SHP)/AO(F), MNES.
6. Regional Office, MNES, Patna.
7. Cash Section, MNES.
8. Sanction Folder.

(A. K. Chopra)  
Director





No. 6/162/2004-SHP  
GOVERNMENT OF INDIA  
Ministry of New and Renewable Energy  
(Small Hydro Power Division)

Tel. : 24360707  
Fax : 24361298

Block No.14, CGO Complex  
Lodi Road, New Delhi - 110003.  
Dated: 16<sup>th</sup> March, 2007.

To  
The Pay & Accounts Officer  
Ministry of New and Renewable Energy  
New Delhi-110003.

Subject: Setting up of Sebari (1.00 MW) SHP project in District Rohtas, Bihar by BHPC, Patna -  
Sanction of subsidy & release of 1<sup>st</sup> instalment reg.

Sir,

With reference to the letter Nos. 208 dated 19.1.04, 4260 dated 2.12.2006 & 895 dated 28.02.07 from the Bihar State Hydroelectric Power Corporation (BHPC), Patna on the subject mentioned above and in pursuance of this Ministry's 'Scheme for Promotion of Grid Interactive Power Generation projects based on Renewable Energy Sources' for the year 2006-07 as circulated vide MNRE letter No. 14/8/2004-SHP dated 26.12.2006 for setting up SHP projects upto 25 MW station capacity in the government sector, I am directed to convey the sanction of the President for providing MNRE subsidy of Rs. 150.00 lakhs (Rupees one crores fifty lakhs only) to the BHPC, Patna for setting up of Sebari (1.00 MW) Small Hydro Power project in district Rohtas of Bihar.

2. The total cost of the project has been estimated by the BHPC as Rs. 809.00 lakhs for setting up the above SHP project in district Rohtas of Bihar. Out of total project cost of Rs. 809.00 lakhs, the support of the Ministry will be Rs. 150 lakhs or the actual cost of project, whichever is less, as per the provisions in the concerned Scheme. The balance cost of the project over & above eligible MNRE subsidy will be met or borne by the Bihar State Hydroelectric Power Corporation, Patna.

3. I am also directed to convey the sanction of the President for the release of first instalment of 25%, amounting to Rs. 37.50 lakhs (Rupees thirty seven lakhs and fifty thousand only) as grants-in-aid within the sanctioned outlay to the BHPC, Patna for incurring expenditure on the above SHP project in district Aurangabad of Bihar, during the current financial year 2006-2007.

4. The amount of Rs. 37.50 lakhs (Rupees thirty seven lakhs and fifty thousand only) will be drawn by the DDO, MNRE from the PAO, MNRE, New Delhi and disbursed to the Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bihawan, Birchand Patel Marg, Patna-800001 by an accounts payee demand draft for incurring expenditure on the above mentioned SHP project during the current financial year 2006-07. The release is being made to the Autonomous Body of the State Govt. (Category 'A' as per PAO OM No. PAO/MNES/SANCTION/ 2005-06 dated 11-7-2005).

5. The sanction is further subject to (a) the relevant general terms & conditions of the 'Scheme for Promotion of Grid Interactive Power Generation projects based on Renewable Energy Sources' as circulated vide letter no. 14/8/2004-SHP dated 26.12.2006 including installation of SHP projects upto 25 MW station capacity in the Govt. Sector (b) the progress reports and Utilisation certificates in the prescribed format being submitted by the BHPC, Patna and audited statement of expenditure which should also indicate progressive and matching funds by the BHPC (c) the amount being utilised exclusively on the above SHP project and the works as approved by the Ministry.

6. The Grantee Organisation is exempted from executing a Bond as required under Govt. of India decision no. 5 (a) under GFR-149. All the terms & conditions of the administrative approval have been followed. The accounts of Grantee Organization shall be open to inspection by the sanctioning authority and audit both by C&AG and the internal audit by the Principal Accounts Office of the Ministry, whenever the organization is called upon to do so.

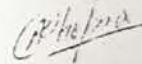
7. The expenditure is debitable to the following Head of Account: Demand No. 64; 2810 (Major Head) - Non-Conventional Sources of Energy; 60 (Sub-Major Head) - other; 60.600 (Minor Head) - Other Sources of Energy; 03 - Small Hydro Power Development; 03.01.31 - Grants-in-aid, for the year 2006-07 (Plan).

8. With the above release of Rs. 37.50 lakhs (Rupees thirty seven lakhs and fifty thousand only), the total amount released on the subject project would be Rs. 37.50 lakhs against the MNRE sanctioned subsidy of Rs. 150 lakhs for the above SHP project.

9. This sanction issues in exercise of delegated powers of the Ministry and with the concurrence of Integrated Finance Division vide their sanction no. IFD/SAN/107/987/2006-07 dated 15/3/2007.

10. This sanction/expenditure for release of Rs. 37.50 lakhs (Rupees thirty seven lakhs and fifty thousand only) for the above SHP project has been noted at Sl. No. 52 (page No. 340) of the Expenditure Control Register of SHP Division for the year 2006-07.

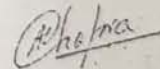
Yours faithfully,



(A. K. Chopra)  
Director

Copy to: -

1. The Secretary, Energy Dept., Govt. of Bihar, Secretariat, Patna.
2. The Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchana, Patel Marg, Patna-800001.
3. AG, C&M-II(Science Audit), DACR Building, I.P.Estate, New Delhi-110 002.
4. AG, Govt. of Bihar, Patna.
5. JS/ Dir(PS)/ Dir(AKC)/ US(SHP)/AO(F), MNES.
6. Regional Office, MNES, Patna.
7. Cash Section, MNES.
8. Sanction Folder.



(A. K. Chopra)  
Director



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5. The expenditure is debitable to the following Head of Account: Demand No. 67; 2810 (Major Head) – Non-Conventional Sources of Energy; 60 – Others (Sub-Major Head); 60.600 – Other Sources of Energy (Minor Head); 03 – Small Hydro Power Development; 03.02 – SHP Promotion Programme; 03.02.33 – Subsidies, for the year 2008-09 (Plan).

6. With the above release of Rs. 59,56,500/- (Rupees fifty nine lakhs fifty six thousand and five hundred only), the total amount released on the subject project would be Rs. 89.565 lakhs against the MNRE sanctioned subsidy of Rs. 119.13 lakhs for the above SHP project.

7. This sanction issues in exercise of delegated powers of the Ministry and with the concurrence of Integrated Finance Division vide their sanction no. IFD/SAN/109/470/2008-09 dated 24/9/2008.

8. This sanction/expenditure for release of Rs. 59,56,500/- (Rupees fifty nine lakhs fifty six thousand and five hundred only) for the above SHP project has been noted at Sl. No. 5 (page No. 47) of the Expenditure Control Register of SHP Division for the year 2008-09.

Yours faithfully,

(A. K. Joshi)

Under Secretary to the Govt. of India

Copy to: -

- i) The Secretary, Energy Dept., Govt. of Bihar, Secretariat, Patna.
- ii) The Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchand Patel Marg, Patna-800001.
- iii) AG, CW&M-II (Science Audit), DACR Building, I.P. Estate, New Delhi-110 002.
- iv) AG, Govt. of Bihar, Patna.
- v) Advisor(SHP)/ Dir(PS)/ Dir(AKC) / US(SHP)/AO(F), MNRE.
- vi) Cash Section, MNRE (4 copies).
- vii) Sanction Folder:

(A. K. Joshi)

Under Secretary to the Govt. of India



No. 6/151/2004-SHP  
GOVERNMENT OF INDIA  
Ministry of New and Renewable Energy  
(Small Hydro Power Division)

Tel. : 24360707  
Fax : 24361298

Block No.14, CGO Complex  
Lodi Road, New Delhi - 110003

Dated: 27<sup>th</sup> February, 2008.

To

The Pay & Accounts Officer  
Ministry of New and Renewable Energy  
New Delhi-110003.

Subject: Setting up of Arwal (500 KW) SHP project in District Jehanabad, Bihar by the Bihar State Hydroelectric Power Corporation, Patna - Release of 2<sup>nd</sup> & 3<sup>rd</sup> instalments of MNRE subsidy reg.

Sir,

With reference to the letter Nos. 417 dated 28.1.08 & 734 dated 18.02.08 from the Bihar State Hydroelectric Power Corporation (BHPC), Patna on the subject mentioned above and in continuation of this Ministry's letter of even no. dated 16<sup>th</sup> March 2007, I am directed to convey the sanction of the President for the release of 2<sup>nd</sup> & 3<sup>rd</sup> installments amounting to Rs. 47,93,000/- (Rupees forty seven lakhs and ninty three thousand only) i.e. 50%, as grants-in-aid within the sanctioned outlay to the Bihar State Hydroelectric Power Corporation, Patna for incurring expenditure on the above SHP project in district Jahanabad of Bihar, during the current financial year 2007-2008.

2. The amount of Rs. 47,93,000/- (Rupees forty seven lakhs and ninty three thousand only) will be drawn by the DDO, MNRE from the PAO, MNRE, New Delhi and disbursed to the Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchand Patel Marg, Patna-800001 by an accounts payee demand draft for incurring expenditure on the above mentioned SHP project during the current financial year 2006-07. The release is being made to the Autonomous Body of the State Govt. (Category 'A' as per PAO OM No. PAO/MNES/SANCTION/ 2005-06 dated 11-7-2005).

3. The other terms and conditions will remain the same as already conveyed vide sanction letter of even number dated 16<sup>th</sup> March 2007 and the general terms & conditions of the relevant Scheme of SHP programme circulated vide letter No. 14/8/2004-SHP dated 26.12.2006. The sanction is further subject to (a) the quarterly progress reports and Utilisation certificates in the prescribed format being submitted by the BHPC by 30<sup>th</sup> September 2008 and audited statement of expenditure which should also indicate progressive and matching funds by the BHPC (b) the amount being utilised exclusively for the above SHP project and for works as approved by MNRE.

4. The Grantee Organisation is exempted from executing a Bond as required under Govt. of India decision no. 5 (a) under GFR-149. All the terms & conditions of the administrative approval have been followed. The accounts of Grantee Organization shall be open to inspection by the sanctioning authority and audit both by C&AG and the internal audit by the Principal Accounts Office of the Ministry, whenever the organization is called upon to do so.

.....2/-

5. The expenditure involved will be debitable to Head of Account: Demand No. 65-MNRE, 2810-Non-Conventional Sources of Energy (Major Head); 60-Other (Sub-Major Head); 60.600-Other Sources of Energy (Minor Head); 03-Small Hydro Power Development; 03.02-SHP Promotion Programme; 03.02.33-Subsidies, for the year 2007-08 (Plan).

6. With the above release of Rs. 47,93,000/- (Rupees forty seven lakhs and ninety three thousand only), the total amount released on the subject project would be Rs. 71.93 lakhs against the MNRE sanctioned subsidy of Rs. 95.86 lakhs for the above SHP project.

7. This sanction issues in exercise of delegated powers of the Ministry and with the concurrence of Integrated Finance Division vide their sanction no. IFD/SAN/108/932/2007-08 dated 27/2/2008.

8. This sanction/expenditure for release of Rs. 47,93,000/- (Rupees forty seven lakhs and ninety three thousand only) for the above SHP project has been noted at Sl. No. 13 (page No. 17) of the Expenditure Control Register of SHP Division for the year 2007-08.

Yours faithfully,

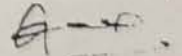


(S. S. BEDI)

Under Secretary to the Govt. of India

Copy to: -

- i) The Secretary, Energy Dept., Govt. of Bihar, Secretariat, Patna.
- ii) The Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchand Patel Marg, Patna-800001.
- iii) AG, CW&M-II(Science Audit), DACR Building, I.P.Estate, New Delhi-110 002.
- iv) AG, Govt. of Bihar, Patna.
- v) Advisor/ Dir(PS)/ Dir(AKC) / US(SHP)/AO(F), MNRE.
- vi) Regional Office, MNRE, Patna.
- vii) Cash Section, MNRE (4 copies).
- viii) Sanction Folder.



(S. S. BEDI)

Under Secretary to the Govt. of India



76

No. 6/160/2004-SHP  
GOVERNMENT OF INDIA  
Ministry of New and Renewable Energy  
(Small Hydro Power Division)

Tel. : 24360707  
Fax : 24361298

Block No.14, CGO Complex  
Lodi Road, New Delhi - 110003

Dated: 27<sup>th</sup> February, 2008.

To  
The Pay & Accounts Officer  
Ministry of New and Renewable Energy  
New Delhi-110003.

Subject: Setting up of Belsar (1.00 MW) SHP project in District Jehanabad, Bihar by the Bihar State Hydroelectric Power Corporation, Patna - Release of 2<sup>nd</sup> & 3<sup>rd</sup> instalments of MNRE subsidy reg.

Sir,

With reference to the letter Nos. 416 dated 28.1.08 & 735 dated 18.02.08 from the Bihar State Hydroelectric Power Corporation (BHPC), Patna on the subject mentioned above and in continuation of this Ministry's letters of even no. dated 16<sup>th</sup> March 2007, I am directed to convey the sanction of the President for the release of 2<sup>nd</sup> & 3<sup>rd</sup> installments amounting to Rs. 75,00,000/- (Rupees seventy five lakhs only) i.e. 50%, as grants-in-aid within the sanctioned outlay to the Bihar State Hydroelectric Power Corporation, Patna for incurring expenditure on the above SHP project in district Jahanabad of Bihar, during the current financial year 2007-2008.

2. The amount of Rs. 75,00,000/- (Rupees seventy five lakhs only) will be drawn by the DDO, MNRE from the PAO, MNRE, New Delhi and disbursed to the Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchand Patel Marg, Patna-800001 by an accounts payee demand draft for incurring expenditure on the above mentioned SHP project during the current financial year 2006-07. The release is being made to the Autonomous Body of the State Govt. (Category 'A' as per PAO OM No. PAO/MNES/SANCTION/ 2005-06 dated 11-7-2005).

3. The other terms and conditions will remain the same as already conveyed vide sanction letter of even number dated 16<sup>th</sup> March 2007 and the general terms & conditions of the relevant Scheme of SHP programme circulated vide letter No. 14/8/2004-SHP dated 26.12.2006. The sanction is further subject to (a) the quarterly progress reports and Utilisation certificates in the prescribed format being submitted by the BHPC by 30<sup>th</sup> September 2008 and audited statement of expenditure which should also indicate progressive and matching funds by the BHPC (b) the amount being utilised exclusively for the above SHP project and for works as approved by MNRE.

4. The Grantee Organisation is exempted from executing a Bond as required under Govt. of India decision no. 5 (a) under GFR-149. All the terms & conditions of the administrative approval have been followed. The accounts of Grantee Organization shall be open to inspection by the sanctioning authority and audit both by C&AG and the internal audit by the Principal Accounts Office of the Ministry, whenever the organization is called upon to do so.

.....2/-


5. The expenditure involved will be debitable to Head of Account: Demand No. 65-MNRE, 2810-Non-Conventional Sources of Energy (Major Head); 60-Other (Sub-Major Head); 60.600-Other Sources of Energy (Minor Head); 03-Small Hydro Power Development; 03.02-SHP Promotion Programme; 03.02.33-Subsidies, for the year 2007-08 (Plan).

6. With the above release of Rs. 75,00,000/- (Rupees seventy five lakhs only), the total amount released on the subject project would be Rs. 112.50 lakhs against the MNRE sanctioned subsidy of Rs. 150.00 lakhs for the above SHP project.

7. This sanction issues in exercise of delegated powers of the Ministry and with the concurrence of Integrated Finance Division vide their sanction no. IFD/SAN/108/90/2007-08 dated 27/2/2008.

8. This sanction/expenditure for release of Rs. 75,00,000/- (Rupees seventy five lakhs only) for the above SHP project has been noted at Sl. No. 15 (page No. 17) of the Expenditure Control Register of SHP Division for the year 2007-08.

Yours faithfully,



(S. S. BEDI)

Under Secretary to the Govt. of India

Copy to: -

- i) The Secretary, Energy Dept., Govt. of Bihar, Secretariat, Patna.
- ii) The Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchand Patel Marg, Patna-800001.
- iii) AG, CW&M-II(Science Audit), DACR Building, I.P.Estate, New Delhi-110 002.
- iv) AG, Govt. of Bihar, Patna.
- v) Advisor/ Dir(PS)/ Dir(AKC) / US(SHP)/AO(F), MNRE.
- vi) Regional Office, MNRE, Patna.
- vii) Cash Section, MNRE (4 copies).
- viii) Sanction Folder.



(S. S. BEDI)

Under Secretary to the Govt. of India



No. 6/165/2004-SHP  
GOVERNMENT OF INDIA  
Ministry of New and Renewable Energy  
(Small Hydro Power Division)

Block No. 14, CGO Complex  
Lodi Road, New Delhi - 110003

Tel. : 24360707  
Fax : 24361298

Dated: 27<sup>th</sup> February, 2008.

To  
The Pay & Accounts Officer  
Ministry of New and Renewable Energy  
New Delhi-110003.

Subject: Setting up of Tejpura (1.50 MW) SHP project in District Aurangabad, Bihar by the Bihar State Hydroelectric Power Corporation, Patna - Release of 2<sup>nd</sup> & 3<sup>rd</sup> instalments of MNRE subsidy reg.

Sir,  
With reference to the letter Nos. 420 dated 28.1.08 & 731 dated 18.02.08 from the Bihar State Hydroelectric Power Corporation (BHPC), Patna on the subject mentioned above and in continuation of this Ministry's letter of even no. dated 16<sup>th</sup> March 2007, I am directed to convey the sanction of the President for the release of 2<sup>nd</sup> & 3<sup>rd</sup> instalments amounting to Rs. 97,50,000/- (Rupees ninty seven lakhs and fifty thousand only) i.e. 50%, as grants-in-aid within the sanctioned outlay to the Bihar State Hydroelectric Power Corporation, Patna for incurring expenditure on the above SHP project in district Aurangabad of Bihar, during the current financial year 2007-2008.

2. The amount of Rs. 97,50,000/- (Rupees ninty seven lakhs and fifty thousand only) will be drawn by the DDO, MNRE from the PAO, MNRE, New Delhi and disbursed to the Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchand Patel Marg, Patna-800001 by an accounts payee demand draft for incurring expenditure on the above mentioned SHP project during the current financial year 2006-07. The release is being made to the Autonomous Body of the State Govt. (Category 'A' as per PAO OM No. PAO/MNES/SANCTION/ 2005-06. dated 11-7-2005).

3. The other terms and conditions will remain the same as already conveyed vide sanction letter of even number dated 16<sup>th</sup> March 2007 and the general terms & conditions of the relevant Scheme of SHP programme circulated vide letter No. 14/8/2004-SHP dated 26.12.2006. The sanction is further subject to (a) the quarterly progress reports and Utilisation certificates in the prescribed format being submitted by the BHPC by 30<sup>th</sup> September 2008 and audited statement of expenditure which should also indicate progressive and matching funds by the BHPC (b) the amount being utilised exclusively for the above SHP project and for works as approved by MNRE.

4. The Grantee Organisation is exempted from executing a Bond as required under Govt. of India decision no. 5 (a) under GFR-149. All the terms & conditions of the administrative approval have been followed. The accounts of Grantee Organization shall be open to inspection by the sanctioning authority and audit both by C&AG and the internal audit by the Principal Accounts Office of the Ministry, whenever the organization is called upon to do so.

.....2/-

The expenditure involved will be debitable to Head of Account: Demand No. 65-MNRE, 2810-Non-Conventional Sources of Energy (Major Head); 60-Other (Sub-Major Head); 60.600-Other Sources of Energy (Minor Head); 03-Small Hydro Power Development; 03.02-SHP Promotion Programme; 03.02.33-Subsidies, for the year 2007-08 (Plan).

6. With the above release of Rs. 97,50,000/- (Rupees ninty seven lakhs and fifty thousand only), the total amount released on the subject project would be Rs. 146.25 lakhs against the MNRE sanctioned subsidy of Rs. 195.00 lakhs for the above SHP project.

7. This sanction issues in exercise of delegated powers of the Ministry and with the concurrence of Integrated Finance Division vide their sanction no. IFD/SAN/108/933/2007-08 dated 27/2/2008.

8. This sanction/expenditure for release of Rs. 97,50,000/- (Rupees ninty seven lakhs and fifty thousand only) for the above SHP project has been noted at Sl. No. 12 (page No. 17) of the Expenditure Control Register of SHP Division for the year 2007-08.

Yours faithfully,



(S. S. BEDI)

Under Secretary to the Govt. of India

Copy to: -

- i) The Secretary, Energy Dept., Govt. of Bihar, Secretariat, Patna.
- ii) The Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchand Patel Marg, Patna-800001.
- iii) AG, CW&M-II(Science Audit), DACR Building, I.P.Estate, New Delhi-110 002.
- iv) AG, Govt. of Bihar, Patna.
- v) Advisor/ Dir(PS)/ Dir(AKC)/ US(SHP)/AO(F), MNRE.
- vi) Regional Office, MNRE, Patna.
- vii) Cash Section, MNRE (4 copies).
- viii) Sanction Folder.



(S. S. BEDI)

Under Secretary to the Govt. of India



No. 6/162/2004-SHP  
GOVERNMENT OF INDIA  
Ministry of New and Renewable Energy  
(Small Hydro Power Division)

Tel. : 24360707  
Fax : 24361298

Block No.14, CGO Complex  
Lodi Road, New Delhi - 110003

Dated: 27<sup>th</sup> February, 2008.

To  
The Pay & Accounts Officer  
Ministry of New and Renewable Energy  
New Delhi-110003.

Subject: Setting up of Sebari (1.00 MW) SHP project in District Rohtas, Bihar by the Bihar State Hydroelectric Power Corporation, Patna - Release of 2<sup>nd</sup> & 3<sup>rd</sup> instalments of MNRE subsidy reg.

Sir,

With reference to the letter Nos. 419 dated 28.1.08 & 736 dated 18.02.08 from the Bihar State Hydroelectric Power Corporation (BHPC), Patna on the subject mentioned above and in continuation of this Ministry's letters of even no. dated 16<sup>th</sup> March 2007, I am directed to convey the sanction of the President for the release of 2<sup>nd</sup> & 3<sup>rd</sup> installments amounting to Rs. 75,00,000/- (Rupees seventy five lakhs only) i.e. 50%, as grants-in-aid within the sanctioned outlay to the Bihar State Hydroelectric Power Corporation, Patna for incurring expenditure on the above SHP project in district Rohtas of Bihar, during the current financial year 2007-2008.

2. The amount of Rs. 75,00,000/- (Rupees seventy five lakhs only) will be drawn by the DDO, MNRE from the PAO, MNRE, New Delhi and disbursed to the Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchand Patel Marg, Patna-800001 by an accounts payee demand draft for incurring expenditure on the above mentioned SHP project during the current financial year 2006-07. The release is being made to the Autonomous Body of the State Govt. (Category 'A' as per PAO OM No. PAO/MNES/SANCTION/ 2005-06 dated 11-7-2005).

3. The other terms and conditions will remain the same as already conveyed vide sanction letter of even number dated 16<sup>th</sup> March 2007 and the general terms & conditions of the relevant Scheme of SHP programme circulated vide letter No. 14/8/2004-SHP dated 26.12.2006. The sanction is further subject to (a) the quarterly progress reports and Utilisation certificates in the prescribed format being submitted by the BHPC by 30<sup>th</sup> September 2008 and audited statement of expenditure which should also indicate progressive and matching funds by the BHPC (b) the amount being utilised exclusively for the above SHP project and for works as approved by MNRE.

4. The Grantee Organisation is exempted from executing a Bond as required under Govt. of India decision no. 5 (a) under GFR-149. All the terms & conditions of the administrative approval have been followed. The accounts of Grantee Organization shall be open to inspection by the sanctioning authority and audit both by C&AG and the internal audit by the Principal Accounts Office of the Ministry, whenever the organization is called upon to do so.

.....2/-

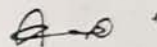
5. The expenditure involved will be debitable to Head of Account: Demand No. 65-MNRE, 2810-Non-Conventional Sources of Energy (Major Head); 60-Other (Sub-Major Head); 60.600-Other Sources of Energy (Minor Head); 03-Small Hydro Power Development; 03.02-SHP Promotion Programme; 03.02.35-Subsidies, for the year 2007-08 (Plan).

6. With the above release of Rs. 75,00,000/- (Rupees seventy five lakhs only), the total amount released on the subject project would be Rs. 112.50 lakhs against the MNRE sanctioned subsidy of Rs. 150.00 lakhs for the above SHP project.

7. This sanction issues in exercise of delegated powers of the Ministry and with the concurrence of Integrated Finance Division vide their sanction no. IFD/SAN/108/929/2007-08 dated 27/2/2008.

8. This sanction/expenditure for release of Rs. 75,00,000/- (Rupees seventy five lakhs only) for the above SHP project has been noted at Sl. No. 10 (page No. 17) of the Expenditure Control Register of SHP Division for the year 2007-08.

Yours faithfully,

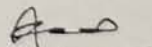


(S. S. BEDI)

Under Secretary to the Govt. of India

Copy to: -

- i) The Secretary, Energy Dept., Govt. of Bihar, Secretariat, Patna.
- ii) The Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchand Patel Marg, Patna-800001.
- iii) AG, CW&M-II(Science Audit), DACR Building, I.P.Estate, New Delhi-110 002.
- iv) AG, Govt. of Bihar, Patna.
- v) Advisor/ Dir(PS)/ Dir(AKC)/ US(SHP)/AO(F), MNRE.
- vi) Regional Office, MNRE, Patna.
- vii) Cash Section, MNRE (4 copies).
- viii) Sanction Folder.



(S. S. BEDI)

Under Secretary to the Govt. of India



No. 6/170/2004-SHP  
GOVERNMENT OF INDIA  
Ministry of New and Renewable Energy  
(Small Hydro Power Division)

Tel. : 24360707  
Fax : 24361298

Block No.14, CGO Complex  
Lodi Road, New Delhi - 110003

Dated: 26<sup>th</sup> March, 2008.

To

The Pay & Accounts Officer  
Ministry of New and Renewable Energy  
New Delhi-110003

**Subject: Setting up of Jainagra (1000 KW) SHP project in District Rohtas, Bihar by the Bihar State Hydroelectric Power Corporation, Patna - Release of 3<sup>rd</sup> installments of MNRE subsidy reg.**

Sir,

With reference to the letter Nos. 418 dated 28.1.08 & 733 dated 18.02.08 from the Bihar State Hydroelectric Power Corporation (BHPC), Patna on the subject mentioned above and in continuation of this Ministry's letter of even no. dated 15<sup>th</sup> October 2004 & 29<sup>th</sup> May 2006, I am directed to convey the sanction of the President for the release of 3<sup>rd</sup> installments amounting to Rs. 45.00 lakhs (Rupees forty five lakhs only) i.e. 30%, as grants-in-aid within the sanctioned outlay to the Bihar State Hydroelectric Power Corporation, Patna for incurring expenditure on the above SHP project in district Rohtas of Bihar, during the current financial year 2007-2008.

2. The amount of Rs. 45.00 lakhs (Rupees forty five lakhs only) will be drawn by the DDO, MNRE from the PAO, MNRE, New Delhi and disbursed to the Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchand Patel Marg, Patna-800001 by an accounts payee demand draft for incurring expenditure on the above mentioned SHP project during the current financial year 2006-07. The release is being made to the Autonomous Body of the State Govt. (Category 'A' as per PAO OM No. PAO/MNES/SANCTION/ 2005-06 dated 11-7-2005).


3. The other terms and conditions will remain the same as already conveyed vide sanction letter of even number dated 15<sup>th</sup> October 2004 and the general terms & conditions of the relevant Scheme of SHP programme circulated vide letter No. 14(5)/2003-SHP dated 29.7.2003(Annexure C). The sanction is further subject to (a) the quarterly progress reports and Utilisation certificates in the prescribed format being submitted by the BHPC by 30<sup>th</sup> September 2008 and audited statement of expenditure which should also indicate progressive and matching funds by the BHPC (b) the amount being utilised exclusively for the above SHP project and for works as approved by MNRE.

4. The Grantee Organisation is exempted from executing a Bond as required under Govt. of India decision no. 5 (a) under GFR-149. All the terms & conditions of the administrative approval have been followed. The accounts of Grantee Organization shall be open to inspection by the sanctioning authority and audit both by C&AG and the internal audit by the Principal Accounts Office of the Ministry, whenever the organization is called upon to do so.

.....2/-

5. The expenditure involved will be debitable to Head of Account: Demand No. 65-MNRE-2810-Non-Conventional Sources of Energy (Major Head); 60-Other (Sub-Major Head); 60.600-Other Sources of Energy (Minor Head); 03-Small Hydro Power Development; 03.02-SHP Promotion Programme; 03.02.31-Grants in aid, for the year 2007-08 (Plan).
6. With the above release of Rs. 45.00 lakhs (Rupees forty five lakhs only), the total amount released on the subject project would be Rs. 112.50 lakhs against the MNRE sanctioned subsidy of Rs. 150.00 lakhs for the above SHP project.
7. This sanction issues in exercise of delegated powers of the Ministry and with the concurrence of Integrated Finance Division vide their sanction no. IFD/SAN/108/1124/2007-08 dated 25/3/2008.
8. This sanction/expenditure for release of Rs. 45.00 lakhs (Rupees forty five lakhs only) for the above SHP project has been noted at Sl. No. 6 (page No. 11) of the Expenditure Control Register of SHP Division for the year 2007-08.

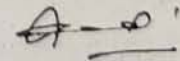
Yours faithfully,

  
(S. S. BEDI)

Under Secretary to the Govt. of India

Copy to: -

- i) The Secretary, Energy Dept., Govt. of Bihar, Secretariat, Patna.
- ii) The Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchand Patel Marg, Patna-800001.
- iii) AG, CW&M-II(Science Audit), DACR Building, I.P.Estate, New Delhi-110 002.
- iv) AG, Govt. of Bihar, Patna.
- v) Advisor/ Dir(PS)/ Dir(AKC )/ US(SHP)/AO(F), MNRE.
- vi) Regional Office, MNRE, Patna.
- vii) Cash Section, MNRE (4 copies).
- viii) Sanction Folder.

  
(S. S. BEDI)

Under Secretary to the Govt. of India



No. 6/157/2004-SHP  
GOVERNMENT OF INDIA  
Ministry of New and Renewable Energy  
(Small Hydro Power Division)

Tel. : 24360707  
Fax : 24361298

Block No.14, CGO Complex  
Lodi Road, New Delhi - 110003

Dated: 27<sup>th</sup> February, 2008.

To

The Pay & Accounts Officer  
Ministry of New and Renewable Energy  
New Delhi-110003.

Subject: Setting up of Shrikhinda (700 KW) SHP project in District Rohtas, Bihar by the Bihar State Hydroelectric Power Corporation, Patna - Release of 2<sup>nd</sup> & 3<sup>rd</sup> installments of MNRE subsidy reg.

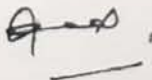
Sir,

With reference to the letter Nos. 415 dated 28.1.08 & 732 dated 18.02.08 from the Bihar State Hydroelectric Power Corporation (BHPC), Patna on the subject mentioned above and in continuation of this Ministry's letter of even no. dated 16<sup>th</sup> March 2007, I am directed to convey the sanction of the President for the release of 2<sup>nd</sup> & 3<sup>rd</sup> installments amounting to Rs. 59,56,500/- (Rupees fifty nine lakhs fifty six thousand and five hundred only) i.e. 50%, as grants-in-aid within the sanctioned outlay to the Bihar State Hydroelectric Power Corporation, Patna for incurring expenditure on the above SHP project in district Rohtas of Bihar, during the current financial year 2007-2008.

2. The amount of Rs. 59,56,500/- (Rupees fifty nine lakhs fifty six thousand and five hundred only) will be drawn by the DDO, MNRE from the PAO, MNRE, New Delhi and disbursed to the Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchand Patel Marg, Patna-800001 by an accounts payee demand draft for incurring expenditure on the above mentioned SHP project during the current financial year 2006-07. The release is being made to the Autonomous Body of the State Govt. (Category 'A' as per PAO OM No. PAO/MNES/SANCTION/2005-06 dated 11-7-2005).

3. The other terms and conditions will remain the same as already conveyed vide sanction letter of even number dated 16<sup>th</sup> March 2007 and the general terms & conditions of the relevant Scheme of SHP programme circulated vide letter No. 14/8/2004-SHP dated 26.12.2006. The sanction is further subject to (a) the quarterly progress reports and Utilisation certificates in the prescribed format being submitted by the BHPC by 30<sup>th</sup> September 2008 and audited statement of expenditure which should also indicate progressive and matching funds by the BHPC (b) the amount being utilised exclusively for the above SHP project and for works as approved by MNRE.

4. The Grantee Organisation is exempted from executing a Bond as required under Govt. of India decision no. 5 (a) under GFR-149. All the terms & conditions of the administrative approval have been followed. The accounts of Grantee Organization shall be open to inspection by the sanctioning authority and audit both by C&AG and the internal audit by the Principal Accounts Office of the Ministry, whenever the organization is called upon to do so.



.....2/-

5. The expenditure involved will be debitable to Head of Account: Demand No. 65-MNRE, 280-Non-Conventional Sources of Energy (Major Head); 60-Other (Sub-Major Head); 60.600-Other Sources of Energy (Minor Head); 03-Small Hydro Power Development; 03.02-SHP Promotion Programme; 03.02.33-Subsidies, for the year 2007-08 (Plan).

6. With the above release of Rs. 59,56,500/- (Rupees fifty nine lakhs fifty six thousand and five hundred only), the total amount released on the subject project would be Rs. 89.565 lakhs against the MNRE sanctioned subsidy of Rs. 119.13 lakhs for the above SHP project.

7. This sanction issues in exercise of delegated powers of the Ministry and with the concurrence of Integrated Finance Division vide their sanction no. IFD/SAN/108/931/2007-08 dated 27/2/2008.

8. This sanction/expenditure for release of Rs. 59,56,500/- (Rupees fifty nine lakhs fifty six thousand and five hundred only) for the above SHP project has been noted at Sl. No. 9 (page No. 16) of the Expenditure Control Register of SHP Division for the year 2007-08.

Yours faithfully,



(S. S. BEDI)

Under Secretary to the Govt. of India

Copy to: -

- i) The Secretary, Energy Dept., Govt. of Bihar, Secretariat, Patna.
- ii) The Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchand Patel Marg, Patna-800001.
- iii) AG, CW&M-II(Science Audit), DACR Building, I.P. Estate, New Delhi-110 002.
- iv) AG, Govt. of Bihar, Patna.
- v) Advisor/ Dir(PS)/ Dir(AKC) / US(SHP)/AO(F), MNRE.
- vi) Regional Office, MNRE, Patna.
- vii) Cash Section, MNRE (4 copies).
- viii) Sanction Folder.



(S. S. BEDI)

Under Secretary to the Govt. of India



No. 6/155/2004-SHIP  
GOVERNMENT OF INDIA  
Ministry of New and Renewable Energy  
(Small Hydro Power Division)

Tel. : 24360707  
Fax : 24361298

Block No.14, CGO Complex  
Lodi Road, New Delhi - 110003

Dated: 25<sup>th</sup> September, 2008.

To  
The Pay & Accounts Officer  
Ministry of New and Renewable Energy  
New Delhi-110003

Subject: Setting up of Rajapur (700 KW) SHIP project in district Sapaul, Bihar by the Bihar State Hydroelectric Power Corporation, Patna - Release of 2<sup>nd</sup> & 3<sup>rd</sup> installments of sanctioned subsidy reg.

Sir,  
With reference to the letter Nos. 1485 dated 21.4.08, 3001 dated 21.8.08 & 3221 dated 1.9.08 from the Bihar State Hydroelectric Power Corporation (BHPC), Patna on the subject mentioned above and in continuation of this Ministry's letter of even no. dated 16<sup>th</sup> March 2007, I am directed to convey the sanction of the President for the release of 2<sup>nd</sup> & 3<sup>rd</sup> installments amounting to Rs. 59,56,500/- (Rupees fifty nine lakhs fifty six thousand and five hundred only) i.e. 50%, as grants-in-aid within the sanctioned outlay to the Bihar State Hydroelectric Power Corporation, Patna for incurring expenditure on the above SHP project in district Sapaul of Bihar, during the current financial year 2008-2009.

2. The amount of Rs. 59,56,500/- (Rupees fifty nine lakhs fifty six thousand and five hundred only) will be drawn by the DDO, MNRE from the PAO, MNRE, New Delhi and disbursed to the Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchand Patel Marg, Patna-800001 by an accounts payee demand draft for incurring expenditure on the above mentioned SHP project during the current financial year 2008-09. The release is being made to the Autonomous Body of the State Govt. (Category 'A' as per PAO OM No. PAO/MNES/SANCTION/2005-06 dated 11-7-2005).

3. The other terms and conditions will remain the same as already conveyed vide sanction letter of even number dated 16<sup>th</sup> March 2007 and the general terms & conditions of the relevant Scheme of SHP programme circulated vide letter No. 14/8/2004-SHP dated 26.12.2006. The sanction is further subject to (a) the monthly progress reports and Utilisation certificates in the prescribed format being submitted by the BHPC on or before 30<sup>th</sup> September 2009 and statement of expenditure (SOE) and (b) the amount being utilised exclusively for the above SHIP project and for works as approved by MNRE.

4. The Grantee Organisation is exempted from executing a Bond as required under Govt. of India decision no. 5 (a) under GFR-149. All the terms & conditions of the administrative approval have been followed. The accounts of Grantee Organization shall be open to inspection by the sanctioning authority and audit both by C&AG and the internal audit by the Principal Accounts Office of the Ministry, whenever the organization is called upon to do so.

*[Signature]* 21-

5. The expenditure is debitable to the following Head of Account: Demand No. 67; 2800 (Major Head) – Non-Conventional Sources of Energy; 60 – Others (Sub-Major Head); 60.600 – Other Sources of Energy (Minor Head); 03 – Small Hydro Power Development; 03.02 – SHP Promotion Programme; 03.02.33 – Subsidies, for the year 2008-09 (Plan).
6. With the above release of Rs. 59,56,500/- (Rupees fifty nine lakhs fifty six thousand and five hundred only), the total amount released on the subject project would be Rs. 89.565 lakhs against the MNRE sanctioned subsidy of Rs. 119.13 lakhs for the above SHP project.
7. This sanction issues in exercise of delegated powers of the Ministry and with the concurrence of Integrated Finance Division vide their sanction no. IFD/SAN/109/469/2008-09 dated 24/9/2008.
8. This sanction/expenditure for release of Rs. 59,56,500/- (Rupees fifty nine lakhs fifty six thousand and five hundred only) for the above SHP project has been noted at Sl. No. 6 (page No. 47) of the Expenditure Control Register of SHP Division for the year 2008-09.

Yours faithfully,

(A. K. Joshi)

Under Secretary to the Govt. of India

Copy to: -

- i) The Secretary, Energy Dept., Govt. of Bihar, Secretariat, Patna.
- ✓ ii) The Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchand Patel Marg, Patna-800001.
- iii) AG, CW&M-II(Science Audit), DACR Building, I.P.Estate, New Delhi-110 002.
- iv) AG, Govt. of Bihar, Patna.
- v) Advisor(SHP)/ Dir(PS)/ Dir(AKC) / US(SHP)/AO(F), MNRE.
- vi) Cash Section, MNRE (4 copies).
- vii) Sanction Folder.

(A. K. Joshi)

Under Secretary to the Govt. of India



No. 6/154/2004-SHP  
GOVERNMENT OF INDIA  
Ministry of New and Renewable Energy  
(Small Hydro Power Division)

Tel. : 24360707  
Fax : 24361298

Block No.14, CGO Complex  
Lodi Road, New Delhi - 110003.

Dated: 28<sup>th</sup> January, 2010.

To  
The Pay & Accounts Officer  
Ministry of New and Renewable Energy  
New Delhi-110003.

Subject: Setting up of Amethi (500 kW) SHP project in District Rohtas, Bihar by BHPC, Patna -  
Sanction & release of MNRE financial support reg.

Sir,

With reference to the letter Nos. 1785 dated 17-5-07 and 1872 dated 2-6-09 from the Bihar State Hydroelectric Power Corporation (BHPC), Patna on the subject mentioned above and in pursuance of this Ministry's 'Scheme for Financial Support to set up new SHP projects upto 25 MW capacity in the Government / State / Public sector' for the year 2009-10 & for the remaining period of 11<sup>th</sup> Plan as circulated vide Ministry's letter No. 14 (1) / 2008-SHP dated 11.12.2009, I am directed to convey the sanction of the President for providing MNRE financial support of Rs. 125.00 lakhs ( Rupees one crore twenty five lakhs only ) to the BHPC, Patna for setting up of Amethi (500 kW) Small Hydro Power project in district Rohtas of Bihar.

2. The total cost of the project has been estimated by the BHPC as Rs. 684.00 lakhs for setting up the above SHP project in district Rohtas of Bihar. Out of total project cost of Rs. 684.00 lakhs, the support of the Ministry will be Rs. 125.00 lakhs or 90% of the actual cost of project, whichever is less, as per the provisions in the concerned Scheme. The balance cost of the project over & above eligible MNRE support will be met or borne by the Bihar State Hydroelectric Power Corporation, Patna. The project is scheduled for commissioning by May 2010.

3. I am also directed to convey the sanction of the President for the release of 1<sup>st</sup> & 2<sup>nd</sup> installment of 55%, amounting to Rs. 68.75 lakhs (Rupees sixty eight lakhs and seventy five thousand only) as grants-in-aid within the sanctioned outlay to the BHPC, Patna for incurring expenditure on the above SHP project in district Rohtas of Bihar, during the current financial year 2009-2010.

4. The amount of Rs. 68.75 lakhs (Rupees sixty eight lakhs and seventy five thousand only) will be drawn by the DDO, MNRE from the PAO, MNRE, New Delhi and disbursed to the Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchand Patel Marg, Patna-800 001 through RTGS for giving financial support on the above mentioned project during current financial year 2009-10. The details of RTGS are as under:

Account Name	:	Bihar State Hydroelectric Power Corporation Ltd.
Bank Name	:	Bank of India
Branch Office	:	Birchand Patel Marg, Patna - 800 001.
Bank Account No.	:	441020100003004
MICR Code	:	800013003
IFSC/RTGS Code	:	BKID0004410

(R)

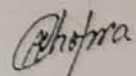
Contd.....2/-

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- 2 -

5. All the terms & conditions of the administrative approval have been followed. The release is made to the Autonomous Body of the State Govt. (Category 'A' as per PAO OM No. PAO/ MNRE/ SANCTION/ 2005-06 dated 11-7-2005).
6. The sanction is further subject to (a) the relevant general terms & conditions of the 'Scheme for Financial Support to set up new SHP projects upto 25 MW capacity in the Government / State / Public sector' as circulated vide letter no. 14(1)/2008-SHP dated 11.12.2009 (b) the progress reports and Utilisation certificates in the prescribed format being submitted by the BHPC, Patna and statement of expenditure which should also indicate progressive and matching funds by the BHPC (c) the amount being utilised exclusively on the above SHP project and for works as approved by the Ministry.
7. The Grantee Organisation is exempted from executing a Bond as required under Govt. of India decision no. 5 (a) under GFR-149. The accounts of Grantee Organization shall be open to inspection by the sanctioning authority and audit both by C&AG and the internal audit by the Principal Accounts Office of the Ministry, whenever the organization is called upon to do so.
8. The expenditure is debitable to the Head of Account: Demand No. 67 - MNRE; '2810' (Major Head) - New and Renewable Energy: 00 (Sub-Major Head) - Others: 101 (Minor Head)-Grid Interactive and Distributed Renewable Power: 01(Sub-Head) - Grid Interactive Renewable Power: 01.02 - Hydro Power: 01.02.20-other administrative expenses - for the year 2009-10 (Plan).
9. With the above release of Rs. 68.75 lakhs (Rupees sixty eight lakhs and seventy five thousand only), the total amount released on the subject project would be Rs. 68.75 lakhs against the MNRE sanctioned subsidy of Rs. 125.00 lakhs for the above SHP project.
10. This issues under the power delegated to this Ministry and with the concurrence of IFD, MNRE vide their Diary. No. IFD-1780-10 dated 12/01/2010.
11. This sanction order has been noted at Sl. No. 5 (page No 87) in the Expenditure Control Register of SHP Division for the year 2009-10.

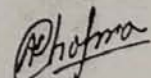
Yours faithfully,



(A. K. Chopra)  
Director

Copy to: -

- i) The Secretary, Energy Dept., Govt. of Bihar, Secretariat, Patna.
- ii) The Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchand Patel Marg, Patna-800001.
- iii) Branch Manager, Birchand Patel Marg Branch, Tourist Bhavan, B.P. Marg, Patna-800001.
- iv) Principal Director of Audit, Scientific Departments, DACR Building, New Delhi-2.
- v) AG, Govt. of Bihar, Patna.
- vi) Adviser(SHP)/Dir(SHP)/Dir(AKC)/AO(IFD) MNRE.
- vii) Dir/US/AO, IFD, MNRE
- viii) Cash Section, MNRE (4 copies).
- ix) Sanction Folder.



(A. K. Chopra)



No. 6/156/2004-SHP  
GOVERNMENT OF INDIA  
Ministry of New and Renewable Energy  
(Small Hydro Power Division)

Tel. : 24360707  
Fax : 24361298

Block No.14, CGO Complex  
Lodi Road, New Delhi - 110003.

Dated: 28<sup>th</sup> January, 2010.

To  
The Pay & Accounts Officer  
Ministry of New and Renewable Energy  
New Delhi-110003.

Subject: **Setting up of Rampur (250 kW) SHP project in District Rohtas, Bihar by BHPC, Patna -  
Sanction & release of MNRE financial support reg.**

Sir,

With reference to the letter Nos. 1784 dated 17-5-07 & 1875 dated 2-6-09 from the Bihar State Hydroelectric Power Corporation (BHPC), Patna on the subject mentioned above and in pursuance of this Ministry's 'Scheme for Financial Support to set up new SHP projects upto 25 MW capacity in the Government / State / Public sector' for the year 2009-10 & for the remaining period of 11<sup>th</sup> Plan as circulated vide Ministry's letter No. 14 (1) / 2008-SHP dated 11.12.2009, I am directed to convey the sanction of the President for providing MNRE financial support of Rs. 62.50 lakhs ( Rupees sixty two lakhs and fifty thousand only ) to the BHPC, Patna for setting up of Rampur (250 kW) Small Hydro Power project in district Rohtas of Bihar.

2. The total cost of the project has been estimated by the BHPC as Rs. 533.00 lakhs for setting up the above SHP project in district Rohtas of Bihar. Out of total project cost of Rs. 533.00 lakhs, the support of the Ministry will be Rs. 62.50 lakhs or 90% of the actual cost of project, whichever is less, as per the provisions in the concerned Scheme. The balance cost of the project over & above eligible MNRE support will be met or borne by the Bihar State Hydroelectric Power Corporation, Patna. The project is scheduled for commissioning by August 2010.

3. I am also directed to convey the sanction of the President for the release of 1<sup>st</sup> & 2<sup>nd</sup> installment of 55%, amounting to Rs. 34.375 lakhs (Rupees thirty four lakhs thirty seven thousand and five hundred only) as grants-in-aid within the sanctioned outlay to the BHPC, Patna for incurring expenditure on the above SHP project in district Rohtas of Bihar, during the current financial year 2009-2010.

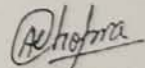
4. The amount of Rs. 34.375 lakhs (Rupees thirty four lakhs thirty seven thousand and five hundred only) will be drawn by the DDO, MNRE from the PAO, MNRE, New Delhi and disbursed to the Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchand Patel Marg, Patna-800 001 through RTGS for giving financial support on the above mentioned project during current financial year 2009-10. The details of RTGS are as under:

Account Name	:	Bihar State Hydroelectric Power Corporation Ltd.
Bank Name	:	Bank of India
Branch Office	:	Birchand Patel Marg, Patna - 800 001.
Bank Account No.	:	441020100003004
MICR Code	:	800013003
IFSC/RTGS Code	:	BKID0004410

Contd.....2/-

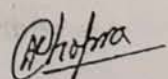
- 119)
5. All the terms & conditions of the administrative approval have been followed. The release is being made to the Autonomous Body of the State Govt. (Category 'A' as per PAO OM No. PAO/ MNRE/ SANCTION/ 2005-06 dated 11-7-2005).
6. The sanction is further subject to (a) the relevant general terms & conditions of the 'Scheme for Financial Support to set up new SHP projects upto 25 MW capacity in the Government / State / Public sector' as circulated vide letter no. 14(1)/2008-SHP dated 11.12.2009 (b) the progress reports and Utilisation certificates in the prescribed format being submitted by the BHPC, Patna and statement of expenditure which should also indicate progressive and matching funds by the BHPC (c) the amount being utilised exclusively on the above SHP project and for works as approved by the Ministry.
7. The Grantee Organisation is exempted from executing a Bond as required under Govt. of India decision no. 5 (a) under GFR-149. The accounts of Grantee Organization shall be open to inspection by the sanctioning authority and audit both by C&AG and the internal audit by the Principal Accounts Office of the Ministry, whenever the organization is called upon to do so.
8. The expenditure is debit to the Head of Account: Demand No. 67 - MNRE; '2810' (Major Head) - New and Renewable Energy; 00 (Sub-Major Head) - Others; 101 (Minor Head)-Grid Interactive and Distributed Renewable Power; 01(Sub-Head) - Grid Interactive Renewable Power; 01.02 - Hydro Power; 01.02.20-other administrative expenses - for the year 2009-10 (Plan).
9. With the above release of Rs. 34.375 lakhs (Rupees thirty four lakhs thirty seven thousand and five hundred only), the total amount released on the subject project would be Rs. 34.375 lakhs against the MNRE sanctioned subsidy of Rs. 62.50 lakhs for the above SHP project.
10. This issues under the power delegated to this Ministry and with the concurrence of IFD, MNRE vide their Diary. No. IFD-1779-10 dated 12/01/2010.
11. This sanction order has been noted at Sl. No. 3 (page No 87) in the Expenditure Control Register of SHP Division for the year 2009-10.

Yours faithfully,

  
(A. K. Chopra)  
Director

Copy to: -

- i) The Secretary, Energy Dept., Govt. of Bihar, Secretariat, Patna.
- ii) The Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchand Patel Marg, Patna-800001.
- iii) Branch Manager, Birchand Patel Marg Branch, Tourist Bhawan, B.P. Marg, Patna-800001.
- iv) Principal Director of Audit, Scientific Departments, DACR Building, New Delhi-2.
- v) AG, Govt. of Bihar, Patna.
- vi) Adviser(SHP)/Dir(SHP)/Dir(AKC)/AO(IFD) MNRE.
- vii) Dir/US/AO, IFD, MNRE
- viii) Cash Section, MNRE.(4 copies)
- ix) Sanction Folder.

  
(A. K. Chopra)



No. 6/158/2004-SHP  
GOVERNMENT OF INDIA  
Ministry of New and Renewable Energy  
(Small Hydro Power Division)

Tel : 24360707  
Fax : 24361298

Block No. 14, CGO Complex  
Lodi Road, New Delhi - 110003.

Dated: 28<sup>th</sup> January, 2010.

To  
The Pay & Accounts Officer  
Ministry of New and Renewable Energy  
New Delhi-110003.

Subject: **Setting up of Paharma (1000 kW) SHP project in District Rohtas, Bihar by BHPC, Patna -  
Sanction & release of MNRE financial support reg.**

Sir,

With reference to the letter Nos. 1763 dated 17-5-07 and 1874 dated 2-6-09 from the Bihar State Hydroelectric Power Corporation (BHPC), Patna on the subject mentioned above and in pursuance of this Ministry's 'Scheme for Financial Support to set up new SHP projects upto 25 MW capacity in the Government / State / Public sector' for the year 2009-10 & for the remaining period of 11<sup>th</sup> Plan as circulated vide Ministry's letter No. 14 (1) / 2008-SHP dated 11.12.2009, I am directed to convey the sanction of the President for providing MNRE financial support of Rs. 250.00 lakhs ( Rupees two crores fifty lakhs only ) to the BHPC, Patna for setting up of **Paharma (1000 kW) Small Hydro Power project in district Rohtas of Bihar.**

The total cost of the project has been estimated by the BHPC as Rs. 1072.00 lakhs for setting up the above SHP project in district Rohtas of Bihar. Out of total project cost of Rs. 1072.00 lakhs, the support of the Ministry will be Rs. 250.00 lakhs or 90% of the actual cost of project, whichever is less, as per the provisions in the concerned Scheme. The balance cost of the project over & above eligible MNRE support will be met or borne by the Bihar State Hydroelectric Power Corporation, Patna.

I am also directed to convey the sanction of the President for the release of 1<sup>st</sup> & 2<sup>nd</sup> installment of 50%, amounting to Rs. 137.50 lakhs (Rupees one crore thirty lakhs and fifty thousand only) as grants-in-aid within the sanctioned outlay to the BHPC, Patna for incurring expenditure on the above SHP project in district Rohtas of Bihar, during the current financial year 2009-2010.

*Received in B.O.I on 2-3-2010*  
4. The amount of Rs. 137.50 lakhs (Rupees one crore thirty lakhs and fifty thousand only) will be drawn by the DDO, MNRE from the PAO, MNRE, New Delhi and disbursed to the Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchand Patel Marg, Patna-800 001 through RTGS for giving financial support on the above mentioned project during current financial year 2009-10. The details of RTGS are as under:

Account Name	:	Bihar State Hydroelectric Power Corporation Ltd.
Bank Name	:	Bank of India
Branch Office	:	Birchand Patel Marg, Patna - 800 001.
Bank Account No.	:	441020100003004
MICR Code	:	800013003
IFSC/RTGS Code	:	BKID0004410

Contd.....2/-

2193

5. All the terms & conditions of the administrative approval have been followed. The release is being made to the Autonomous Body of the State Govt. (Category 'A' as per PAO OM No. PAO/ MNES/ SANCTION/ 2005-06 dated 11-7-2005).

6. The sanction is further subject to (a) the relevant general terms & conditions of the 'Scheme for Financial Support to set up new SHP projects upto 25 MW capacity in the Government / State / Public sector' as circulated vide letter no. 14(1)/2008-SHP dated 11.12.2009 (b) the progress reports and Utilisation certificates in the prescribed format being submitted by the BHPC, Patna and statement of expenditure which should also indicate progressive and matching funds by the BHPC (c) the amount being utilised exclusively on the above SHP project and for works as approved by the Ministry.

7. The Grantee Organisation is exempted from executing a Bond as required under Govt. of India decision no. 5 (a) under GFR-149. The accounts of Grantee Organization shall be open to inspection by the sanctioning authority and audit both by C&AG and the internal audit by the Principal Accounts Office of the Ministry, whenever the organization is called upon to do so.

8. The expenditure is debitable to the Head of Account: Demand No. 67 - MNRE; '2810' (Major Head) - New and Renewable Energy; 00 (Sub-Major Head) - Others; 101 (Minor Head)-Grid Interactive and Distributed Renewable Power; 01(Sub-Head) - Grid Interactive Renewable Power; 01.02 - Hydro Power; 01.02.20-other administrative expenses - for the year 2009-10 (Plan).

9. With the above release of Rs. 137.50 lakhs (Rupees one crore thirty lakhs and fifty thousand only), the total amount released on the subject project would be Rs. 137.50 lakhs against the MNRE sanctioned subsidy of Rs. 250.00 lakhs for the above SHP project.

10. This issues under the power delegated to this Ministry and with the concurrence of IFD, MNRE vide their Diary. No. IFD-1778-10 dated 12/01/2010.

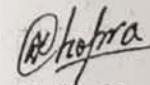
11. This sanction order has been noted at Sl. No. 4 (page No 87) in the Expenditure Control Register of SHP Division for the year 2009-10.

Yours faithfully,

  
(A. K. Chopra)  
Director

Copy to: -

- i) The Secretary, Energy Dept., Govt. of Bihar, Secretariat, Patna.
- ii) The Managing Director, Bihar State Hydroelectric Power Corporation, Sone Bhawan, Birchand Patel Marg, Patna-800001.
- iii) Branch Manager, Birchand Patel Marg Branch, Tourist Bhawan, B.P. Marg, Patna-800001.
- iv) Principal Director of Audit, Scientific Departments, DACR Building, New Delhi-2.
- v) AG, Govt. of Bihar, Patna.
- vi) Adviser(SHP)/Dir(SHP)/Dir(AKC)/AO(IFD) MNRE.
- vii) Dir/US/AO, IFD, MNRE
- viii) Cash Section, MNRE (4 copies).
- ix) Sanction Folder.

  
(A. K. Chopra)



ANX VII

Bihar State Hydroelectric Power Corporation Ltd.  
Sone Bhawan, 2nd floor, B.C.P.Marg, Patna

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Details of Share Capital

Sl.No.	Year	Share Capital
1	1982-83	80.00
2	1983-84	500.00
3	1984-85	200.00
4	1985-86	500.00
5	1986-87	1,200.00
6	1987-88	1,305.00
7	1988-89	-
8	1989-90	450.00
9	1990-91	500.00
10	1991-92	-
11	1992-93	2,445.00
12	1993-94	-
13	1994-95	1,096.00
14	1995-96	650.00
15	1996-97	978.00
Total		9,904.00

बिहार सरकार,  
विद्युत विभाग

संख्या बि०यू०-50048/82-

विद्युत

दिनांक,

सेवा में,

महानिदेशाकार, बिहार,  
रांची।

वित्त विभाग।

कार्यालयिक द्वारा :-  
जहाँ से प्रारम्भित किया:-

बिहार राज्य का विद्युत निगम को निम्न पूर्वी बंधन के निमित्त  
एक करोड़ २५ लाख रुपये की स्वीकृति।

मतोका,

निदेशानुसार सूचित करना है कि राज्य सरकार द्वारा बिहार राज्य  
का विद्युत निगम को विद्युत वर्ष के लिये वर्ष १९८२-८३ में उपवीक्षित कृषि की राशि  
में से रु. २.५० करोड़ निम्न पूर्वी बंधन के निमित्त उपलब्ध कराने का निर्णय किया  
गया है। तत्काल २५ लाख (पच्चीस लाख) रुपये एक करोड़ के रूप में बिहार राज्य  
का विद्युत निगम को निम्न पूर्वी बंधन के निमित्त स्वीकृत किया जाता है।

२- यह व्यय बजट शीर्ष - खंड II - ८०० - आकस्मिकता निधि - ५४४  
विक्री परियोजनाओं पर पूर्वीगत परियोजना - (क) का विद्युत योजनाएं-अव व्यय - एक  
श्रेणीय उप-योजना - बिहार राज्य का विद्युत निगम के निम्न पूर्वी में बंधन के  
अन्तर्गत विहित होगा। इसके लिये बजट में उपलब्ध नहीं है। तत्काल वर्ष बिहार  
आकस्मिकता निधि के वित्त विभाग के रूप में १०० लाख रुपये के द्वारा  
स्वीकृत किया जायेगा। जिससे प्रतिपूर्ति द्वितीय अनुपूरक व्यय विवरण  
में १९८२-८३ में खर्चण अनुसूची द्वारा की जायेगी।

३- भारतीय बैंकिंग एवं लेखा विभाग की यह अधिकार होगा कि वे इस  
संख्याओं के लेखाओं का अंकन करें।

४- राज्य की संचित निधि से स्वीकृत की गयी राशि का लेख संचित  
संशोधन द्वारा प्रकृत व्यय राज जायेगा।

५- इस राशि की निकासी व्यय-सू- पक्ष निदेशक, बिहार राज्य का  
विद्युत निगम करेंगे। वक्त प्राधिकार पत्र उनके नाम निर्गमित करने की कृपा करें।

विस्थापक,

तः/-

(तीरा प्रसव),

सरकार के उपर सचिव, विद्युत।



आप सेवक

४/७२

दिनांक, १६/११/७२

प्रतिनिधि अग्रह, विहार राज्य विद्युत बोर्ड, पटना/ अग्रह-४- ५५) दिने  
विहार राज्य जल विद्युत निगम विहारपटणा/ रिले विभाग (जल पिशा खीरा)/ एवं  
राज्य सेवा को सुचना एवं आवश्यक कार्रवाई हेतु प्रेषित ।

(हस्ताक्षर),

सुपरी के अपर सचिव, विद्युत ।

संख्या- \_\_\_\_\_ दिनांक \_\_\_\_\_

1983

अनुसूचित रक्त  
से परामर्शित ।

सेवा में,

महानिदेशाकार, बिहार  
रांची ।

द्वारा-

विद्युत विभाग ।

विषय-

बिहार स्टेट हाईड्रो-इलेक्ट्रिक पावर कारपोरेशन लिमिटेड,  
पटना को हिस्सा पूँजी अंशदान के निमित्त द्वितीय किस्त  
50 लाख रुपये की स्वीकृति ।

महोदय,

निदेशानुसार सरकारी आदेश संख्या-5602 दिनांक 16-12-82 को आश्रित रूप में संशोधन करते हुए सूचित करना है कि राज्य सरकार द्वारा बिहार स्टेट हाईड्रो-इलेक्ट्रिक पावर कारपोरेशन लि०, पटना को विद्युत बर्ध के लिए वर्ष 1982-83 में उपबंधित की गई राशि में से हिस्सा पूँजी अंशदान के निमित्त उपबंध कराने का निर्णय लिया गया है तथा प्रथम किस्त के रूप में 25 लाख रुपये हिस्सा पूँजी अंशदान के निमित्त स्वीकृत किया गया है ।

2- बिहार राज्य जल-विद्युत निगम को सुचारु रूप से कार्य सम्पादन हेतु 50 लाख रुपये द्वितीय किस्त के रूप में हिस्सा पूँजी अंशदान के निमित्त स्वीकृत किया जाता है ।

3- यह व्यय बजट शीर्ष- 534 बिजली परियोजनाओं पर पूँजीगत परियोजनाओं के जल विद्युत योजनाएँ अन्य व्यय- अन्य क्षेत्रीय उपयोजना- बिहार राज्य जल विद्युत निगम के हिस्सा पूँजी में अंशदान अन्तर्गत विस्तृत होगी। आवश्यक धन राशि का उपबंध 1982-83 के द्वितीय अनुसूचक में किया जायगा ।

4- भारतीय उद्योग एवं सेवा विभाग को यह अधिकार होगा कि वे इन संस्थाओं के सेवाओं का उद्योग करें ।

5- राज्य को सूचित निधि में स्वीकृत की गयी राशि का लेखा सम्बन्धित संस्थाओं द्वारा विस्तृत अलग रखा जायगा ।

6- इस राशि की निकासी अध्यक्ष-सह-उपबंध निदेशक, बिहार स्टेट हाईड्रो-इलेक्ट्रिक पावर कारपोरेशन लिमिटेड, पटना करेंगे अतः प्राधिकार पत्र उनके नाम निम्नलिखित करने की कृपा करें ।

आपका विश्वासी

हस्ताक्षर-

होरा प्रसाद ।

उप-सचिव  
विद्युत विभाग ।

ज्ञानांक-

2900

दिनांक-

प्रतिलिपि अध्यक्ष, बिहार राज्य विद्युत बोर्ड, पटना/अध्यक्ष-  
सह-उपबंध निदेशक, बिहार स्टेट हाईड्रो-इलेक्ट्रिक पावर कार-  
पोरेशन लि०, बिहार, पटना/विद्युत विभाग/अधीनस्थ शाखा/का  
शाखा/राजस्व शाखा को सूचनाएँ एवं आवश्यक कार्रवाई हेतु प्रेषित ।

16/3/83

होरा प्रसाद ।

उप-सचिव, विद्युत विभाग ।

16/3



क्रमांक  
प्रक.

पटना, दिनांक 29 मार्च, 1983

श्री बीरा प्रसाद,  
सरकार के अवर सचिव।

सेवा में

सहायक सचिव,  
सम. व. व. विभाग।

सहायक सचिव, विभाग।

द्वारा वित्त विभाग।

विषय- बिहार स्टेट हाईड्रो-इलेक्ट्रिक पावर कारपोरेशन लिमिटेड, पटना को  
हिस्सा पूजा एवं औद्योगिक के निमित्त तृतीय किस्त के स्म में 5 लाख  
लाभ स्वीकृति की स्वीकृति।

महोदय,

निदेशानुसार किमागीय पत्रांक 2100 दिनांक 16-3-83 के क्रम में मुझे  
कहना है कि बिहार स्टेट हाईड्रो-इलेक्ट्रिक पावर कारपोरेशन लि0, पटना को  
वित्त प्रक. के लिए वर्ष 1982-83 में उपबद्ध राशि में से हिस्सा पूजा औद्योगिक  
के निमित्त बकाया 75 लाख रुपये [व्यवहृत्तर लाख] स्वीकृत किये जा चुके हैं।

2- पत्र द्वारा तृतीय किस्त के स्म में 5 लाख पांच लाख रुपये हिस्सा  
पूजा औद्योगिक के निमित्त स्वीकृत किये जाते हैं।

3- यह राशि निगम द्वारा उत्तर कोयल जल वित्त परियोजना [कृष्ण ठेका]  
में पेन स्टोन [Pen stone] लगाने के कार्य पर व्यय की जायेगी।

4- यह व्यय बजट शीर्षक 534 विजली परियोजनाओं पर पूंजीगत परिव्यय  
[कि] जल वित्त परियोजना में अन्य व्यय-अन्य क्षेत्रीय उपयोजना-बिहार राज्य जल-  
वित्त निगम के हिस्सा पूजा में औद्योगिक बकाया वित्तनीय होगा। इस कार्य हेतु  
80 लाख [वस्ती लाख] का उपबद्ध 1982-83 के वित्तीय अनुषंग में किया गया है।

5- भारतीय बैंकिंग एवं लेखा विभाग को यह अधिकार होगा कि वे इन  
संस्थाओं के लेखाओं का बकैक्षण करें।

6- राज्य की संचित विधि से स्वीकृत की गई राशि का लेखा संबंधित  
संस्थाओं द्वारा वित्तन अलग रखा जायेगा।

7- इस राशि की आंकासी बंधन-सह-प्रबंध निदेश, बिहार स्टेट हाईड्रो-  
इलेक्ट्रिक पावर कारपोरेशन लिमिटेड, पटना करेंगे। अतः प्राधिकार पत्र उनके नाम  
निर्गत करने की कृपा करें।

विभागाध्यक्ष,

ह0/-

श्री बीरा प्रसाद  
सरकार के अवर सचिव।

कृपया जलें-----

20/3/83

2

ज्ञापक- 2830

पटना, दिनांक 25 मार्च, 1983

प्रतिनिधि अध्यक्ष, विहार राज्य विद्युत बोर्ड, पटना/ अध्यक्ष-सच-  
प्रबंध निदेशक, विहार स्टेट हाईड्रो-इलेक्ट्रिक पावर कारपोरेशन लि०, पटना/  
वित्त विभाग, अधीन राजस्व शाखा/ द्या एवं राजस्व शाखा को सूचनाार्थ एवं आवश्यक  
कार्रवाई हेतु प्रेषित ।

25.3.83

॥ हीरा प्रसाद ॥  
सचिव के अपर सचिव ।



पत्र संख्या- / पटना, दिनांक- दिसम्बर, 1983-  
सेवा में,

जनोपचारिक  
रूप में  
परामर्शित ।

महालेखाकार, बिहार,  
पो-हिन्नु, रांची ।

द्वारा :- वित्त विभाग ।

विषय:- बिहार स्टेट हाईड्रो-इलेक्ट्रिक पावर कारपोरेशन लि०, पटना  
को हिस्सा-पूँजी आदान के निमित्त वर्ष 1983-84 में एक  
करोड़ रुपये ₹ 1,00,00,000 देने की स्वीकृति ।

महोदय,

निदेशानुसार, सूचित करना है कि राज्य सरकार द्वारा  
बिहार स्टेट हाईड्रो-इलेक्ट्रिक पावर कारपोरेशन लि०, पटना को वर्ष 1983-84  
में हिस्सा पूँजी के निमित्त आदान देने के लिए (राज्य के बजट में पाँच करोड़  
रुपये ₹ 5,00,00,000 का उपबन्ध किया गया है तथा) राज्य सरकार ने  
उक्त उपबन्धित राशि में से एक करोड़ रुपये ₹ 1,00,00,000 बिहार स्टेट  
हाईड्रो-इलेक्ट्रिक पावर कारपोरेशन लि०, पटना को तत्काल उपबन्ध कराने का  
निर्णय लिया है ।

2- यह व्यय बजट शीर्ष, "534-बिजली परियोजनाओं पर  
पूँजीगत परिव्यय-अन्य व्यय-अन्य क्षेत्रीय उप योजना-बिहार स्टेट हाईड्रो-  
इलेक्ट्रिक पावर कारपोरेशन लि० के हिस्सा पूँजी में आदान" के अन्तर्गत  
विकल्पित होगा । इसके लिए राज्य सरकार के 1983-84 के बजट में आवश्यक  
उपबन्ध है ।

3- भारतीय अद्वितीय एवं लेखा विभाग को यह अधिकार होगा  
कि वे उक्त कारपोरेशन के लेखाओं का अक्षेप करें ।

4- राज्य की संचित निधि से स्वीकृत की गयी राशि का  
लेखा सम्बन्धित कारपोरेशन द्वारा जिक्रुल अलग रखा जायेगा ।

5- इस राशि की निमासी अध्यक्ष-सह-प्रबन्ध निदेशक, बिहार  
स्टेट हाईड्रो-इलेक्ट्रिक पावर कारपोरेशन लि०, पटना करेंगे । अतः प्राधिकार-  
पत्र इनके नाम निर्गत करने की कृपा करें ।

आपका विश्वासी,

10/-

सरकार के संयुक्त सचिव, विद्युत ।

आप संख्या-

पटना, दिनांक - 29 दिसम्बर, 1983-

प्रतिनिधि, अध्यक्ष-सह-प्रबन्ध निदेशक, बिहार स्टेट हाईड्रो-इलेक्ट्रिक  
पावर कारपोरेशन लि०, पटना/ वित्त विभाग, मुख्यमंत्री कार्यालय/राज्य शाखा/  
राज्य-शाखा/ जो सुपार्षा एवं आदेश पर विचार हेतु प्रेषित ।

21.12.83

सरकार के संयुक्त सचिव, विद्युत ।

बिहार सरकार,  
ऊर्जा विभाग

अनौपचारिक रूप  
से परामर्शित।

संख्या प्र०-कर्स-31/83-9920/  
मुख्य:

पटना, दिनांक 17 मार्च, 84

श्री जगत नन्दन प्रसाद,  
सरकार के संयुक्त सचिव।

सेवा में,

महाले प्रकाश, बिहार,  
पो- बिन्नु,  
रांची।

द्वारा: वित्त विभाग

विषय: बिहार स्टेट हाइड्रो-इलेक्ट्रिक पावर कारपोरेशन लि०,  
पटना को हिस्सा-पूँजी आदान के निमित्त 1983-84  
में 4,00,00,000/- रु० चार करोड़ रुपये की स्वीकृति।

महाराज,

निदेशानुसार उपर्युक्त विषयक विभागीय पत्रांक 7406 दिनांक 21/12/83, जिसके द्वारा बिहार स्टेट हाइड्रोइलेक्ट्रिक पावर कारपोरेशन लि० को वर्ष 1983-84 के लिए बजट में हिस्सा-पूँजी के निमित्त उपबंधित राशि 5,00,00,000/- रु० पाँच करोड़ रुपये में से 1,00,00,000/- एक करोड़ रुपये की स्वीकृति दी गई थी, के क्रम में सूचित करना है कि राज्य सरकार ने रु० 4,00,00,000/- रु० चार करोड़ रुपये हिस्सा-पूँजी आदान देने के निमित्त स्वीकृति प्रदान की है।

2- यह व्यय बजट शीर्ष "534-बिजली परियोजनाओं पर पूँजीगत परिव्यय- अन्य व्यय- अन्य क्षेत्रीय उपयोगना- बिहार स्टेट हाइड्रो-इलेक्ट्रिक पावर कारपोरेशन लि० के हिस्सा पूँजी में आदान" के अन्तर्गत विकलित होगा।

3- भारतीय अक्षिण एवं लेखा विभाग को यह अधिकार होगा कि वे उक्त कारपोरेशन के लेखाओं का अक्षिण करें।

4- राज्य की संचित निधि से स्वीकृत की गई राशि का क्रेता संबंधित कारपोरेशन द्वारा विस्तृत अलग रखा जायेगा।

5- निगम अपने बोर्ड की अनुमति प्राप्त कर सामग्रियों एवं मशीनों का क्रय आवश्यकतानुसार कर सकता है, परन्तु भवन निर्माण का कार्य अभी स्थगित रहेगा।

6- इस राशि की निकासी अद्यतन-सह-प्रबंध निदेशक, बिहार स्टेट हाइड्रो-इलेक्ट्रिक पावर कारपोरेशन लि०, पटना करेंगे। अतः प्राधिकार पत्र इनके नाम निर्गत करने की कृपा करें।

किवासभाजन,

वित्त-विभाग शाख सं-2828 दि०-१५-३-८४

जगत नन्दन प्रसाद  
सरकार के संयुक्त सचिव,  
ऊर्जा विभाग।



पटना, दिनांक १५ मार्च, ८४

भाप स्वीया

प्रतिलिपि - यो-सब-प्रबंध निदेशक, बिहार स्टेट हाइड्रो-इलेक्ट्रिक  
पुनर कारगोरेशन लि. पटना/ वित्त विभाग {अर्थोपाय शाखा}/ अणु शाखा/  
राजस्व शाखा/ अणु शाखा, ऊर्जा विभाग को सूचनार्थ एवं आवश्यक कार्रवाई  
केतु अग्रसारित ।

गणनीय

15-3-84

{जगत नन्दन प्रसाद}  
सरकार के संयुक्त सचिव।  
ऊर्जा विभाग।

RECEIVED  
15/3/84  
15-3-84

बिहार सरकार,  
उर्जा विभाग।

संख्या-  
देना-

पटना-15, पटना-15

मार्च, 1985.

अनुसूचित  
रूप में  
परामर्शित।

सेवा में,

श्री जगत नन्दन प्रसाद,  
सरकार के संप्रदाय सचिव।

महानिदेशक, बिहार,  
पीओ-हिन्नु, रांची।

1. द्वारा- अतिरिक्त विभाग।

विषय:-

बिहार स्टेट हाईड्रोइलेक्ट्रिक पावर कॉर्पोरेशन लि०, पटना की  
द्वितीय-पूँजी अंशदान के निमित्त वित्तीय वर्ष 1984-85 में  
2.00 करोड़ रुपये। दो करोड़ रुपये। देने की स्वीकृति।

अधीनस्थ,

निदेशानुसार, सूचित करना है कि राज्य सरकार द्वारा बिहार  
स्टेट हाईड्रोइलेक्ट्रिक पावर कॉर्पोरेशन लि०, पटना की वर्ष 1984-85 में द्वितीय-  
पूँजी के निमित्त अंशदान देने के लिये राज्य सरकार ने 2.00 करोड़ रुपये। दो  
करोड़ रुपये। बिहार स्टेट हाईड्रोइलेक्ट्रिक पावर कॉर्पोरेशन लि०, पटना की  
उपस्थिति कराने का निर्णय लिया है।

2. यह ब्यय बजट शीर्ष, "534-विजली परियोजनाओं पर पूँजीगत  
परिचर्या-अन्य व्यय- अन्य क्षेत्रीय उप योजना-बिहार स्टेट हाईड्रोइलेक्ट्रिक पावर  
कॉर्पोरेशन लि०, पटना के द्वितीय पूँजी में अंशदान" के अन्तर्गत विनियमित होगा।  
इसके लिये राज्य सरकार के 1984-85 के बजट में आवक्यक्त उपबंध है।

3. भारतीय औद्योगिक स्थे संज्ञा विभाग की यह आधिकार होना कि के  
उक्त कॉर्पोरेशन के सेवाओं का अंशदान करें।

4. राज्य की संवित निधि से स्वीकृत की गयी राशि का पैसा संबंधित  
कॉर्पोरेशन द्वारा विनियमित अलग रखा जायेगा।

5. इस राज्य की विकास आर्थिक-सह-प्रबन्ध निदेशक, बिहार स्टेट  
हाईड्रोइलेक्ट्रिक पावर कॉर्पोरेशन लि०, पटना करें। अतः प्राधिकार पत्र इसके  
नाम निर्गत करने की स्था करें।

विभागाध्यक्ष,

30/-

जगत नन्दन प्रसाद।

सरकार के संप्रदाय सचिव, उर्जा विभाग।

संख्या -

9066

पटना-15, पटना-15

92 मर्च, 1985.

प्रतिनिधि-विभाग-प्रबन्ध निदेशक, बिहार स्टेट हाईड्रोइलेक्ट्रिक  
पावर कॉर्पोरेशन लि०, पटना/ औद्योगिक विकास, पटना/ औद्योगिक विकास  
उप सचिव/राज्य सचिव की सूचना के अनुसार कार्यवाही हेतु देना।

अधीनस्थ 12 3 35-

जगत नन्दन प्रसाद।

सरकार के संप्रदाय सचिव, उर्जा विभाग।



बिहार सरकार,  
उर्जा विभाग ।

133

पत्रांक-प्र2-जोनि0-01/85-

प्रेषक:

पटना, दिनांक

श्री जोगेन्द्र प्रसाद,  
सरकार के संयुक्त सचिव ।

सेवा में,

अनौपचारिक रूप से  
परामर्शित ।

महानिदेशाकार, बिहार,  
राष्ट्री ।

द्वारा:- वित्त विभाग, पटना ।

विषय:- वित्तीय वर्ष 1985-86 में बिहार राज्य जल विद्युत निगम लि0, पटना  
को राजकीय हिस्सा पूँजी के रूप में 58 पाँच करोड़ रुपये की स्वीकृति ।

महोदय,

निदेशानुसार मुझे कहना है कि राज्य सरकार ने बिहार राज्य जल  
विद्युत निगम लि0, पटना को राजकीय हिस्सा पूँजी के रूप में 58 पाँच करोड़ रुपये  
की स्वीकृति प्रदान की है ।

2- राशि का विकलन बजट शीर्ष "534 बिजली परियोजनाओं पर  
पूँजीगत परिव्यय जल विद्युत योजनाएँ-अन्य व्यय-अन्य क्षेत्रीय उपयोजना-बिहार राज्य  
जल विद्युत निगम के हिस्सा पूँजी में आदान" के अन्तर्गत वर्तमान वित्तीय वर्ष  
1985-86 के लिए उपबंधित राशि से होगा ।

3- 1985-86 के मुद्रित बजट में 3 करोड़ का उपबंध है तथा शेष 2 करोड़  
बिहार राज्य आकस्मिकता निधि से वित्त विभाग के ज्ञापक 432 सी0एफ0  
दिनांक 7.11.85 द्वारा स्वीकृत किया गया है, जिसकी प्रतिसूचि सारंधान अनुसूची  
द्वारा द्वितीय अनुसूचक व्यय-विवरण 1985-86 में होगी ।

4- यह राशि भारतीय स्टेट बैंक, राजबोनिगर, पटना में बिहार  
स्टेट हाईड्रोइलेक्ट्रिक पावर कारपोरेशन लि0 के खाते में जमा होगी तथा इस  
राशि की निकासी अध्यक्ष-सह-प्रबंध निदेशक, बिहार राज्य जल विद्युत निगम लि0,  
पटना करेंगे । अतः अनुरोध है कि 58 पाँच करोड़ रुपये का प्राधिकार पत्र निर्गत  
किया जाय ।

विचारभाजन,

ह0/-

सरकार के संयुक्त सचिव, उर्जा विभाग ।

पटना, दिनांक 29.2.86

प्रतिलिपि अध्यक्ष-सह-प्रबंध निदेशक, बिहार स्टेट हाईड्रोइलेक्ट्रिक पावर  
कारपोरेशन लि0, पटना/योजना विभाग/वित्त विभाग अर्थोपाय शाखा/अन्य  
शाखा/राजस्व शाखा/बजट शाखा तथा उर्जा विभाग के बजट शाखा को सूचनार्थ एवं  
आवश्यक कार्रवाई के लिये प्रेषित ।

सरकार के संयुक्त सचिव, उर्जा विभाग ।

विहार सरकार,  
उर्जा विभाग।

पत्रांक 53-जो-01/85  
प्रेशक,

दिनांक

श्री डी०पी०महेश्वरी,  
सरकार के सचिव।

सेवा में,

महालेखाकार, विहार,  
रांची।

अनौपचारिक

सब से परामर्शित।

विषय:-

द्वारा:- निम्न विभाग।

वित्तिय वर्ष 1986-87 में विहार राज्य जल विद्युत निगम  
लि०, पटना विहार स्टेट हाइड्रोइलेक्ट्रिक पावर कारपोरेशन  
लि०, पटना को राजकीय हिस्सा-पूँजी-अंशदान के रूप में  
128 करोड़ रुपये को स्वीकृति।

महाराज,

निदेशानुसार मुझे कहना है कि राज्य सरकार ने विहार राज्य  
जल विद्युत निगम लि०, पटना को राजकीय हिस्सा-पूँजी के रूप में 128 करोड़  
रुपये को स्वीकृति प्रदान की है।

2-राशि का विवरण बजट शीर्षक 534 विजली परियोजनाओं  
पर पूँजीगत परियोजना-जल विद्युत योजनाएँ-वर्ष 1986-87 के लिए उपबंधित राशि से होगा।

3-यह राशि भारतीय स्टेट बैंक, राजकाँतोनागर, पटना में  
विहार स्टेट हाइड्रोइलेक्ट्रिक कारपोरेशन लि० के खाते में जमा होगी तथा  
इस राशि को निकाली यह राशि-पूँजी निदेश, विहार राज्य जल विद्युत  
निगम लि०, पटना करेगी राशि का विमोचन चार ट्रेन्स में विस्त  
वि० के परामर्श से किया जायेगा। प्रथम दो तिमाहियों के 2945 लाख  
रुपये पहले एक मुस्त विमुक्त किया जाये, इसके बाद राशि का विमोचन  
नेटवर्क से संबंधित केन्द्र-कार्टाई के आधार पर किया जायेगा। अतः अनुरोध  
है कि 294.5 लाख रुपये का प्राधिकार-पत्र सचिवालय कोषागार, पटना  
का निर्गत किया जाये।

विभागाध्यक्ष,

ह/—

डि०पी०महेश्वरी

सरकार के सचिव।

उ.प्र. (नं०)

अ.प्र. 42243/अ.प्र. 21243 की ओर।

28/8



बिहार सरकार  
ऊर्जा विभाग

पत्रांक- 83-नं. वि-01/83-

पटना, दिनांक-

सेवा

श्री श्री पी. मोस्वरी,  
सरकार के सचिव,  
ऊर्जा विभाग, बिहार, पटना।

सेवा में,

महोदय, बिहार,  
पो- मिर्जापुर।

आगत- विद्युत विभाग।

अतिरिक्त  
स्व. से  
परामर्शित।

विषय- वित्तीय वर्ष 1987-88 के अन्तर्गत बिहार राज्य जल विद्युत निगम लि., पटना [बिहार स्टेट हाईड्रो-इलेक्ट्रिक पावर कारपोरेशन लि., पटना] के राजस्व हिस्सा शुद्धी व्यवधान के रूप में 17.50 करोड़ रुपये [सत्र करोड़ रुपये मात्र रुपये] की स्वीकृति।

समाख्य,

निम्नानुसार उपर्युक्त विषयक मुद्दे संश्लेषित करना है कि राज्य सरकार ने बिहार राज्य जल विद्युत निगम लि. पटना [बिहार स्टेट हाईड्रो इलेक्ट्रिक पावर कारपोरेशन लि., पटना] के वित्तीय वर्ष 1987-88 के अन्तर्गत राजस्व हिस्सा के रूप में 17.50 करोड़ रुपये [सत्र करोड़ रुपये मात्र रुपये] की स्वीकृति प्रदान की है।

2-उक्त राशि का विस्तार चरट कीर्ति " 4801- विद्युत परियोजनाओं पर दृष्टीगत परिसर - बिहार राज्य जल विद्युत निगम के हिस्सा-शुद्धी में व्यवधान" के अन्तर्गत वर्तमान वित्तीय वर्ष 1987-88 के लिए उपलब्ध राशि से होगा।

3- यह व्यवधान की राशि की विमुक्ति निम्नांकित ढंग से होगी-

- 1- योजित, 87 1.45 करोड़
- 11- वर्ष, 87 तथा फरवरी, 88 तक प्रति माह 1.45 करोड़
- 111-मार्च, 88 1.55 करोड़

4- यह राशि भारतीय स्टेट बैंक, राजबंशी नगर, पटना में बिहार राज्य जल विद्युत निगम लि. पटना [बिहार स्टेट हाईड्रो इलेक्ट्रिक पावर कारपोरेशन लि., पटना] के खाते में जमा होगी तथा इसकी निकषी अग्रिम-सह-प्रबंध निदेशक, बिहार राज्य जल विद्युत निगम लि. पटना द्वारा की जायेगी।

अतः अनुरोध है कि कृपया बिहार राज्य जल विद्युत निगम लि. पटना को उपर्युक्त फिल्टर एवं अनुपात यह व्यवधान की राशि की विमुक्ति हेतु प्राधिकार पत्र स्टेट बैंक ऑफ इन्डिया, राजबंशी नगर, पटना के माध्यम से मुगतान हेतु अधितम निर्गत किया जाय।

विस्वासमान,

80

श्री श्री पी. मोस्वरी,  
सरकार के सचिव, ऊर्जा विभाग,  
बिहार, पटना।

दिनांक-

22/2/88

प्रतिनिधि: अध्यक्ष-सह-प्रबंध निदेशक, बिहार राज्य जल विद्युत निगम लि., पटना/योजना विभाग, बिहार/वित्त विभाग, अर्थोपाय शाखा/यन शाखा, वित्त विभाग/राजस्व शाखा, वित्त विभाग/चरट शाखा, वित्त विभाग/चरट शाखा, ऊर्जा विभाग को सूचना एवं आवश्यक कार्रवाई हेतु आशयित।

780/CMD  
25/5/87  
7.2. Communication  
No. 316 25.5.87  
नं. 23-5-87

9588

श्री श्री पी. मोस्वरी,  
सरकार के सचिव, ऊर्जा विभाग,  
बिहार, पटना।

1989-90

Shree Gokul Singh, P.O. Gokul (10)

बिहार सरकार

ऊर्जा विभाग

पत्र संख्या

696

दिनांक

24/3/90

प्रेषक,

सरकार के अपर सचिव ।

सेवा में,

पैपकारिक  
से परामर्शित ।

महानिरीक्षक,  
बिहार, रांची ।

द्वारा:- वित्त विभाग । x

विषय:- वित्तीय वर्ष 1989-90 के अन्तर्गत बिहार राज्य जल विद्युत निगम, पटना द्वारा बिहार स्टेट हाइड्रोइलेक्ट्रिक पावर कारपोरेशन लि०, पटना को हिस्सा पूँजी के रूप में स्वीकृत 450 लाख रुपये के विमोचन की स्वीकृति ।

महाशय,

निदेशानुसार उपर्युक्त विषय के प्रसंग में बिहार राज्य जल विद्युत निगम लि०, पटना को स्वीकृत हिस्सा पूँजी की राशि 450 लाख रुपये के विमोचन की स्वीकृति प्रदान की जाती है ।

2- उक्त राशि राज्य सरकार द्वारा 1989-90 वित्तीय वर्ष में "480। विद्युत परियोजनाओं पर पूँजीगत परिव्यय-01-जाय विद्युत उत्पादन-000 वन्य रूप में केवेल परियोजना-बिहार राज्य जल विद्युत निगम के हिस्सा पूँजी में अंशदान" शीर्ष में विलिखित किया जायेगा ।

3- यह राशि भारतीय स्टेट बैंक, राजकीयनगर, पटना में बिहार स्टेट हाइड्रोइलेक्ट्रिक पावर कारपोरेशन लि०, पटना के खाते में जमा होगी तथा इसकी निकासी प्रबन्ध निदेशक, बिहार राज्य जल विद्युत निगम लि०, पटना करेंगे ।

अतः अनुरोध है कि 450 लाख रुपये का प्राधिकार-पत्र सचिवालय कोषागार, पटना को निर्गत किया जाय ।

विश्वासभाजन,

24/3/90

सरकार के अपर सचिव ।



विहार सरकार  
उर्जा विभाग

पत्र सं०

प्र 3/ज0नि0-01/85

दिनांक

प्रेषक:

श्रीमती बी० भामिनी,  
सरकार के अपर सचिव।

सेवा में,

महानिदेशाकार,  
विहार, राँची।

वित्त विभाग।

\* अनौपचारिक द्वारा:

रूप से  
परामर्शित। विषय:

वित्तीय वर्ष 1990-91 के अन्तर्गत विहार राज्य जल विद्युत  
निगम लि०, पटना। विहार स्टेट हाइड्रोइलेक्ट्रिक पावर  
कारपोरेशन लि० पटना। को हिस्सा पूँजी के रूप में 500 लाख  
रुपया एवं रुपया के रूप में 500 लाख रुपये की स्वीकृति।

महाराज,

निदेशानुसार उपर्युक्त विषय के प्रसंग में मुझे संशुद्ध करना  
है कि राज्य सरकार द्वारा वित्तीय वर्ष 1990-91 के अन्तर्गत विहार  
राज्य जल विद्युत निगम लि०, पटना। विहार स्टेट हाइड्रोइलेक्ट्रिक पावर  
कारपोरेशन, पटना। को, हिस्सा पूँजी के रूप में 500 लाख रुपये एवं रुपया के  
रूप में 500 लाख रुपये की स्वीकृति प्रदान की गयी है।

2. हिस्सा पूँजी मद में 2.50 करोड़ और रुपया मद में 2.50  
करोड़ जुलाई 90 में विमुक्त किया जायगा एवं सितम्बर महीने में 2.50 करोड़  
हिस्सा पूँजी मद में तथा 2.50 करोड़ रुपया मद विमुक्त किया जायगा।

3. इस राशि का व्यय वजेट राशि 4801 विद्युत परियोजनाओं  
पर परीक्षण परियोजना -01- जल विद्युत उत्पादन- 800 अन्य व्यय - अन्य  
क्षेत्रीय उपयोजना- विहार राज्य जल विद्युत निगम के हिस्सा पूँजी में आवंटन  
में विचलनीय होंगे।

4. रुपया की निम्न शर्तों रहेगा :-

क। इस रुपया पर पाँच वर्षों का स्थागन काल होगा।

ख। छठे वर्ष से पन्द्रहवें वर्ष तक आकलन के डेटा की  
तिथि से 10 वरावर वार्षिक किस्तों में प्रतिवर्ष मूलधन का भुगतान  
होगा।

ग। सुद की दर 13% प्रतिवर्ष प्रतिशत होगी।  
समय पर भुगतान होने पर 1/4% वोटार्ड प्रतिशत सुद में छूट तथा  
समय पर भुगतान नही होने पर 2 1/2% वोटार्ड प्रतिशत दंड देना होगा।

127/15/5/

॥घ॥ सूद की वापसी पर स्थगत काल नहीं होगा ।

॥च॥ सूद का भुगतान राशि आवलन की तिथि से एक वर्ष बाद प्रारम्भ किया जायेगा ।

॥छ॥ भारतीय अक्षिणा एवं लेखा विभाग को यह अधिकार होगा कि वे इस संस्थान का अक्षिणा करें ।

॥ज॥ राज्य की सीक्त निधि से स्वीकृत किये गए इस ऋण का लेखा संबंधित संस्थान द्वारा विन्कुल अलग रखा जायेगा ।

॥झ॥ वित्त विभाग के परिपत्रानुसार ऋण के रूप में स्वीकृत किये जा रहे 250 लाख रुपयों में से 25 % पूर्व स्वीकृत ऋण के विरुद्ध समर्जित किया जायेगा ।

॥5॥ ऋण के रूप में स्वीकृत किए जा रहे 250 लाख रुपयों का व्यय वजट शीर्ष 6801-विद्युत परियोजनाओं के लिए उद्यार योजना-बिहार राज्य जल विद्युत निगम को ऋण में विकलनीय होगा ।

॥6॥ उपर्युक्त दोनों राशि को निकासी मैनेजिंग डायरेक्टर, बिहार स्टेट हाइड्रोइलेक्ट्रिक पावर कारपोरेशन लि० पटना द्वारा की जायेगी ।

॥7॥ महालेखाकार बिहार से अनुरोध है कि हिस्सा पूंजी एवं ऋण के रूप में स्वीकृत किये जा रहे राशि उपर्युक्त निर्धारित किस्तों के अनुसार विमुक्ति हेतु प्राधिकार पत्र मैनेजिंग डायरेक्टर, बिहार स्टेट हाइड्रोइलेक्ट्रिक पावर कारपोरेशन लि०, पटना को भुगतान हेतु निर्गत करने की कृपा करें ।

विश्वासभाजन,

ह०/-

॥ बी० भामथी ॥

सरकार के अपर सचिव, ऊर्जा विभाग ।

ज्ञापक-

2622

पटना, दिनांक

9.6.60

प्रतिलिपि अध्यक्ष, बिहार राज्य जल विद्युत निगम, पटना/ प्रबन्ध निदेशक, बिहार राज्य जल विद्युत निगम लि०, पटना/ कोषागार पदाधिकारी, सचिवालय कोषागार पटना/ वित्त विभाग, अर्थोपाय शाखा/ ऋण शाखा/ राजस्व शाखा/ वजट शाखा/ ऊर्जा विभाग वजट & शाखा एवं गार्ड फाईल को सूचना एवं आवश्यक कार्रवाई हेतु प्रेषित ।

बी० भामथी

॥ बी० भामथी ॥

सरकार के अपर सचिव, ऊर्जा विभाग ।



## बिहार सरकार ऊर्जा विभाग

पत्रांक

पटना, दिनांक

प्रति,

श्री एम.एन.ए.ए.,  
बामुख-सह-सचिव ।

श्री एम.ए.ए.ए.,  
सहसंचालक, बिहार,  
पो-सि, रांची ।

धारा:- विस्तार विभाग ।

विषय:- वर्ष 1992-93 में बिहार राज्य जन विद्युत निगम लि., पटना को  
2443 लाख रुपये की हिस्सा पूंजी की विमुक्ति की स्वीकृति ।

महाराज,

उपरोक्त विवरण सन्दर्भ में मुझे सूचित किया है कि राज्य सरकार  
द्वारा प्रस्तुत वर्ष 1992-93 में बिहार राज्य जन विद्युत निगम लिमिटेड,  
पटना के वित्तगत वार्षिक परियोजनाओं के लिये एक लाख से अधिक की हिस्सा  
पूँजी के रूप में 2443 लाख । दो हजार चार सौ पचासी लाख । रुपये की  
विमुक्ति की स्वीकृति प्रदान की गयी है । अतः प्राकल्प है अनुसार बिहार  
राज्य जन विद्युत निगम के लिये 2443 लाख रुपये की राशि उपलब्ध है ।  
उक्त निगम की परिसर के निम्नानुसार हिस्सा पूँजी की वित्तगत निम्न-  
लिखित प्रकार से की जायेगी :-

1. प्रथम तिमाही	- 496 लाख रुपये ।
2. द्वितीय तिमाही	- 600 लाख रुपये ।
3. तृतीय तिमाही	- 562 लाख रुपये ।
4. चतुर्थ तिमाही	- 787 लाख रुपये ।

2।क। भारतीय बैंक एवं विस्तार बैंक निगम को यह अधिकार होगा  
कि वे बिहार राज्य जन विद्युत निगम लिमिटेड, पटना का बैंक हों ।

3।क। राज्य की सीमा निधि से स्वीकृत किए गए हिस्सा पूँजी का बैंक  
संश्लेष संस्थान द्वारा विस्तृत उत्तर रखा जाएगा ।

3।क। निगम के प्राधिकृत हिस्सा पूँजी 30 करोड़ रुपये में है निगम को  
47.33 करोड़ की राशि उपलब्ध करायी जा चुकी है । तत्काल प्राधिकृत  
हिस्सा पूँजी की शेष 263 लाख रुपये की अविलम्ब विमुक्ति दिया जाना है ।  
शेष राशि की विमुक्ति निगम की हिस्सा पूँजी की सीमा को 30 करोड़  
में बढ़ा कर 100 करोड़ रुपये निर्धारित है बाद दिया जायेगा ।

4।क। तत्काल 263 लाख रुपये हिस्सा पूँजी की विमुक्ति हेतु प्राधिकार  
पत्र निर्गत करने की कृपा करें ।

4. हिस्सा पूँजी में से राशि की विमुक्ति अक्टूबर 1991-विस्तृत  
परियोजनाओं पर पूँजीगत परिसर-01-जन विद्युत उत्पादन-800-अध्ययन  
अन्य क्षेत्रीय उप योजना बिहार राज्य निगम के हिस्सा पूँजी  
संश्लेष में विवरण दी गयी ।

59 यह राशि भारतीय स्टेट बैंक, राखीगंज नगर, पटना में बिहार स्टेट पावरहाउस लिमिटेड पावर कारपोरेशन लिमिटेड, पटना के खाते में जमा होगी।

60 इस राशि की निगामी हेतु प्राधिकार-पत्र अयुक्त-तह-प्रमुख निदेश, बिहार राज्य जन विप्लव निगम लिमिटेड, पटना के नाम सचिवालय कोलकाता, पटना के माध्यम से भिजा करने का कट करे।

70 अयुक्त-तह-प्रमुख निदेश, बिहार राज्य जन विप्लव निगम लिमिटेड, पटना के माध्यम से भिजा करने का कट करे।

सचिवालयभाजन,

80/-

। २० ६० पाण्डेय ।

अयुक्त-तह-प्रमुख,

जहाँ विभाग, बिहार सरकार,

पटना ।

पटना, दिनांक २५/५/६०

सदर को

प्रतिनिधि अयुक्त-तह-प्रमुख निदेश, बिहार राज्य जन विप्लव निगम लिमिटेड, पटना/वित्त विभाग, उद्योग विभाग/वित्त विभाग जहाँ राखीगंज/

जहाँ वित्त अयुक्त/कोलकाता पदाधिकारी सचिवालय/गाई साईन,

जहाँ विभाग को भुजाना।

अयुक्त-तह-प्रमुख

। २० ६० पाण्डेय ।

अयुक्त-तह-प्रमुख,

जहाँ विभाग, बिहार सरकार,

पटना ।



विहार सरकार,  
ऊर्जा विभाग।

देवा में,

योगायोगी  
र के गणनाभिधि।

द्वारा

विषय:

गणनायोगी, विहार,  
परी० वि०, गरी०।  
वित्त विभाग।

वर्ष 1994-95 में विहार राज्य जल विद्युत निगम लि०, पटना को पूर्वी गंडक नहर जल विद्युत परियोजना, बालीगंजिनगर के लिए वास्तु सम्पत्ति परियोजना अर्थात् 150 लाख रुपये की हिस्सा पूंजी की विनिष्ठा की स्वीकृति।

गणनायोगी,

उपर्युक्त विषयक संदर्भ में सूचित करना है कि राज्य सरकार द्वारा वर्ष 1994-95 में विहार राज्य जल विद्युत निगम लि०, पटना की 1439 लाख रुपये हिस्सा पूंजी एवं 1848 लाख रुपये ऋण राशि का बजट प्रावधान है। दिनांक 28.9.94 को योजना प्राधिकार समिति की बैठक में पूर्वी गंडक नहर जल विद्युत परियोजना, बालीगंजिनगर के लिए वर्ष 1994-95 150 लाख रुपये विनिष्ठा करने की स्वीकृति दी गई है।

योजना प्राधिकार समिति के उक्त निर्णय के आलोक में विहार राज्य जल विद्युत निगम लि० की पूर्वी गंडक नहर जल विद्युत परियोजना, बालीगंजिनगर के लिए 150 लाख रुपये हिस्सा पूंजी के रूप में विनिष्ठा किया जाएगा।

गणनायोगी अधिकांश एवं वित्त विभाग, बालीगंजिनगर योगा नि० के विहार राज्य जल विद्युत निगम लि०, पटना को सूचित करें।

राज्य की अर्जित निधि से स्वीकृत किये गये हिस्सा पूंजी का लेखा संबंधित संस्थान द्वारा विलंब अलग रखा जायेगा।

हिस्सा पूंजी मद में राशि की विनिष्ठा बजट शीर्ष सं०-II-4801 विद्युत परियोजनाओं पर पूर्वाग्रह परियोजना-01- जल विद्युत उत्पादन-800-अन्य उत्पादन क्षेत्रीय उपयोगिता विहार राज्य जल विद्युत निगम की हिस्सा पूंजी के अंतर्गत में विनिष्ठा होगी।

उक्त राशि की विहार राज्य जल विद्युत निगम लि०, पटना के नाम सचिवालय कोषागार, पटना के माध्यम से निर्दिष्ट करने का कष्ट करें।

अधिकांश एवं वित्त विभाग, विहार राज्य जल विद्युत निगम लि०, जल विद्युत परियोजना एवं वित्त विभाग, विहार द्वारा पुनिलक्षादीर्घा वि०

विहार सरकार,  
ऊर्जा विभाग,  
पटना।

दि० 20/10/94  
संयुक्त सचिव।

सापांक 1375

पटना, दिनांक 18/6/94

प्रतिलिपि प्रबन्ध निदेशक, बिहार राज्य जल विद्युत निगम  
 लि०, पटना/वित्त विभाग/अर्थीपार/अपर वित्त आयुक्त/कोषागार  
 पदाधिकारी, सचिवालय/उत्तर विभाग के गार्ड फाईल के लिए दूबनार्थ ।

(Note: All pages are signed)

१ के० के० सडिलाल १  
 संयुक्त सचिव ।



बिहार सरकार,  
ऊर्जा विभाग ।

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पत्रांक - प्र. 2/ल. नि. 9/94/

पटना, दिनांक

सेवा में,

वित्त विभाग द्वारा  
वनोपचारिक रूप से  
परामर्शित ।

महालेखाकार, बिहार,  
पौ०- बिन्नु, रांची ।

द्वारा- वित्त विभाग ।

विषय:- वर्ष 1994-95 में बिहार राज्य जल विद्युत निगम लि०, पटना को  
946 लाख रुपये की हिस्सा पूंजी की विमुक्त की स्वीकृति ।

महोदय,

उपर्युक्त विषय के संदर्भ में संयुक्त करना है कि राज्य सरकार द्वारा  
वर्ष 1994-95 में बिहार राज्य जल विद्युत निगम लि०, पटना को 1439 लाख  
रुपये हिस्सा पूंजी एवं 1348 लाख रुपये रुप का बजट प्रावधान है । उक्त बजट  
प्रावधान के क्रिड वर्ष 1994-95 के लिये बिहार राज्य जल विद्युत निगम लि०  
को 1096 लाख रुपये की उद्घाटन स्वीकृति है । 1096 लाख रुपये में से 150 लाख  
रुपये बिहार सरकार, ऊर्जा विभाग के पत्रांक 1375 दिनांक 18.6.94 के द्वारा  
विमुक्त किया जा चुका है । दिनांक 26.10.94 को योजना प्राधिकृत समिति  
की बैठक में लिये गये निर्णय के आलोक में शेष राशि 946 लाख रुपये निम्नलिखित  
प्रकारों के लिये शीघ्र विमुक्त किया जाना है :-

- क] स्थापना व्यय के लिए 296 लाख रुपये ।
- ख] वायु संपीकृत परियोजना - पूर्वी गंडक नहर जल विद्युत  
परियोजना, वाल्मोकिनगर के लिये 150 लाख रुपये ।
- ग] सोन पूर्वी संपीकृत नहर जल विद्युत परियोजना, बारुण, तेनु बाँकारो  
संपीकृत नहर जल विद्युत परियोजना के लिये क्रमशः 227 लाख रुपये  
एवं 152 लाख रुपये ।
- घ] उत्तर कोयल जल विद्युत परियोजना, मंडल, सोन परियोजना संपीकृत  
नहर जल विद्युत परियोजना, ठेठरी एवं धाँडिल डेम जल विद्युत  
परियोजना के लिये 101 लाख रुपये ।
- ङ] नवी परियोजनाओं के सर्वेक्षण एवं अन्वेषण कार्य के लिए 20 लाख  
रुपये ।
2. क] भारतीय अन्वेषण एवं वित्त अन्वेषण को यह अधिकार होगा कि वे  
बिहार जल विद्युत निगम लि०, पटना का अन्वेषण करें ।
- ख] राज्य की संचित निधि से स्वीकृत किए गए हिस्सा पूंजी का लेखा  
संबंधित संस्थान द्वारा बिल्वुल अलग रखा जायेगा ।

3. बिस्सा पूंजी मय में राशि को विमुक्ति बजट शीर्ष खंड-II-4801 विद्युत परियोजनाओं पर पूंजीगत परिव्यय-01-जल विद्युत उत्पादन-800-अन्य व्यय-अन्य क्षेत्रीय उपयोजना बिहार राज्य जल विद्युत निगम की बिस्सा पूंजी के आदान में विपलनीय होगी।
4. यह राशि भारतीय स्टेट बैंक आफ इंडिया, राजवंशीनगर, पटना में निगम के खाते में जमा होगी।
5. उक्त राशि को निकासी हेतु प्राधिकार पत्र प्रबन्ध निदेशक, बिहार राज्य जल विद्युत निगम लि०, पटना के नाम सचिवालय कोषागार, पटना के माध्यम से निर्गत किया जाएगा।
6. प्रबन्ध निदेशक, बिहार राज्य जल विद्युत निगम लि०, पटना का वस्ताक्षर सचिव, ऊर्जा विभाग द्वारा प्रतिहस्ताक्षरित किया जाएगा।

विरवासभाजन,

१ के. के. खंडेलवाल १  
संयुक्त सचिव,

ऊर्जा विभाग, बिहार सरकार, पटना।

आपांक- 3773

पटना, दिनांक 30/12/1968  
प्रतिलिपि प्रबन्ध निदेशक, बिहार राज्य जल विद्युत निगम लि०, पटना/  
वित्त विभाग [आर्थोपाय] / अपर वित्त आयुक्त / कोषागार पदाधिकारी,  
सचिवालय, पटना / गार्ड फाईल, ऊर्जा विभाग को सूचनाार्थ। (1)

१ के. के. खंडेलवाल १  
संयुक्त सचिव,

ऊर्जा विभाग, बिहार सरकार, पटना।



पत्र संख्या- ५०२/अ.नि.-२/१४

प्रेषक,

श्री के० के० तंडेलवाल,  
सरकार के सचिव।

सेवा में,

वित्त विभाग द्वारा  
अनौपचारिक रूप से  
परामर्शित।

महालेखाकार, बिहार,  
पो० - डिन्नु, राँची।

द्वारा- वित्त विभाग।

पटना, दिनांक

मई, १९९५

विषय:- वर्ष १९९५-९६ में बिहार राज्य जल विद्युत निगम लि०, पटना को  
पूर्वी गंडक नहर जल विद्युत परियोजना, वाल्मीकिनगर के लिए वाह्य  
सम्पोजित परियोजनान्तर्गत ३० लाख रुपये की हिसा पूंजी की  
विमुक्ति की स्वीकृति।

महाशय,

उपर्युक्त विषयक सन्दर्भ में सूचित करना है कि राज्य सरकार द्वारा  
वर्ष १९९५-९६ में बिहार राज्य जल विद्युत निगम लि०, पटना को १४३९ लाख  
रुपये हिसा पूंजी एवं १८४८ लाख रुपये की राशि का जट प्राधान है।  
दिनांक ३-५-९५ को प्राधिकृत समिति को बैठक में पूर्वी गंडक नहर जल विद्युत  
परियोजना, वाल्मीकिनगर के लिए अप्रैल, १९९५ में ३० लाख रुपये विमुक्ति  
करने की स्वीकृति पत्रांक-५८२ दिनांक ६-५-९५ के द्वारा दी गई है।

योजना प्राधिकृत समिति के उक्त निर्णय के अन्तर्गत में बिहार राज्य  
जल विद्युत निगम लि०, को पूर्वी गंडक नहर जल विद्युत परियोजना, वाल्मीकिनगर  
के लिये ३० लाख रुपये हिसा पूंजी के रूप में विमुक्ति प्रदान की जायेगी।

२।क। भारतीय अंशधारण एवं वित्त अधिनियम को यह अधिनियम होगा कि वे  
बिहार राज्य जल विद्युत निगम लि०, पटना का अधिनियम करेंगे।

३। राज्य के संचित निधि से स्वीकृत लिये गये हिसा पूंजी का लेखा  
संबंधित संस्थान द्वारा विलुप्त अलग रखा जायेगा।

४। हिसा पूंजी पर में राशि की विमुक्ति करत शीर्ष उड-११-४८०१  
विद्युत परियोजनाओं पर पूंजी का परिचय-०१-जल विद्युत उत्पादन-८०० अन्य-  
व्यय जन-जातिये क्षेत्रीय लघुपरियोजना बिहार राज्य जल विद्युत निगम की हिसा  
पूंजी के अंशदान में विकल्पनीय होगा।

५। उक्त राशि की निकासी के प्राधिकार पत्र प्रबन्ध निदेशक, बिहार  
राज्य जल विद्युत निगम लि०, पटना के नाम सचिवालय कोषानगर के माध्यम से  
निर्गम किया जायेगा।

६। प्रबन्ध निदेशक, बिहार राज्य जल विद्युत निगम लि०, पटना का  
हस्ताक्षर सचिव, उर्जा विभाग द्वारा प्रतिहस्ताक्षरित किया जायेगा।

6. यह राजि भारतीय स्टेट बैंक ऑफ इंडिया, राजवती नगर, पटना में निगम के कारो में जमा होगा ।

सिद्धान्तमानन,

२२-

§ के० के० सिलवाल §

संयुक्त सचिव, ऊर्जा विभाग, बिहार,

ज्ञापक E24 /

पटना, दिनांक ३१ मार्च, १९९५.

प्रतिलिपि प्रबन्ध निदेशक, बिहार राज नल निष्ठा निगम लि०, पटना /  
पित्त विभाग/अर्थोपाय/खार निता आयुका/सोवागार पदाधिकारी, सभिवानन /  
ऊर्जा विभाग के गार्ड फाईल के लिये सूचनार्थ ।

*संयुक्त*  
२२/३/९५

§ के० के० सिलवाल §

संयुक्त सचिव, ऊर्जा विभाग, बिहार सरकार ।  
१३/३/९५



बिहार सरकार,  
ऊर्जा विभाग ।

पत्रांक - प्र-2/ज.नि. - 194

पटना, दिनांक

सेवा में,  
वित्त विभाग द्वारा  
वनोपचारिक रूप से  
परामर्शित ।

महालेखाकार, बिहार,  
पट्टे 0 दिन्नु, रांची ।

द्वारा:- वित्त विभाग ।

बिषय: वर्ष 1995-96 में बिहार राज्य जल विद्युत निगम लि०, पटना को माह अप्रैल तथा मई, 95 में 54 लाख रुपये की हिस्सा पूंजी को विमुक्ति की स्वीकृति ।

महाराज,

उपर्युक्त बिषय के संदर्भ में सूचित करना है कि राज्य सरकार द्वारा वर्ष 1995-96 में बिहार राज्य जल विद्युत निगम लि०, पटना को 1439 लाख रुपये हिस्सा पूंजी एवं 1848 लाख रुपये ऋण राशि का बजट प्रावधान है । दिनांक 6-5-95 को योजना प्राधिकृत समिति के बैठक में माह अप्रैल तथा मई, 95 के दो रेगुलेशन के अन्तर्गत 54 लाख रुपये निम्नलिखित मदों के लिए विमुक्त किया जाना है ।

		अप्रैल, 95	मई, 95
1	क	सोन पूर्व संयोजक नहर जल विद्युत परियोजना, बारुण	
		2.1.65 मेगावाट	12.00 लाख
	ख	तेनु बोकारो संयोजक नहर जल विद्युत परियोजना	
		1.1 मेगावाट	15.00 लाख
2	क	भारतीय अक्षिण एवं वित्त अक्षिण को यह अधिकार होगा कि बिहार राज्य जल विद्युत निगम लि०, पटना का अक्षिण करें ।	
	ख	राज्य की संचित निधि से स्वीकृत किए गए हिस्सा पूंजी का लेखा सम्बन्धित संस्थान द्वारा बिस्कुल अलग रखा जायेगा ।	
3		हिस्सा पूंजी मद में राशि की विमुक्ति बजट शीर्ष 11-4801 विद्युत परियोजनाओं पर पूंजी गत परिष्कृत-01 जल विद्युत उत्पादन-800-वर्ष व्यय जन जाति के क्षेत्रीय उपयोग बिहार राज्य जल विद्युत निगम की हिस्सा पूंजी के अक्षिण में विकलनीय होगा ।	
4		यह राशि भारतीय स्टेट बैंक ऑफ इंडिया, राजेंद्री नगर, पटना में निगम के खाते में जमा होगी ।	

कू० पू० उ०

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5. उक्त राशि की निमासी हेतु प्राधिकार पत्र प्रबन्ध निदेशक बिहार राज्य जल विद्युत निगम लि०, पटना के नाम सचिवालय, कोषागार पटना के माध्यम से निर्गत किया जायेगा ।
6. प्रबन्ध निदेशक, बिहार राज्य जल विद्युत निगम लि०, पटना का हस्ताक्षर सचिव, ऊर्जा द्वारा प्रतिहस्ताक्षरित किया जायेगा ।

विवासभाजन,

ह०/-

॥ के०के० खडिलवाल ॥  
संयुक्त सचिव, ऊर्जा विभाग ।

जापाक ९११

पटना, दिनांक ३१/५/९५

प्रतिलिपि प्रबन्ध निदेशक, बिहार राज्य जल विद्युत निगम लि०, पटना/वित्त विभाग {आर्थोपाय}/अपर वित्त आयुक्त/कोषागार पदाधिकारी, सचिवालय, पटना/गार्ड फाईल, ऊर्जा विभाग को सूचना दी ।



॥ के०के० खडिलवाल ॥  
संयुक्त सचिव, ऊर्जा विभाग ।

॥ के०के० खडिलवाल ॥  
संयुक्त सचिव, ऊर्जा विभाग ।

Dr. M. Chatterjee

del.  
4/6



बिहार सरकार,  
ऊर्जा विभाग।

पत्र संख्या-पू० 2/ज० नि०-2/94/

प्रेषक,

श्री नवीन वर्मा,  
सरकार के अपर सचिव।

सेवा में,

विस्तृत विभाग द्वारा  
अनुपचारिक रूप से  
परामर्शित।

द्वारा:-

महालेखाकार, बिहार,  
पो-हिन्दू, रांची।  
वित्त विभाग।

134 प्रालो (जी)  
1293.

विषय:- वर्ष 1995-96 में बिहार राज्य जल विद्युत निगम लि०, पटना को पूर्वी  
गंडक नहर जल विद्युत परियोजना, वाल्मीकिनगर के लिये वाह्य  
सम्पोजित परियोजना न्तर्गत जुलाई, 1995 के लिये 20 लाख रुपये की  
हिस्सा पूंजी की विमुक्ति की स्वीकृति।

महाराष्ट्र,

उपर्युक्त विषयक सन्दर्भ में निदेशानुसार सूचित करना है कि राज्य सरकार  
द्वारा वर्ष 1995-96 में बिहार राज्य जल विद्युत निगम लि०, पटना को 1439 लाख  
रुपये हिस्सा पूंजी एवं 1848 लाख रुपये ऋण राशि का बजट प्रावधान है। दिनांक  
3.7.95 को विकास आयुक्त की अध्यक्षता में वाह्य सम्पोजित परियोजनाओं हेतु  
प्राधिकृत समिति की बैठक में पूर्वी गंडक नहर जल विद्युत परियोजना, वाल्मीकिनगर  
के लिये जुलाई, 1995 में 20 लाख रुपये विमुक्त करने की स्वीकृति पत्रांक 676  
दिनांक 5.7.95 द्वारा दी गई है। बिहार सरकार, ऊर्जा विभाग के पत्रांक 625  
दिनांक 27.5.95 के द्वारा 30 लाख रुपये अप्रैल, 1995 के लिये विमुक्त किया  
गया है।

योजना प्राधिकृत समिति के उक्त निर्णय के आलोक में बिहार राज्य जल  
विद्युत निगम लि० को पूर्वी गंडक नहर जल विद्युत परियोजना, वाल्मीकिनगर के लिये  
20 लाख रुपये हिस्सा पूंजी के रूप में विमुक्त किया जाता है।

2. कृ० भारतीय अविक्षण एवं वित्त अविक्षण को यह अधिकार होगा कि वे  
बिहार राज्य जल विद्युत निगम लि०, पटना का अविक्षण करें।

३. राज्य के संचित निधि से स्वीकृत किये गये हिस्सा पूंजी का लेखा  
संबंधित संस्थान द्वारा वित्कुल अलग रखा जायेगा।

3. हिस्सा पूंजी मद में राशि की विमुक्ति बजट शीट सं०-11-4801 विद्युत  
परियोजनाओं पर पूंजीगत परिव्यय-01-जल विद्युत उत्पादन-800 अन्य व्यय जन-  
जातिये क्षेत्रीय उपयोगना बिहार राज्य जल विद्युत निगम की हिस्सा पूंजी के  
अंशदान में विकलनीय होगा।

4. उक्त राशि की निकासी हेतु प्राधिकार पत्र प्रबन्ध निदेशक, बिहार राज्य जल विद्युत निगम लि०, पटना के नाम सचिवालय कोषागार के माध्यम से निर्गत किया जायेगा ।

5. प्रबन्ध निदेशक, बिहार राज्य जल विद्युत निगम लि०, पटना का हस्ताक्षर सचिव, ऊर्जा विभाग द्वारा प्रतिहस्ताक्षरित किया जायेगा ।

6. यह राशि भारतीय स्टेट बैंक ऑफ इंडिया, राजवर्षीनगर, पटना में निगम के खाता में जमा होगा ।

विश्वासभाजन,

ह०/-

॥ नवीन वर्मा ॥

सरकार के अपर सचिव ।  
ऊर्जा विभाग, बिहार सरकार ।

पटना, दिनांक २१ सितम्बर, १९९५.

ज्ञाप संख्या-

१२४१

प्र-तिलिपि : प्रबन्ध निदेशक, बिहार राज्य जल विद्युत निगम लि०, पटना/ वित्त विभाग/आर्थोपाय/ अपर वित्त आयुक्त/कोषागार पदाधिकारी, सचिवालय/ऊर्जा विभाग के गार्ड फाइल के लिए सूचनार्थ ।

॥ नवीन वर्मा ॥

सरकार के अपर सचिव ।

ऊर्जा विभाग, बिहार सरकार ।  
१२-९-९५

विभाग

-हस्ताक्षर-

विभा

लि०,

अवरयुक्त व

१२/९/९५

दृष्ट

विभा



संख्या-92/अ0नि0-3/93-

प्र. सं.

दिनांक-

श्री ए० के० सुभाषबाय,  
सरकार के सचिव ।

सेवा-में,

महालेखाकार, विद्यार्थी,  
प०-विन्नु, राणी ।

विद्यार्थी विभाग द्वारा  
अनुपचारिक रूप में  
विमर्शित ।

द्वारा:- विद्यार्थी विभाग ।

विषय:- वर्ष 1995-96 में विद्यार्थी राज्य जन विद्युत निगम लि०, पटना के लिए  
346 लाख रुपये विद्युत पूंजी तथा 247 लाख रुपये गुण की विमुक्ति की  
स्वीकृति ।

महोदय,

उपर्युक्त विषय के संदर्भ में निदेशानुसार संशुचित करना है कि राज्य  
सरकार द्वारा वित्तीय वर्ष 1995-96 में बिहार राज्य जन विद्युत निगम लि०,  
पटना को 346 लाख रुपये विद्युत पूंजी एवं 247 लाख रुपये गुण स्वीकृत किया है ।

2. गुण की शर्त एवं अन्य विवरण प्रसार है :-

॥क॥ 247 लाख रुपये गुण पर पाँच वर्षों का स्वतंत्र काल होगा ।

॥ख॥ छठे वर्ष से पन्द्रह वर्ष तक जायसन् की तिथि से एक शरावर वार्षिक  
वित्तों में प्रति वर्ष मुक्तान का भुगतान होगा ।

॥ग॥ मूद को दर 13 प्रतिशत प्रतिवर्ष होगा मगर समय पर भुगतान होने  
पर एक चौगार्ड प्रतिशत मूद में छूट तथा समय पर भुगतान नहीं होने पर द्वाप  
प्र-तिशत दंड मूद देना होगा ।

॥घ॥ मूद का भुगतान राशि जायसन् की तिथि से एक वर्ष बाद प्रारम्भ  
में हो किया जायेगा ।

॥ङ॥ भारतीय अवैधता एवं महालेखा निमित्त तथा वित्त अवैधता को यत्  
अधिकार होगा कि वे विद्यार्थी राज्य जन विद्युत निगम लि०, पटना के सेवा या  
अवैधता करें ।

॥च॥ राज्य की संचित निधि से स्वीकृत किये गये विद्युत पूंजी एवं  
गुण की सेवा संबंधित संग्रहण द्वारा अलग रखी जायेगी ।

3. विद्युत पूंजी पर गैर राशि की विमुक्ति वार्षिक शी 1 लाख-11-4805  
विद्युत परियोजनाओं पर पूंजीगत परिवर्धन-01-जल विद्युत उत्पादन-800-अन्य  
जल जन जातियों के शी उपयोजना विद्यार्थी राज्य जन विद्युत उत्पादन निगम की  
विद्युत पूंजी के अंशदान में विद्यमान होगी ।

4. इन के मद में राजीव जी विमर्श का कजट नो 5-6801-11 का  
परियोजनाओं के लिए उधार योजना-201-अन विद्युत उत्पादन विभाग राजा  
जल विद्युत निगम को इन में विकसनीय होगी ।

5. यह राजीव भारतीय स्टेट बैंक, राजधानी नगर, पटना में विद्युत  
स्टेट काफ़्फ़ोइलेक्ट्रिक पावर कारपोरेशन लि०, पटना के साते में बना होगी ।

6. उक्त राजीव की निमाती केतु प्राधिकार पत्र प्रकृष्ट निर्देश,  
विहार राज्य जल विद्युत निगम लि०, पटना के नाम मच्छिआला कोनागार, पटना  
के माध्यम से निर्मित किया जाय ।

7. प्रकृष्ट निर्देशक, विहार राज्य जल विद्युत निगम लि०, पटना का  
हस्ताक्षर मच्छि, ऊर्जा द्वारा प्रतिदस्ताक्षरित किया जायेगा ।

विरासतभाजन.

रु०/-

१ ए० डे० उपाध्याय १  
सरकार के सचिव ।

भाषाई- 1121

दिनांक- 25/3/76

प्रतिलिपि प्रकृष्ट निर्देशक, विहार राज्य जल विद्युत निगम लि०, पटना/  
पिस्त विभाग/अधोपाय/उपर विस्तृत आयुक्त/कोनागार पदाधिकारी, मच्छिआला  
कोनागार, पटना / गार्ड फाईल, ऊर्जा विभाग को सूचनाई ।

१ ए० डे० उपाध्याय १  
सरकार के सचिव ।

स॥  
स॥  
य

में  
दान,  
कारो  
लाय



बिहार सरकार  
ऊर्जा विभाग

पत्रांक - यो 19/96

पटना, दिनांक \_\_\_\_\_

वित्त विभाग द्वारा सेवामें,  
दनोपचारिक रूप से  
संरामर्शित ।

महाध्याकार, बिहार,  
पो 0 हिन्दू, राधो ।

द्वारा- वित्त विभाग ।

विषय:- बिहार राज्य जल विद्युत निगम के लिये 858.00 लाख रुपये  
१ आठ करोड़ अन्ठावन लाख रुपये मात्र १ की विमुक्ति  
के संबंध में ।

महाशय,

निदेशानुसार उपर्युक्त विषय के संबंध में सूचित करना है कि  
चालू वित्तीय वर्ष 1996-97 में बिहार राज्य जल विद्युत निगम के लिये  
1024.00 लाख रुपये हिस्सा पूंजी अंशदान के रूप में बट में उपवर्ष 1996-97  
उपबन्ध के विरुद्ध राज्य सरकार ने तत्काल व्यय के लिये हिस्सा पूंजी के  
अंशदान के रूप में 858.00 १ आठ सौ अन्ठावन लाख १ रुपये की किकासी की  
स्वीकृति प्रदान की है । जिसका व्यय बिहार राज्य जल विद्युत निगम, पटना  
द्वारा निम्नांकित परियोजनाओं पर उनके सामने दस्तिये गये मदों पर किया  
जायेगा ।

ऊर्जा परियोजना का नाम	कार्यमद में १ राशि लाख रु० में	स्थापना मदों १ राशि लाख रु० में
1. सोन पूर्वी नहर जल विद्युत परियोजना वास्ती १2x1.65 मेगावाट	30.00	20.00
2. तेनु बाँकारी स्थोलीक नहर जल विद्युत परियोजना १1x1 मेगावाट	60.00	40.00
3. उत्तरी कोयल जल विद्युत परियोजना १2x12 मेगावाट	188.00	90.00
4. गल्लिस लेम जल विद्युत परि १2x4 मेगावाट	292.00	58.00
5. मुदुर पठारी क्षेत्र में 5 अवद 10 फिलोवाट के जेनरेटिंग सेट संस्थापित करने के संबंध में ।	15.00	

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3-5  
Bihar.

(16) (21) (22)

कुलक परिचयजरा का नाम

- 6. सोजर घाघरी, सदनी एवं नैतरघाट जल विद्युत परियोजना के कार्यान्वयन हेतु केन्द्रीय चालित योजना ।
- 7. नयी योजनाओं के सर्वेक्षण एवं अनुसंधान के लिये ।

कार्य मूल में  
॥ राशि लाख रु० में ॥

स्थापना मूलों  
॥ राशि लाख रुपये में ॥

50.00 5.00

10.00

कुल योग:-

645.00

213.00

॥ रु० ॥

॥ रु० ॥

कुल योग "क" + "ख" = 858.00 लाख रुपये ।

इस मूल में होने वाला व्यय आय-व्यय शीर्ष 4801- विद्युत परियोजनाओं पर पूज्यगत परिस्वय -01 जल विद्युत उत्पादन 800- अन्य व्यय अन्य क्षेत्रीय उपयोगिता बिहार राज्य जल विद्युत निगम के विस्तार पूजा के आदान के अन्तर्गत वाला तृतीय वर्ष 1996-97 में उपबंधित राशि से विकसनीय होगा ।

उक्त राशि की निगरानी के लिये प्राधिकार पत्र प्रबंध निदेशक बिहार राज्य जल विद्युत निगम लि०, पटना के नाम सचिवालय कोषागार, पटना के माध्यम से निर्गत किया जायेगा ।

प्रबंध निदेशक, बिहार राज्य जल विद्युत निगम पटना द्वारा राशि को निकासी के परियोजनाएँ उपस्थापित लिये जाने वाले विषय सचिव, उर्जा विभाग द्वारा प्रतिवर्ताधरित किये जायेंगे ।

सचिव भाजन

४०/-

॥ ए० के० उपाध्याय ॥

सरकार के सचिव, उर्जा विभाग ।

जापानिक

पटना,

दिनांक

के लिये प्रेषित । प्रतिलिपि वित्त विभाग बिहार, पटना को सूचनार्थ एवं संसूचन

४०/-

॥ ए० के० उपाध्याय ॥

सरकार के सचिव, उर्जा विभाग

जापानिक

५-१-७७

पटना, दिनांक

प्रतिलिपि प्रबंध निदेशक, बिहार राज्य जल विद्युत निगम लि० पटना/ वित्त विभाग अर्थात्/ उर्जा वित्त आयुक्त कोषागार पटना को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित ।

३१/५/७७

॥ ए० के० उपाध्याय ॥

सरकार के सचिव, उर्जा विभाग ।

८८

पटना ।



**बिहार सरकार  
ऊर्जा विभाग ।**

पत्रांक-ग/ऊ.वि. 13/96 / पटना, दिनांक \_\_\_\_\_

**वित्त विभाग सेवा में,  
द्वारा औपचारिक  
रूप से परामर्शित ।**

**महानिरीक्षक, बिहार,  
पौ०-विन्. राधी ।**

**द्वारा- वित्त विभाग ।**

**विषय:-** वित्तीय वर्ष 1996-97 में बिहार राज्य जल विद्युत निगम लि० को ओ०ई०सी०एफ० समोपार्जित पूर्वी गंडक नहर जल विद्युत परियोजना, बाल्मोक्तिनगर के लिए 120 लाख रुपये ॥ एक करोड़ बीस लाख रुपये मात्र ॥ राज्य हिस्सा पूंजी अंशदान के रूप में विमुक्ति की स्वीकृति ।

**महोदय,**

निदेशानुसार उपर्युक्त विषय के संबंध में मुझे कहना है कि वार्षिक वित्तीय वर्ष 1996-97 योजना बजट में बिहार राज्य जल विद्युत निगम लि०, पटना के लिए कुल 102 लाख रुपये हिस्सा-पूंजी अंशदान का प्रावधान है । उक्त बजट प्रावधान के बिना राज्य सरकार ने बिहार राज्य जल विद्युत निगम लि०, पटना को ओ०ई०सी०एफ० समोपार्जित पूर्वी गंडक नहर जल विद्युत परियोजना, बाल्मोक्तिनगर के लिए 120 लाख रुपये ॥ एक करोड़ बीस लाख रुपये मात्र ॥ राज्य हिस्सा पूंजी के रूप में विमुक्त करने का निर्णय लिया है ।

2. यह राशि बजट शीर्ष "4901"-विद्युत परियोजना पर पूंजीगत परिव्यय-01-जल विद्युत उत्पादन-800-अन्य अन्य क्षेत्रीय उपयोजना-बिहार राज्य जल विद्युत निगम के हिस्सा-पूंजी में वित्तीय वर्ष 1996-97 में स्थानीय होगा ।

3. उक्त राशि को निदेशाधीन महानिरीक्षक, बिहार, राधी से प्राधिकार प्राप्त होने के पश्चात् प्रबन्ध निदेशक, बिहार राज्य जल विद्युत निगम द्वारा की जायेगी । दिनांक \_\_\_\_\_, ऊर्जा विभाग द्वारा प्रतिहस्ताक्षरित किया जायेगा ।

4. उक्त राशि को निदेशाधीन सचिव राज्य योजनाकार, सिवार्ड भवन, पटना से जो लायेगी ।

**वित्त विभाजन,**

॥ ए० वी० उपाध्याय ॥  
सरकार के सचिव, ऊर्जा विभाग, पटना ।

**ज्ञाप संख्या-**

पटना, दिनांक \_\_\_\_\_  
प्रतिनिधि वित्त विभाग, बिहार, पटना को सूचनाार्थ एवं आवायक  
कारवाई हेतु प्रेषित ।

॥ ए० वी० उपाध्याय ॥  
सरकार के सचिव, ऊर्जा विभाग, पटना ।

आप संख्या-

पटना, दिनांक

प्रतिलिपि होनागार पदाधिकारी, सचिवालय कोषागार,  
सिंघाई कन, पटना को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित ।

ह०/५

॥ ए० के० उपाध्याय ॥

सरकार के सचिव, ऊर्जा विभाग, पटना ।

आप संख्या-

२२५

पटना, दिनांक

१३/३/७५

प्रतिलिपि आयुक्त एवं सचिव, योजना एवं विकास विभाग/ अपर  
वित्त आयुक्त, अर्थोपाय शाखा, वित्त विभाग/ प्रबन्ध निदेशक, बिहार राज्य  
जल विद्युत निगम को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित ।

॥ ए० के० उपाध्याय ॥

सरकार के सचिव, ऊर्जा विभाग, पटना ।

१३/३



Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	To fault/ outage/ canal closure	Barun		Expected generation (KWH)	Actual generation (KWH)		Total Actual generation (KWH)	
					Running Hr. (Input format)			V	VI		
					V	VI					
			V	V	VI	V	VI		V	VI	
01-04-2009		0						-			0
02-04-2009		0						-			0
03-04-2009		0						-			0
04-04-2009		0						-			0
05-04-2009		0						-			0
06-04-2009		0						-			0
07-04-2009		0						-			0
08-04-2009		0						-			0
09-04-2009		0						-			0
10-04-2009		0						-			0
11-04-2009		0						-			0
12-04-2009		0						-			0
13-04-2009		0						-			0
14-04-2009		0						-			0
15-04-2009		0						-			0
16-04-2009		0						-			0
17-04-2009		0						-			0
18-04-2009		0						-			0
19-04-2009		0						-			0
20-04-2009		0						-			0
21-04-2009		0						-			0
22-04-2009		0						-			0
23-04-2009		0						-			0
24-04-2009		0						-			0
25-04-2009		0						-			0
26-04-2009		0						-			0
27-04-2009		0						-			0
28-04-2009		0						-			0
29-04-2009		0						-			0
30-04-2009		0						-			0
01-05-2009		0						-			0
02-05-2009		0						-			0
03-05-2009		0						-			0
04-05-2009		0						-			0
05-05-2009		0						-			0
06-05-2009		0						-			0
07-05-2009		0						-			0
08-05-2009		0						-			0
09-05-2009		0						-			0
10-05-2009		0						-			0
11-05-2009		0						-			0
12-05-2009		0						-			0
13-05-2009		0						-			0
14-05-2009		0						-			0
15-05-2009		0						-			0
16-05-2009		0						-			0
								-			0

## Barun

Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal closure		Running Hr. (Input format)		Expected generation (KWH)	Actual generation (KWH)	Total Actual generation (KWH)
17-05-2009		0						-		0
18-05-2009		0						-		0
19-05-2009		0						-		0
20-05-2009		0						-		0
21-05-2009	500	14.1603	4.7			02:30		1,469.00	1900	1900
22-05-2009	500	14.1603	4.95			01:00		618.86	500	500
23-05-2009	500	14.1603	4.85			04:05		2,475.94	2400	2400
24-05-2009		0						-		0
25-05-2009		0						-		0
26-05-2009	500	14.1603	4.1			04:05		2,093.06	2500	2500
27-05-2009	500	14.1603	4.1			05:15		2,691.08	3200	3200
28-05-2009	500	14.1603	4			01:45		875.15	900	900
29-05-2009	500	14.1603	3.7			01:35		732.42	1000	1000
30-05-2009	500	14.1603	3.8			03:15		1,544.01	1900	1900
31-05-2009	500	14.1603	4.25			06:35		3,497.99	3000	3000
01-06-2009		0						-		76900
02-06-2009		0						-		
03-06-2009		0						-		
04-06-2009		0						-		
05-06-2009		0						-		
06-06-2009		0						-		
07-06-2009		0						-		
08-06-2009		0						-		
09-06-2009		0						-		
10-06-2009		0						-		
11-06-2009		0						-		
12-06-2009		0						-		
13-06-2009		0						-		
14-06-2009		0						-		
15-06-2009		0						-		
16-06-2009		0						-		
17-06-2009		0						-		
18-06-2009		0						-		
19-06-2009		0						-		
20-06-2009		0						-		
21-06-2009		0						-		
22-06-2009		0						-		
23-06-2009		0						-		
24-06-2009		0						-		
25-06-2009		0						-		
26-06-2009		0						-		
27-06-2009		0						-		
28-06-2009		0						-		
29-06-2009		0						-		
30-06-2009		0						-		
01-07-2009	850	24.0725	5.45	00:47	00:47	23:13	0	26,892.37	19500	19500
02-07-2009	700	19.8244	5.15	01:09	01:09	22:51	0	20,597.06	16300	16300
03-07-2009	1150	32.5687	5.3	05:02	05:02	18:58	0	28,905.37	21700	21700
04-07-2009	1400	39.6488	5.5	03:05	03:05	20:55	0	40,271.43	29800	29800



## Barun

Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal closure		Running Hr. (Input format)		Expected generation (KWH)	Actual generation (KWH)	Total Actual generation (KWH)
05-07-2009	1650	46.729	5.2	01:21	01:21	22:39	0	48,592.51	39000	39000
06-07-2009	1500	42.4809	5.3	05:22	05:22	18:38	05:02	47,045.49	33800	36400
07-07-2009	1250	35.4007	5.4	02:17	02:17	21:43	14:54	61,801.12	38400	45200
08-07-2009	1650	46.729	5.75	03:44	03:44	20:16	0	48,078.17	40400	40400
09-07-2009	1650	46.729	5.45	01:36	01:36	22:24	00:55	52,427.69	41100	41400
10-07-2009	2300	65.1374	4.8	01:23	01:23	22:37	11:57	95,420.21	40600	48400
11-07-2009	2300	65.1374	4.45	09:43	09:43	14:17	05:08	49,690.84	27700	32200
12-07-2009	2100	59.4732	4.55	02:37	02:37	22:23	07:53	72,311.79	39100	43400
13-07-2009	2700	76.4656	4.75	09:39	02:01	14:21	15:22	95,295.25	24200	40400
14-07-2009	2700	76.4656	5	11:30	00:24	12:30	20:44	1,12,181.56	21000	42400
15-07-2009	2700	76.4656	4.75	13:03	01:19	10:57	21:13	1,03,151.90	18200	46600
16-07-2009	2700	76.4656	4.65	01:18	01:18	22:42	20:58	1,37,082.04	39800	59400
17-07-2009	2700	76.4656	4.1	01:52	01:52	22:08	21:21	1,20,360.57	40000	60200
18-07-2009	2700	76.4656	4.1	01:43	01:43	22:17	21:42	1,21,744.56	39500	60600
19-07-2009	2700	76.4656	4.65	01:41	05:41	22:19	18:22	1,27,716.51	9400	59200
20-07-2009	2700	76.4656	4.2	02:43	04:18	21:17	20:48	1,19,326.52	37400	55900
21-07-2009	2700	76.4656	4.65	02:36	07:36	21:24	17:08	1,20,967.05	37000	51400
22-07-2009	2700	76.4656	5.1	01:40	07:38	22:20	14:10	1,25,672.60	38200	51700
23-07-2009	1650	46.729	4.45	01:56	24:00:00	22:04	0	40,513.01	42500	42500
24-07-2009	1650	46.729	4.5	01:40	24:00:00	22:20	0	41,463.29	40900	40900
25-07-2009	1650	46.729	4.4	02:22	24:00:00	21:38	0	39,271.17	41600	41600
26-07-2009	1650	46.729	4.4	06:16	24:00:00	17:44	0	32,191.47	33000	33000
27-07-2009	1650	46.729	4.45	01:30	24:00:00	22:30	0	41,308.58	42500	42500
28-07-2009	1650	46.729	4.45	02:01	24:00:00	21:59	0	40,360.01	42500	42500
29-07-2009	1650	46.729	4.55	03:14	24:00:00	20:46	0	38,983.06	39500	39500
30-07-2009	1650	46.729	4.55	01:17	24:00:00	22:43	0	42,643.59	42200	42200
31-07-2009	1650	46.729	4.55	04:02	24:00:00	19:58	0	37,481.31	36100	36100
01-08-2009	1650	46.729	4.75	02:15	24:00:00	21:45		42,623.65	41300	41300
02-08-2009	1650	46.729	5.1	01:37	24:00:00	22:23		47,096.94	38700	38700
03-08-2009	1650	46.729	5	01:53	24:00:00	22:07		45,623.38	36200	36200
04-08-2009	1650	46.729	4.8	04:04	24:00:00	19:56		39,474.71	38200	38200
05-08-2009	1650	46.729	4.75	06:57	24:00:00	17:03		33,413.02	30300	30300
06-08-2009	1650	46.729	4.7	03:16	24:00:00	20:44		40,203.58	38000	38000
07-08-2009	1650	46.729	4.65	01:19	24:00:00	22:41		43,516.86	42200	42200
08-08-2009	1650	46.729	4.7	06:00	24:00:00	05:54		11,440.57	11800	41500
09-08-2009	0	0	0	24:00:00	24:00:00	0		-	0	
10-08-2009	0	0	0	24:00:00	24:00:00	0		-	0	
11-08-2009	0	0	0	24:00:00	24:00:00	0		-	0	
12-08-2009	0	0	0	24:00:00	24:00:00	0		-	0	
13-08-2009	1650	46.729	4.5	01:59	24:00:00	19:36		36,388.68	28900	28900
14-08-2009	1650	46.729	5	01:18	24:00:00	22:42		46,826.71	42500	40500
15-08-2009	1650	46.729	4.45	02:15	24:00:00	21:45		39,931.63	42500	42500
16-08-2009	1650	46.729	4.85	01:25	24:00:00	22:35		45,188.46	42800	42800
17-08-2009	1650	46.729	4.55	01:27	24:00:00	22:33		42,330.72	42600	42600
18-08-2009	1650	46.729	4.53	02:23	24:00:00	22:37		42,269.25	40100	40100
19-08-2009	1650	46.729	4.45	03:25	24:00:00	20:35		37,789.70	40800	40800
20-08-2009	1650	46.729	3.8	00:12	24:00:00	08:18		13,012.46	14900	14900
21-08-2009	1650	46.729	4.6	01:57	24:00:00	22:03		41,846.98	42600	42800
22-08-2009	1650	46.729	4.4	02:34	24:00:00	21:26		38,908.11	41700	42000



## Barun

Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal closure		Running Hr. (Input format)		Expected generation (KWH)	Actual generation (KWH)		Total Actual generation (KWH)
23-08-2009	1650	46.729	4.35	01:27	24:00:00	22:33		40,470.03	42800		42000
24-08-2009	1650	46.729	4.5	01:54	24:00:00	22:06		41,030.10	42600		42000
25-08-2009	1650	46.729	4.5	03:44	24:00:00	20:16		37,626.39	35500		35500
26-08-2009	1650	46.729	4.5	03:12	24:00:00	20:48		38,616.56	39500		39500
27-08-2009	1650	46.729	4.4	01:18	24:00:00	22:42		41,207.50	42400		42500
28-08-2009	1650	46.729	4.6	04:53	24:00:00	19:07		36,280.04	39100		39100
29-08-2009	1650	46.729	4.4	04:26	24:00:00	19:34		35,519.53	36600		36600
30-08-2009	1650	46.729	4.4	04:23	24:00:00	19:37		35,610.30	37000		37000
31-08-2009	1650	46.729	4.35	05:17	24:00:00	18:43		33,590.43	37000		37000
01-09-2009	1650	46.729	4.35	02:13	24:00:00	21:47		39,094.11	40000		40000
02-09-2009	1650	46.729	4.4	03:14	24:00:00	20:46		37,697.90	39600		39600
03-09-2009	1650	46.729	4.4	01:49	24:00:00	22:11		40,269.59	40900		40900
04-09-2009	1650	46.729	4.4	03:22	24:00:00	20:38		37,455.86	39000		39000
05-09-2009	1650	46.729	4.35	02:07	24:00:00	21:53		39,273.58	39400		39400
06-09-2009	1650	46.729	4.4	01:56	24:00:00	22:04		40,057.81	39100		39100
07-09-2009	1650	46.729	4.35	18:49	24:00:00	05:11		9,302.42	11000		11000
08-09-2009	1650	46.729	4.35	03:07	24:00:00	12:03		21,625.89	21700		21900
09-09-2009	1650	46.729	4.85	03:36	23:20	10:34	00:40	22,477.51	19200	800	20000
10-09-2009	1650	46.729	4.1	03:21	24:00:00	20:39		34,930.25	29600		29600
11-09-2009	1650	46.729	4.5	01:40	24:00:00	22:20		41,463.29	35000		35000
12-09-2009	1750	49.561	4.55	01:43	15:20	22:17	08:40	61,620.31	41000	8800	50000
13-09-2009	1650	46.729	4.7	02:34	24:00:00	21:26		41,560.94	40000		40000
14-09-2009	1650	46.729	4.85	02:41	24:00:00	21:19		42,653.90	40300		40300
15-09-2009	1650	46.729	4.6	01:28	24:00:00	22:22		42,447.96	42200		42200
16-09-2009	1750	49.561	4.45	01:10	19:46	22:50	04:14	52,704.37	41000	5000	44000
17-09-2009	2850	80.7137	4.35	02:16	03:34	21:44	20:26	1,30,712.52	40700	23500	64400
18-09-2009	2850	80.7137	4.4	01:50	02:37	22:10	21:23	1,36,552.45	40000	27600	67600
19-09-2009	2850	80.7137	4.35	01:57	02:20	22:03	21:40	1,35,517.37	40200	27000	67200
20-09-2009	1750	49.561	4.53	01:57	02:42	22:03	16:43	76,843.74	39300	16400	55600
21-09-2009	1750	49.561	4.75	01:43	01:44	22:17	16:56	81,510.98	40000	16000	56000
22-09-2009	2350	66.5534	4.7	01:25	01:24	22:35	20:26	1,18,799.95	40200	13300	55500
23-09-2009	1750	49.561	4.95	01:29	00:23	22:21	05:37	60,575.60	42800	3000	45800
24-09-2009	2350	66.5534	4.15	04:16	01:26	19:44	05:14	60,882.20	36300	3000	39300
25-09-2009	2350	66.5534	4.8	01:28	01:12	22:32	15:18	1,06,708.13	43300	9400	52700
26-09-2009	2350	66.5534	4.95	02:08	02:17	19:35	13:16	95,548.14	38100	9000	47100
27-09-2009	2350	66.5534	4.55	02:13	00:15	21:47	09:25	83,415.67	39500	9300	48800
28-09-2009	2550	72.2175	4.75	02:13	00:53	20:38	07:12	84,297.13	41100	8500	49800
29-09-2009	1650	46.729	4.9	03:22		22:16		45,014.15	40000		40000
30-09-2009	1650	46.729	5	01:44				-	42200		42200
01-10-2009	1650	46.729	5.5	01:34	01:24	16:56	03:46	46,971.11	20600		22800
02-10-2009	2300	65.1374	5.4	05:49	00:20	18:11	09:30	85,971.36	25500		34200
03-10-2009	2300	65.1374	4.95	05:43	03:48	18:17	20:12	1,09,551.80	29100		44400
04-10-2009	2300	65.1374	5.15	03:07	01:31	20:53	12:27	98,725.11	39500		49100
05-10-2009	2300	65.1374	5.35	17:40	17:51	06:20	06:09	38,408.38	14000		19000
06-10-2009	2500	70.8015	4.65	03:05	04:05	20:55	19:55	1,18,692.04	39000		59600
07-10-2009	3000	84.9618	4.35	02:31	03:00	21:29	21:00	1,38,625.43	41600		71600
08-10-2009	3200	90.6259	4.85	16:26	03:21	07:34	20:39	1,09,499.27	13800		4600
09-10-2009	3200	90.6259	4.4	15:29	06:39	08:31	17:21	91,066.14	15500		42000
10-10-2009	3200	90.6259	4.2	02:05	01:47	18:55	19:13	1,28,149.77	35400		60800



## Barun

Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal closure		Running Hr. (Input format)		Expected generation (KWH)	Actual generation (KWH)		Total Actual generation (KWH)
11-10-2009	3200	90.6259	4.55	01:26	01:00	11:56	11:37	85,736.57	17000		32000
12-10-2009	3200	90.6259	4.35	02:01	02:25	21:59	21:35	1,51,637.76	41600		73800
13-10-2009	3200	90.6259	4.4	02:05	02:40	21:55	21:20	1,52,265.87	42000		70000
14-10-2009	3200	90.6259	4.53	01:56	02:15	22:04	21:45	1,58,818.58	41800		60800
15-10-2009	3200	90.6259	5.05	01:13	00:20	22:47	09:58	1,32,332.48	41800		50000
16-10-2009	3200	90.6259	4.45	02:24	02:26	21:36	19:39	1,46,874.95	42000		54500
17-10-2009	3200	90.6259	4.65	02:39	02:34	21:21	21:26	1,59,181.04	40000		65000
18-10-2009	3200	90.6259	4.25	01:53	01:34	22:07	22:26	1,51,495.74	41500		70000
19-10-2009	3200	90.6259	4.3	01:41	01:37	22:19	22:23	1,53,794.13	41900		71100
20-10-2009	3200	90.6259	4.2	03:17	03:12	20:43	20:48	1,39,519.70	37600		64800
21-10-2009	3200	90.6259	4.1	02:55	02:54	21:05	21:06	1,38,384.84	41500		70000
22-10-2009	2800	79.2976	4.4	01:13	01:07	22:47	22:53	1,40,677.23	38200		60000
23-10-2009	2400	67.9694	5.15	02:02	00:49	21:58	10:26	1,00,133.01	42800		50000
24-10-2009	2400	67.9694	4.95	01:53	00:26	22:07	06:49	85,946.60	40000		45000
25-10-2009	1000	28.3206	5.1	00:29		14:31		18,511.90	14400		14000
26-10-2009	600	16.9924	5.1		00:21		05:39	4,322.98			3600
27-10-2009	600	16.9924	5.6	00:14	00:32	05:56	09:35	13,036.21	4000		9700
28-10-2009	600	16.9924	5.8	03:28		13:32		11,776.00	9300		9300
29-10-2009	1650	46.729	5.5	00:35		05:40		12,858.43	10800		8200
30-10-2009		0						-			2500
31-10-2009		0						-			0
01-11-2009		0						-			0
02-11-2009	500	14.1603	4.2	00:17		05:28		2,870.49	2900		2900
03-11-2009		0						-			0
04-11-2009		0						-			0
05-11-2009		0						-			0
06-11-2009		0						-			0
07-11-2009		0						-			0
08-11-2009		0						-			0
09-11-2009		0						-			0
10-11-2009		0		01:15		14:05		-	24600		24600
11-11-2009	1300	36.8168	5.25	01:53		22:07		37,742.97	29200		29200
12-11-2009	1050	29.7366	5.1	00:47		23:13		31,086.59	24000		24000
13-11-2009	850	24.0725	4.85	01:33		18:32		19,104.16	15900		15900
14-11-2009	850	24.0725	5.5	01:32		22:28		26,262.38	17100		17100
15-11-2009	700	19.8244	5.45	01:11		22:20		21,304.04	17000		17000
16-11-2009	800	22.6565	4.4	00:22		12:03		10,605.80	8700		8700
17-11-2009		0						-			0
18-11-2009	500	14.1603	4.75	00:14		05:26		3,226.59	4500		40500
19-11-2009	1050	29.7366	4.9	01:18		22:42		29,202.84	24500		24500
20-11-2009	1250	35.4007	4.75	02:32		21:28		31,870.00	27000		27000
21-11-2009	1250	35.4007	4.3	01:22		22:38		30,418.71	27200		27200
22-11-2009	1250	35.4007	4.4	04:03		16:47		23,081.00	25200		25200
23-11-2009		0						-			0
24-11-2009		0						-			0
25-11-2009		0						-			0
26-11-2009		0						-			0
27-11-2009		0						-			0
28-11-2009		0						-			0
								-			0



## Barun

Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal closure		Running Hr. (Input format)		Expected generation (KWH)	Actual generation (KWH)	Total Actual generation (KWH)
29-11-2009		0						-		0
30-11-2009		0						-		0
01-12-2009		0						-		0
02-12-2009	500	14.1603	5.35		00:37		04:08	2,764.64	6200	6200
03-12-2009	1000	28.3206	4.5		02:01		21:59	24,735.45	23700	23700
04-12-2009	1100	31.1526	4.3		03:04		20:56	24,757.87	23100	23100
05-12-2009	1600	45.3129	5	00:42	00:40	12:18	07:00	38,606.56	11200	11200
06-12-2009	1200	33.9847	4.5	01:45		15:50		21,378.63	7600	7600
07-12-2009	1000	28.3206	4	01:38		11:57		11,952.03	19800	19800
08-12-2009		0						-	11000	11000
09-12-2009		0						-		0
10-12-2009		0						-		0
11-12-2009		0						-		0
12-12-2009		0						-		0
13-12-2009		0						-		0
14-12-2009		0						-		0
15-12-2009		0						-		0
16-12-2009		0						-		0
17-12-2009		0						-		0
18-12-2009		0						-		0
19-12-2009		0						-		0
20-12-2009		0						-		0
21-12-2009		0						-		0
22-12-2009		0						-		0
23-12-2009		0						-		0
24-12-2009		0						-		0
25-12-2009		0						-		0
26-12-2009		0						-		0
27-12-2009		0						-		0
28-12-2009		0						-		0
29-12-2009		0						-		0
30-12-2009		0						-		0
31-12-2009		0						-		0
01-01-2010		0						-		0
02-01-2010		0						-		0
03-01-2010		0						-		0
04-01-2010	500	14.1603	3.8	00:49		11:41		5,550.53	8300	8300
05-01-2010	700	19.8244	3.75	00:59		11:09		7,318.43	7900	7900
06-01-2010		0						-		0
07-01-2010		0						-		0
08-01-2010		0						-		0
09-01-2010	800	22.6565	4.75	00:35		06:00		5,700.97	5800	5800
10-01-2010	800	22.6565	5.8	01:41		22:19		25,891.73	19100	18000
11-01-2010	800	22.6565	5.4	01:52		22:08		23,908.06	19000	19000
12-01-2010	900	25.4885	5.35	01:46		22:14		26,767.92	21300	21200
13-01-2010	1100	31.1526	5.35	01:39		22:21		32,888.03	25800	25800
14-01-2010	1100	31.1526	5.35	02:20		21:40		31,882.50	26000	26000
15-01-2010	1100	31.1526	5	01:58		22:02		30,300.98	24500	25000
16-01-2010	1000	28.3206	4.55	02:23		21:37		24,593.14	20000	20000



## Barun

Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal closure		Running Hr. (Input format)		Expected generation (KWH)	Actual generation (KWH)		Total Actual generation (KWH)
17-01-2010	700	19.8244	4.3	01:06		22:54		17,235.18	16000		16000
18-01-2010	800	22.6565	4.35	02:17		21:43		18,896.71	17300		17500
19-01-2010	1500	42.4809	5.3	02:16		21:44		43,202.34	34000		34000
20-01-2010	1650	46.729	5.2	02:12		21:48		46,768.95	40100		40100
21-01-2010	1650	46.729	5.35	04:39		19:21		42,710.29	37000		37000
22-01-2010	1600	45.3129	5.45	06:20		17:40		38,519.88	34000		32500
23-01-2010	1650	46.729	5.35	00:35		23:25		51,686.44	42500		42500
24-01-2010	2000	56.6412	5.1	01:20	02:50	22:40	02:50	65,036.05	42300	4800	47100
25-01-2010	2000	56.6412	5.05	00:49	11:25	23:11	10:54	86,075.04	42900	14700	57600
26-01-2010	2000	56.6412	4.45	01:58	14:00	22:02	12:10	76,107.93	39000	14000	53000
27-01-2010	1600	45.3129	4.25	01:32		22:28		38,199.82	39000		39000
28-01-2010	1400	39.6488	4.1	01:52		22:08		31,766.73	28800		28800
29-01-2010	1000	28.3206	3.95	02:09		21:51		21,580.54	21200		21200
30-01-2010	900	25.4885	3.95	02:05		21:55		19,481.75	21000		21000
31-01-2010	800	22.6565	3.45	01:37		20:23		14,066.89	18500		18500
01-02-2010	700	19.8244	3.65	01:08		15:42		10,030.08	10400		10200
02-02-2010	600	16.9924	4.55	01:52		22:08		15,108.57	13000		13000
03-02-2010	600	16.9924	4.4	01:45		20:00		13,202.24	13500		13500
04-02-2010	1200	33.9847	4.9	02:39		21:21		31,389.83	25700		25700
05-02-2010	1200	33.9847	5.35	02:11		21:49		35,021.70	19000		19000
06-02-2010	900	25.4885	5.7	08:10		15:50	01:40	22,447.56	14200	1800	16000
07-02-2010	900	25.4885	5.6	02:54		21:06		26,590.52	20500		20500
08-02-2010	900	25.4885	5.5	02:10		21:20		26,404.49	16500		16500
09-02-2010	900	25.4885	5.65	02:52		21:08		26,870.32	19000		19000
10-02-2010	900	25.4885	5.6	02:48		21:12		26,716.54	20100		20100
11-02-2010	900	25.4885	5.65	03:33		20:27		26,001.48	17500		17500
12-02-2010	900	25.4885	5.3	09:55		14:05		16,797.23	11200		11200
13-02-2010	800	22.6565	5.45	02:10		22:00		23,984.07	17100		17100
14-02-2010	800	22.6565	4.8	01:41		22:19		21,427.64	16800		16800
15-02-2010	800	22.6565	4.7	01:57		22:03		20,730.52	16500		16500
16-02-2010	700	19.8244	4.1	00:55		16:00		11,481.95	11500		11500
17-02-2010	600	16.9924	4.3	01:10		12:45		8,225.15	8300		8300
18-02-2010	500	14.1603	4.7	00:41		05:29		3,222.01	2600		2600
19-02-2010	600	16.9924	5.5	00:29		07:16		5,996.02	5600		5600
20-02-2010	0	0	0	24		0		-	0		0
21-02-2010	0	0	0	24		0		-	0		0
22-02-2010	0	0	0	24		0		-	0		0
23-02-2010	500	14.1603	5.35	00:18		03:32		2,363.32	2500		2500
24-02-2010	500	14.1603	5.5	00:43		06:25		4,412.21	4000		4000
25-02-2010	800	22.6565	5.5	00:41		04:06		4,510.77	3400		3300
26-02-2010	0	0	0	24		0		-	0		0
27-02-2010	0	0	0	24		0		-	0		0
28-02-2010	600	16.9924	5.5	01:22		13:08		10,836.84	7900		7900
01-03-2010	600	16.9924	5.05	01:59		22:01		16,680.46	13600		13600
02-03-2010	600	16.9924	4.8	02:34		21:26		15,434.62	12500		12600
03-03-2010	700	19.8244	5.2	01:56		18:59		17,277.77	14700		14700
04-03-2010	900	25.4885	5.4	02:50	01:20	21:10	00:35	26,430.74	20100	400	20500
05-03-2010	900	25.4885	4.6	01:30		22:30		23,291.46	22300		22300
06-03-2010	900	25.4885	4.15	02:10		21:50		20,390.34	15400		15400



## Barun

Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal closure	Running Hr. (Input format)	Expected generation (KWH)	Actual generation (KWH)	Total Actual generation (KWH)
07-03-2010	900	25.4885	4.15	02:07	21:53	20,437.03	15400	15400
08-03-2010	1000	28.3206	4	00:55	23:05	23,087.26	24300	24300
09-03-2010	1050	29.7366	4.53	00:56	15:04	17,919.19	20500	20500
10-03-2010	0	0	0	24	0	-	0	0
11-03-2010	0	0	0	24	0	-	0	0
12-03-2010	0	0	0	24	0	-	0	0
13-03-2010	0	0	0	24	0	-	0	0
14-03-2010	0	0	0	24	0	-	0	0
15-03-2010	0	0	0	24	0	-	0	0
16-03-2010	650	18.4084	5.43	00:30	1	11,914.09	9100	9100
17-03-2010	1050	29.7366	4	00:10	1	25,029.25	25800	25800
18-03-2010	1050	29.7366	4.35	01:55	22:05	25,220.69	25300	25300
19-03-2010	1050	29.7366	3.95	02:15	21:45	22,555.86	22700	22700
20-03-2010	1050	29.7366	4.2	02:15	21:45	23,983.45	19800	19800
21-03-2010	1050	29.7366	4.15	02:24	21:36	23,534.50	20600	20600
22-03-2010	1050	29.7366	4.15	02:36	21:24	23,316.59	20000	20000
23-03-2010	900	25.4885	3.55	01:46	16:22	13,075.10	13300	13300
24-03-2010	600	16.9924	3.45	00:55	02:00	1,035.18	1200	0
25-03-2010	0	0	0	24	0	-		
26-03-2010	0	0	0	24	0	-		
27-03-2010	0	0	0	24	0	-		
28-03-2010	0	0	0	24	0	-		
29-03-2010	0	0	0	24	0	-		
30-03-2010	0	0	0	24	0	-		
31-03-2010	0	0	0	24	0	-		



## Dehri

Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal closure				Running Hr.				Expected generation (KWH)	Actual generation				Total Actual generation
				I	II	III	IV	I	II	III	IV		I	II	III	IV	
22-05-2009	850	24.07	3.4	-	-	20:55	20:55	-	-	03:05	-	2,228.09			3000		3,000.00
23-05-2009	1770	50.13	3.3	-	-	10:01		-	-	13:05	-	19,108.18			12800		12,800.00
24-05-2009	1680	47.58	3.3	-	-	03:05		-	-	20:55	-	28,995.43			21000		21,000.00
25-05-2009	1401	39.68	3.6	-	-	02:02		-	-	21:58	-	27,702.48			21400		21,400.00
26-05-2009	1494	42.31	3.6	-	-	03:08		-	-	20:52	-	28,062.09			20300		20,300.00
27-05-2009	1062	30.08	3.7	-	-	07:42		-	-	16:18	-	16,015.03			12900		12,900.00
28-05-2009	730	20.67	4.3	-	-	05:03		-	-	18:57	-	14,873.54			9200		9,200.00
29-05-2009	560	15.86	4	-	-	06:17		-	-	17:53	-	10,016.37			7300		7,300.00
30-05-2009	547	15.49	4.2	-	-	01:48		-	-	22:12	-	12,752.74			17800		17,800.00
31-05-2009	1859	52.65	4	-	-	00:00		-	-	24	11:20	65,695.83			26000	18200	44,200.00
01-06-2009	2989	84.65	3.9	-	00:00	09:28	10:51	-	0	14:32	10:51	73,986.58			11500	17300	28,800.00
02-06-2009	1019	28.86	4.1	-	00:00	00:01	00:00	-	0	23:05	0	24,114.06			13000	0	13,000.00
03-06-2009	689	19.51	4.2	-	00:00	06:36	00:00	-	0	17:24	0	12,590.17			7300	0	7,300.00
04-06-2009	546	15.46	4.1	-	00:00	01:01	00:00	-	0	22:05	0	12,361.04			8100	0	8,100.00
05-06-2009	0	0		-	00:00	00:00	00:00	-	0	0	0	-			0	0	-
06-06-2009	0	0		-	00:00	00:00	00:00	-	0	0	0	-			0	0	-
07-06-2009	0	0		-	00:00	00:00	00:00	-	0	0	0	-			0	0	-
08-06-2009	0	0		-	00:00	00:00	00:00	-	0	0	0	-			0	0	-
09-06-2009	0	0		-	00:00	00:00	00:00	-	0	0	0	-			0	0	-
10-06-2009	477	13.51	4.7	-	17:06	18:05	00:00	-	06:54	05:01	0	6,680.13		4500	2500	0	7,000.00
11-06-2009	1852	52.45	4.4	-	18:07	05:48	23:19	-	05:53	18:12	00:41	50,463.23		8400	10600	700	19,700.00
12-06-2009	1339	37.92	4.4	-	02:42	22:05	00:00	-	21:18	01:55	0	34,201.64		22700	2300	0	25,000.00
13-06-2009	2562	72.56	4.2	-	01:02	11:47	01:13	-	22:04	12:13	22:47	1,53,541.13		40400	9200	1800	51,400.00
14-06-2009	2455	69.53	4.2	-	00:14	10:13	23:35	-	23:46	13:47	00:25	97,885.21		37100	5900	800	43,800.00
15-06-2009	1462	41.4	4.8	-	00:03	00:00	23:40	-	23:03	0	00:20	41,030.69		37400	0	600	38,000.00
16-06-2009	1495	42.34	4.4	-	00:05	21:22	00:00	-	20:01	02:38	0	37,254.25		31600	1900	0	33,500.00
17-06-2009	1290	36.53	4.6	-	02:03	00:00	00:00	-	21:57	0	0	32,568.36		25900	0	0	25,900.00
18-06-2009	897	25.4	5	-	01:18	00:00	00:00	-	22:42	0	0	25,456.70		23200	0	0	23,200.00
19-06-2009	1007	28.52	4.9	-	00:00	00:00	00:00	-	24	0	0	29,610.83		26600	0	0	26,600.00
20-06-2009	934	26.45	4.8	-	00:02	00:00	00:00	-	23:04	0	0	25,857.51		24000	0	0	24,000.00
21-06-2009	1098	31.1	4.9	-	00:01	00:00	00:00	-	23:05	0	0	31,053.51		25900	0	0	25,900.00
22-06-2009	1214	34.38	4.5	-	11:49	12:54	00:00	-	12:11	11:06	0	31,804.62		14700	13600	0	28,300.00
23-06-2009	1668	47.24	4.1	-	06:17	16:45	18:01	-	17:43	07:15	05:59	52,924.21		26800	7300	10100	44,200.00
24-06-2009	1860	52.68	4.2	-	00:01	09:38	00:00	-	23:05	14:22	0	73,152.28		30500	11900	0	42,400.00



## Dehri

Date	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal closure				Running Hr.				Expected generation (KWH)	Actual generation				Total Actual generation
25-06-2009	1981	56.1	4.2	-	00:00	19:15	09:47	-	24	04:45	14:13	89,388.00	27700	3900	13100	44,700.00
26-06-2009	2299	65.11	4	-	16:05	18:01	00:35	-	07:55	05:05	23:25	83,736.14	7900	5800	32800	46,500.00
27-06-2009	2942	83.32	3.7	-	22:04	01:39	02:16	-	01:56	32:22:00	21:44	87,188.72	2700	17200	31400	51,300.00
28-06-2009	2423	68.62	4.1	-	06:08	11:59	11:58	-	17:52	12:01	12:02	1,04,120.87	26200	10000	17600	53,800.00
29-06-2009	3213	90.99	3.8	-	00:02	08:04	16:08	-	23:04	15:02	07:52	1,40,330.20	36900	19400	10100	66,400.00
30-06-2009	2715	76.89	3.9	-	00:00	11:07	00:00	-	24	12:53	0	97,651.38	35500	15000	0	50,500.00
01-07-2009	2188	61.97	4.3	-	00:10	12:18	-	-	23:50	11:42	-	83,592.16	37,500.00	6500	-	44,000.00
02-07-2009	2059	58.31	4.2	-	00:00	18:58	-	-	24	05:02	-	62,779.28	35,200.00	4000	-	39,200.00
03-07-2009	2752	77.94	3.2	-	00:15	12:22	-	-	23:45	11:38	-	77,913.18	35,000.00	14200	-	49,200.00
04-07-2009	3453	97.79	3.5	-	02:02	01:45	-	-	21:58	22:15	-	1,33,617.83	34,500.00	29700	-	64,200.00
05-07-2009	4334	122.7	3.6	-	00:02	00:32	-	-	23:04	23:28	-	1,81,538.76	37,000.00	33300	-	70,300.00
06-07-2009	0	0	3.3	-	00:00	00:00	-	-	24	24	-	-	40,300.00	32700	-	73,000.00
07-07-2009	3957	112.1	3.5	-	00:00	00:15	-	-	24	23:45	-	1,65,356.50	41,800.00	32300	-	74,100.00
08-07-2009	3660	103.7	3.5	-	00:00	00:00	-	-	24	24	-	1,53,746.12	42,000.00	34800	-	76,800.00
09-07-2009	3660	103.7	3.5	-	01:24	01:04	-	-	22:36	22:56	-	1,45,845.28	39,800.00	34400	-	74,200.00
10-07-2009	3634	102.9	3.1	-	00:00	00:01	-	-	24	23:05	-	1,32,625.68	38,400.00	30800	-	69,200.00
11-07-2009	3587	101.6	2.8	-	00:27	00:34	-	-	23:33	23:26	-	1,17,990.50	33,500.00	36100	-	69,600.00
12-07-2009	3569	101.1	2.8	-	00:00	00:04	-	-	24	23:02	-	1,17,523.34	33,100.00	26100	-	59,200.00
13-07-2009	3823	108.3	2.6	-	01:55	02:07	-	-	22:05	21:53	-	1,09,273.53	30,100.00	24800	-	54,900.00
14-07-2009	3621	102.5	2.8	-	00:00	00:00	-	-	24	24	-	1,21,686.27	33,100.00	27400	-	60,500.00
15-07-2009	0	0	2.8	-	00:05	01:35	-	-	23:01	22:25	-	-	31,200.00	25000	-	56,200.00
16-07-2009	3824	108.3	2.7	-	00:00	01:01	-	-	24	23:05	-	1,21,552.15	30,700.00	26100	-	56,800.00
17-07-2009	3818	108.1	2.7	-	00:00	00:00	-	-	24	24	-	1,23,724.22	29,800.00	25600	-	55,400.00
18-07-2009	3824	108.3	2.8	-	01:25	01:33	-	-	22:35	22:27	-	1,20,565.71	29,500.00	24200	-	53,700.00
19-07-2009	3834	108.6	2.6	-	00:00	00:00	-	-	24	24	-	1,19,641.13	30,300.00	25000	-	55,300.00
20-07-2009	3643	103.2	2.8	-	02:24	02:32	-	-	21:36	21:28	-	1,09,842.97	25,900.00	21100	-	47,000.00
21-07-2009	3530	99.97	2.6	-	01:32	01:34	-	-	22:28	22:26	-	1,03,040.56	28,600.00	23300	-	51,900.00
22-07-2009	3660	103.7	2.6	-	01:04	01:12	-	-	22:56	22:48	-	1,08,818.09	30,300.00	24300	-	54,600.00
23-07-2009	3660	103.7	2.9	-	00:06	00:00	-	-	23:54	24	-	1,27,124.25	31,400.00	25300	-	56,700.00
24-07-2009	3484	98.67	2.9	-	00:08	00:07	-	-	23:52	23:53	-	1,20,632.22	30,300.00	25100	-	55,400.00
25-07-2009	3801	107.6	2.9	-	00:00	00:08	-	-	24	23:52	-	1,31,929.78	30,700.00	25700	-	56,400.00
26-07-2009	3801	107.6	2.9	-	00:05	00:07	-	-	23:55	23:53	-	1,31,746.04	30,300.00	26700	-	57,000.00
27-07-2009	3801	107.6	2.9	-	00:00	00:00	-	-	24	24	-	1,32,297.28	30,600.00	27100	-	57,700.00
28-07-2009	3801	107.6	2.8	-	01:01	00:24	-	-	22:05	22:36	-	1,18,909.15	28,200.00	25200	-	53,400.00
29-07-2009	4118	116.6	2.9	-	02:11	02:11	-	-	21:49	21:49	-	1,30,291.63	29,900.00	25900	-	55,800.00
30-07-2009	3965	112.3	2.8	-	00:00	00:00	-	-	24	24	-	1,33,246.64	31,300.00	26700	-	58,000.00



**Dehri**

Date	Discharge (Cumec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal closure				Running Hr.				Expected generation (KWH)	Actual generation				Total Actual generation
31-07-2009	3748	106.1	2.9	-	00:00	00:00	-	24	24	-	-	1,30,452.56	34,300.00	30200			64,500.00
01-08-2009	4110	116.4	3.5	-	00:01	00:00	-	23:05	24	0	0	1,69,352.21	38,100.00	37700	0		75,800.00
02-08-2009	3940	111.6	3.6	-	02:02	00:46	00:00	21:58	23:14	0	0	1,60,306.44	33,200.00	35300	0		68,500.00
03-08-2009	3938	111.5	3.8	-	00:42	07:55	00:00	23:18	16:05	0	0	1,47,362.02	38,300.00	19600	0		57,900.00
04-08-2009	38789	1099	3.8	-	00:44	00:00	10:10	23:16	0	13:50	#####	38,800.00	0	21200			60,000.00
05-08-2009	3894	110.3	3.7	-	01:14	13:05	11:17	22:46	10:01	12:43	1,63,916.57	38,100.00	15600	20600			74,300.00
06-08-2009	3576	101.3	3.9	-	03:06	09:22	15:42	20:53	20:53	08:18	1,74,592.10	34,300.00	20400	14500			69,200.00
07-08-2009	3679	104.2	4	-	01:11	00:00	02:04	22:49	0	21:56	1,64,663.23	39,500.00	0	34400			73,900.00
08-08-2009	3416	96.74	4	-	02:39	00:00	05:53	21:21	0	20:07	1,41,674.20	32,600.00	0	26400			59,000.00
09-08-2009	2711	76.78	4.4	-	00:05	00:00	00:00	23:01	0	24:00	1,40,232.23	34,300.00	0	25700			60,000.00
10-08-2009	2547	72.13	4.3	-	02:05	00:00	03:20	21:55	0	20:40	1,16,614.04	33,600.00	0	23800			57,400.00
11-08-2009	2952	83.6	4.1	-	01:05	00:00	00:10	22:55	0	23:50	1,41,480.19	36,200.00	0	33700			69,900.00
12-08-2009	3263	92.41	4	-	0	00:00	00:00	00:00	0		-	39,600.00	0	26600			66,200.00
13-08-2009	2669	75.59	4.3	-	03:05	00:00	00:00	20:55	0	24:00	1,28,895.68	32,900.00	0	26500			59,400.00
14-08-2009	3794	107.4	3.4	-	00:52	00:00	00:08	23:08	0	23:52	1,51,596.06	36,900.00	0	33700			70,600.00
15-08-2009	3852	109.1	3	-	0	00:00	00:00	00:00	0	24:00	69,347.78	35,300.00	0	31500			66,800.00
16-08-2009	3550	100.5	2.8	-	00:36	00:00	00:35	23:24	0	23:25	1,16,359.19	31,300.00	0	27800			59,100.00
17-08-2009	3677	104.1	2.8	-	3	00:00	02:50	21:00	0	21:10	1,08,551.23	28,100.00	0	25200			53,300.00
18-08-2009	3587	101.6	3.6	-	01:18	00:00	00:57	22:42	0	23:03	1,47,719.82	41,000.00	0	32000			73,000.00
19-08-2009	3555	100.7	3.3	-	00:07	00:00	00:08	23:53	0	23:52	1,40,068.58	39,900.00	0	32900			72,800.00
20-08-2009	3744	106	2.9	-	0	00:00	00:00	00:00	0	24	65,156.67	37,100.00	0	31800			68,900.00
21-08-2009	3500	99.12	3	-	3	00:00	02:44	00:00	0	21:16	55,834.49	28,700.00	0	27800			56,500.00
22-08-2009	3719	105.3	2.9	-	02:56	00:00	02:03	21:04	0	21:57	1,16,004.47	28,300.00	0	27700			56,000.00
23-08-2009	3823	108.3	2.9	-	07:59	00:00	03:30	16:01	0	20:03	99,982.06	22,000.00	0	23400			45,400.00
24-08-2009	3660	103.7	3.5	-	11:55	00:00	11:45	12:05	0	13:15	81,143.79	18,600.00	0	17600			36,200.00
25-08-2009	3512	99.46	3	-	0	00:00	00:00	00:00	0	24	63,226.74	35,300.00	0	30300			65,600.00
26-08-2009	3550	100.5	2.9	-	00:02	00:00	00:22	23:04	0	23:38	1,20,214.55	32,200.00	0	27800			60,000.00
27-08-2009	3492	98.9	2.8	-	0	00:00	00:00	00:00	0	24	58,675.57	31,200.00	0	26800			58,000.00
28-08-2009	3408	96.52	2.9	-	00:25	00:00	00:16	23:35	0	23:44	1,16,929.89	30,000.00	0	26900			56,900.00
29-08-2009	3408	96.52	2.9	-	0	00:00	00:00	00:00	0	24	59,309.28	30,700.00	0	26900			57,600.00
30-08-2009	3408	96.52	2.8	-	0	00:00	00:00	00:00	0	24	57,264.13	30,700.00	0	26700			57,400.00
31-08-2009	3408	96.52	2.8	-	9	00:00	08:50	15:00	0	15:10	71,977.83	19,200.00	0	16400			35,600.00
01-09-2009	3408	96.52	2.9	-	04:38	-	04:37	19:22	04:37	19:23	1,07,168.57	24,800.00		21400			46,200.00
02-09-2009	3530	99.97	2.9	-	02:03	-	06:49	21:57	06:49	17:11	1,17,617.52	30,100.00		18300			48,400.00
03-09-2009	3191	90.37	2.9	-	0	-	01:15	24	01:15	22:45	1,11,065.67	34,800.00		28600			63,400.00
04-09-2009	3550	100.5	-	-	00:56	-	01:31	23:04	01:31	22:29	-	30,400.00		25000			55,400.00



## Dehri

Date	Discharge (Cusec)	Discharge (Cume)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal closure				Running Hr.				Expected generation (KWH)	Actual generation		Total Actual generation
05-09-2009	3266	92.5	-	0	-	00:20	-	24	00:02	23:40	-	-	29,600.00	26400	56,000.00
06-09-2009	3408	96.52	2.9	01:55	-	02:07	-	22:05	02:07	21:53	1,13,882.05	-	26,800.00	24100	50,900.00
07-09-2009	3266	92.5	2.8	15:03	-	16:23	-	08:03	16:23	07:37	73,285.16	-	11,300.00	6700	18,000.00
08-09-2009	1401	39.68	3.7	13:05	-	0	-	10:55	0	-	14,149.59	-	13,800.00	0	13,800.00
09-09-2009	1000	28.32	3.9	13:05	-	0	-	10:01	0	-	9,767.91	-	10,400.00	0	10,400.00
10-09-2009	1150	32.57	4.2	03:00	-	16:00	-	21	16	08:00	9,661.64	-	28,000.00	10200	38,200.00
11-09-2009	3124	88.47	3.7	03:26	-	08:15	-	20:34	08:15	15:45	1,28,806.18	-	33,900.00	17300	51,200.00
12-09-2009	3761	106.5	3.4	0	-	15:05	-	24	15:05	08:55	1,53,474.87	-	40,000.00	12300	52,300.00
13-09-2009	3266	92.5	2.9	00:01	-	00:12	-	23:05	00:12	23:48	1,11,505.21	-	33,800.00	28900	62,700.00
14-09-2009	3208	90.85	2.7	00:01	-	00:00	-	23:05	0	24:00:00	49,993.14	-	30,100.00	26700	56,800.00
15-09-2009	3706	105	3.1	00:08	-	00:10	-	23:52	00:01	23:50	1,37,072.71	-	33,500.00	27800	61,300.00
16-09-2009	3616	102.4	2.8	01:01	-	04:47	-	22:05	04:47	19:13	1,16,665.95	-	32,300.00	20400	52,700.00
17-09-2009	3362	95.21	2.8	00:00	-	00:00	-	24	0	24	1,12,982.40	-	29,400.00	25200	54,600.00
18-09-2009	3843	108.8	2.9	00:00	-	01:33	-	24	01:33	22:27	1,33,759.12	-	31,000.00	25300	56,300.00
19-09-2009	3530	99.97	2.8	00:00	-	00:00	-	24	0	24	1,18,628.15	-	31,000.00	27200	58,200.00
20-09-2009	3453	97.79	3.1	00:01	-	00:20	-	23:05	00:02	23:40	1,25,216.98	-	39,700.00	32900	72,600.00
21-09-2009	3603	102	3.3	00:07	-	00:05	-	23:53	00:05	23:55	1,42,356.20	-	38,700.00	24300	63,000.00
22-09-2009	3633	102.9	3.5	00:33	-	06:31	-	23:27	06:31	17:19	1,50,333.35	-	40,000.00	33500	73,500.00
23-09-2009	3561	100.8	3.5	00:23	-	00:00	-	23:37	0	24	1,48,392.79	-	39,900.00	32800	72,700.00
24-09-2009	3561	100.8	3.6	00:00	-	00:00	-	24	0	24	1,53,861.34	-	40,100.00	33600	74,300.00
25-09-2009	3530	99.97	3.5	00:28	-	00:00	-	23:22	0	24	1,46,328.65	-	38,400.00	33200	72,000.00
26-09-2009	3468	98.22	3.6	01:27	-	00:40	-	22:33	00:04	23:20	1,43,443.51	-	36,600.00	34900	71,500.00
27-09-2009	3338	94.53	3.4	01:45	-	00:00	-	22:15	0	24	1,31,247.42	-	39,900.00	32800	72,700.00
28-09-2009	3456	97.88	3.3	00:15	-	00:00	-	23:45	0	24	1,36,167.93	-	36,600.00	34900	71,500.00
29-09-2009	3540	100.3	3.6	01:01	-	00:00	-	22:59	0	24	1,49,714.34	-	36,100.00	33100	71,400.00
30-09-2009	3758	106.4	3.5	00:38	-	00:00	-	23:22	0	24	1,55,779.91	-	38,300.00	33700	69,800.00
01-10-2009	3450	97.71	3.4	00:02	-	0	-	23:40	-	24	1,39,806.25	-	39,400.00	35600	75,000.00
02-10-2009	3512	99.46	2.9	00:48	-	00:16	-	23:12	-	23:44	1,19,521.96	-	33,100.00	29300	62,400.00
03-10-2009	3677	104.1	2.8	0	-	0	-	24	-	24	1,23,568.19	-	31,200.00	26700	57,900.00
04-10-2009	3508	99.35	2.7	0	-	00:17	-	24	-	23:43	1,13,007.49	-	32,200.00	27500	59,700.00
05-10-2009	3677	104.1	2.9	00:51	-	00:44	-	23:09	-	23:16	1,23,759.74	-	34,300.00	28800	63,100.00
06-10-2009	3660	103.7	2.9	0	-	0	-	24	-	24	1,27,389.64	-	30,900.00	37100	68,000.00
07-10-2009	3660	103.7	2.8	01:00	-	01:01	-	23	-	22:59	58,893.31	-	29,200.00	26000	55,200.00
08-10-2009	3660	103.7	2.7	0	-	0	-	24	-	24	1,18,604.15	-	30,100.00	26600	56,700.00
09-10-2009	3660	103.7	2.8	00:05	-	00:06	-	23:55	-	23:54	1,22,527.12	-	30,500.00	21400	51,900.00
10-10-2009	3801	107.6	2.8	00:55	-	00:41	-	23:05	-	23:19	1,23,477.46	-	30,100.00	26400	56,500.00



## Dehri

Date	Discharge (Cusec)	Discharge (Cume)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal closure				Running Hr.		Expected generation (KWH)	Actual generation		Total Actual generation		
11-10-2009	3801	107.6	2.8	-	00:05	-	0	-	23:55	-	24	1,27,513.54	30,400.00	26600	57,000.00
12-10-2009	3530	99.97	2.8	-	0	-	0	-	24	-	24	1,18,628.15	29,400.00	25300	54,700.00
13-10-2009	3530	99.97	2.7	-	00:05	-	0	-	23:55	-	24	1,14,192.84	30,800.00	26400	57,200.00
14-10-2009	3866	109.5	2.9	-	00:12	-	00:05	-	23:48	-	23:55	1,33,765.39	33,100.00	28200	61,300.00
15-10-2009	3761	106.5	3.1	-	00:35	-	0	-	23:25	-	24	1,38,232.40	35,900.00	30000	65,900.00
16-10-2009	4050	114.7	2.9	-	00:52	-	00:33	-	23:08	-	23:27	1,36,803.55	33,900.00	29300	63,200.00
17-10-2009		0	3	-	0	-	0	-	24	-	24	-	34,000.00	28700	62,700.00
18-10-2009		0	3	-	00:05	-	0	-	23:55	-	24	-	33,400.00	28000	61,400.00
19-10-2009		0	3.1	-	00:18	-	00:10	-	23:42	-	23:50	-	34,200.00	28700	62,900.00
20-10-2009	3905	110.6	3	-	00:18	-	0	-	24	-	24	1,40,603.89	33,400.00	28400	61,800.00
21-10-2009	3775	106.9	3.1	-	00:05	-	00:30	-	23:55	-	23:30	1,38,746.96	35,800.00	30400	66,200.00
22-10-2009	3845	108.9	3.3	-	01:02	-	01:02	-	22:58	-	22:58	1,45,731.03	38,800.00	32700	71,500.00
23-10-2009	4212	119.3	3.5	-	00:03	-	00:31	-	23:30	-	23:29	1,73,186.50	41,900.00	35100	77,000.00
24-10-2009	4228	119.7	3.5	-	0	-	0	-	24	-	24	1,77,606.17	42,100.00	35400	77,500.00
25-10-2009	3693	104.6	3.6	-	00:02	-	0	-	23:04	-	24	1,56,462.06	40,600.00	37600	78,200.00
26-10-2009	3999	113.3	3.6	-	00:01	-	0	-	23:50	-	24	1,72,186.20	42,000.00	35900	77,900.00
27-10-2009	3988	112.9	3.6	-	0	-	0	-	24	-	24	1,72,310.87	40,400.00	38200	78,600.00
28-10-2009	3609	102.2	3.8	-	00:45	-	00:53	-	23:15	-	23:07	1,58,997.45	39,400.00	36400	75,800.00
29-10-2009	3776	106.9	3.7	-	00:01	-	00:25	-	23:50	-	23:35	1,65,645.08	41,400.00	37500	78,900.00
30-10-2009	3986	112.9	3.7	-	00:02	-	0	-	23:40	-	24	1,75,779.25	40,800.00	35500	76,300.00
31-10-2009	3022	85.58	3.7	-	00:01	-	0	-	23:50	-	24	1,33,733.63	39,400.00	34300	73,700.00
01-11-2009	3422	96.91	3.6	-	00:30	-	00:20	-	23:30	-	23:40	1,45,288.58	39,000.00	33500	72,500.00
02-11-2009	1623	45.96	4.1	-	10:05	-	02:06	-	13:10	-	21:54	58,345.94	20,600.00	30400	51,000.00
03-11-2009	2657	75.25	4.4	-	16:24	-	0	-	07:36	-	24	92,373.01	10,600.00	37800	48,400.00
04-11-2009	2456	69.56	4.3	-	00:50	-	00:10	-	18:56	-	23:50	1,12,931.74	24,500.00	26900	51,400.00
05-11-2009	2349	66.53	4.3	-	04:10	-	0	-	19:50	-	24	1,10,705.65	31,400.00	24600	56,000.00
06-11-2009	2562	72.56	3.9	-	02:04	-	01:22	-	21:56	-	22:38	1,11,344.22	37,800.00	23400	61,200.00
07-11-2009	3449	97.68	3.8	-	00:12	-	00:10	-	23:48	-	23:50	1,56,099.52	39,400.00	37400	76,800.00
08-11-2009	3540	100.3	3.8	-	00:12	-	0	-	23:48	-	24	1,60,778.72	39,000.00	36100	75,100.00
09-11-2009	3104	87.91	4	-	0	-	00:36	-	24	-	23:24	1,47,154.60	41,300.00	28200	69,500.00
10-11-2009	3564	100.9	3.8	-	01:10	-	00:35	-	22:50	-	23:25	1,56,619.86	38,500.00	37600	76,100.00
11-11-2009	3005	85.1	3.9	-	09:26	-	06:52	-	14:34	-	17:08	92,892.82	24,800.00	22500	47,300.00
12-11-2009	2005	56.78	4.6	-	0	-	0	-	0	-	24.00	55,347.40	-	32200	32,200.00
13-11-2009	1560	44.18	4.5	-	0	-	0	-	0	-	24	42,127.16	-	32600	32,600.00
14-11-2009	1560	44.18	4.4	-	0	-	00:30	-	0	-	23:30	40,332.85	-	40800	40,800.00
15-11-2009	1694	47.98	4.4	-	0	-	00:30	-	0	-	23:30	43,797.34	-	39200	39,200.00



## Dehri

Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal closure				Running Hr.				Expected generation (KWH)	Actual generation				Total Actual generation
16-11-2009	1631	46.19	4.4	-	0	-	14:08	-	0	-	09:52	17,704.79	-			15400	15,400.00
17-11-2009	1732	49.05	4.1	-	12:45	-	14:25	-	11:50	-	09:35	38,027.47	16,300.00			14500	30,800.00
18-11-2009	3363	95.24	3.9	-	01:05	-	02:20	-	22:55	-	21:40	1,46,210.25	31,100.00			33500	64,600.00
19-11-2009	2815	79.72	3.7	-	00:01	-	0	-	23:50	-	00:00	1,24,573.19	37,200.00			35900	73,100.00
20-11-2009	2815	79.72	3.9	-	06:15	-	04:30	-	17:45	-	19:30	1,02,254.65	25,500.00			28700	54,200.00
21-11-2009	2955	83.69	4.4	-	17:25	-	0	-	06:35	-	00:00	99,428.02	7,000.00			41500	48,500.00
22-11-2009	2975	84.25	3.8	-	03:30	-	04:30	-	20:30	-	19:30	1,13,069.21	29,400.00			26600	56,000.00
23-11-2009		0	3.8	-	20:45	-	-	-	03:15	-	-	-	2,500.00			0	2,500.00
24-11-2009		0		-	-	-	-	-	-	-	-	-					-
25-11-2009		0		-	-	-	-	-	-	-	-	-					-
26-11-2009		0		-	-	-	-	-	-	-	-	-					-
27-11-2009		0		-	-	-	-	-	-	-	-	-					-
28-11-2009		0		-	-	-	-	-	-	-	-	-					-
29-11-2009		0		-	-	-	-	-	-	-	-	-					-
30-11-2009		0		-	-	-	-	-	-	-	-	-					-
01-12-2009		0		-	-	-	-	-	-	-	-	-					-
02-12-2009		0		-	-	-	-	-	-	-	-	-					-
03-12-2009		0		-	-	-	-	-	-	-	-	-					-
04-12-2009		0		-	-	-	-	-	-	-	-	-					-
05-12-2009		0		-	-	-	-	-	-	-	-	-					-
06-12-2009		0		-	-	-	-	-	-	-	-	-					-
07-12-2009		0		-	-	-	-	-	-	-	-	-					-
08-12-2009		0		-	-	-	-	-	-	-	-	-					-
09-12-2009		0		-	-	-	-	-	-	-	-	-					-
10-12-2009		0		-	-	-	-	-	-	-	-	-					-
11-12-2009		0		-	-	-	-	-	-	-	-	-					-
12-12-2009		0		-	-	-	-	-	-	-	-	-					-
13-12-2009		0		-	-	-	-	-	-	-	-	-					-
14-12-2009		0		-	-	-	-	-	-	-	-	-					-
15-12-2009		0		-	-	-	-	-	-	-	-	-					-
16-12-2009		0		-	-	-	-	-	-	-	-	-					-
17-12-2009		0		-	-	-	-	-	-	-	-	-					-
18-12-2009		0		-	-	-	-	-	-	-	-	-					-
19-12-2009		0		-	-	-	-	-	-	-	-	-					-
20-12-2009		0		-	-	-	-	-	-	-	-	-					-
21-12-2009		0		-	-	-	-	-	-	-	-	-					-



## Dehri

Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal closure				Running Hr.				Expected generation (KWH)	Actual generation		Total Actual generation
22-12-2009		0		-	-	-	-	-	-	-	-	-			-
23-12-2009		0		-	-	-	-	-	-	-	-	-			-
24-12-2009		0		-	-	-	-	-	-	-	-	-			-
25-12-2009	2324	65.82	3.9	-	-	22:10	10:43	-	01:05	13:17	32,558.96	-			-
26-12-2009	2324	65.82	4	-	-	18:45	00:07	-	6	23:53	55,514.30	-			-
27-12-2009	1780	50.41	3.7	-	-	-	05:55	-	0	18:05	29,779.27	-			-
28-12-2009	1594	45.14	4.5	-	-	-	02:20	-	0	21:40	38,860.35	-			-
29-12-2009		0	4.3	-	-	-	05:05	-	0	18:55	-	-			-
30-12-2009	3718	105.3	3.9	-	-	15:05	07:25	-	08:55	16:35	92,454.48	-			-
31-12-2009	1668	47.24	4	-	-	21:25	04:50	-	02:35	19:10	36,285.16	-			-
01-01-2010	1557	44.1	4.4	-	-	-	03:00	-	-	-	-	-			-
02-01-2010	1711	48.46	4.1	-	-	20:10	04:00	-	03:50	-	6,723.95	-			-
03-01-2010	1337	43.53	3.5	-	-	-	02:20	-	-	-	-	-			-
04-01-2010	1395	39.51	4.1	-	-	18:20	05:02	-	05:40	-	8,104.00	-			-
05-01-2010	1796	50.86	4	-	-	-	02:49	-	-	-	-	-			-
06-01-2010	1009	28.58	3.9	-	-	-	02:26	-	-	-	-	-			-
07-01-2010	920	26.05	4	-	-	-	06:46	-	-	-	-	-			-
08-01-2010	1427	40.41	3.5	-	-	19:05	04:52	-	04:55	-	6,140.12	-			-
09-01-2010	1859	52.65	3.4	-	-	10:25	-	-	13:35	-	21,467.35	-			-
10-01-2010	3432	97.2	3.4	-	-	04:35	-	-	19:25	-	56,651.92	-			-
11-01-2010	2666	75.5	3.2	-	-	15:35	21:00	-	08:25	-	17,954.12	-			-
12-01-2010	1852	52.45	4.1	-	-	14:25	-	-	09:35	-	18,195.13	-			-
13-01-2010	2606	73.8	4.1	-	-	10:18	01:30	-	13:42	-	36,600.97	-			-
14-01-2010	1772	50.18	4.3	-	-	09:54	-	-	14:06	-	26,863.65	-			-
15-01-2010	1730	48.99	3.3	-	-	21:59	-	-	02:01	-	2,878.78	-			-
16-01-2010		0		-	-	-	00:20	-	-	-	-	-			-
17-01-2010	1750	49.56	4.2	-	-	21:57	00:38	-	02:03	-	3,767.52	-			-
18-01-2010	3251	92.07	3.9	-	-	14:13	00:25	-	09:47	-	31,015.75	-			-
19-01-2010	3000	84.96	3.1	-	-	01:19	01:08	-	22:41	-	52,747.71	-			-
20-01-2010	3000	84.96	3.3	-	-	00:28	00:24	-	23:32	-	58,254.90	-			-
21-01-2010	3500	99.12	3.4	-	-	00:08	-	-	23:52	-	71,015.40	-			-
22-01-2010	3530	99.97	3.1	-	-	-	-	-	24	-	65,669.16	-			-
23-01-2010	3884	110	3.2	-	-	00:15	00:20	-	23:45	-	73,808.54	-			-
24-01-2010	3618	102.5	3.4	-	-	16:10	00:05	-	10:40	-	56,390.08	-			-
25-01-2010	3801	107.6	4	-	-	-	-	-	-	-	91,239.50	-			-
26-01-2010	2986	84.57	4	-	-	00:15	00:23	-	23:45	-	70,929.55	-			-



## Dehri

Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal closure				Running Hr.				Expected generation (KWH)	Actual generation			Total Actual generation
27-01-2010	2844	80.54	4	-	00:05	-	-	-	23:55	-	68,030.56	37800	32500	70,300.00		
28-01-2010	3172	89.83	3.5	-	00:14	-	00:13	-	23:46	-	65,975.59	38500	34200	72,700.00		
29-01-2010	3766	106.7	3.5	-	00:45	-	00:49	-	23:15	-	76,627.58	40400	30800	71,200.00		
30-01-2010	3950	111.9	3.4	-	0.375	-	00:19	-	21:18	-	71,526.90	37400	36400	73,800.00		
31-01-2010	1993	56.44	3.7	-	-	-	-	-	-	-	-		40300	40,300.00		
01-02-2010	2117	59.95	3.6	-	-	-	00:17	-	-	23:43	45,195.04		39400	39,400.00		
02-02-2010	1939	54.91	3.7	-	-	-	01:03	-	-	22:57	41,169.54		39000	39,000.00		
03-02-2010	2260	64	3.7	-	-	-	-	-	-	24	50,180.53		42700	42,700.00		
04-02-2010	2118	59.98	4.3	-	-	-	00:10	-	-	23:50	54,274.15		43900	43,900.00		
05-02-2010	1859	52.65	4.3	-	-	-	00:20	-	-	23:40	47,304.10		41400	41,400.00		
06-02-2010	1571	44.49	4.6	-	-	-	00:18	-	-	23:42	42,824.88		42700	42,700.00		
07-02-2010	1717	48.63	4.5	-	-	-	00:10	-	-	23:50	46,044.89		41500	41,500.00		
08-02-2010	1921	54.4	4.3	-	-	-	01:00	-	-	23:00	47,504.80		41400	41,400.00		
09-02-2010	1755	49.7	4.3	-	-	-	00:40	-	-	23:20	44,028.73		42300	42,300.00		
10-02-2010	2018	57.15	4.3	-	-	-	-	-	-	24	52,073.25		43100	43,100.00		
11-02-2010	1859	52.65	4.2	-	-	-	-	-	-	24:00	46,854.76		42200	42,200.00		
12-02-2010	1732	49.05	4.3	-	-	-	03:35	-	-	20:25	38,020.25		31500	31,500.00		
13-02-2010	1753	49.65	4.6	-	-	-	14:05	-	-	09:55	19,994.90		18600	18,600.00		
14-02-2010	1909	54.06	4.5	-	-	-	-	-	-	24	51,551.76		34200	34,200.00		
15-02-2010	1043	29.54	4.4	-	-	-	02:35	-	-	21:25	24,575.52		21300	21,300.00		
16-02-2010	1356	38.4	4.6	-	-	-	-	-	-	24	37,431.96		26700	26,700.00		
17-02-2010	1130	32	4.6	-	-	-	-	-	-	24	31,193.30		24300	24,300.00		
18-02-2010	1063	30.1	4.2	-	-	-	00:05	-	-	23:55	26,699.12		23800	23,800.00		
19-02-2010	1067	30.22	4.3	-	-	-	07:21	-	-	17:39	20,248.43		15800	15,800.00		
20-02-2010	854	24.19	4.2	-	-	-	05:52	-	-	18:08	16,262.92		12600	12,600.00		
21-02-2010	826	23.39	3.9	-	-	-	03:30	-	-	20:30	16,512.48		13400	13,400.00		
22-02-2010	785	22.23	3.9	-	-	-	04:58	-	-	19:02	14,570.11		13500	13,500.00		
23-02-2010	848	24.02	4.2	-	-	-	06:10	-	-	17:50	15,881.50		14400	14,400.00		
24-02-2010	1264	35.8	4	-	-	-	00:12	-	-	23:48	30,088.31		24200	24,200.00		
25-02-2010	1261	35.71	4.1	-	-	-	03:50	-	-	20:10	26,070.35		19600	19,600.00		
26-02-2010	984	27.87	4.1	-	-	-	01:59	-	-	22:01	22,209.78		27000	27,000.00		
27-02-2010	1395	39.51	4.2	-	-	-	02:01	-	-	21:59	32,205.56		34400	34,400.00		
28-02-2010	1395	39.51	4	-	-	-	-	-	-	24	33,485.69		39500	39,500.00		
01-03-2010	1641	46.47	4	-	-	-	00:22	-	-	23:38	38,788.89		37300	37,300.00		
02-03-2010	1750	49.56	4.5	-	-	-	-	-	-	24	47,258.03		35300	35,300.00		
03-03-2010	1657	46.93	4	-	-	-	17:05	00:40	-	06:55	50,132.77		6300	40,000.00		



## Dehri

Date	Discharge (Cusec)	Discharge (Cume)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal closure				Running Hr.				Expected generation (KWH)	Actual generation		Total Actual generation	
04-03-2010	1682	47.64	4.3	-	-	14:40	13:48	-	-	09:20	10:12	35,325.20		11500	14400	25,900.00
05-03-2010	1628	46.11	4.5	-	-	-	05:05	-	-	-	18:55	34,651.76			24600	24,600.00
06-03-2010		0		-	-	-	-	-	-	-		-				-
07-03-2010	1235	34.98	4.9	-	-	-	08:26	-	-	-	15:34	23,554.42			11500	11,500.00
08-03-2010	1022	28.94	4.5	-	-	-	00:07	-	-	-	23:53	27,464.53			28800	28,800.00
09-03-2010	1494	42.31	4.4	-	-	-	00:40	-	-	-	23:20	38,352.52			33000	33,000.00
10-03-2010	1494	42.31	4.4	-	-	-	-	-	-	-	24	39,448.30			33700	33,700.00
11-03-2010	1451	41.09	4.8	-	-	-	-	-	-	-	24	41,795.90			35200	35,200.00
12-03-2010	1450	41.06	4.8	-	-	-	-	-	-	-	24	41,767.10			32500	32,500.00
13-03-2010	1373	38.88	4.7	-	-	-	-	-	-	-	24	38,725.18			33400	33,400.00
14-03-2010	1431	40.53	4.7	-	-	-	00:10	-	-	-	23:50	40,080.77			33500	33,500.00
15-03-2010	1203	34.07	4.8	-	-	-	00:06	-	-	-	23:54	34,507.90			31700	31,700.00
16-03-2010	1364	38.63	4.8	-	-	-	-	-	-	-	24	39,289.88			36500	36,500.00
17-03-2010	1588	44.97	4.3	-	-	-	-	-	-	-	24	40,977.36			34500	34,500.00
18-03-2010	1531	43.36	4.2	-	-	-	00:06	-	-	-	23:54	38,426.97			32600	32,600.00
19-03-2010	1460	41.35	4.3	-	-	-	-	-	-	-	24	37,674.40			31300	31,300.00
20-03-2010	1457	41.26	4	-	-	-	-	-	-	-	24	34,973.94			29600	29,600.00
21-03-2010	1380	39.08	4.7	-	-	-	-	-	-	-	24	38,922.61			32900	32,900.00
22-03-2010	1395	39.51	4.3	-	-	-	-	-	-	-	24	35,997.12			32100	32,100.00
23-03-2010	1422	40.27	4.1	-	-	-	00:45	-	-	-	23:15	33,893.80			30200	30,200.00
24-03-2010	1416	40.1	3.9	-	-	-	-	-	-	-	24	33,140.03			29100	29,100.00
25-03-2010	1422	40.27	4.1	-	-	-	00:30	-	-	-	23:30	34,258.25			28000	28,000.00
26-03-2010	1359	38.49	3.7	-	-	-	10:34	-	-	-	13:26	16,889.58			8000	8,000.00
27-03-2010	708	20.05	4	-	-	-	11:20	-	-	-	12:40	8,969.52			6800	6,800.00
28-03-2010	769	21.78	4.2	-	-	-	05:05	-	-	-	18:55	15,276.86			13700	13,700.00
29-03-2010	1495	42.34	4.6	-	-	-	-	-	-	-	24	41,269.01			30500	30,500.00
30-03-2010	1462	41.4	4.4	-	-	-	00:10	-	-	-	23:50	38,335.28			32300	32,300.00
31-03-2010	985	27.9	4.3	-	-	-	03:18	-	-	-	20:42	21,922.44			20500	20,500.00



**Dhelabagh**

Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal closure		Running Hr. (Input format)		Expected generation (KWH)	Actual generation (KWH)		Total Actual generation (KWH)
				I	II	I	II		I	II	
	I	II	I	I	II	I	II		I	II	0
01-04-2009		0						-			0
02-04-2009		0						-			0
03-04-2009		0						-			0
04-04-2009		0						-			0
05-04-2009		0						-			0
06-04-2009		0						-			0
07-04-2009		0						-			0
08-04-2009		0						-			0
09-04-2009		0						-			0
10-04-2009		0						-			0
11-04-2009		0						-			0
12-04-2009		0						-			0
13-04-2009		0						-			0
14-04-2009		0						-			0
15-04-2009		0						-			0
16-04-2009		0						-			0
17-04-2009		0						-			0
18-04-2009		0						-			0
19-04-2009		0						-			0
20-04-2009		0						-			0
21-04-2009		0						-			0
22-04-2009		0						-			0
23-04-2009		0						-			0
24-04-2009		0						-			0
25-04-2009		0						-			0
26-04-2009		0						-			0
27-04-2009		0						-			0
28-04-2009		0						-			0
29-04-2009		0						-			0
30-04-2009		0						-			0
01-05-2009		0						-			0
02-05-2009		0						-			0
03-05-2009		0						-			0
04-05-2009		0						-			0
05-05-2009		0						-			0
06-05-2009		0						-			0
07-05-2009		0						-			0
08-05-2009		0						-			0
09-05-2009		0						-			0
10-05-2009		0						-			0
11-05-2009		0						-			0
12-05-2009		0						-			0

*G. S. K.*



**Dhelabagh**

Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal closure		Running Hr. (Input format)		Expected generation (KWH)	Actual generation (KWH)		Total Actual generation (KWH)
13-05-2009		0						-			0
14-05-2009		0						-			0
15-05-2009		0						-			0
16-05-2009		0						-			0
17-05-2009		0						-			0
18-05-2009		0						-			0
19-05-2009		0						-			0
20-05-2009		0						-			0
21-05-2009		0						-			0
22-05-2009		0						-			0
23-05-2009		0						-			0
24-05-2009		0						-			0
25-05-2009		0						-			0
26-05-2009		0						-			0
27-05-2009		0						-			0
28-05-2009		0						-			0
29-05-2009		0						-			0
30-05-2009		0						-			0
31-05-2009		0						-			0
01-06-2009		0		24:00:00	24:00:00			-			0
02-06-2009		0		24:00:00	24:00:00			-			0
03-06-2009		0		24:00:00	24:00:00			-			0
04-06-2009		0		24:00:00	24:00:00			-			0
05-06-2009		0		24:00:00	24:00:00			-			0
06-06-2009		0		24:00:00	24:00:00			-			0
07-06-2009		0		24:00:00	24:00:00			-			0
08-06-2009		0		24:00:00	24:00:00			-			0
09-06-2009		0		24:00:00	24:00:00			-			0
10-06-2009		0		24:00:00	24:00:00			-			0
11-06-2009	1100	31.1526	3.1	21:52	24:00:00	02:08		1,818.98	710		710
12-06-2009	1000	28.3206	3.5	23:22	20:47	00:38	03:13	3,369.32	150	1070	1220
13-06-2009		0	3.1	22:23	24:00:00	01:37		-	430		430
14-06-2009		0	3.4	23:00	24:00:00	01:00		-	270		270
15-06-2009		0		22:44:00	24:00:00			-			0
16-06-2009		0		24:00:00	24:00:00			-			0
17-06-2009		0		24:00:00	24:00:00			-			0
18-06-2009		0		24:00:00	24:00:00			-			0
19-06-2009		0		24:00:00	24:00:00			-			0
20-06-2009	1066	30.1897	3.6	22:44	24:00:00	01:16		1,215.45	500		500
21-06-2009		0		24:00:00	24:00:00			-			0
22-06-2009		0	3.3	18:12	24:00:00	05:48		-	2380		2380
23-06-2009	1903	53.8941	2.9	16:26	20:28	07:34	03:32	15,316.99	2880	1110	3990
24-06-2009	1802	51.0337	2.8	09:46	15:29	14:14	08:31	28,701.73	4590	2230	6820



**Dhelabagh**

Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal closure		Running Hr. (Input format)		Expected generation (KWH)	Actual generation (KWH)		Total Actual generation (KWH)
25-06-2009	1840	52.1099	2.6	13:14	13:59	10:46	10:01	24,861.09	3660	2930	6590
26-06-2009	1950	55.2251	2.6	16:18	16:50	07:42	07:10	18,846.70	2390	2040	4430
27-06-2009	1890	53.5259	2.4	12:34	12:43	11:26	11:17	25,765.08	4250	3620	7870
28-06-2009	1870	52.9595	2.2	16:17	16:38	07:43	07:22	15,515.84	2900	2270	5170
29-06-2009	900	25.4885	3.2	20:39	20:39	03:21	03:21	4,824.82	820	430	1250
30-06-2009		0		24:00:00	24:00:00			-			0
01-07-2009		0		24:00:00	24:00:00			-			0
02-07-2009		0		24:00:00	24:00:00			-			0
03-07-2009	800	22.6565	2.9	19:43	19:43	04:17	04:08	4,882.50	1420	1370	2790
04-07-2009		0	3.1	12:49	12:59	11:11	11:01	-	3770	2730	6500
05-07-2009		0	2.4	15:52	16:04	08:08	07:56	-	2200	2260	4460
06-07-2009		0	2.5	16:14	16:15	07:46	07:45	-	3100	2550	5650
07-07-2009		0	2.7	20:47	20:56	03:13	03:04	-	1120	870	1990
08-07-2009		0	2.3	18:26	20:15	05:34	03:45	-	1510	830	2340
09-07-2009		0	2.9	16:01	18:57	07:59	05:03	-	2480	1230	3710
10-07-2009		0	2.5	13:42	13:58	10:08	10:02	-	3170	2740	5910
11-07-2009		0	1.8	13:27	13:11	10:33	10:49	-	3550	3500	7050
12-07-2009		0	1.8	14:53	15:39	09:07	08:21	-	3200	2090	5290
13-07-2009		0	2.5	13:45	14:47	10:15	09:13	-	3520	2700	6220
14-07-2009		0	2	11:48	11:29	12:12	12:31	-	4300	3140	7440
15-07-2009		0	2.1	14:13	13:18	09:47	10:42	-	3320	2430	5750
16-07-2009		0	2.3	10:38	12:10	13:22	11:50	-	5020	4010	9030
17-07-2009		0	2.3	16:43	18:13	07:17	05:47	-	2570	1740	4310
18-07-2009		0	2.4	16:43	19:08	07:17	04:52	-	2470	1450	3920
19-07-2009		0	2	15:18	15:07	08:42	08:53	-	3060	2680	5740
20-07-2009		0	2	12:26	12:25	11:34	11:35	-	4290	2490	6780
21-07-2009		0	2	12:59	14:44	11:01	09:16	-	3350	2540	5890
22-07-2009		0	2	11:06	11:06	12:54	11:58	-	4720	3240	7960
23-07-2009		0	2	09:14	09:40	14:46	14:20	-	5310	3470	8780
24-07-2009		0	1.7	11:42	12:49	12:18	11:11	-	4000	3070	7070
25-07-2009		0	2.1	15:20	15:24	08:40	08:36	-	2690	2101	4791
26-07-2009		0	1.9	15:33	15:42	08:27	08:18	-	3390	2830	6220
27-07-2009		0	1.9	06:31	06:13	00:00	17:47	-	6320	5030	11350
28-07-2009		0	1.9	13:00	12:16	11:00	11:44	-	3060	1940	5000
29-07-2009		0	1.7	11:38	11:25	12:22	12:35	-	4450	2480	6930
30-07-2009		0	1.5	12:19	12:00	11:41	11:54	-	4320	3310	7630
31-07-2009		0	2.4	13:38	13:41	10:22	10:14	-	3460	2610	6070
01-08-2009		0	1.6	12:56	15:52	11:04	08:08	-	3950	1940	5890
02-08-2009		0	1.7	19:34	24:00:00	04:26		-	2560		2560
03-08-2009		0		24:00:00	24:00:00			-			0
04-08-2009		0		24:00:00	24:00:00			-			0
05-08-2009		0		24:00:00	24:00:00			-			0
06-08-2009		0		24:00:00	24:00:00			-			0



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Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal closure		Running Hr. (Input format)		Expected generation (KWH)	Actual generation (KWH)		Total Actual generation (KWH)
07-08-2009		0		24:00:00	24:00:00			-			0
08-08-2009		0	3	20:41	22:22	03:19	01:38	-	1540	420	1960
09-08-2009		0	2.5	17:20	18:29	06:40	05:31	-	2160	1640	3800
10-08-2009		0	2.7	16:09	16:02	07:51	07:58	-	3060	2800	5860
11-08-2009		0	2.2	11:05	14:16	12:55	09:44	-	4970	3280	8250
12-08-2009		0	2.2	09:30	10:00	14:30	14:00	-	5540	4480	10020
13-08-2009		0	2	16:53	17:01	07:07	06:59	-	3030	2150	5180
14-08-2009		0		24:00:00	24:00:00			-			0
15-08-2009		0	2.2	14:50	14:53	09:10	09:07	-	4100	2970	7070
16-08-2009		0	1.9	14:22	14:27	09:38	09:33	-	3690	2630	6320
17-08-2009		0	1.8	07:16	07:24	16:44	16:36	-	6370	4220	10590
18-08-2009		0	1.9	13:37	13:54	10:28	10:19	-	3890	2630	6520
19-08-2009		0	1.8	13:29	13:37	10:31	10:23	-	4120	2870	6990
20-08-2009		0	2	12:24	12:32	11:36	11:28	-	4880	3680	8560
21-08-2009		0	1.7	10:11	10:27	13:49	13:33	-	5170	3720	8890
22-08-2009		0	1.6	15:26	16:36	08:34	07:24	-	3410	1920	5330
23-08-2009		0	1.7	05:17	06:23	18:43	17:37	-	7490	4590	12080
24-08-2009		0	1.9	19:50	17:05	04:10	03:55	-	2130	1470	3600
25-08-2009		0	1.9	08:36	08:43	15:24	15:32	-	4620	6650	11270
26-08-2009		0	1.8	11:13	11:18	12:47	12:42	-	4980	3580	8560
27-08-2009		0	1.7	09:46	10:06	14:14	13:54	-	5900	3920	9820
28-08-2009		0	1.8	15:35	15:56	08:25	08:04	-	3000	2330	5330
29-08-2009		0	1.8	11:55	12:04	12:05	11:56	-	5140	3480	8620
30-08-2009		0	1.8	05:34	06:22	18:26	17:38	-	7230	5420	12650
31-08-2009		0	1.8	09:25	09:37	14:35	14:23	-	5880	4000	9880
01-09-2009		0	1.8	14:09	14:32	09:51	09:28	-	3890	2620	6510
02-09-2009		0	1.9	17:52	18:07	06:08	05:53	-	2170	1630	3800
03-09-2009		0	1.8	09:17	09:21	14:43	14:39	-	5380	4360	9740
04-09-2009		0	1.8	05:54	06:42	18:06	17:18	-	6970	5150	12120
05-09-2009		0	1.9	03:51	04:28	20:09	19:32	-	8330	6420	14750
06-09-2009		0	1.9	13:07	13:05	10:53	10:55	-	4400	3540	7940
07-09-2009		0	1.8	19:00	19:15	05:00	04:45	-	1600	1150	2750
08-09-2009		0	1.8	16:40	22:10	07:20	01:50	-	2250	360	2610
09-09-2009		0		24:00:00	24:00:00			-			0
10-09-2009		0		24:00:00	24:00:00			-			0
11-09-2009		0	2.4	19:27	21:02	04:33	02:58	-	1560	740	2300
12-09-2009		0	2.4	14:23	20:50	09:37	03:10	-	3190	1000	4190
13-09-2009		0	2	08:55	15:15	15:05	08:45	-	5380	2640	8020
14-09-2009		0	1.8	14:39	14:52	09:21	09:08	-	3730	2010	5740
15-09-2009		0	2	12:39	13:17	11:21	10:43	-	4560	2900	7460
16-09-2009		0	2.1	15:28	16:06	08:32	07:54	-	3310	2460	5770
17-09-2009		0	1.8	17:23	17:34	06:37	06:26	-	2420	1630	4050
18-09-2009		0		24:00:00	24:00:00			-			0

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Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal closure		Running Hr. (Input format)		Expected generation (KWH)	Actual generation (KWH)		Total Actual generation (KWH)
19-09-2009		0	1.7	16:35	16:50	07:25	07:10	-	2930	1920	4850
20-09-2009		0	1.7	11:05	12:34	12:55	11:26	-	4860	3380	8240
21-09-2009		0	2	07:40	07:31	16:20	16:29	-	6860	4920	11780
22-09-2009	2561	72.529	2	12:50	13:08	11:10	10:52	28,218.48	4310	3130	7440
23-09-2009	2483	70.32	2	14:13	13:48	09:47	10:12	24,813.52	3800	2930	6730
24-09-2009		0	2.1	13:49	13:45	10:11	10:15	-	3710	3020	6730
25-09-2009		0	2	14:14	13:43	09:46	10:17	-	3920	3150	7070
26-09-2009		0	2	06:04	06:30	17:56	17:30	-	6670	5140	11810
27-09-2009		0	2.1	13:33	13:57	10:27	10:03	-	4080	3320	7400
28-09-2009		0	2.4	03:18	08:51	20:42	15:09	-	8330	4950	13280
29-09-2009		0	2.1	06:50	15:20	17:10	08:42	-	7790	2570	10360
30-09-2009		0	2	04:03	04:17	19:57	19:43	-	7940		7940
01-10-2009		0	2.5	02:51	12:10	21:09	11:50	-	8440	2870	11310
02-10-2009		0	2.2	12:07	12:36	11:53	11:24	-	5220	3800	9020
03-10-2009		0	1.9	17:09	17:13	06:51	06:47	-	2750	2220	4970
04-10-2009		0	2	09:01	09:45	14:59	14:15	-	5550	4040	9590
05-10-2009		0	2.3	07:36	09:33	16:24	14:27	-	6360	4570	10930
06-10-2009		0	2	11:34	11:37	12:26	12:23	-	4940	3750	8690
07-10-2009		0	2	12:56	13:37	11:04	10:27	-	4230	3070	7300
08-10-2009		0	1.8	08:50	08:57	15:10	15:03	-	5550	4140	9690
09-10-2009		0	1.7	06:48	06:39	17:12	17:21	-	5570	3770	9340
10-10-2009		0	1.7	10:04	10:07	13:56	13:53	-	4580	3280	7860
11-10-2009		0	1.7	12:46	13:04	11:14	10:56	-	3770	2810	6580
12-10-2009		0	1.7	10:55	10:50	13:05	13:10	-	2850	4070	6920
13-10-2009		0	1.9	10:01	10:38	13:59	13:22	-	4900	3230	8130
14-10-2009		0	1.9	10:02	10:10	13:58	13:50	-	4840	3730	8570
15-10-2009		0	1.9	11:46	11:47	12:14	12:13	-	4140	3720	7860
16-10-2009		0	1.9	14:51	15:06	09:09	08:54	-	3960	3010	6970
17-10-2009		0	1.9	07:06	07:17	16:54	16:43	-	6440	4750	11190
18-10-2009		0	2	06:22	06:04	17:38	17:56	-	5720	4350	10070
19-10-2009		0	2.2	10:49	10:26	13:11	13:34	-	2700	4290	6990
20-10-2009		0	1.8	11:04	12:54	12:56	11:06	-	3130	2020	5150
21-10-2009		0	1.9	16:38	16:31	07:22	07:29	-	1950	1180	3130
22-10-2009		0	1.9	15:07	14:56	08:53	09:04	-	2520	1780	4300
23-10-2009		0	1.9	16:58	16:29	07:02	07:31	-	2050	1530	3580
24-10-2009		0	2	11:19	11:27	12:41	12:33	-	3590	2670	6260
25-10-2009		0	2.2	14:12	18:55	09:48	05:05	-	2980	950	3930
26-10-2009		0	2.1	14:06	21:42	09:48	02:18	-	3090	570	3660
27-10-2009		0	2.1	14:18	20:43	09:42	03:17	-	2800	700	3500
28-10-2009		0	2.7	14:03	20:09	09:57	03:51	-	2750	970	3720
29-10-2009		0	3	14:20	21:36	09:40	02:24	-	3660	480	4140
30-10-2009		0	3	14:41	18:53	09:19	05:07	-	3060	1350	4410
31-10-2009		0	3.5	17:09	18:23	06:51	05:37	-	1640	1150	2790



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Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal closure		Running Hr. (Input format)		Expected generation (KWH)	Actual generation (KWH)		Total Actual generation (KWH)
01-11-2009		0	2.3	15:00	16:00	09:00	08:00	-	2070	1510	3580
02-11-2009		0	2.2	17:57	20:05	06:03	03:55	-	1250	830	2080
03-11-2009		0		24:00:00	24:00:00			-			0
04-11-2009		0		24:00:00	24:00:00			-			0
05-11-2009		0		24:00:00	24:00:00			-			0
06-11-2009		0		24:00:00	24:00:00			-			0
07-11-2009		0	2.8	24:00:00	20:40		03:20	-		830	830
08-11-2009		0	2.7	14:47	19:27	09:13	04:33	-	2620	820	3440
09-11-2009		0	2.3	20:37	20:55	03:23	03:05	-	830	660	1490
10-11-2009		0		24:00:00	24:00:00			-			0
11-11-2009		0	2.4	21:00	21:16	03:00	02:44	-	580	380	960
12-11-2009		0	2	21:54	24:00:00	02:00		-	660		660
13-11-2009		0	2.2	13:51	22:31	10:09	01:29	-	2800	300	3100
14-11-2009		0	2.5	21:16	24:00:00	02:44		-	980		980
15-11-2009		0	3.1	16:02	17:24	07:58	06:36	-	2500	1540	4040
16-11-2009		0	2.9	17:22	20:12	06:38	03:48	-	1960	830	2790
17-11-2009		0		23:45	23:48	00:15	00:12	-	70	40	110
18-11-2009		0		24:00:00	24:00:00			-			0
19-11-2009		0	2.3	19:48	19:58	04:12	04:02	-	1380	880	2260
20-11-2009		0	2.1	14:58	15:08	09:02	08:52	-	2640	1840	4480
21-11-2009		0	2.8	15:05	15:26	08:55	08:34	-	2320	1650	3970
22-11-2009		0	2.2	19:17	19:21	04:43	04:39	-	1850	1560	3410
23-11-2009		0	2.6	20:37	24:00:00	03:23		-	680		680
24-11-2009		0		24:00:00	24:00:00			-			0
25-11-2009		0		24:00:00	24:00:00			-			0
26-11-2009		0		24:00:00	24:00:00			-			0
27-11-2009		0		24:00:00	24:00:00			-			0
28-11-2009		0		24:00:00	24:00:00			-			0
29-11-2009		0		24:00:00	24:00:00			-			0
30-11-2009		0		24:00:00	24:00:00			-			0
01-12-2009		0		24:00:00	24:00:00			-			0
02-12-2009		0		24:00:00	24:00:00			-			0
03-12-2009		0		24:00:00	24:00:00			-			0
04-12-2009		0		24:00:00	24:00:00			-			0
05-12-2009		0		24:00:00	24:00:00			-			0
06-12-2009		0		24:00:00	24:00:00			-			0
07-12-2009		0		24:00:00	24:00:00			-			0
08-12-2009		0		24:00:00	24:00:00			-			0
09-12-2009		0		24:00:00	24:00:00			-			0
10-12-2009		0		24:00:00	24:00:00			-			0
11-12-2009		0		24:00:00	24:00:00			-			0
12-12-2009		0		24:00:00	24:00:00			-			0
13-12-2009		0		24:00:00	24:00:00			-			0



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Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal closure		Running Hr. (Input format)		Expected generation (KWH)	Actual generation (KWH)		Total Actual generation (KWH)
14-12-2009		0		24:00:00	24:00:00			-			0
15-12-2009		0		24:00:00	24:00:00			-			0
16-12-2009		0		24:00:00	24:00:00			-			0
17-12-2009		0		24:00:00	24:00:00			-			0
18-12-2009		0		24:00:00	24:00:00			-			0
19-12-2009		0		24:00:00	24:00:00			-			0
20-12-2009		0		24:00:00	24:00:00			-			0
21-12-2009		0		24:00:00	24:00:00			-			0
22-12-2009		0		24:00:00	24:00:00			-			0
23-12-2009		0		24:00:00	24:00:00			-			0
24-12-2009		0		24:00:00	24:00:00			-			0
25-12-2009	1880	53.2427	4.3	19:47	19:47	03:05	04:13	14,755.81	1060	700	1760
26-12-2009	1186	33.5882	3	15:23	15:17	08:37	08:43	15,420.62	2190	1220	3410
27-12-2009	935	26.4798	2.9	15:05	16:42	08:55	07:18	10,994.74	2430	2430	4860
28-12-2009	935	26.4798	3	21:05	24:00:00	02:55		2,045.66	1090		1090
29-12-2009		0	3.2	20:55	24:00:00	03:05		-	940		940
30-12-2009		0	3.2	18:25	24:00:00	05:35		-	2030		2030
31-12-2009		0	2.6	11:59	21:40	12:01	02:20	-	3880	560	4440
01-01-2010		0	2.8	15:13	24:00:00	08:47		-	2650		2650
02-01-2010		0	3	16:22	19:13	07:38	04:47	-	2130	1450	3580
03-01-2010		0	3.2	24:00:00	21:50		02:10	-		650	650
04-01-2010		0	2.9	18:43	24:00:00	05:17		-	1530		1530
05-01-2010		0	3.2	17:21	24:00:00	06:39		-	2160		2160
06-01-2010		0	3.1	17:48	24:00:00	06:12		-	1880		1880
07-01-2010		0	2.8	16:44	24:00:00	07:16		-	2340		2340
08-01-2010		0	3	15:45	24:00:00	06:15		-	1730		1730
09-01-2010		0	2.2	19:28	24:00:00	04:32		-	1900		1900
10-01-2010		0	2.2	18:33	18:36	05:27	05:24	-	2200	1510	3710
11-01-2010		0	2.6	20:10	20:10	03:50	03:50	-	1200	990	2190
12-01-2010		0	2.4	15:00	15:37	09:00	08:23	-	3290	2310	5600
13-01-2010		0	2.5	18:27	20:06	05:33	03:54	-	3270	940	4210
14-01-2010		0	2.4	13:06	19:46	10:54	04:14	-	3880	1210	5090
15-01-2010		0	2.6	14:05	14:01	09:55	09:59	-	3300	2080	5380
16-01-2010		0	3.1	18:47	21:25	05:13	02:35	-	1640	740	2380
17-01-2010		0		24:00:00	24:00:00			-			0
18-01-2010		0		24:00:00	24:00:00			-			0
19-01-2010		0	2.8	18:44	18:42	05:16	05:18	-	2300	1640	3940
20-01-2010		0	2.6	20:01	22:01	03:59	01:59	-	1190	320	1510
21-01-2010		0	2.4	17:12	22:20	06:48	01:40	-	1820	500	2320
22-01-2010		0	2.9	21:20	23:18	02:40	00:42	-	490	200	690
23-01-2010		0	2.7	15:57	16:22	08:03	07:38	-	2720	1610	4330
24-01-2010		0	2.5	16:38	16:30	07:21	07:30	-	2790	1980	4770
25-01-2010		0	2.3	15:14	15:14	08:46	08:46	-	3290	2410	5700

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Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal closure		Running Hr. (Input format)		Expected generation (KWH)	Actual generation (KWH)		Total Actual generation (KWH)
14-12-2009		0		24:00:00	24:00:00			-			0
15-12-2009		0		24:00:00	24:00:00			-			0
16-12-2009		0		24:00:00	24:00:00			-			0
17-12-2009		0		24:00:00	24:00:00			-			0
18-12-2009		0		24:00:00	24:00:00			-			0
19-12-2009		0		24:00:00	24:00:00			-			0
20-12-2009		0		24:00:00	24:00:00			-			0
21-12-2009		0		24:00:00	24:00:00			-			0
22-12-2009		0		24:00:00	24:00:00			-			0
23-12-2009		0		24:00:00	24:00:00			-			0
24-12-2009		0		24:00:00	24:00:00			-			0
25-12-2009	1880	53.2427	4.3	19:47	19:47	03:05	04:13	14,755.81	1060	700	1760
26-12-2009	1186	33.5882	3	15:23	15:17	08:37	08:43	15,420.62	2190	1220	3410
27-12-2009	935	26.4798	2.9	15:05	16:42	08:55	07:18	10,994.74	2430	2430	4860
28-12-2009	935	26.4798	3	21:05	24:00:00	02:55		2,045.66	1090		1090
29-12-2009		0	3.2	20:55	24:00:00	03:05		-	940		940
30-12-2009		0	3.2	18:25	24:00:00	05:35		-	2030		2030
31-12-2009		0	2.6	11:59	21:40	12:01	02:20	-	3880	560	4440
01-01-2010		0	2.8	15:13	24:00:00	08:47		-	2650		2650
02-01-2010		0	3	16:22	19:13	07:38	04:47	-	2130	1450	3580
03-01-2010		0	3.2	24:00:00	21:50		02:10	-		650	650
04-01-2010		0	2.9	18:43	24:00:00	05:17		-	1530		1530
05-01-2010		0	3.2	17:21	24:00:00	06:39		-	2160		2160
06-01-2010		0	3.1	17:48	24:00:00	06:12		-	1880		1880
07-01-2010		0	2.8	16:44	24:00:00	07:16		-	2340		2340
08-01-2010		0	3	15:45	24:00:00	06:15		-	1730		1730
09-01-2010		0	2.2	19:28	24:00:00	04:32		-	1900		1900
10-01-2010		0	2.2	18:33	18:36	05:27	05:24	-	2200	1510	3710
11-01-2010		0	2.6	20:10	20:10	03:50	03:50	-	1200	990	2190
12-01-2010		0	2.4	15:00	15:37	09:00	08:23	-	3290	2310	5600
13-01-2010		0	2.5	18:27	20:06	05:33	03:54	-	3270	940	4210
14-01-2010		0	2.4	13:06	19:46	10:54	04:14	-	3880	1210	5090
15-01-2010		0	2.6	14:05	14:01	09:55	09:59	-	3300	2080	5380
16-01-2010		0	3.1	18:47	21:25	05:13	02:35	-	1640	740	2380
17-01-2010		0		24:00:00	24:00:00			-			0
18-01-2010		0		24:00:00	24:00:00			-			0
19-01-2010		0	2.8	18:44	18:42	05:16	05:18	-	2300	1640	3940
20-01-2010		0	2.6	20:01	22:01	03:59	01:59	-	1190	320	1510
21-01-2010		0	2.4	17:12	22:20	06:48	01:40	-	1820	500	2320
22-01-2010		0	2.9	21:20	23:18	02:40	00:42	-	490	200	690
23-01-2010		0	2.7	15:57	16:22	08:03	07:38	-	2720	1610	4330
24-01-2010		0	2.5	16:38	16:30	07:21	07:30	-	2790	1980	4770
25-01-2010		0	2.3	15:14	15:14	08:46	08:46	-	3290	2410	5700



# Dhelabagh

Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal closure		Running Hr. (Input format)		Expected generation (KWH)	Actual generation (KWH)		Total Actual generation (KWH)
26-01-2010		0	2.4	15:23	15:04	08:37	08:56	-	3320	2520	5840
27-01-2010		0	2.6	14:12	13:57	09:48	10:03	-	3490	2770	6260
28-01-2010		0	2.6	19:18	19:09	04:42	04:51	-	2490	1840	4330
29-01-2010		0	2.6	14:29	14:50	09:31	09:10	-	3410	2650	6060
30-01-2010		0	2.5	15:54	15:42	08:06	08:18	-	3530	2670	6200
31-01-2010		0	2.3	13:32	13:32	10:28	10:28	-	4380	2680	7060
01-02-2010	1800	50.9771	2.3	15:13	15:24	08:47	08:36	17,994.81	4210	2580	6790
02-02-2010	1800	50.9771	2.4	15:10	15:28	08:50	08:32	18,759.19	3360	2320	5680
03-02-2010	1600	45.3129	2.5	14:38	13:47	09:22	08:46	18,136.41	4000	1660	5660
04-02-2010	1000	28.3206	3.1	17:20	17:23	06:40	06:37	10,296.33	2220	1580	3800
05-02-2010	1000	28.3206	3	14:17	15:26	09:43	08:34	13,714.83	3180	2050	5230
06-02-2010	936	26.5081	3	16:13	00:00	07:47		5,464.83	2600		2600
07-02-2010	936	26.5081	2.8	15:48	23:45	08:12	00:45	5,865.04	2480	100	2580
08-02-2010	936	26.5081	2.9	21:06	21:05	02:54	02:55	3,947.86	770	540	1310
09-02-2010	1186	33.5882	4.1	14:22	00:00	09:38		11,712.75	3080		3080
10-02-2010	1180	33.4183	2.8	18:22	20:40	05:38	03:20	7,407.73	1850	770	2620
11-02-2010		0	2.9	13:50	22:08	10:10	01:52	-	3110	430	3540
12-02-2010		0	2.7	18:12	16:15	05:48	07:45	-	1420	1860	3280
13-02-2010	986	27.9241	3	18:26	21:19	05:34	02:41	6,101.91	1510	480	1990
14-02-2010	1326	37.5531	2.8	13:58	15:41	10:02	08:19	17,035.36	3140	2000	5140
15-02-2010	1106	31.3226	3.1	20:01	22:13	03:59	01:47	4,943.74	910	250	1160
16-02-2010		0	2.8	14:07	17:59	09:53	06:01	-	3180	1330	4510
17-02-2010		0	2.6	16:58	24:00:00	07:02		-	2200		2200
18-02-2010		0	2.9	15:25	22:33	08:35	01:27	-	2520	390	2910
19-02-2010		0	2.8	20:59	02:46	03:01		-	750		750
20-02-2010		0		24:00:00	24:00:00			-			0
21-02-2010		0		24:00:00	24:00:00			-			0
22-02-2010		0		24:00:00	24:00:00			-			0
23-02-2010		0		24:00:00	24:00:00			-			0
24-02-2010		0		24:00:00	24:00:00			-			0
25-02-2010		0		24:00:00	24:00:00			-			0
26-02-2010		0		24:00:00	24:00:00			-			0
27-02-2010		0		24:00:00	24:00:00			-			0
28-02-2010		0		24:00:00	24:00:00			-			0
01-03-2010		0		24:00:00	24:00:00			-			0
02-03-2010		0		24:00:00	24:00:00			-			0
03-03-2010	1500	42.4809	3.3	18:58	24:00:00	05:02		6,229.81			0
04-03-2010	1500	42.4809	3.1	16:34	24:00:00	07:26		8,642.72			0
05-03-2010		0	3.2	19:09	24:00:00	03:30		-			0
06-03-2010		0		24:00:00	24:00:00			-			0
07-03-2010		0		24:00:00	24:00:00			-			0
08-03-2010		0	3.3	19:33	24:00:00	04:27		-			0
09-03-2010		0	3.3	11:49	15:35	12:11	08:25	-		2510	2510



### Dhelabagh

Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal closure		Running Hr. (Input format)		Expected generation (KWH)	Actual generation (KWH)	Total Actual generation (KWH)
10-03-2010		0	3.8	15:20	15:42	08:40	08:18	-	2380	2380
11-03-2010		0	2.6	20:38	21:37	03:22	02:23	-	530	530
12-03-2010		0		24:00:00	24:00:00			-		0
13-03-2010		0		24:00:00	24:00:00			-		0
14-03-2010		0		24:00:00	24:00:00			-		0
15-03-2010		0		24:00:00	24:00:00			-		0
16-03-2010		0		24:00:00	24:00:00			-		0
17-03-2010		0		24:00:00	24:00:00			-		0
18-03-2010		0		24:00:00	24:00:00			-		0
19-03-2010		0		24:00:00	24:00:00			-		0
20-03-2010		0		24:00:00	24:00:00			-		0
21-03-2010		0	3.3	18:57	23:32	05:03	00:28	-	110	110
22-03-2010		0		24:00:00	24:00:00			-		0
23-03-2010		0		24:00:00	24:00:00			-		0
24-03-2010		0	3.4	21:50	24:00:00	02:10		-		0
25-03-2010		0	3.3	19:22	24:00:00	04:38		-		0
26-03-2010		0	3.2	21:38	24:00:00	02:22		-		0
27-03-2010		0		24:00:00	24:00:00			-		0
28-03-2010		0		24:00:00	24:00:00			-		0
29-03-2010		0	2.8	14:18	24:00:00	09:42		-		0
30-03-2010		0	2.5	13:48	24:00:00	10:12		-		0
31-03-2010		0	2.7	10:42	24:00:00	13:18		-		0

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Jainagara							
Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/	Running Hr. (Input format)	Expected generation (KWH)	Actual generation (KWH)
	1		1	1	1		1
01-04-2009	0	0	0	24	0	-	0
02-04-2009	0	0	0	24	0	-	0
03-04-2009	0	0	0	24	0	-	0
04-04-2009	0	0	0	24	0	-	0
05-04-2009	0	0	0	24	0	-	0
06-04-2009	0	0	0	24	0	-	0
07-04-2009	0	0	0	24	0	-	0
08-04-2009	0	0	0	24	0	-	0
09-04-2009	0	0	0	24	0	-	0
10-04-2009	0	0	0	24	0	-	0
11-04-2009	0	0	0	24	0	-	0
12-04-2009	0	0	0	24	0	-	0
13-04-2009	0	0	0	24	0	-	0
14-04-2009	0	0	0	24	0	-	0
15-04-2009	0	0	0	24	0	-	0
16-04-2009	0	0	0	24	0	-	0
17-04-2009	0	0	0	24	0	-	0
18-04-2009	0	0	0	24	0	-	0
19-04-2009	0	0	0	24	0	-	0
20-04-2009	0	0	0	24	0	-	0
21-04-2009	0	0	0	24	0	-	0
22-04-2009	0	0	0	24	0	-	0
23-04-2009	0	0	0	24	0	-	0
24-04-2009	0	0	0	24	0	-	0
25-04-2009	0	0	0	24	0	-	0
26-04-2009	0	0	0	24	0	-	0
27-04-2009	0	0	0	24	0	-	0
28-04-2009	0	0	0	24	0	-	0
29-04-2009	0	0	0	24	0	-	0
30-04-2009	0	0	0	24	0	-	0
01-05-2009	0	0	0	24	0	-	0
02-05-2009	0	0	0	24	0	-	0
03-05-2009	0	0	0	24	0	-	0
04-05-2009	0	0	0	24	0	-	0
05-05-2009	0	0	0	24	0	-	0
06-05-2009	0	0	0	24	0	-	0
07-05-2009	0	0	0	24	0	-	0
08-05-2009	0	0	0	24	0	-	0
09-05-2009	0	0	0	24	0	-	0
10-05-2009	0	0	0	24	0	-	0

*Signature*



## Jainagara

Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/	Running Hr. (Input format)	Expected generation (KWH)	Actual generation (KWH)
11-05-2009	0	0	0	24	0	-	0
12-05-2009	0	0	0	24	0	-	0
13-05-2009	0	0	0	24	0	-	0
14-05-2009	0	0	0	24	0	-	0
15-05-2009	0	0	0	24	0	-	0
16-05-2009	0	0	0	24	0	-	0
17-05-2009	0	0	0	24	0	-	0
18-05-2009	0	0	0	24	0	-	0
19-05-2009	0	0	0	24	0	-	0
20-05-2009	0	0	0	24	0	-	0
21-05-2009	312	8.836	3.9	22:08	01:52	567.94	338
22-05-2009	0	0	0	24	0	-	0
23-05-2009	0	0	0	24	0	-	0
24-05-2009	0	0	0	24	0	-	0
25-05-2009	0	0	0	24	0	-	0
26-05-2009	0	0	0	24	0	-	0
27-05-2009	0	0	0	24	0	-	0
28-05-2009	0	0	0	24	0	-	0
29-05-2009	0	0	0	24	0	-	0
30-05-2009	0	0	0	24	0	-	0
31-05-2009	0	0	0	24	0	-	0
01-06-2009	0	0	0	24	0	-	0
02-06-2009	0	0	0	24	0	-	0
03-06-2009	0	0	0	24	0	-	0
04-06-2009	0	0	0	24	0	-	0
05-06-2009	0	0	0	24	0	-	0
06-06-2009	0	0	0	24	0	-	0
07-06-2009	0	0	0	24	0	-	0
08-06-2009	0	0	0	24	0	-	0
09-06-2009	0	0	0	24	0	-	0
10-06-2009	0	0	0	24	0	-	0
11-06-2009	0	0	0	24	0	-	0
12-06-2009	0	0	0	24	0	-	0
13-06-2009	0	0	0	24	0	-	0
14-06-2009	0	0	0	24	0	-	0
15-06-2009	0	0	0	24	0	-	0
16-06-2009	0	0	0	24	0	-	0
17-06-2009	0	0	0	24	0	-	0
18-06-2009	0	0	0	24	0	-	0
19-06-2009	0	0	0	24	0	-	0
20-06-2009	0	0	0	24	0	-	0

Jainagara							
Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/	Running Hr. (Input format)	Expected generation (KWH)	Actual generation (KWH)
21-06-2009	0	0	0	24	0	-	0
22-06-2009	0	0	0	24	0	-	0
23-06-2009	0	0	0	24	0	-	0
24-06-2009	0	0	0	24	0	-	0
25-06-2009	0	0	0	24	0	-	0
26-06-2009	0	0	0	24	0	-	0
27-06-2009	0	0	0	24	0	-	0
28-06-2009	0	0	0	24	0	-	0
29-06-2009	0	0	0	24	0	-	0
30-06-2009	0	0	0	24	0	-	0
01-07-2009	0	0	0	24	0	-	0
02-07-2009	0	0	0	24	0	-	0
03-07-2009	0	0	0	24	0	-	0
04-07-2009	0	0	0	24	0	-	0
05-07-2009	0	0	0	24	0	-	0
06-07-2009	0	0	0	24	0	-	0
07-07-2009	0	0	0	24	0	-	0
08-07-2009	0	0	0	24	0	-	0
09-07-2009	0	0	0	24	0	-	0
10-07-2009	0	0	0	24	0	-	0
11-07-2009	0	0	0	24	0	-	0
12-07-2009	0	0	0	24	0	-	0
13-07-2009	0	0	0	24	0	-	0
14-07-2009	0	0	0	24	0	-	0
15-07-2009	0	0	0	24	0	-	0
16-07-2009	0	0	0	24	0	-	0
17-07-2009	0	0	0	24	0	-	0
18-07-2009	0	0	0	24	0	-	0
19-07-2009	0	0	0	24	0	-	0
20-07-2009	0	0	0	24	0	-	0
21-07-2009	0	0	0	24	0	-	0
22-07-2009	0	0	0	24	0	-	0
23-07-2009	0	0	0	24	0	-	0
24-07-2009	0	0	0	24	0	-	0
25-07-2009	0	0	0	24	0	-	0
26-07-2009	0	0	0	24	0	-	0
27-07-2009	0	0	0	24	0	-	0
28-07-2009	0	0	0	24	0	-	0
29-07-2009	0	0	0	24	0	-	0
30-07-2009	0	0	0	24	0	-	0
31-07-2009	0	0	0	24	0	-	0

*Signature*



## Jainagara

Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/	Running Hr. (Input format)	Expected generation (KWH)	Actual generation (KWH)
01-08-2009	0	0	0	24	0	-	0
02-08-2009	0	0	0	24	0	-	0
03-08-2009	1163.49	32.95	3.9	21:49	02:11	2,477.20	769
04-08-2009	0	0	0	24	0	-	0
05-08-2009	0	0	0	24	0	-	0
06-08-2009	0	0	0	24	0	-	0
07-08-2009	0	0	0	24	0	-	0
08-08-2009	0	0	0	24	0	-	0
09-08-2009	0	0	0	24	0	-	0
10-08-2009	0	0	0	24	0	-	0
11-08-2009	0	0	0	24	0	-	0
12-08-2009	0	0	0	24	0	-	0
13-08-2009	0	0	0	24	0	-	0
14-08-2009	424.3	12.02	3.9	23:10	00:50	344.80	368
15-08-2009	117.66	3.332	3.9	23:24	0	-	102
16-08-2009	879.73	24.91	3.9	22:35	0	-	763
17-08-2009	255.96	7.249	3.9	23:16	0	-	222
18-08-2009	567.27	16.07	3.9	22:20	0	-	492
19-08-2009	733.30	20.77	3.9	20:57	0	-	636
20-08-2009	2018.90	57.18	3.9	17:15	0	-	1751
21-08-2009	4599.31	130.3	3.9	13:27	0	-	3989
22-08-2009	1325.95	37.55	3.9	20:35	0	-	1150
23-08-2009	5042.06	142.8	3.9	12:31	0	-	4373
24-08-2009	206.3	5.843	3.9	23:15	0	-	179
25-08-2009	4623.53	130.9	3.9	09:37	0	-	4010
26-08-2009	2628.84	74.45	3.9	18:44	0	-	2280
27-08-2009	7499.11	212.4	3.9	09:37	0	-	6504
28-08-2009	857.83	24.29	3.9	22:10	0	-	744
29-08-2009	942	26.68	3.9	21:58	0	-	817
30-08-2009	1254.46	35.53	3.9	20:30	0	-	1088
31-08-2009	0	0	0	24	0	-	0
01-09-2009	0	0	0	24	0	-	0
02-09-2009	0	0	0	24	0	-	0
03-09-2009	0	0	0	24	0	-	0
04-09-2009	0	0	0	24	0	-	0
05-09-2009	0	0	0	24	0	-	0
06-09-2009	0	0	0	24	0	-	0
07-09-2009	0	0	0	24	0	-	0
08-09-2009	0	0	0	24	0	-	0
09-09-2009	0	0	0	24	0	-	0
10-09-2009	0	0	0	24	0	-	0

## Jainagara

Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/	Running Hr. (Input format)	Expected generation (KWH)	Actual generation (KWH)
11-09-2009	0	0	0	24	0	-	0
12-09-2009	0	0	0	24	0	-	0
13-09-2009	0	0	0	24	0	-	0
14-09-2009	0	0	0	24	0	-	0
15-09-2009	0	0	0	24	0	-	0
16-09-2009	0	0	0	24	0	-	0
17-09-2009	0	0	0	24	0	-	0
18-09-2009	0	0	0	24	0	-	0
19-09-2009	0	0	0	24	0	-	0
20-09-2009	0	0	0	24	0	-	0
21-09-2009	0	0	0	24	0	-	0
22-09-2009	0	0	0	24	0	-	0
23-09-2009	0	0	0	24	0	-	0
24-09-2009	0	0	0	24	0	-	0
25-09-2009	0	0	0	24	0	-	0
26-09-2009	0	0	0	24	0	-	0
27-09-2009	0	0	0	24	0	-	0
28-09-2009	0	0	0	24	0	-	0
29-09-2009	0	0	0	24	0	-	0
30-09-2009	0	0	0	24	0	-	0
01-10-2009	0	0	0	24	0	-	0
02-10-2009	0	0	0	24	0	-	0
03-10-2009	0	0	0	24	0	-	0
04-10-2009	0	0	0	24	0	-	0
05-10-2009	0	0	0	24	0	-	0
06-10-2009	0	0	0	24	0	-	0
07-10-2009	0	0	0	24	0	-	0
08-10-2009	0	0	0	24	0	-	0
09-10-2009	0	0	0	24	0	-	0
10-10-2009	0	0	0	24	0	-	0
11-10-2009	0	0	0	24	0	-	0
12-10-2009	0	0	0	24	0	-	0
13-10-2009	0	0	0	24	0	-	0
14-10-2009	0	0	0	24	0	-	0
15-10-2009	0	0	0	24	0	-	0
16-10-2009	0	0	0	24	0	-	0
17-10-2009	0	0	0	24	0	-	0
18-10-2009	0	0	0	24	0	-	0
19-10-2009	0	0	0	24	0	-	0
20-10-2009	0	0	0	24	0	-	0
21-10-2009	0	0	0	24	0	-	0



Jainagara							
Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/	Running Hr. (Input format)	Expected generation (KWH)	Actual generation (KWH)
22-10-2009	0	0	0	24	0	-	0
23-10-2009	0	0	0	24	0	-	0
24-10-2009	0	0	0	24	0	-	0
25-10-2009	0	0	0	24	0	-	0
26-10-2009	0	0	0	24	0	-	0
27-10-2009	0	0	0	24	0	-	0
28-10-2009	0	0	0	24	0	-	0
29-10-2009	0	0	0	24	0	-	0
30-10-2009	0	0	0	24	0	-	0
31-10-2009	0	0	0	24	0	-	0
01-11-2009	0	0	0	24	0	-	0
02-11-2009	0	0	0	24	0	-	0
03-11-2009	0	0	0	24	0	-	0
04-11-2009	0	0	0	24	0	-	0
05-11-2009	0	0	0	24	0	-	0
06-11-2009	0	0	0	24	0	-	0
07-11-2009	0	0	0	24	0	-	0
08-11-2009	0	0	0	24	0	-	0
09-11-2009	0	0	0	24	0	-	0
10-11-2009	0	0	0	24	0	-	0
11-11-2009	0	0	0	24	0	-	0
12-11-2009	0	0	0	24	0	-	0
13-11-2009	0	0	0	24	0	-	0
14-11-2009	0	0	0	24	0	-	0
15-11-2009	0	0	0	24	0	-	0
16-11-2009	0	0	0	24	0	-	0
17-11-2009	0	0	0	24	0	-	0
18-11-2009	0	0	0	24	0	-	0
19-11-2009	0	0	0	24	0	-	0
20-11-2009	0	0	0	24	0	-	0
21-11-2009	0	0	0	24	0	-	0
22-11-2009	0	0	0	24	0	-	0
23-11-2009	0	0	0	24	0	-	0
24-11-2009	0	0	0	24	0	-	0
25-11-2009	0	0	0	24	0	-	0
26-11-2009	0	0	0	24	0	-	0
27-11-2009	0	0	0	24	0	-	0
28-11-2009	0	0	0	24	0	-	0
29-11-2009	0	0	0	24	0	-	0
30-11-2009	0	0	0	24	0	-	0
01-12-2009	0	0	0	24	0	-	0

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Jainagara							
Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/	Running Hr. (Input format)	Expected generation (KWH)	Actual generation (KWH)
02-12-2009	0	0	0	24	0	-	0
03-12-2009	0	0	0	24	0	-	0
04-12-2009	0	0	0	24	0	-	0
05-12-2009	0	0	0	24	0	-	0
06-12-2009	0	0	0	24	0	-	0
07-12-2009	0	0	0	24	0	-	0
08-12-2009	0	0	0	24	0	-	0
09-12-2009	0	0	0	24	0	-	0
10-12-2009	0	0	0	24	0	-	0
11-12-2009	0	0	0	24	0	-	0
12-12-2009	0	0	0	24	0	-	0
13-12-2009	0	0	0	24	0	-	0
14-12-2009	0	0	0	24	0	-	0
15-12-2009	0	0	0	24	0	-	0
16-12-2009	0	0	0	24	0	-	0
17-12-2009	0	0	0	24	0	-	0
18-12-2009	0	0	0	24	0	-	0
19-12-2009	0	0	0	24	0	-	0
20-12-2009	0	0	0	24	0	-	0
21-12-2009	0	0	0	24	0	-	0
22-12-2009	0	0	0	24	0	-	0
23-12-2009	0	0	0	24	0	-	0
24-12-2009	0	0	0	24	0	-	0
25-12-2009	0	0	0	24	0	-	0
26-12-2009	0	0	0	24	0	-	0
27-12-2009	0	0	0	24	0	-	0
28-12-2009	0	0	0	24	0	-	0
29-12-2009	0	0	0	24	0	-	0
30-12-2009	0	0	0	24	0	-	0
31-12-2009	0	0	0	24	0	-	0
01-01-2010	0	0	0	24	0	-	0
02-01-2010	0	0	0	24	0	-	0
03-01-2010	0	0	0	24	0	-	0
04-01-2010	0	0	0	24	0	-	0
05-01-2010	0	0	0	24	0	-	0
06-01-2010	0	0	0	24	0	-	0
07-01-2010	0	0	0	24	0	-	0
08-01-2010	0	0	0	24	0	-	0
09-01-2010	0	0	0	24	0	-	0
10-01-2010	0	0	0	24	0	-	0
11-01-2010	0	0	0	24	0	-	0

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## Jainagara

Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/	Running Hr. (Input format)	Expected generation (KWH)	Actual generation (KWH)
12-01-2010	0	0	0	24	0	-	0
13-01-2010	0	0	0	24	0	-	0
14-01-2010	0	0	0	24	0	-	0
15-01-2010	0	0	0	24	0	-	0
16-01-2010	574	16.26	3.9	21:50	02:10	1,212.78	498
17-01-2010	739	20.93	3.9	21:25	02:35	1,861.67	641
18-01-2010	83	2.351	3.9	23:35	00:25	33.72	72
19-01-2010	0	0	0	24	0	-	0
20-01-2010	0	0	0	24	0	-	0
21-01-2010	0	0	0	24	0	-	0
22-01-2010	0	0	0	24	0	-	0
23-01-2010	62	1.756	3.9	23:40	00:20	20.15	54
24-01-2010	682	19.31	3.9	21:59	02:01	1,341.21	592
25-01-2010	0	0	0	24	0	-	0
26-01-2010	518	14.67	3.9	21:30	02:30	1,262.84	450
27-01-2010	0	0	0	24	0	-	0
28-01-2010	0	0	0	24	0	-	0
29-01-2010	606	17.16	3.9	22:23	01:37	955.37	526
30-01-2010	2294	64.97	3.9	18:03	05:57	13,310.33	1990
31-01-2010	1112	31.49	3.9	21:17	02:43	2,945.91	965
01-02-2010	1689	47.83	3.9	19:13	04:47	7,878.41	1465
02-02-2010	2551	72.25	3.9	18:20	05:40	14,096.67	2213
03-02-2010	1020	28.89	3.9	20:43	03:17	3,265.83	885
04-02-2010	115	3.257	3.9	23:16	00:44	82.24	100
05-02-2010	1322	37.44	3.9	18:32	05:28	7,047.46	1147
06-02-2010	74	2.096	3.9	23:32	00:28	33.68	64
07-02-2010	91	2.577	3.9	23:35	00:25	36.98	79
08-02-2010	0	0	0	24	0	-	0
09-02-2010	523	14.81	3.9	21:25	02:35	1,317.53	454
10-02-2010	2966	84	3.9	16:38	07:22	21,306.91	2573
11-02-2010	3931	111.3	3.9	12:25	11:35	44,403.28	3410
12-02-2010	2702	76.52	3.9	10:22	13:38	35,922.44	2344
13-02-2010	0	0	0	24	0	-	0
14-02-2010	0	0	0	24	0	-	0
15-02-2010	0	0	0	24	0	-	0
16-02-2010	0	0	0	24	0	-	0
17-02-2010	0	0	0	24	0	-	0
18-02-2010	0	0	0	24	0	-	0
19-02-2010	0	0	0	24	0	-	0
20-02-2010	0	0	0	24	0	-	0
21-02-2010	0	0	0	24	0	-	0



## Jainagara

Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/	Running Hr. (Input format)	Expected generation (KWH)	Actual generation (KWH)
22-02-2010	0	0	0	24	0	-	0
23-02-2010	0	0	0	24	0	-	0
24-02-2010	1096	31.04	3.9	18:52	05:08	5,486.41	951
25-02-2010	1940	54.94	3.9	16:36	07:24	13,999.48	1683
26-02-2010	704	19.94	3.9	21:07	02:53	1,979.46	611
27-02-2010	1681	47.61	3.9	14:30	09:30	15,572.91	1458
28-02-2010	3564	100.9	3.9	13:49	10:11	35,392.08	3091
01-03-2010	2447	69.3	3.9	17:01	06:59	16,663.84	2122
02-03-2010	718	20.33	3.9	21:57	02:03	1,435.35	623
03-03-2010	413	11.7	3.9	21:43	02:17	919.60	358
04-03-2010	128	3.625	3.9	23:33	00:27	56.17	111
05-03-2010	917	25.97	3.9	19:48	04:12	3,755.75	795
06-03-2010	708	20.05	3.9	21:50	02:10	1,495.90	614
07-03-2010	0	0	0	24	0	-	0
08-03-2010	59	1.671	3.9	23:40	00:20	19.18	51
09-03-2010	0	0	0	24	0	-	0
10-03-2010	0	0	0	24	0	-	0
11-03-2010	190	5.381	3.9	23:05	00:55	169.84	165
12-03-2010	461	13.06	3.9	22:18	01:42	764.24	361
13-03-2010	0	0	0	24	0	-	0
14-03-2010	0	0	0	24	0	-	0
15-03-2010	265	7.505	3.9	22:36	01:24	361.79	230
16-03-2010	534	15.12	3.9	21:07	02:53	1,501.46	464
17-03-2010	434	12.29	3.9	21:41	02:19	980.46	377
18-03-2010	1135	32.14	3.9	19:41	04:19	4,777.74	985
19-03-2010	1651	46.76	3.9	18:49	05:11	8,345.16	1432
20-03-2010	1742	49.33	3.9	18:25	05:35	9,484.62	1511
21-03-2010	117	3.314	3.9	23:17	00:43	81.77	102
22-03-2010	163	4.616	3.9	23:15	00:45	119.21	142
23-03-2010	174	4.928	3.9	23:19	00:41	115.95	151
24-03-2010	1046	29.62	3.9	19:41	04:19	4,403.10	908
25-03-2010	946	26.79	3.9	18:23	05:37	5,181.41	821
26-03-2010	0	0	0	24	0	-	0
27-03-2010	0	0	0	24	0	-	0
28-03-2010	0	0	0	24	0	-	0
29-03-2010	0	0	0	24	0	-	0
30-03-2010	0	0	0	24	0	-	0
31-03-2010	0	0	0	24	0	-	0



## Valmikinagar

Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal			Running Hr. (Input format)			Expected generation (KWH)	Actual generation (KWH)			Total Actual generation (KWH)
				I	II	III	I	II	III		I	II	III	
								12:35	07:55	40,112.40		38500	15000	53500
01-04-2009	1937	54.86	4.04							-				0
02-04-2009		0								-				0
03-04-2009		0								-				0
04-04-2009		0								-				0
05-04-2009		0								-				0
06-04-2009		0								-				0
07-04-2009		0								-				0
08-04-2009		0								-				0
09-04-2009		0								-				0
10-04-2009		0								-				0
11-04-2009		0								-				0
12-04-2009		0								-				0
13-04-2009		0								-				0
14-04-2009		0								-				0
15-04-2009		0								-				0
16-04-2009		0								-				0
17-04-2009		0								-				0
18-04-2009		0								-				0
19-04-2009		0								-				0
20-04-2009		0								-				0
21-04-2009		0								-				0
22-04-2009		0								-				0
23-04-2009		0								-				0
24-04-2009		0								-				0
25-04-2009		0								-				0
26-04-2009		0								-				0
27-04-2009		0								-				0
28-04-2009		0								-				0
29-04-2009		0								-				0
30-04-2009		0								-				0
01-05-2009		0								-				0
02-05-2009		0								-				0
03-05-2009		0								-				0
04-05-2009		0								-				0
05-05-2009		0								-				0
06-05-2009		0								-				0
07-05-2009		0								-				0
08-05-2009		0								-				0
09-05-2009		0								-				0
10-05-2009		0								-				0
11-05-2009		0								-				0
12-05-2009		0								-				0
13-05-2009		0								-				0
14-05-2009		0								-				0
15-05-2009		0								-				0
16-05-2009		0								-				0



## Valmikinagar

Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal	Running Hr. (Input format)	Expected generation (KWH)	Actual generation (KWH)	Total Actual generation (KWH)
17-05-2009		0				-		0
18-05-2009		0				-		0
19-05-2009		0				-		0
20-05-2009		0				-		0
21-05-2009		0				-		0
22-05-2009		0				-		0
23-05-2009		0				-		0
24-05-2009	1308	37.04	5.88		06:20	12,179.55	13600	13600
25-05-2009	1747	49.48	5.31	00:15	23:45	55,088.99	61300	61300
26-05-2009	1608	45.54	5.21		11:30	24,089.92	26800	26800
27-05-2009		0				-		0
28-05-2009		0				-		0
29-05-2009		0				-		0
30-05-2009		0				-		0
31-05-2009		0				-		0
01-06-2009		0				-		0
02-06-2009	1526	43.22	5.42		10:45	22,231.87	24700	24700
03-06-2009	1854	52.51	5.01		14:55 03:45	43,353.89	40600 8600	49200
04-06-2009	2024	57.32	5.04		22:30	57,390.15	68400	68400
05-06-2009	1551	43.93	5.54		22:15	47,804.13	53200	53200
06-06-2009	933	26.42	4.97		20:25	23,672.09	26400	26400
07-06-2009	1099	31.12	5.2		24:00:00	34,294.63	38300	38300
08-06-2009	1685	47.72	5.25		12:05	26,727.59	29800	29800
09-06-2009		0				-		0
10-06-2009		0				-		0
11-06-2009	1348	38.18	5.06		01:30	2,558.26	8700	8700
12-06-2009	2782	78.79	5.03		18:00	62,981.27	74000	74000
13-06-2009	2938	83.21	5.14		23:30	88,735.33	98800	98800
14-06-2009	2296	65.02	5.23		22:15	66,806.30	74400	74400
15-06-2009	2178	61.68	5.1		24:00:00	66,658.12	74300	74300
16-06-2009	3037	86.01	5.08		20:05	77,474.38	86300	86300
17-06-2009	3074	87.06	5.03	03:25	20:35	79,579.53	88600	88600
18-06-2009	3032	85.87	5.04	00:30	23:30	89,792.78	100000	100000
19-06-2009	3133	88.73	4.9		24:00:00	92,125.85	102700	102700
20-06-2009	3157	89.41	4.83		22:55	87,374.95	97200	97200
21-06-2009	2978	84.34	5	02:00	22:00	81,908.92	91100	91100
22-06-2009	2970	84.11	5	01:10	22:50	84,783.15	95000	95000
23-06-2009	3029	85.78	5.1		24:00:00	92,703.15	101400	101400
24-06-2009	3088	87.45	5.02		24:00:00	93,026.36	103500	103500
25-06-2009	3089	87.48	5.18		24:00:00	96,022.43	106900	106900
26-06-2009	3146	89.1	5.19		24:00:00	97,983.09	109000	109000
27-06-2009	1637	46.36	5.6		24:00:00	55,012.55	61300	61300
28-06-2009	1249	35.37	5.7		20:35:00	36,640.96	39700	39700
29-06-2009	2159	61.14	5.48	07:21	16:40	49,305.54	54900	54900
30-06-2009	2058	58.28	5.24		19:45	53,254.65	59500	59500
01-07-2009	2371	67.15	5.46		24:00:00	77,687.16	86600	86600
02-07-2009	2410	68.25	5.52	07:55	14:05	46,846.31	52200	52200



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Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal		Running Hr. (Input format)		Expected generation (KWH)	Actual generation (KWH)		Total Actual generation (KWH)
03-07-2009	1658	46.96	5.64		04:20		19:40	45,984.15		51100	51100
04-07-2009	2136	60.49	5.59		00:50		23:10	69,165.64		77000	77000
05-07-2009	2074	58.74	5.6				24:00:00	69,698.24		77700	77700
06-07-2009	2085	59.05	5.5		05:10		18:50	54,001.99		60200	60200
07-07-2009	2210	62.59	5.5		15:45		08:15	25,073.95		27900	27900
08-07-2009	2183	61.82	5.6				24:00:00	73,361.26		81600	81600
09-07-2009	2132	60.38	5.7				24:00:00	72,926.79		81300	81300
10-07-2009	2133	60.41	5.68				24:00:00	72,704.99		80900	80900
11-07-2009	2129	60.29	5.76				24:00:00	73,590.74		81900	81900
12-07-2009	2122	60.1	5.71		00:30		23:30:00	71,197.24		79200	79200
13-07-2009	2151	60.92	5.6		01:50		22:10	66,764.04		75800	75800
14-07-2009	2106	59.64	5.6		07:05		16:55	49,885.58		55500	55500
15-07-2009	2219	62.84	5.6				24:00:00	74,571.07		84000	84000
16-07-2009	2176	61.63	5.7				24:00:00	74,431.85		82800	82800
17-07-2009	2138	60.55	5.7				24:00:00	73,132.02		81500	81500
18-07-2009	2061	58.37	5.6		02:55		21:05	60,844.19		67700	67700
19-07-2009	2427	68.73	5.2	19:40		04:20		13,674.42	15300		15300
20-07-2009	2772	78.5	5.2	03:10		20:50		75,087.76	84200		84200
21-07-2009	2848	80.66	5.1	02:25		21:20	00:15	77,478.76	86500	800	87300
22-07-2009	2809	79.55	5.3			24:00:00		89,341.38	99500		99500
23-07-2009	2890	81.85	5.2			24:00:00		90,183.32	100500		100500
24-07-2009	2875	81.42	5.2			24:00:00		89,715.24	100700		100700
25-07-2009	3084	87.34	5.2	09:25		14:35		58,477.44	66000		66000
26-07-2009	2924	82.81	5.3			24:00:00		92,999.00	103600		103600
27-07-2009	2171	61.48	5.3			24:00:00		69,049.53	76800		76800
28-07-2009	1258	35.63	5.6	03:00		21:00		36,991.48	41400		41400
29-07-2009	1052	29.79	5.7	14:35		09:25		14,118.92	15400		15400
30-07-2009	1699	48.12	5.6	16:55		09:05		21,609.29	18900		18900
31-07-2009	1748	49.5	5.4	00:55		23:05		54,481.31	61500		61500
01-08-2009	1666	47.18	5.3	00:45		23:15		51,331.93	57600		57600
02-08-2009	1771	50.16	5.4	02:05		21:55		52,408.37	58700		58700
03-08-2009	1943	55.03	5.4			24:00:00		62,963.90	71000		71000
04-08-2009	1699	48.12	5.4	01:55		22:05		50,660.04	57000		57000
05-08-2009	1757	49.76	5.2			24:00:00		54,827.71	61900		61900
06-08-2009	1489	42.17	5.3	01:15		22:45		44,891.67	50500		50500
07-08-2009	1702	48.2	5.2			24:00:00		53,111.42	59600		59600
08-08-2009	1600	45.31	5.2	01:15		22:45		47,328.04	53500		53500
09-08-2009	1658	46.96	5.2	01:00		23:00		49,582.62	56000		56000
10-08-2009	1716	48.6	5.3	00:25		23:35		53,630.54	59800		59800
11-08-2009	1593	45.11	5.1	00:25		23:35		47,907.66	54100		54100
12-08-2009	1575	44.6	5.4	03:40		20:20		43,241.10	48200		48200
13-08-2009	1699	48.12	5.42			24:00:00		55,260.87	61400		61400
14-08-2009	1767	50.04	5.21	01:00		23:00		52,943.90	59000		59000
15-08-2009	1718	48.65	5.28			24:00:00		54,435.49	62700		62700
16-08-2009	1578	44.69	5.33			24:00:00		50,473.02	56300		56300
17-08-2009	1625	46.02	5.4	00:50		23:10		50,830.51	56600		56600
18-08-2009	360	10.2	5	22:35		01:25		637.61	700		700



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Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal	Running Hr. (Input format)	Expected generation (KWH)	Actual generation (KWH)	Total Actual generation (KWH)
19-08-2009	2035	57.63	5.3	16:30	07:30	20,226.25	22900	22900
20-08-2009	2015	57.07	5.39	03:00	19:00	51,597.80	57400	57400
21-08-2009	1992	56.41	5.38	04:40	19:20	51,807.44	57600	57600
22-08-2009	2413	68.34	5.32		24:00:00	77,036.05	85900	85900
23-08-2009	2395	67.83	5.24		24:00:00	75,311.60	83900	83900
24-08-2009	2240	63.44	5.2		24:00:00	69,899.88	77800	77800
25-08-2009	2256	63.89	5.1		24:00:00	69,045.33	76900	76900
26-08-2009	2286	64.74	5.16		24:00:00	70,786.59	78800	78800
27-08-2009	2448	69.33	5.23	00:45	23:15	74,430.32	83000	83000
28-08-2009	2525	71.51	5.17		24:00:00	78,338.81	87100	87100
29-08-2009	2508	71.03	5.29	00:30	23:30	77,958.75	86800	86800
30-08-2009	2645	74.91	5.26		24:00:00	83,490.38	93100	93100
31-08-2009	2491	70.55	5.14	01:00	23:00	73,634.02	82000	82000
01-09-2009	2324	65.82	5.23	01:10	22:50	69,393.84	77300	77300
02-09-2009	1690	47.86	5.34	01:15	22:45	51,336.13	57200	57200
03-09-2009	1305	36.96	5.65		24:00:00	44,247.02	49200	49200
04-09-2009	1508	42.71	5.65		22:55	48,821.94	54300	54300
05-09-2009	2000	56.64	5.43		23:30	63,813.34	71000	71000
06-09-2009	2104	59.59	5.4		24:00:00	68,181.18	75900	75900
07-09-2009	2171	61.48	5.4		24:00:00	70,352.35	78400	78400
08-09-2009	2226	63.04	5.38		24:00:00	71,867.49	79400	79400
09-09-2009	2161	61.2	5.34		24:00:00	69,250.21	77100	77100
10-09-2009	2117	59.95	5.3		24:00:00	67,332.04	75000	75000
11-09-2009	2105	59.61	5.26		24:00:00	66,445.09	74100	74100
12-09-2009	2001	56.67	5.21		24:00:00	62,561.89	69800	69800
13-09-2009	2037	57.69	5.19		24:00:00	63,442.96	70600	70600
14-09-2009	2028	57.43	5.23		24:00:00	63,649.45	70800	70800
15-09-2009	2017	57.12	5.26		24:00:00	63,667.34	70900	70900
16-09-2009	2147	60.8	5.31		20:10	57,487.64	63900	63900
17-09-2009	2151	60.92	5.3		24:00:00	68,413.42	76200	76200
18-09-2009	2149	60.86	5.32		24:00:00	68,607.74	76400	76400
19-09-2009	2163	61.26	5.37		24:00:00	69,703.70	77700	77700
20-09-2009	2168	61.4	5.34		24:00:00	69,474.52	77300	77300
21-09-2009	2184	61.85	5.35	03:30	20:30	59,892.73	66700	66700
22-09-2009	2382	67.46	5.36	03:50	21:10	67,572.94	75200	75200
23-09-2009	2453	69.47	5.38		24:00:00	79,196.30	88100	88100
24-09-2009	2526	71.54	5.28		24:00:00	80,037.28	89200	89200
25-09-2009	2402	68.03	5.33	00:25	23:35	75,495.18	84000	84000
26-09-2009	2422	68.59	5.33	07:55	15:55	51,376.83	57100	57100
27-09-2009	2477	70.15	5.27	01:45	22:15	72,624.05	80900	80900
28-09-2009	2477	70.15	5.24	10:45	13:15	43,001.83	47900	47900
29-09-2009	2358	66.78	5.23		09:55	30,579.12	34000	34000
30-09-2009	2485	70.38	5.37		06:25	21,410.36	23800	23800
01-10-2009	2594	73.46	5.35		24:00:00	83,281.55	92800	92800
02-10-2009	2577	72.98	5.33		24:00:00	82,426.46	91800	91800
03-10-2009	2558	72.44	5.3		23:30	79,663.26	88800	88800
04-10-2009	2309	65.39	5.2	21:20	02:40	8,005.89	8900	8900



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Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal	Running Hr. (Input format)	Expected generation (KWH)	Actual generation (KWH)	Total Actual generation (KWH)
05-10-2009		0				-		0
06-10-2009		0				-		0
07-10-2009		0				-		0
08-10-2009		0				-		0
09-10-2009	2849	80.69	5.3	16:35	07:25	28,002.12	31200	31200
10-10-2009	2748	77.82	5.26	01:25	22:35	81,621.45	90900	90900
11-10-2009	2666	75.5	5.22	02:25	21:35	75,103.98	83700	83700
12-10-2009	2680	75.9	5.22	01:00	23:00	80,453.87	89500	89500
13-10-2009	2576	72.95	5.15	04:40	19:20	64,131.83	71400	71400
14-10-2009	2628	74.43	5.2	02:05	21:55	74,888.82	83300	83300
15-10-2009	2613	74	5.34		24:00:00	83,734.75	93200	93200
16-10-2009	2613	74	5.23	01:45	22:15	76,029.99	84600	84600
17-10-2009	2533	71.74	5.21	02:35	21:25	70,670.57	78700	78700
18-10-2009	2495	70.66	5.26		24:00:00	78,755.58	87700	87700
19-10-2009	2434	68.93	5.17	00:55	23:05	72,631.24	81600	81600
20-10-2009	2411	68.28	5.19		24:00:00	75,091.30	83700	83700
21-10-2009	2379	67.37	5.17		24:00:00	73,809.12	82200	82200
22-10-2009	2425	68.68	5.22		24:00:00	75,963.91	84500	84500
23-10-2009	2404	68.08	5.28		24:00:00	76,171.66	84800	84800
24-10-2009	2252	63.78	5.27		24:00:00	71,220.34	79200	79200
25-10-2009	2250	63.72	5.21		24:00:00	70,346.95	78400	78400
26-10-2009	2337	66.19	5.2	03:50	20:10	61,278.76	68100	68100
27-10-2009	2455	69.53	5.2		24:00:00	76,609.02	85300	85300
28-10-2009	2459	69.64	5.25		24:00:00	77,471.66	86300	86300
29-10-2009	2436	68.99	5.3	02:15	21:45	70,214.40	78200	78200
30-10-2009	2496	70.69	5.2		24:00:00	77,888.43	86700	86700
31-10-2009	2439	69.07	5.16		24:00:00	75,524.27	84100	84100
01-11-2009	2225	63.01	4.72	00:45	23:15	61,053.25	68000	68000
02-11-2009	2170	61.46	5.27	03:35	20:25	58,380.66	65000	65000
03-11-2009	2427	68.73	5.26	02:25	21:35	68,895.02	76700	76700
04-11-2009	2269	64.26	5.15	12:30	11:30	33,601.09	37400	37400
05-11-2009		0				-		0
06-11-2009		0				-		0
07-11-2009		0				-		0
08-11-2009		0				-		0
09-11-2009		0				-		0
10-11-2009		0				-		0
11-11-2009		0				-		0
12-11-2009		0				-		0
13-11-2009		0				-		0
14-11-2009		0				-		0
15-11-2009		0				-		0
16-11-2009		0				-		0
17-11-2009		0				-		0
18-11-2009		0				-		0
19-11-2009		0				-		0
20-11-2009		0				-		0



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Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal	Running Hr. (Input format)	Expected generation (KWH)	Actual generation (KWH)	Total Actual generation (KWH)
21-11-2009		0				-		0
22-11-2009		0				-		0
23-11-2009		0				-		0
24-11-2009		0				-		0
25-11-2009		0				-		0
26-11-2009		0				-		0
27-11-2009		0				-		0
28-11-2009		0				-		0
29-11-2009		0				-		0
30-11-2009		0				-		0
01-12-2009		0				-		0
02-12-2009		0				-		0
03-12-2009		0				-		0
04-12-2009		0				-		0
05-12-2009		0				-		0
06-12-2009		0				-		0
07-12-2009		0				-		0
08-12-2009		0				-		0
09-12-2009		0				-		0
10-12-2009		0				-		0
11-12-2009		0				-		0
12-12-2009		0				-		0
13-12-2009		0				-		0
14-12-2009		0				-		0
15-12-2009		0				-		0
16-12-2009		0				-		0
17-12-2009		0				-		0
18-12-2009		0				-		0
19-12-2009		0				-		0
20-12-2009		0				-		0
21-12-2009		0				-		0
22-12-2009		0				-		0
23-12-2009		0				-		0
24-12-2009		0				-		0
25-12-2009		0				-		0
26-12-2009		0				-		0
27-12-2009		0				-		0
28-12-2009		0				-		0
29-12-2009		0				-		0
30-12-2009		0				-		0
31-12-2009		0				-		0
01-01-2010		0				-		0
02-01-2010		0				-		0
03-01-2010		0				-		0
04-01-2010		0				-		0
05-01-2010		0				-		0
06-01-2010		0				-		0



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date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal	Running Hr. (Input format)	Expected generation (KWH)	Actual generation (KWH)	Total Actual generation (KWH)
07-01-2010		0				-		0
08-01-2010		0				-		0
09-01-2010		0				-		0
10-01-2010		0				-		0
11-01-2010		0				-		0
12-01-2010		0				-		0
13-01-2010		0				-		0
14-01-2010		0				-		0
15-01-2010		0				-		0
16-01-2010		0				-		0
17-01-2010		0				-		0
18-01-2010		0				-		0
19-01-2010		0				-		0
20-01-2010		0				-		0
21-01-2010		0				-		0
22-01-2010		0				-		0
23-01-2010		0				-		0
24-01-2010		0				-		0
25-01-2010		0				-		0
26-01-2010		0				-		0
27-01-2010		0				-		0
28-01-2010		0				-		0
29-01-2010		0				-		0
30-01-2010		0				-		0
31-01-2010		0				-		0
01-02-2010		0				-		0
02-02-2010		0				-		0
03-02-2010		0				-		0
04-02-2010		0				-		0
05-02-2010		0				-		0
06-02-2010		0				-		0
07-02-2010		0				-		0
08-02-2010		0				-		0
09-02-2010		0				-		0
10-02-2010		0				-		0
11-02-2010		0				-		0
12-02-2010		0				-		0
13-02-2010		0				-		0
14-02-2010		0				-		0
15-02-2010		0				-		0
16-02-2010		0				-		0
17-02-2010		0				-		0
18-02-2010		0				-		0
19-02-2010		0				-		0
20-02-2010		0				-		0
21-02-2010		0				-		0
22-02-2010		0				-		0

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Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal	Running Hr. (Input format)	Expected generation (KWH)	Actual generation (KWH)	Total Actual generation (KWH)
23-02-2010		0				-		0
24-02-2010		0				-		0
25-02-2010		0				-		0
26-02-2010		0				-		0
27-02-2010		0				-		0
28-02-2010		0				-		0
01-03-2010		0				-		0
02-03-2010		0				-		0
03-03-2010		0				-		0
04-03-2010		0				-		0
05-03-2010		0				-		0
06-03-2010		0				-		0
07-03-2010		0				-		0
08-03-2010		0				-		0
09-03-2010		0				-		0
10-03-2010		0				-		0
11-03-2010		0				-		0
12-03-2010		0				-		0
13-03-2010		0				-		0
14-03-2010		0				-		0
15-03-2010		0				-		0
16-03-2010		0				-		0
17-03-2010		0				-		0
18-03-2010		0				-		0
19-03-2010		0				-		0
20-03-2010		0				-		0
21-03-2010		0				-		0
22-03-2010		0				-		0
23-03-2010		0				-		0
24-03-2010		0				-		0
25-03-2010		0				-		0
26-03-2010		0				-		0
27-03-2010		0				-		0
28-03-2010		0				-		0
29-03-2010		0				-		0
30-03-2010		0				-		0
31-03-2010		0				-		0



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Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal		Running Hr. (Input format)		Expected generation (KWH)	Actual generation (KWH)		Total Actual generation (KWH)
				I	II	I	II		I	II	
01-04-2009		0		24:00	24:00	-	-	-			-
02-04-2009		0		24:00	24:00	-	-	-			-
03-04-2009		0		24:00	24:00	-	-	-			-
04-04-2009		0		24:00	24:00	-	-	-			-
05-04-2009		0		24:00	24:00	-	-	-			-
06-04-2009		0		24:00	24:00	-	-	-			-
07-04-2009		0		24:00	24:00	-	-	-			-
08-04-2009		0		24:00	24:00	-	-	-			-
09-04-2009		0		24:00	24:00	-	-	-			-
10-04-2009		0		24:00	24:00	-	-	-			-
11-04-2009		0		24:00	24:00	-	-	-			-
12-04-2009		0		24:00	24:00	-	-	-			-
13-04-2009		0		24:00	24:00	-	-	-			-
14-04-2009		0		24:00	24:00	-	-	-			-
15-04-2009		0		24:00	24:00	-	-	-			-
16-04-2009		0		24:00	24:00	-	-	-			-
17-04-2009		0		24:00	24:00	-	-	-			-
18-04-2009		0		24:00	24:00	-	-	-			-
19-04-2009		0		24:00	24:00	-	-	-			-
20-04-2009		0		24:00	24:00	-	-	-			-
21-04-2009		0		24:00	24:00	-	-	-			-
22-04-2009		0		24:00	24:00	-	-	-			-
23-04-2009		0		24:00	24:00	-	-	-			-
24-04-2009		0		24:00	24:00	-	-	-			-
25-04-2009		0		24:00	24:00	-	-	-			-
26-04-2009		0		24:00	24:00	-	-	-			-
27-04-2009		0		24:00	24:00	-	-	-			-
28-04-2009		0		24:00	24:00	-	-	-			-
29-04-2009		0		24:00	24:00	-	-	-			-
30-04-2009		0		24:00	24:00	-	-	-			-
01-05-2009		0		24:00	-	-	-	-			-
02-05-2009		0		24:00	-	-	-	-			-
03-05-2009		0		24:00	-	-	-	-			-
04-05-2009		0		24:00	-	-	-	-			-
05-05-2009		0		24:00	-	-	-	-			-
06-05-2009		0		24:00	-	-	-	-			-
07-05-2009		0		24:00	-	-	-	-			-
08-05-2009		0		24:00	-	-	-	-			-
09-05-2009		0		24:00	-	-	-	-			-
10-05-2009		0		24:00	-	-	-	-			-
11-05-2009		0		24:00	-	-	-	-			-
12-05-2009		0		24:00	-	-	-	-			-
13-05-2009		0		24:00	-	-	-	-			-
14-05-2009		0		24:00	-	-	-	-			-
15-05-2009		0		24:00	-	-	-	-			-
16-05-2009		0		24:00	-	-	-	-			-



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Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal		Running Hr. (Input format)		Expected generation (KWH)	Actual generation (KWH)		Total Actual generation (KWH)
17-05-2009		0		24:00	-	-	-	-			-
18-05-2009		0		24:00	-	-	-	-			-
19-05-2009		0		24:00	-	-	-	-			-
20-05-2009		0		24:00	-	-	-	-			-
21-05-2009		0		24:00	-	-	-	-			-
22-05-2009		0		24:00	-	-	-	-			-
23-05-2009		0		24:00	-	-	-	-			-
24-05-2009	645	18.2668	3.1	22:15	-	01:45	01:30	1,624.27	300	340	640.00
25-05-2009		0		24:00	-	-	-	-			-
26-05-2009		0		24:00	-	-	-	-			-
27-05-2009		0		24:00	-	-	-	-			-
28-05-2009		0		24:00	-	-	-	-			-
29-05-2009		0		24:00	-	-	-	-			-
30-05-2009		0		24:00	-	-	-	-			-
31-05-2009		0		24:00	-	-	-	-			-
01-06-2009		0		24:00	24:00	-	-	-			-
02-06-2009		0		24:00	24:00	-	-	-			-
03-06-2009		0		24:00	24:00	-	-	-			-
04-06-2009		0		24:00	24:00	-	-	-			-
05-06-2009		0		24:00	24:00	-	-	-			-
06-06-2009		0		24:00	24:00	-	-	-			-
07-06-2009		0		24:00	24:00	-	-	-			-
08-06-2009		0		24:00	24:00	-	-	-			-
09-06-2009		0		24:00	24:00	-	-	-			-
10-06-2009		0		24:00	24:00	-	-	-			-
11-06-2009		0		24:00	24:00	-	-	-			-
12-06-2009	390	11.045	3.1	22:35	24:00	01:25	-	428.26	390		390.00
13-06-2009	362	10.2521	4	18:35	24:00	05:25	-	1,961.17	1590		1,590.00
14-06-2009		0		24:00	24:00	-	-	-			-
15-06-2009		0		24:00	24:00	-	-	-			-
16-06-2009		0		24:00	24:00	-	-	-			-
17-06-2009		0		24:00	24:00	-	-	-			-
18-06-2009		0		24:00	24:00	-	-	-			-
19-06-2009		0		24:00	24:00	-	-	-			-
20-06-2009		0		24:00	24:00	-	-	-			-
21-06-2009		0		24:00	24:00	-	-	-			-
22-06-2009		0		24:00	24:00	-	-	-			-
23-06-2009	352	9.96885	4.5	12:35	23:25	11:25	00:35	14,027.38	4350	120	4,470.00
24-06-2009	819	23.1946	3.9	08:20	12:10	15:40	11:50	21,963.17	6420	4360	10,780.00
25-06-2009	588	16.6525	3.7	15:20	24:00	08:40	-	4,714.60	3920		3,920.00
26-06-2009	507	14.3585	3.8	17:35	23:05	06:25	00:55	14,652.68	2510	330	2,840.00
27-06-2009	711	20.1359	4.1	16:00	15:45	08:00	08:15	11,844.61	2160	2530	4,690.00
28-06-2009	362	10.2521	3.8	12:30	24:00	11:30	-	3,955.52	3360		3,360.00
29-06-2009	382	10.8185	3.8	07:50	24:00	16:10	-	5,867.88	5660		5,660.00
30-06-2009	390	11.045		22:45	24:00	01:15	-	-	390		390.00
01-07-2009	NIL	-		24:00	24:00	-	-				-
02-07-2009	NIL	-		24:00	24:00	-	-				-



**Nasriganj**

Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal		Running Hr. (Input format)		Expected generation (KWH)	Actual generation (KWH)		Total Actual generation (KWH)
03-07-2009	535	15.1515	4.0	21:35	23:55	02:25	00:05	1,337.73	1060	30	1,090.00
04-07-2009	844	23.9026	3.7	08:30	10:15	15:30	13:45	22,839.36	6010	4750	10,760.00
05-07-2009	845	23.9309	3.6	07:30	12:30	16:30	11:30	21,297.62	6540	3890	10,430.00
06-07-2009	967	27.386	3.6	07:35	08:00	16:25	16:00	28,217.02	6480	5510	11,990.00
07-07-2009	912	25.8284	3.6	15:10	15:40	08:50	08:20	14,092.79	3180	2930	6,110.00
08-07-2009	1017	28.802	3.5	08:05	08:25	15:55	15:35	28,035.83	6020	5660	11,680.00
09-07-2009	1049	29.7083	3.0	15:25	15:40	08:35	08:20	13,311.45	3080	2580	5,660.00
10-07-2009	866	24.5256	4.1	11:55	12:25	12:05	11:35	21,011.29	4480	4130	8,610.00
11-07-2009	971	27.4993	3.5	10:20	10:45	13:40	13:15	22,872.96	5060	4480	9,540.00
12-07-2009	915	25.9133	3.1	13:05	08:45	10:55	15:15	18,558.59	3980	5600	9,580.00
13-07-2009	524	14.84	3.3	24:00	12:15	-	11:45	5,080.39		4450	4,450.00
14-07-2009	516	14.6134	3.5	24:00	13:55	-	10:05	4,553.40		3830	3,830.00
15-07-2009	513	14.5285	3.5	24:00	11:35	-	12:25	5,574.48		4870	4,870.00
16-07-2009	528	14.9533	3.5	24:00	13:10	-	10:50	5,005.85		4090	4,090.00
17-07-2009	580	16.4259	3.3	24:00	17:30	-	06:30	3,110.78		2470	2,470.00
18-07-2009	538	15.2365	3.4	24:00	17:00	-	07:00	3,201.64		2670	2,670.00
19-07-2009	508	14.3869	4.0	24:00	20:10	-	03:50	1,947.66		1480	1,480.00
20-07-2009	440	12.4611	4.0	24:00	20:05	-	03:55	1,723.63		1500	1,500.00
21-07-2009	477	13.5089	3.6	24:00	17:50	-	06:10	2,647.80		2380	2,380.00
22-07-2009	534	15.1232	3.3	24:00	15:55	-	08:05	3,561.72		3120	3,120.00
23-07-2009	475	13.4523	3.5	24:00	14:45	-	09:15	3,845.18		3320	3,320.00
24-07-2009	503	14.2453	3.4	24:00	18:00	-	06:00	2,565.74		2280	2,280.00
25-07-2009	486	13.7638	3.5	24:00	22:10	-	01:50	779.76		690	690.00
26-07-2009	547	15.4914	3.2	24:00	15:35	-	08:25	3,683.76		3330	3,330.00
27-07-2009	540	15.2931	3.2	24:00	03:55	-	20:05	8,677.47		7680	7,680.00
28-07-2009	494	13.9904	3.4	24:00	16:35	-	07:25	3,114.79		2780	2,780.00
29-07-2009	489	13.8488	3.5	24:00	08:10	-	15:50	6,775.84		5890	5,890.00
30-07-2009	566	16.0295	3.4	24:00	09:10	-	14:50	7,137.53		6340	6,340.00
31-07-2009	548	15.5197	3.5	24:00	12:20	-	11:40	5,595.12		4920	4,920.00
01-08-2009	570	16.1427	3.3	24:00	15:10	-	08:50	4,154.58		3710	3,710.00
02-08-2009		0		24:00	24:00	-	-	-			-
03-08-2009		0		24:00	24:00	-	-	-			-
04-08-2009		0		24:00	24:00	-	-	-			-
05-08-2009		0		24:00	24:00	-	-	-			-
06-08-2009		0		24:00	24:00	-	-	-			-
07-08-2009		0		24:00	24:00	-	-	-			-
08-08-2009		0		24:00	24:00	-	-	-			-
09-08-2009		0		24:00	24:00	-	-	-			-
10-08-2009		0		24:00	24:00	-	-	-			-
11-08-2009		0		24:00	24:00	-	-	-			-
12-08-2009		0		24:00	24:00	-	-	-			-
13-08-2009		0		24:00	24:00	-	-	-			-
14-08-2009		0		24:00	24:00	-	-	-			-
15-08-2009		0		24:00	24:00	-	-	-			-
16-08-2009	542	15.3498	3.2	24:00	15:20	-	08:40	3,758.51		3350	3,350.00
17-08-2009	516	14.6134	3.5	24:00	05:35	-	18:25	8,316.54		7190	7,190.00
18-08-2009	568	16.0861	3.5	24:00	11:50	-	12:10	6,047.86		5300	5,300.00



## Nasriganj

Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal		Running Hr. (input format)		Expected generation (KWH)	Actual generation (KWH)	Total Actual generation (KWH)
19-08-2009	550	15.5763	3.5	24:00	17:00	-	07:00	3,369.32	2980	2,980.00
20-08-2009	539	15.2648	3.5	24:00	19:45	-	04:15	2,004.75	1790	1,790.00
21-08-2009	529	14.9816	3.5	24:00	22:45	-	01:15	578.69	480	480.00
22-08-2009	485	13.7355	3.9	24:00	14:10	-	09:50	4,650.73	4030	4,030.00
23-08-2009	527	14.925	3.3	24:00	04:35	-	19:25	8,443.32	7530	7,530.00
24-08-2009	450	12.7443	3.2	24:00	13:30	-	10:30	3,780.64	3250	3,250.00
25-08-2009	520	14.7267	3.5	24:00	08:50	-	15:10	6,902.01	6060	6,060.00
26-08-2009	463	13.1124	3.8	24:00	12:00	-	12:00	5,279.10	4450	4,450.00
27-08-2009	463	13.1124	3.8	24:00	03:20	-	20:40	9,091.78	7960	7,960.00
28-08-2009	503	14.2453	3.5	24:00	04:05	-	19:55	8,767.31	7700	7,700.00
29-08-2009	482	13.6505	3.5	24:00	08:10	-	15:50	6,678.84	5900	5,900.00
30-08-2009	518	14.6701	3.2	24:00	03:40	-	20:20	8,427.57	7530	7,530.00
31-08-2009	529	14.9816	3.2	24:00	10:50	-	13:10	5,573.08	4890	4,890.00
01-09-2009	435	12.3195	3.5	24:00	16:00	-	08:00	3,045.52	2950	2,950.00
02-09-2009	586	16.5959	3.5	24:00	09:00	-	15:00	7,692.56	5950	5,950.00
03-09-2009	475	13.4523	3.8	24:00	08:10	-	15:50	7,146.01	6570	6,570.00
04-09-2009	524	14.84	3.2	24:00	04:00	-	20:00	8,385.42	7290	7,290.00
05-09-2009	426	12.0646	3.4	24:00	03:20	-	20:40	7,484.67	7740	7,740.00
06-09-2009	481	13.6222	3.4	24:00	05:45	-	18:15	7,462.78	6660	6,660.00
07-09-2009	442	12.5177	3.3	24:00	22:20	-	01:40	607.85	560	560.00
08-09-2009	448	12.6876	4.0	24:00	18:50	-	05:10	2,315.06	2000	2,000.00
09-09-2009	380	10.7618	3.4	24:00	11:20	-	12:40	4,092.03	3580	3,580.00
10-09-2009	519	14.6984	2.8	24:00	18:10	-	05:50	2,119.61	1850	1,850.00
11-09-2009	484	13.7072	3.4	24:00	12:05	-	11:55	4,903.35	4470	4,470.00
12-09-2009	428	12.1212	3.8	24:00	12:35	-	11:25	4,642.81	4110	4,110.00
13-09-2009	474	13.424	3.8	24:00	07:20	-	16:40	7,506.28	6620	6,620.00
14-09-2009	518	14.6701	3.6	24:00	11:50	-	12:10	5,673.06	4970	4,970.00
15-09-2009	493	13.9621	3.7	24:00	11:55	-	12:05	5,511.24	4950	4,950.00
16-09-2009	452	12.8009	3.7	24:00	16:00	-	08:00	3,345.37	2870	2,870.00
17-09-2009	520	14.7267	3.4	24:00	07:35	-	16:25	7,257.40	5590	5,590.00
18-09-2009	484	13.7072	3.2	24:00	10:40	-	13:20	5,163.54	4690	4,690.00
19-09-2009	528	14.9533	3.4	24:00	08:05	-	15:55	7,144.61	6280	6,280.00
20-09-2009	601	17.0207	3.4	24:00	06:35	-	17:25	8,898.82	7870	7,870.00
21-09-2009	613	17.3605	3.4	24:00	10:55	-	13:05	6,818.23	5950	5,950.00
22-09-2009	553	15.6613	3.9	24:00	13:05	-	10:55	5,886.99	5090	5,090.00
23-09-2009	525	14.8683	4.1	24:00	13:50	-	10:10	5,471.87	4730	4,730.00
24-09-2009	559	15.8312	3.8	24:00	07:20	-	16:40	8,852.34	7450	7,450.00
25-09-2009	625	17.7004	3.5	24:00	11:00	-	13:00	7,110.58	6150	6,150.00
26-09-2009	609	17.2472	3.6	24:00	07:30	-	16:30	9,045.19	7880	7,880.00
27-09-2009	645	18.2668	3.3	24:00	01:00	-	23:00	12,240.95	10770	10,770.00
28-09-2009	568	16.0861	3.7	24:00	09:20	-	14:40	7,707.18	6730	6,730.00
29-09-2009	547	15.4914	3.7	24:00	13:40	-	10:20	5,229.30	4640	4,640.00
30-09-2009	550	15.5763	3.8	24:00	13:45	-	10:15	5,356.54	5120	5,120.00
01-10-2009	566	16.0295	3.8	24:00	14:30	-	09:30	5,109.02	4210	4,210.00
02-10-2009	570	16.1427	3.9	24:00	13:25	-	10:35	5,882.69	4880	4,880.00
03-10-2009	496	14.047	3.7	24:00	12:05	-	11:55	5,468.30	4890	4,890.00
04-10-2009	543	15.3781	3.6	24:00	07:10	-	16:50	8,227.85	7070	7,070.00



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Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal		Running Hr. (Input format)		Expected generation (KWH)	Actual generation (KWH)		Total Actual generation (KWH)
05-10-2009	550	15.5763	3.6	24:00	06:05	-	17:55	8,870.26		8230	8,230.00
06-10-2009	534	15.1232	3.8	24:00	09:10	-	14:50	7,526.23		6500	6,500.00
07-10-2009	540	15.2931	3.5	24:00	11:15	-	12:45	6,025.40		5340	5,340.00
08-10-2009	522	14.7833	3.2	24:00	08:00	-	16:00	6,682.74		5990	5,990.00
09-10-2009	494	13.9904	3.3	24:00	07:40	-	16:20	6,657.78		5900	5,900.00
10-10-2009	491	13.9054	3.2	24:00	11:40	-	12:20	4,845.36		4360	4,360.00
11-10-2009	493	13.9621	3.2	24:00	10:45	-	13:15	5,226.69		4760	4,760.00
12-10-2009	450	12.7443	3.5	24:00	08:20	-	15:40	6,169.80		5310	5,310.00
13-10-2009	507	14.3585	3.4	24:00	09:15	-	14:45	6,357.59		5600	5,600.00
14-10-2009	536	15.1798	3.6	24:00	10:10	-	13:35	6,553.71		5820	5,820.00
15-10-2009	503	14.2453	3.6	24:00	11:10	-	12:50	5,810.64		5090	5,090.00
16-10-2009	483	13.6788	3.6	24:00	11:15	-	12:45	5,543.37		4960	4,960.00
17-10-2009	524	14.84	3.6	24:00	06:15	-	17:45	8,372.32		7440	7,440.00
18-10-2009	534	15.1232	3.5	24:00	03:35	-	20:25	9,541.31		8290	8,290.00
19-10-2009	532	15.0666	3.5	24:00	08:30	-	15:30	7,216.48		6020	6,020.00
20-10-2009	463	13.1124	3.8	24:00	10:15	-	13:45	6,048.97		5670	5,670.00
21-10-2009	518	14.6701	3.5	24:00	14:00	-	10:00	4,533.27		3780	3,780.00
22-10-2009	594	16.8224	3.5	24:00	13:45	-	10:15	5,328.34		4580	4,580.00
23-10-2009	605	17.134	3.4	24:00	17:10	-	06:50	3,514.64		3280	3,280.00
24-10-2009	547	15.4914	3.5	24:00	13:05	-	10:55	5,225.88		5080	5,080.00
25-10-2009	556	15.7462	3.4	24:00	10:25	-	13:35	6,420.57		5280	5,280.00
26-10-2009	491	13.9054	4.4	24:00	20:30	-	03:30	1,890.67		1740	1,740.00
27-10-2009	516	14.6134	3.6	24:00	19:50	-	04:10	1,935.33		1730	1,730.00
28-10-2009		0		24:00	24:00	-	-	-			-
29-10-2009		0		24:00	24:00	-	-	-			-
30-10-2009		0		24:00	24:00	-	-	-			-
31-10-2009		0		24:00	24:00	-	-	-			-
01-11-2009		0		24:00	24:00	-	-	-			-
02-11-2009		0		24:00	24:00	-	-	-			-
03-11-2009		0		24:00	24:00	-	-	-			-
04-11-2009		0		24:00	24:00	-	-	-			-
05-11-2009		0		24:00	24:00	-	-	-			-
06-11-2009		0		24:00	24:00	-	-	-			-
07-11-2009		0		24:00	24:00	-	-	-			-
08-11-2009		0		24:00	24:00	-	-	-			-
09-11-2009		0		24:00	24:00	-	-	-			-
10-11-2009		0		24:00	24:00	-	-	-			-
11-11-2009		0		24:00	24:00	-	-	-			-
12-11-2009		0		24:00	24:00	-	-	-			-
13-11-2009		0		24:00	24:00	-	-	-			-
14-11-2009		0		24:00	24:00	-	-	-			-
15-11-2009		0		24:00	24:00	-	-	-			-
16-11-2009		0		24:00	24:00	-	-	-			-
17-11-2009		0		24:00	24:00	-	-	-			-
18-11-2009	502	14.2169	3.4	24:00	15:15	-	08:45	3,734.26		3100	3,100.00
19-11-2009	453	12.8292	3.8	24:00	13:55	-	10:05	4,340.10		3790	3,790.00
20-11-2009	599	16.964	3.5	24:00	15:55	-	08:05	4,237.40		2990	2,990.00



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Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal		Running Hr. (Input format)		Expected generation (KWH)	Actual generation (KWH)		Total Actual generation (KWH)
21-11-2009	450	12.7443	3.9	24:00	14:50	-	09:10	4,022.56		4060	4,060.00
22-11-2009	493	13.9621	3.3	24:00	15:40	-	08:20	3,389.95		3930	3,930.00
23-11-2009	378	10.7052	3.7	24:00	16:20	-	07:40	2,681.11		2340	2,340.00
24-11-2009		0		24:00	23:40	-	00:20	-		30	30.00
25-11-2009		0		24:00	24:00	-	-	-			-
26-11-2009		0		24:00	24:00	-	-	-			-
27-11-2009		0		24:00	24:00	-	-	-			-
28-11-2009		0		24:00	24:00	-	-	-			-
29-11-2009		0		24:00	24:00	-	-	-			-
30-11-2009		0		24:00	24:00	-	-	-			-
01-12-2009		0		24:00	24:00	-	-	-			-
02-12-2009		0		24:00	24:00	-	-	-			-
03-12-2009		0		24:00	24:00	-	-	-			-
04-12-2009		0		24:00	24:00	-	-	-			-
05-12-2009		0		24:00	24:00	-	-	-			-
06-12-2009		0		24:00	24:00	-	-	-			-
07-12-2009		0		24:00	24:00	-	-	-			-
08-12-2009		0		24:00	24:00	-	-	-			-
09-12-2009		0		24:00	24:00	-	-	-			-
10-12-2009		0		24:00	24:00	-	-	-			-
11-12-2009		0		24:00	24:00	-	-	-			-
12-12-2009		0		24:00	24:00	-	-	-			-
13-12-2009		0		24:00	24:00	-	-	-			-
14-12-2009		0		24:00	24:00	-	-	-			-
15-12-2009		0		24:00	24:00	-	-	-			-
16-12-2009		0		24:00	24:00	-	-	-			-
17-12-2009		0		24:00	24:00	-	-	-			-
18-12-2009		0		24:00	24:00	-	-	-			-
19-12-2009		0		24:00	24:00	-	-	-			-
20-12-2009		0		24:00	24:00	-	-	-			-
21-12-2009		0		24:00	24:00	-	-	-			-
22-12-2009		0		24:00	24:00	-	-	-			-
23-12-2009		0		24:00	24:00	-	-	-			-
24-12-2009		0		24:00	24:00	-	-	-			-
25-12-2009		0		24:00	24:00	-	-	-			-
26-12-2009	241	6.82526	3.8	24:00	22:15	-	01:45	400.73		360	360.00
27-12-2009		0		24:00	24:00	-	-	-			-
28-12-2009		0		24:00	24:00	-	-	-			-
29-12-2009		0		24:00	24:00	-	-	-			-
30-12-2009		0		24:00	24:00	-	-	-			-
31-12-2009		0		24:00	24:00	-	-	-			-
01-01-2010		0		24:00	24:00	-	-	-			-
02-01-2010		0		24:00	24:00	-	-	-			-
03-01-2010		0		24:00	24:00	-	-	-			-
04-01-2010		0		24:00	24:00	-	-	-			-
05-01-2010		0		24:00	24:00	-	-	-			-
06-01-2010		0		24:00	24:00	-	-	-			-



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Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal		Running Hr. (Input format)		Expected generation (KWH)	Actual generation (KWH)		Total Actual generation (KWH)
07-01-2010		0		24:00	24:00	-	-	-			-
08-01-2010		0		24:00	24:00	-	-	-			-
09-01-2010	583	16.5109	3.4	20:30	24:00	03:30	-	1,734.72	1510		1,510.00
10-01-2010	510	14.4435	3.8	19:15	24:00	04:45	-	2,301.77	1730		1,730.00
11-01-2010	566	16.0295	3.6	19:05	24:00	04:55	-	2,504.98	1970		1,970.00
12-01-2010	490	13.8771	3.8	13:35	24:00	10:25	-	4,849.78	4210		4,210.00
13-01-2010	527	14.925	3.8	18:20	24:00	05:40	-	2,837.50	2460		2,460.00
14-01-2010		0		24:00	24:00	-	-	-			-
15-01-2010	446	12.631	4.2	21:00	24:00	03:00	-	1,405.14	1000		1,000.00
16-01-2010		0		24:00	24:00	-	-	-			-
17-01-2010		0		24:00	24:00	-	-	-			-
18-01-2010		0		24:00	24:00	-	-	-			-
19-01-2010		0		24:00	24:00	-	-	-			-
20-01-2010	477	13.5089	3.8	10:50	24:00	13:10	-	5,967.49	5490		5,490.00
21-01-2010	418	11.838	3.5	14:25	24:00	09:35	-	3,505.70	2950		2,950.00
22-01-2010	368	10.422	3.8	16:40	23:10	07:20	00:50	2,855.55	2680	280	2,960.00
23-01-2010	533	15.0949	3.8	14:45	24:00	09:15	-	4,684.53	4090		4,090.00
24-01-2010	558	15.8029	3.7	12:45	24:00	11:05	-	5,721.63	4620		4,620.00
25-01-2010	499	14.132	3.7	11:40	24:00	12:20	-	5,693.73	4940		4,940.00
26-01-2010	573	16.2277	3.8	11:30	24:00	12:30	-	6,805.53	5520		5,520.00
27-01-2010	563	15.9445	3.5	13:20	24:00	10:40	-	5,255.56	4290		4,290.00
28-01-2010	549	15.548	3.7	16:50	24:00	07:10	-	3,640.03	2790		2,790.00
29-01-2010	530	15.0099	3.5	14:15	24:00	09:45	-	4,522.33	3770		3,770.00
30-01-2010	496	14.047	3.5	13:15	24:00	10:45	-	4,666.29	3800		3,800.00
31-01-2010	557	15.7746	3.5	11:00	24:00	13:00	-	6,336.95	5400		5,400.00
01-02-2010	546	15.463	3.8	13:25	24:00	10:35	-	5,490.51	4000		4,000.00
02-02-2010	604	17.1056	3.6	14:10	24:00	09:50	-	5,346.31	4360		4,360.00
03-02-2010	560	15.8595	3.8	11:55	24:00	12:05	-	6,429.43	5580		5,580.00
04-02-2010	650	18.4084	3.0	18:40	24:00	05:20	-	2,600.44	2140		2,140.00
05-02-2010	584	16.5392	3.2	15:10	24:00	08:50	-	4,127.63	3540		3,540.00
06-02-2010		0		24:00	24:00	-	-	-			-
07-02-2010		0		24:00	24:00	-	-	-			-
08-02-2010		0		24:00	24:00	-	-	-			-
09-02-2010		0		24:00	24:00	-	-	-			-
10-02-2010	498	14.1037	3.3	19:50	24:00	04:10	-	1,712.17	1510		1,510.00
11-02-2010	484	13.7072	3.0	10:50	21:50	13:10	02:10	5,566.95	4250	540	4,790.00
12-02-2010	550	15.5763	3.0	13:55	22:45	10:05	01:15	4,675.79	3580	370	3,950.00
13-02-2010	458	12.9708	3.0	15:55	20:55	08:05	03:05	3,836.40	2420	800	3,220.00
14-02-2010	461	13.0558	3.5	10:40	24:00	13:20	-	5,379.25	4970		4,970.00
15-02-2010	379	10.7335	3.3	17:50	21:55	06:10	02:05	2,580.01	1810	510	2,320.00
16-02-2010	399	11.2999	3.0	16:30	24:00	07:30	-	2,244.76	2010		2,010.00
17-02-2010	578	16.3693	3.2	21:05	24:00	02:55	-	1,348.90	1160		1,160.00
18-02-2010	446	12.631	3.0	15:55	24:00	08:05	-	2,704.33	2330		2,330.00
19-02-2010	399	11.2999	3.0	18:35	24:00	05:25	-	1,621.21	1420		1,420.00
20-02-2010		0		24:00	24:00	-	-	-			-
21-02-2010		0		24:00	24:00	-	-	-			-
22-02-2010		0		24:00	24:00	-	-	-			-



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Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal		Running Hr. (Input format)		Expected generation (KWH)	Actual generation (KWH)		Total Actual generation (KWH)
23-02-2010		0		24:00	24:00	-	-	-			-
24-02-2010		0		24:00	24:00	-	-	-			-
25-02-2010		0		24:00	24:00	-	-	-			-
26-02-2010		0		24:00	24:00	-	-	-			-
27-02-2010		0		24:00	24:00	-	-	-			-
28-02-2010		0		24:00	24:00	-	-	-			-
01-03-2010		0		24:00	24:00	-	-	-			-
02-03-2010		0		24:00	24:00	-	-	-			-
03-03-2010		0		24:00	24:00	-	-	-			-
04-03-2010	412	11.6681	3.0	21:05	21:05	02:55	-	901.40	760		760.00
05-03-2010	461	13.0558	3.5	17:40	17:40	06:20	-	2,555.14	1950		1,950.00
06-03-2010		0		24:00	24:00	-	-	-			-
07-03-2010		0		24:00	24:00	-	-	-			-
08-03-2010	443	12.546	3.0	22:20	22:20	01:40	-	553.84	540		540.00
09-03-2010	579	16.3976	3.6	11:50	11:50	12:10	-	6,341.13	5420		5,420.00
10-03-2010	508	14.3869	3.7	16:55	16:55	07:05	-	3,329.02	3350		3,350.00
11-03-2010		0	3.6	23:55	23:55	00:05	-	-	10		10.00
12-03-2010		0		24:00	24:00	-	-	-			-
13-03-2010		0		24:00	24:00	-	-	-			-
14-03-2010		0		24:00	24:00	-	-	-			-
15-03-2010		0		24:00	24:00	-	-	-			-
16-03-2010		0		24:00	24:00	-	-	-			-
17-03-2010		0		24:00	24:00	-	-	-			-
18-03-2010		0		24:00	24:00	-	-	-			-
19-03-2010		0		24:00	24:00	-	-	-			-
20-03-2010		0		24:00	24:00	-	-	-			-
21-03-2010	327	9.26083	3.7	22:35	22:35	01:25	-	428.58	360		360.00
22-03-2010	319	9.03427	2.3	23:10	23:10	00:50	-	4,402.95	190		190.00
23-03-2010		0		24:00	24:00	-	-	-			-
24-03-2010		0		24:00	24:00	-	-	-			-
25-03-2010	374	10.5919	3.4	19:35	19:35	04:25	-	1,404.30	1160		1,160.00
26-03-2010	369	10.4503	3.4	18:35	18:35	05:25	-	1,699.23	1480		1,480.00
27-03-2010		0		24:00	24:00	-	-	-			-
28-03-2010		0		24:00	24:00	-	-	-			-
29-03-2010	504	14.2736	3.4	20:15	20:15	03:45	-	1,606.77	1480		1,480.00
30-03-2010	425	12.0363	3.8	11:05	11:05	12:55	-	5,215.99	4430		4,430.00
31-03-2010	318	9.00595	3.8	09:05	09:05	14:55	-	4,507.09	4300		4,300.00

*g. k. k.*



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Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal closure		Running Hr. (Input format)		Expected generation (KWH)	Actual generation (KWH)		Total Actual generation (KWH)
	I			I	II	I	II		I	II	
01-04-2009		0						-			0
02-04-2009		0						-			0
03-04-2009		0						-			0
04-04-2009		0						-			0
05-04-2009		0						-			0
06-04-2009		0						-			0
07-04-2009		0						-			0
08-04-2009		0						-			0
09-04-2009		0						-			0
10-04-2009		0						-			0
11-04-2009		0						-			0
12-04-2009		0						-			0
13-04-2009		0						-			0
14-04-2009		0						-			0
15-04-2009		0						-			0
16-04-2009		0						-			0
17-04-2009		0						-			0
18-04-2009		0						-			0
19-04-2009		0						-			0
20-04-2009		0						-			0
21-04-2009		0						-			0
22-04-2009		0						-			0
23-04-2009		0						-			0
24-04-2009		0						-			0
25-04-2009		0						-			0
26-04-2009		0						-			0
27-04-2009		0						-			0
28-04-2009		0						-			0
29-04-2009		0						-			0
30-04-2009		0						-			0
01-05-2009		0						-			0
02-05-2009		0						-			0
03-05-2009		0						-			0
04-05-2009		0						-			0
05-05-2009		0						-			0
06-05-2009		0						-			0
07-05-2009		0						-			0
08-05-2009		0						-			0
09-05-2009		0						-			0
10-05-2009		0						-			0
11-05-2009		0						-			0
12-05-2009		0						-			0
13-05-2009		0						-			0
14-05-2009		0						-			0
15-05-2009		0						-			0

**Agnoor**

Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal closure	Running Hr. (Input format)	Expected generation (KWH)	Actual generation (KWH)	Total Actual generation (KWH)
16-05-2009		0				-		0
17-05-2009		0				-		0
18-05-2009		0				-		0
19-05-2009		0				-		0
20-05-2009		0				-		0
21-05-2009		0				-		0
22-05-2009		0				-		0
23-05-2009		0				-		0
24-05-2009		0				-		0
25-05-2009		0				-		0
26-05-2009		0				-		0
27-05-2009		0				-		0
28-05-2009		0				-		0
29-05-2009		0				-		0
30-05-2009		0				-		0
31-05-2009		0				-		0
01-06-2009	259.18	7.34	3	22:09	01:51	359.67	400	400
02-06-2009	264.98	7.504	3	21:17	02:43	539.99	590	590
03-06-2009		0				-		0
04-06-2009		0				-		0
05-06-2009		0				-		0
06-06-2009		0				-		0
07-06-2009		0				-		0
08-06-2009		0				-		0
09-06-2009		0				-		0
10-06-2009		0				-		0
11-06-2009		0				-		0
12-06-2009		0				-		0
13-06-2009		0				-		0
14-06-2009		0				-		0
15-06-2009	155.88	4.415	3.06	22:35	01:25	168.96	220	220
16-06-2009		0				-		0
17-06-2009		0				-		0
18-06-2009		0				-		0
19-06-2009		0				-		0
20-06-2009		0				-		0
21-06-2009		0				-		0
22-06-2009		0				-		0
23-06-2009		0				-		0
24-06-2009		0				-		0
25-06-2009		0				-		0
26-06-2009		0				-		0
27-06-2009		0				-		0
28-06-2009		0				-		0
29-06-2009		0				-		0
30-06-2009		0				-		0

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Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal closure		Running Hr. (Input format)		Expected generation (KWH)	Actual generation (KWH)		Total Actual generation (KWH)
01-07-2009		0						-			0
02-07-2009		0						-			0
03-07-2009		0						-			0
04-07-2009		0						-			0
05-07-2009		0						-			0
06-07-2009		0						-			0
07-07-2009		0						-			0
08-07-2009		0						-			0
09-07-2009		0						-			0
10-07-2009	612.78	17.35	2.9	20:29		03:31		1,562.60	1490		1490
11-07-2009	305.88	8.663	3.5	20:55		03:05		825.38	1140		1140
12-07-2009	397.38	11.25	3.6	23:07		00:53		-	350		350
13-07-2009	425.07	12.04	3.7	14:07		09:53		3,886.69	4320		4320
14-07-2009	432.24	12.24	3.7	11:27		12:33		5,018.62	5580		5580
15-07-2009	412.04	11.67	3.7	17:14		06:24		2,439.69	2560		2560
16-07-2009	412.94	11.69	3.6	21:05	20:32	02:55	03:28	2,372.74	1140	1430	2570
17-07-2009	440.42	12.47	3.5	15:35	23:44	08:25	00:13	3,244.06	3510	90	3600
18-07-2009	479.03	13.57	3.7	17:42	21:14	06:18	02:46	4,018.15	2780	1360	4140
19-07-2009	499.78	14.15	3.5	18:49	22:10	05:11	01:50	3,068.96	2280	890	3170
20-07-2009	503.55	14.26			22:58		01:02	-		490	490
21-07-2009					24:00:00			-			0
22-07-2009	362.29	10.26	4.6	18:10		05:50		2,430.78	2760		2760
23-07-2009	497.63	14.09	3.7	15:42	20:43	08:18	03:17	5,332.80	3770	1550	5320
24-07-2009	516.97	14.64	3.6	17:42	21:00	08:18	03:00	5,258.48	3120	1340	4460
25-07-2009	480.12	13.6	3.7	18:17	23:18	05:43	00:42	2,539.27	2800	340	3140
26-07-2009	486.37	13.77	3.5	22:41	21:15	01:19	02:45	1,730.96	620	1220	1840
27-07-2009	475.27	13.46	3.5	15:04		08:56		3,715.66	4130		4130
28-07-2009	475.12	13.46	3.4	17:16		06:44		2,719.73	3020		3020
29-07-2009	480.35	13.6	3.5	16:56		07:04		2,970.67	3300		3300
30-07-2009	461.83	13.08	3.5	16:23		07:37		3,078.43	3420		3420
31-07-2009	444.73	12.6	3.7	19:39		07:36		3,126.98	1990		1990
01-08-2009	485.04	13.74	3.3	20:01		03:44		1,494.18	1660		1660
02-08-2009	383.11	10.85	3.5	17:23		04:34		1,531.10	1700		1700
03-08-2009	386.71	10.95	3.1	22:00		03:00		899.25	1000		1000
04-08-2009	359.24	10.17	3.8	22:20		01:40		568.89	630		630
05-08-2009	597.02	16.91	3.5		22:30		01:30	783.72		610	610
06-08-2009	414.51	11.74	3.7	23:14	20:44	00:46	03:16	1,252.72	320	1390	1710
07-08-2009	352.64	9.987	3.6		23:29		00:31	-		180	180
08-08-2009	337.6	9.561	3.4	22:35		01:25		406.60	450		450
09-08-2009		0						-			0
10-08-2009		0						-			0
11-08-2009		0						-			0
12-08-2009		0						-			0
13-08-2009		0						-			0
14-08-2009	382.49	10.83	3.7	23:23		00:37		-			0
15-08-2009	386.36	10.94	3.8	22:02		01:58		721.97	800		800

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Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal closure		Running Hr. (Input format)		Expected generation (KWH)	Actual generation (KWH)		Total Actual generation (KWH)
16-08-2009	530.4	15.02	3.5	19:51	21:58	04:18	02:11	3,009.43	2080	1030	3110
17-08-2009	445.96	12.63	3.5	15:31	20:22	08:29	03:38	4,728.91	3680	1470	5150
18-08-2009	457.89	12.97	3.7	19:51		03:44		1,581.52	1760		1760
19-08-2009	53.28	1.509	3.6	23:38	23:50	00:22	00:03	-	160	40	200
20-08-2009	406.69	11.52	3.3	17:53	18:17	06:07	05:43	3,970.99	2280	2060	4340
21-08-2009		0		24:00:00	24:00:00			-			0
22-08-2009	415.62	11.77	3.6	20:06	18:56	03:43	04:53	3,217.45	1520	2030	3550
23-08-2009	448.15	12.69	3.5	21:39	22:40	02:21	01:20	1,444.60	1020	580	1600
24-08-2009	429.94	12.18	3.5	14:39	14:17	09:15	09:37	7,098.80	3870	3160	7030
25-08-2009	406.7	11.52	3.4	13:54	14:05	10:06	09:55	6,920.84	3820	3810	7630
26-08-2009	446.32	12.64	3.5	18:48	14:47	05:12	09:13	5,631.10	1940	4000	5940
27-08-2009	473.8	13.42	3.6		12:10		11:50	5,046.83		5610	5610
28-08-2009	492.88	13.96	3.5	22:56	12:28		11:32	4,974.83	430	5530	5960
29-08-2009	488.69	13.84	3.6		13:31		09:39	4,244.99		470	470
30-08-2009	493.36	13.97	3.6		15:09		08:51	3,930.28		4370	4370
31-08-2009	488.73	13.84	3.6		12:28		11:32	5,073.88		5640	5640
01-09-2009	478.07	13.54	3.6		10:17		13:43	5,902.78		6560	6560
02-09-2009	502.27	14.22	3.6		18:27		05:33	2,509.26		2790	2790
03-09-2009	509.09	14.42	3.5		17:30		06:30	2,895.94		3220	3220
04-09-2009	551.4	15.62	3.6		17:21		06:39	3,300.69		3670	3670
05-09-2009	457.2	12.95	3.8		15:58		07:57	3,453.59		3840	3840
06-09-2009	470.36	13.32	3.7		13:15		10:13	4,445.85		4940	4940
07-09-2009		0			24:00:00			-			0
08-09-2009		0			24:00:00			-			0
09-09-2009	284.74	8.064	3.3		20:38		03:20	783.17		870	870
10-09-2009	437.15	12.38	4		18:55		05:05	2,222.56		2470	2470
11-09-2009	365.29	10.35	3.7		18:01		01:39	557.62		620	620
12-09-2009	448.99	12.72	3.9		21:21		02:39	1,160.28		1290	1290
13-09-2009	432.56	12.25	3.9		19:29		04:02	1,701.33		1890	1890
14-09-2009	433.25	12.27	3.6		22:18		01:08	441.99		490	490
15-09-2009	519.8	14.72	3.4		22:50		01:10	515.56		570	570
16-09-2009	488.71	13.84	3.6		14:51		08:17	3,643.95		4050	4050
17-09-2009	472.45	13.38	3.7		20:45		03:13	1,405.97		1560	1560
18-09-2009	491.8	13.93	3.5		16:11		07:14	3,113.21		3460	3460
19-09-2009	473.67	13.41	3.6		18:37		05:13	2,224.26		2470	2470
20-09-2009	472.06	13.37	3.9		19:38		04:22	2,010.14		2060	2060
21-09-2009	533.29	15.1	3.5		13:16		08:59	4,192.59		4660	4660
22-09-2009	471.3	13.35	3.7		15:36		06:15	2,725.17		3030	3030
23-09-2009	514.95	14.58	3.7		19:36		04:24	2,096.20		2140	2140
24-09-2009	368.92	10.45	4.1		17:10		06:28	2,445.74		2860	2860
25-09-2009	437.44	12.39	4		16:11		07:49	3,419.90		3800	3800
26-09-2009	341.72	9.678	4.5		13:49		10:11	3,915.49		4780	4780
27-09-2009	439.57	12.45	4.1		18:53		04:26	1,997.82		2220	2220
28-09-2009	446.43	12.64	3.8		08:40		15:20	6,504.10		7230	7230
29-09-2009	382.71	10.84	4.2		14:40		09:20	3,751.20		4170	4170
30-09-2009	428.89	12.15	4		16:34		06:01	2,580.93		2910	2910

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**Agnoor**

Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal closure	Running Hr. (Input format)	Expected generation (KWH)	Actual generation (KWH)	Total Actual generation (KWH)
01-10-2009		0				-		0
02-10-2009	355.86	10.08	4.2	19:55	03:05	1,152.29	1280	1280
03-10-2009	468.55	13.27	3.8	17:23	05:59	2,663.77	2960	2960
04-10-2009	556.43	15.76	3.7	18:28	03:24	1,750.27	1740	1740
05-10-2009	466.67	13.22	3.5	19:45	04:15	1,735.72	1930	1930
06-10-2009	436.97	12.38	3.8	15:01	08:52	3,681.37	4090	4090
07-10-2009		0		24:00:00		-		0
08-10-2009	515.97	14.61	3.4	06:33	04:25	1,937.37	2150	2150
09-10-2009	536.5	15.19	3.4	14:18	09:42	4,424.19	4600	4600
10-10-2009	542.91	15.38	3.5	23:28	00:32	-	280	280
11-10-2009	504.05	14.27	3.5	23:27	00:33	-	270	270
12-10-2009	448.56	12.7	3.7	16:22	06:29	2,690.51	2990	2990
13-10-2009	483.53	13.69	3.6	06:32	04:03	1,762.77	1960	1960
14-10-2009	533.43	15.11	3.6	16:02	07:48	3,745.31	3780	3780
15-10-2009	450.67	12.76	3.7	14:15	09:45	4,065.17	4520	4520
16-10-2009	422.67	11.97	3.9	17:39	06:21	2,617.30	2910	2910
17-10-2009	464.71	13.16	3.7	12:51	11:09	4,793.72	5330	5330
18-10-2009	462.06	13.09	3.7	11:15	12:45	5,450.35	6060	6060
19-10-2009	491.28	13.91	3.6	11:42	11:49	5,225.65	5840	5840
20-10-2009	489.15	13.85	3.6	12:58	11:02	4,858.08	5400	5400
21-10-2009	447.2	12.66	4	12:26	11:34	5,173.49	5750	5750
22-10-2009	456.96	12.94	3.7	18:29	05:31	2,332.23	2590	2590
23-10-2009	490.88	13.9	3.6	13:10	10:56	4,831.08	5370	5370
24-10-2009	454.75	12.88	3.9	10:21	13:39	6,053.18	6370	6370
25-10-2009	379.72	10.75	4.1	17:44	06:16	2,439.48	2710	2710
26-10-2009	384	10.88	4.2	13:24	00:46	-	260	260
27-10-2009	400	11.33	3.4	08:22	02:38	895.49	1010	1010
28-10-2009	340	9.629	4.6	12:50	02:10	847.31	740	740
29-10-2009	405.09	11.47	3.2	20:02	03:58	1,285.70	1440	1440
30-10-2009	612.33	17.34	3.7	20:12	03:48	2,152.71	1940	1940
31-10-2009	469.189	13.29	3.9	15:22	08:38	3,950.07	4390	4390
01-11-2009	504.89	14.3	3.5	19:24	04:36	2,032.53	2260	2260
02-11-2009	423.68	12	3.8	17:49	06:01	2,422.10	2690	2690
03-11-2009	402.05	11.39	3.2	22:46	01:14	396.76	440	440
04-11-2009	357.07	10.11	3	21:39	02:21	629.44	700	700
05-11-2009	455.48	12.9	2.9	22:43	01:17	423.86	470	470
06-11-2009	453.34	12.84	2.9	20:59	03:01	991.66	1100	1100
07-11-2009	417.31	11.82	3.3	19:05	04:55	1,693.00	1880	1880
08-11-2009	487.7	13.81	3.3	19:37	04:23	1,763.94	1960	1960
09-11-2009	368.39	10.43	3.7	21:09	02:51	971.33	1080	1080
10-11-2009	400.3	11.34	3.5	17:46	06:07	2,142.80	2380	2380
11-11-2009	469.6	13.3	3.7	21:38	02:22	1,028.21	1140	1140
12-11-2009	422.22	11.96	3.5	19:43	04:17	1,582.71	1720	1720
13-11-2009	445.17	12.61	4	22:52	01:18	578.82	510	510
14-11-2009	383.88	10.87	3.2	19:08	04:52	1,494.83	1660	1660
15-11-2009	445.6	12.62	3	22:05	01:55	640.66	710	710

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**Agnoor**

Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal closure	Running Hr. (Input format)	Expected generation (KWH)	Actual generation (KWH)	Total Actual generation (KWH)
16-11-2009	419.93	11.89	3.5	20:54	03:06	1,139.25	1230	1230
17-11-2009	42.81	1.212	4.2	24:00:00	00:04	-	30	30
18-11-2009	395.49	11.2	3.1	19:36	04:24	1,348.85	1500	1500
19-11-2009	282.59	8.003	3.7	23:08	00:52	-	250	250
20-11-2009	416.3	11.79	3.6	23:31	00:29	-	200	200
21-11-2009	0			24:00:00	-	-		0
22-11-2009	448.68	12.71	3.7	23:21	00:39	-	300	300
23-11-2009	454.43	12.87	3.5	14:34	09:26	3,751.58	4170	4170
24-11-2009	337.92	9.57	2.9	14:50	02:54	710.60	790	790
25-11-2009	363.29	10.29	3.3	23:06	00:54	-	300	300
26-11-2009	352.18	9.974	3.1	22:19	01:41	459.53	510	510
27-11-2009	344	9.742	2.9	21:45	02:15	561.25	630	630
28-11-2009	312.18	8.841	2.9	18:29	01:31	343.33	380	380
29-11-2009	0					-		0
30-11-2009	0					-		0
01-12-2009	0					-		0
02-12-2009	0					-		0
03-12-2009	457.81	12.97	3.5	21:53	02:07	848.05	940	940
04-12-2009	463.04	13.11	3.7	19:54	04:06	1,756.38	1910	1910
05-12-2009	361.7	10.24	4.6	23:08	01:01	422.96	470	470
06-12-2009	457.11	12.95	3.8	19:19	04:41	2,034.10	2260	2260
07-12-2009	417.56	11.83	3.2	21:07	02:53	963.34	1070	1070
08-12-2009	0			24:00:00		-		0
09-12-2009	352.73	9.99	3.7	21:44	02:16	739.68	820	820
10-12-2009	0	0.7		16:37	01:27	-	430	430
11-12-2009	0					-		0
12-12-2009	0					-		0
13-12-2009	0					-		0
14-12-2009	0					-		0
15-12-2009	0					-		0
16-12-2009	0					-		0
17-12-2009	0					-		0
18-12-2009	0					-		0
19-12-2009	0					-		0
20-12-2009	0					-		0
21-12-2009	0					-		0
22-12-2009	0					-		0
23-12-2009	0					-		0
24-12-2009	0					-		0
25-12-2009	0					-		0
26-12-2009	0					-		0
27-12-2009	0					-		0
28-12-2009	0					-		0
29-12-2009	0					-		0
30-12-2009	0					-		0
31-12-2009	0					-		0

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Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal closure		Running Hr. (Input format)		Expected generation (KWH)	Actual generation (KWH)		Total Actual generation (KWH)
01-01-2010		0						-			0
02-01-2010		0						-			0
03-01-2010		0						-			0
04-01-2010		0						-			0
05-01-2010	315.53	8.936	3.8	23:09		00:09		-	50		50
06-01-2010		0	0.4	18:33	21:36	00:11	02:09	-	50	640	690
07-01-2010		0						-			0
08-01-2010		0						-			0
09-01-2010		0						-			0
10-01-2010	365.92	10.36	3.2	20:39	21:08	00:26	03:40	1,073.55	140	990	1130
11-01-2010	427.71	12.11	3.3	18:25	17:43	03:16	02:08	1,905.77	1030	790	1820
12-01-2010	369.4	10.46	3.8	20:57	20:57	02:03	00:52	719.53	800	270	1070
13-01-2010		0		24:00:00	24:00:00			-			0
14-01-2010	405.68	11.49	3.8	17:03	17:03	00:13	00:44	-	90	310	400
15-01-2010	406.2	11.5	3.9	16:24	16:53	00:54	04:57	1,960.76	340	2180	2520
16-01-2010	553.89	15.69	3.2	18:55	19:25	01:33	02:54	1,972.18	630	1030	1660
17-01-2010	423.14	11.98	3.4	21:57	22:06	00:30	01:13	437.67	200	480	680
18-01-2010	423.14	11.98	3.4	17:58	19:01	03:43	00:54	1,337.00	1280	360	1640
19-01-2010	383.07	10.85	4.2	20:03	20:17	00:46	02:43	1,092.89	340	990	1330
20-01-2010	372.01	10.54	3.5	16:57	17:13	05:00	05:47	3,510.67	1810	1990	3800
21-01-2010	363.29	10.29	3.3	20:22	21:00	02:30	02:33	1,513.81	830	850	1680
22-01-2010	448.49	12.7	3.2	18:56	18:52	04:17	04:13	3,050.25	1570	1680	3250
23-01-2010		0		24:00:00	24:00:00			-			0
24-01-2010	425.9	12.06	3.3	15:31	15:24	01:54	02:01	1,376.42	720	770	1490
25-01-2010	393.62	11.15	3.2	17:13	17:27	06:43	06:29	4,157.33	2350	1940	4290
26-01-2010	355	10.05	3.4	16:57	17:09	07:03	06:51	4,195.04	2370	2260	4630
27-01-2010	400	11.33	3.6	21:17	21:35	02:43	02:25	1,848.31	890	810	1700
28-01-2010	440	12.46	3.2	18:28	15:33	05:32	08:27	4,922.97	2060	1910	3970
29-01-2010	431	12.21	3	19:46	21:17	04:14	02:43	2,246.97	1820	1070	2890
30-01-2010	435.85	12.34	3.1	17:50	19:36	06:10	04:24	3,569.85	2310	1510	3820
31-01-2010	431.73	12.23	3.2	17:34	22:09	06:26	01:51	2,861.42	2470	620	3090
01-02-2010	452.35	12.81	3	20:49	21:21	03:11	02:39	1,979.37	1200	840	2040
02-02-2010	318.09	9.008	3.2		20:14		03:43	945.95		1050	1050
03-02-2010	317.26	8.985	3.6	22:43	21:53	01:17	02:07	970.98	380	670	1050
04-02-2010	367.96	10.42	3.5		18:55		05:05	1,636.93		1820	1820
05-02-2010	566.99	16.06	3.3	21:09	21:03	01:38	01:44	1,575.08	460	900	1360
06-02-2010	386.76	10.95	3.6	23:43	22:36	00:21	01:33	539.62	110	600	710
07-02-2010	418.94	11.86	3.4		19:36		04:24	1,567.10		1600	1600
08-02-2010	432.65	12.25	3.2	21:36	19:21	02:24	04:39	2,440.56	680	1790	2470
09-02-2010	404.61	11.46	3.2	23:08	18:45	00:52	05:15	1,699.65	230	1890	2120
10-02-2010	404.64	11.46	3.4	22:10	15:53	01:50	08:07	3,422.82	700	2840	3540
11-02-2010	371.45	10.52	3.3	19:06	20:26	04:54	03:34	2,595.02	1670	1210	2880
12-02-2010	393.88	11.15	3	16:09	16:31	00:42	00:20	-	230	80	310
13-02-2010		0		09:13	09:06	00:49	00:56	-	620	300	920
14-02-2010	404.46	11.45	3.5	20:37	18:59	03:25	04:59	2,973.29	1200	1960	3160
15-02-2010	433.52	12.28	3.6	23:02	20:19	00:14	02:57	1,151.19	80	1280	1360

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Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical fault/ outage/ canal closure		Running Hr. (Input format)		Expected generation (KWH)	Actual generation (KWH)		Total Actual generation (KWH)
16-02-2010	435.46	12.33	3.2	18:32	21:17	05:28	02:43	2,851.30	1800	1050	2850
17-02-2010	438.14	12.41	3.2	21:38	23:46	02:22	00:14	829.69	920	50	970
18-02-2010	390.85	11.07	3.3	22:33	20:30	01:27	03:30	1,596.40	520	1160	1680
19-02-2010	315.15	8.925	2.9		22:09		01:51	422.77		470	470
20-02-2010	296.92	8.409	2.9		22:07		01:53	405.49		450	450
21-02-2010	321.19	9.096	2.8		23:12		00:48	-		200	200
22-02-2010		0						-			0
23-02-2010		0						-			0
24-02-2010		0						-			0
25-02-2010		0						-			0
26-02-2010		0						-			0
27-02-2010		0						-			0
28-02-2010		0						-			0
01-03-2010	287.97	8.155	2.9	23:29	22:19	00:31	01:41	351.50	110	390	500
02-03-2010	324.84	9.2	3.1	23:17	23:08	00:15	00:26	-	70	80	150
03-03-2010	287.26	8.135	3.1		22:57		01:03	233.80		260	260
04-03-2010	357	10.11	3.2		23:06		00:54	-		270	270
05-03-2010	363.72	10.3	3.6	21:43	22:10	02:17	01:50	1,347.81	830	430	1260
06-03-2010	361.02	10.22	3.3	21:41	21:55	02:18	02:05	1,305.76	710	690	1400
07-03-2010	387.65	10.98	2.9	23:50		00:10		-	50		50
08-03-2010	317.56	8.993	2.9	22:45	23:29	01:15	00:31	287.84	320	130	450
09-03-2010		0						-			0
10-03-2010		0						-			0
11-03-2010		0						-			0
12-03-2010		0						-			0
13-03-2010		0						-			0
14-03-2010		0						-			0
15-03-2010		0						-			0
16-03-2010		0						-			0
17-03-2010	288.23	8.163	3.9		23:50		00:10	-		50	50
18-03-2010	258.63	7.325	4	23:16	23:52	00:44	00:08	-	210	20	230
19-03-2010	440.42	12.47	2.7	22:47	22:40	01:13	01:20	758.20	400	410	810
20-03-2010	388.42	11	3.4	21:28	22:43	02:32	01:17	1,260.31	830	470	1300
21-03-2010	324.18	9.181	3.6	22:41	22:07	01:19	01:53	933.80	390	610	1000
22-03-2010	435.17	12.32	3.3	21:05	20:39	02:47	03:13	2,154.46	1110	980	2090
23-03-2010	372.69	10.55	2.9	21:46	22:55	02:14	01:05	896.32	670	260	930
24-03-2010	333.01	9.431	3.3	21:44	23:38	02:16	00:22	622.83	540	110	650
25-03-2010		0						-			0
26-03-2010		0						-			0
27-03-2010		0						-			0
28-03-2010		0						-			0
29-03-2010		0						-			0
30-03-2010		0						-			0
31-03-2010		0						-			0

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Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical	Running Hr. (Input format)		Expected generation (KWH)	Actual generation (KWH)		Total Actual generation (KWH)
	I	I	II	III	I	II		I	II	
01-04-2009		0					-			0
02-04-2009		0					-			0
03-04-2009		0					-			0
04-04-2009		0					-			0
05-04-2009		0					-			0
06-04-2009		0					-			0
07-04-2009		0					-			0
08-04-2009		0					-			0
09-04-2009		0					-			0
10-04-2009		0					-			0
11-04-2009		0					-			0
12-04-2009		0					-			0
13-04-2009		0					-			0
14-04-2009		0					-			0
15-04-2009		0					-			0
16-04-2009		0					-			0
17-04-2009		0					-			0
18-04-2009		0					-			0
19-04-2009		0					-			0
20-04-2009		0					-			0
21-04-2009		0					-			0
22-04-2009		0					-			0
23-04-2009		0					-			0
24-04-2009		0					-			0
25-04-2009		0					-			0
26-04-2009		0					-			0
27-04-2009		0					-			0
28-04-2009		0					-			0
29-04-2009		0					-			0
30-04-2009		0					-			0
01-05-2009		0					-			0
02-05-2009		0					-			0
03-05-2009		0					-			0
04-05-2009		0					-			0
05-05-2009		0					-			0
06-05-2009		0					-			0
07-05-2009		0					-			0
08-05-2009		0					-			0
09-05-2009		0					-			0
10-05-2009		0					-			0
11-05-2009		0					-			0
12-05-2009		0					-			0
13-05-2009		0					-			0
14-05-2009		0					-			0
15-05-2009		0					-			0
16-05-2009		0					-			0

Triveni										
Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical	Running Hr. (Input format)		Expected generation (KWH)	Actual generation (KWH)		Total Actual generation (KWH)
17-05-2009		0					-			0
18-05-2009		0					-			0
19-05-2009		0					-			0
20-05-2009		0					-			0
21-05-2009		0					-			0
22-05-2009		0					-			0
23-05-2009		0					-			0
24-05-2009		0					-			0
25-05-2009		0					-			0
26-05-2009		0					-			0
27-05-2009		0					-			0
28-05-2009		0					-			0
29-05-2009		0					-			0
30-05-2009		0					-			0
31-05-2009		0					-			0
01-06-2009		0					-			0
02-06-2009		0					-			0
03-06-2009		0					-			0
04-06-2009		0					-			0
05-06-2009		0					-			0
06-06-2009		0					-			0
07-06-2009		0					-			0
08-06-2009		0					-			0
09-06-2009		0					-			0
10-06-2009		0					-			0
11-06-2009		0					-			0
12-06-2009		0					-			0
13-06-2009		0					-			0
14-06-2009		0					-			0
15-06-2009		0					-			0
16-06-2009		0					-			0
17-06-2009		0					-			0
18-06-2009		0					-			0
19-06-2009		0					-			0
20-06-2009		0					-			0
21-06-2009		0					-			0
22-06-2009		0					-			0
23-06-2009		0					-			0
24-06-2009		0					-			0
25-06-2009		0					-			0
26-06-2009		0					-			0
27-06-2009		0					-			0
28-06-2009		0					-			0
29-06-2009		0					-			0
30-06-2009		0					-			0
01-07-2009	504.77	14.295	4.49	03:50	0	20:10	11,428.46	0	13440	13440
02-07-2009	598.17	16.941	4.49	06:15	0	17:35	11,808.26	0	11130	11130



Triveni										
Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical	Running Hr. (Input format)		Expected generation (KWH)	Actual generation (KWH)		Total Actual generation (KWH)
03-07-2009	467.42	13.238	4.49	09:10	09:35	13:45	12,244.59	5880	6510	12390
04-07-2009	499.1	14.135	4.49	00:00	24:00:00	0	-	14700	0	14700
05-07-2009	513.78	14.551	4.49	00:15	23:45	0	13,699.38	15540	0	15540
06-07-2009	471.42	13.351	4.49	01:15	22:45	0	12,040.64	13860	0	13860
07-07-2009	380.97	10.789	4.49	07:35	16:20	10:25	11,441.28	4410	6090	10500
08-07-2009	489.5	13.863	4.49	01:20	0	21:40	11,907.07	0	14260	14260
09-07-2009	506.21	14.336	4.49	00:00	0	00:00	-	0	15540	15540
10-07-2009	598.39	16.947	4.49	00:00	0	00:00	-	0	17850	17850
11-07-2009	703.32	19.918	4.49	00:20	0	23:40	18,687.46	0	20310	20310
12-07-2009	715.12	20.253	4.49	03:04	0	22:45	18,265.03	0	19950	19950
13-07-2009	309.95	8.778	4.49	04:25	09:30	14:45	8,438.47	4410	12600	17010
14-07-2009	749.21	21.218	4.49	06:45	14:10	03:05	14,509.51	13650	2730	16380
15-07-2009	740.01	20.958	4.49	00:00	24:00:00	0	-	22470	0	22470
16-07-2009	754.75	21.375	4.49	00:25	23:35	0	19,983.36	22470	0	22470
17-07-2009	759.31	21.504	4.49	00:14	23:50	0	20,317.21	22680	0	22680
18-07-2009	625.14	17.704	4.49	00:00	12:05	11:35	16,610.19	10500	8190	18690
19-07-2009	641.41	18.165	4.49	03:14	06:05	09:45	11,401.66	5040	7560	12600
20-07-2009	657.69	18.626	4.49	06:15	09:45	15:00	18,274.97	2520	11760	14280
21-07-2009	633.62	17.944	4.49	00:40	0	21:20	15,175.67	0	18270	18270
22-07-2009	611.31	17.313	4.49	02:20	0	21:40	14,870.09	0	18480	18480
23-07-2009	612.68	17.351	4.49	00:50	0	21:10	14,559.50	0	18270	18270
24-07-2009	666.57	18.878	4.49	00:30	0	23:30	17,586.27	0	19740	19740
25-07-2009	903.52	25.588	4.49	09:20	0	14:40	14,877.48	0	13020	13020
26-07-2009	335.74	9.5084	4.49	03:45	0	21:40	8,166.86	0	19320	19320
27-07-2009	453.77	12.851	4.49	00:00	0	16:35	8,448.27	0	10500	10500
28-07-2009	401.32	11.366	4.49	01:50	0	22:30	10,137.56	0	11550	11550
29-07-2009	303.32	8.5902	4.49	02:20	0	09:25	3,206.70	0	3570	3570
30-07-2009	345.5	9.7848	4.49	00:00	05:55	0	2,295.01	1520	0	1520
31-07-2009	325.29	9.2124	4.49	01:40	12:20	0	4,504.13	9450	0	9450
01-08-2009	559.28	15.839		06:15	15:35	09:10	-	7140	840	7980
02-08-2009	237.01	6.7123	4.55	01:10	11:05	17:05	7,594.99	4200	5670	9870
03-08-2009	335.64	9.5055	4.55	00:15	15:00	08:45	9,069.07	9560	4410	13970
04-08-2009	326.21	9.2385	4.55	03:15	02:50	11:55	5,474.12	1470	5880	7350
05-08-2009	341.19	9.6627	4.55	02:20	12:35	11:05	9,186.68	5460	5040	10500
06-08-2009	387.53	10.975	4.55	00:15	18:00	05:45	10,471.14	9090	2520	11610
07-08-2009	392.8	11.124	4.55	00:40	0	23:20	10,427.34	0	9660	9660
08-08-2009	321.7	9.1107	4.55	00:10	07:50	15:20	8,478.91	2730	6510	9240
09-08-2009	350.34	9.9218	4.55	02:11	21:45	0	8,669.10	9270	0	9270
10-08-2009	383.3	10.855	4.55	00:40	23:20	0	10,175.15	11340	0	11340
11-08-2009	396.67	11.234	4.55	00:40	17:30	05:50	10,530.07	8820	2940	11760
12-08-2009	404.69	11.461	4.55	00:30	23:40	0	10,896.44	12390	0	12390
13-08-2009	364.88	10.334	4.55	00:35	18:10	05:15	9,720.76	8820	2310	11130
14-08-2009	395.67	11.206	4.55	00:40	23:20	0	10,503.53	10290	0	10290
15-08-2009	320.18	9.0677	4.55	01:05	16:25	06:30	8,347.78	6720	2520	9240
16-08-2009	357.19	10.116	4.55	00:15	21:45	03:00	10,057.72	10290	630	10920
17-08-2009	357.63	10.128	4.55	00:00	11:45	10:30	9,052.93	5670	4620	10290
18-08-2009	0	0		00:00	0	0	-	0	0	0



Triveni										
Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical	Running Hr. (Input format)		Expected generation (KWH)	Actual generation (KWH)		Total Actual generation (KWH)
19-08-2009	340.23	9.6355	4.55	02:20	00:30	07:50	3,225.64	210	3360	3570
20-08-2009	362.32	10.261	4.55	15:45	0	18:15	7,522.81	0	7980	7980
21-08-2009	374.17	10.597	4.55	04:10	0	17:50	7,591.48	0	8610	8610
22-08-2009	375.04	10.621	4.55	00:50	0	23:10	9,884.76	0	11550	11550
23-08-2009	412.25	11.675	4.55	01:00	0	23:00	10,787.32	0	11970	11970
24-08-2009	365.93	10.363	4.55	01:10	0	22:50	9,505.88	0	10500	10500
25-08-2009	350.95	9.9391	4.55	00:05	0	23:35	9,416.20	0	10500	10500
26-08-2009	377.24	10.684	4.55	04:50	0	19:10	8,226.02	0	9240	9240
27-08-2009	430.33	12.187	4.55	05:40	0	17:45	8,690.11	0	9450	9450
28-08-2009	411.8	11.662	4.55	02:10	10:15	11:40	10,268.00	5670	5670	11340
29-08-2009	453.34	12.839	4.55	00:00	23:50	0	12,292.32	13440	0	13440
30-08-2009	443.52	12.561	4.55	00:00	24:00	0	-	13230	0	13230
31-08-2009	494.3	13.999	4.55	00:45	23:15	0	13,074.91	11550	0	11550
01-09-2009	423.95	12.007	4.35	03:45	22:15	0	10,260.01	11970	0	11970
02-09-2009	448	12.688	4.35	03:35	14:25	04:00	8,974.12	8400	2940	11340
03-09-2009	543.12	15.381	4.35	05:55	0	16:05	9,501.12	0	11550	11550
04-09-2009	512.4	14.511	4.35	00:10	0	21:30	11,982.59	0	16170	16170
05-09-2009	613.51	17.375	4.35	01:15	06:00	16:45	15,181.20	4620	11760	16380
06-09-2009	672.13	19.035	4.35	02:30	11:40	09:50	15,717.91	10500	6900	17400
07-09-2009	658.22	18.641	4.35	00:00	23:00	0	16,466.53	18270	0	18270
08-09-2009	604.54	17.121	4.35	06:50	17:30	0	11,507.11	14420	0	14420
09-09-2009	651.66	18.455	4.35	01:25	22:35	0	16,007.08	17430	0	17430
10-09-2009	515.82	14.608	4.35	02:57	09:05	12:38	12,184.13	6300	7350	13650
11-09-2009	464.62	13.158	4.35	00:00	0	24:00:00	-	0	13860	13860
12-09-2009	451.59	12.789	4.35	02:20	0	21:40	10,642.40	0	12180	12180
13-09-2009	464.72	13.161	4.35	01:00	0	22:40	11,457.29	0	13230	13230
14-09-2009	477.46	13.522	4.35	02:35	0	21:25	11,122.23	0	12600	12600
15-09-2009	493.46	13.975	4.35	01:15	0	22:45	12,210.58	0	13860	13860
16-09-2009	499.65	14.15	4.35	02:45	0	21:15	11,548.56	0	13020	13020
17-09-2009	452.64	12.819	4.35	00:35	0	23:05	11,364.61	0	12810	12810
18-09-2009	479.31	13.574	4.35	00:10	0	23:50	12,425.23	0	14070	14070
19-09-2009	511.15	14.476	4.35	01:20	13:00	10:40	13,157.96	9030	5670	14700
20-09-2009	705.96	19.993	4.35	00:00	09:30	19:30	22,268.00	7980	11760	19740
21-09-2009	733.54	20.774	4.35	01:20	0	22:40	18,084.83	0	19320	19320
22-09-2009	789.81	22.368	4.35	02:50	0	23:10	19,901.66	0	21210	21210
23-09-2009	754.98	21.381	4.35	00:00	01:15	22:45	19,708.33	1050	19740	20790
24-09-2009	771.15	21.839	4.35	00:40	0	23:20	19,571.26	0	21000	21000
25-09-2009	767.82	21.745	4.35	00:15	0	23:45	19,834.72	0	20790	20790
26-09-2009	702.76	19.903	4.35	04:35	0	19:15	14,714.34	0	17430	17430
27-09-2009	770.68	21.826	4.35	01:15	0	22:15	18,651.22	0	10740	10740
28-09-2009	761.28	21.56	4.35	08:05	0	15:35	12,903.51	0	14280	14280
29-09-2009	725.96	20.56	4.35	06:45	02:10	15:50	14,213.08	1470	14280	15750
30-09-2009	819.29	23.203	4.35	01:20	0	22:40	20,198.93	0	21630	21630
01-10-2009	489.35	13.859	4.48	00:00	15:20	23:30	21,287.08	1890	19530	21420
02-10-2009	739.71	20.949	4.48	04:15	02:25	12:50	12,636.39	1170	16800	17970
03-10-2009	743.3	21.051	4.48	02:20	01:05	21:35	18,873.12	840	18690	19530
04-10-2009	697.02	19.74	4.48	18:40	03:00	05:40	6,766.89	1730	4410	6140



Triveni										
Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical	Running Hr. (Input format)		Expected generation (KWH)	Actual generation (KWH)		Total Actual generation (KWH)
05-10-2009	774.44	21.933	4.48	00:10	00:00	22:50	19,808.38	0	21000	21000
06-10-2009	733.35	20.769	4.48	00:00	13:55	10:30	20,058.09	12600	9840	22440
07-10-2009	769.59	21.795	4.48	00:00	10:10	13:50	20,690.09	7240	12180	19420
08-10-2009	350.31	9.921	4.48	00:00	00:15	06:15	2,550.69	210	2310	2520
09-10-2009	335.97	9.5149	4.48	00:15	07:20		2,759.90	3150	0	3150
10-10-2009	347.21	9.8332	4.48	02:45	22:40		8,816.00	10080	0	10080
11-10-2009	345.53	9.7856	4.48	02:20	09:40	18:00	10,708.64	1190	7350	8540
12-10-2009	344.78	9.7644	4.48	00:45	14:40	08:35	8,979.60	8190	3570	11760
13-10-2009	595.91	16.877	4.48	00:15	23:45		15,853.90	15750	0	15750
14-10-2009	468.82	13.277	4.48	00:00	04:25	19:35	12,604.02	2940	10920	13860
15-10-2009	457.26	12.95	4.48	00:12	00:00	23:20	11,951.76	0	13230	13230
16-10-2009	452.56	12.817	4.48	01:15	00:00	22:35	11,448.70	0	12180	12180
17-10-2009	370.66	10.497	4.48	02:10	00:00	21:50	9,065.41	0	10080	10080
18-10-2009	365.25	10.344	4.48	00:00	06:45	17:15	9,819.59	3360	7560	10920
19-10-2009	402.11	11.388	4.48	02:52	14:50	08:20	10,435.19	8120	3360	11480
20-10-2009	442.41	12.529	4.48	01:05	22:25		11,109.33	12600	0	12600
21-10-2009	779.3	22.07	4.48	00:00	00:00	24:00:00	-	0	11940	11940
22-10-2009	314.77	8.9145	4.48	00:00	18:10	12:05	10,666.22	3780	5460	9240
23-10-2009	254.14	7.1974	4.48	00:00	19:35	03:45	6,642.65	6720	1260	7980
24-10-2009	246.13	6.9705	4.48	00:00	19:20	02:30	6,019.72	6300	630	6930
25-10-2009	230.45	6.5265	4.48	00:00	22:45		5,872.86	6720	0	6720
26-10-2009	201.21	5.6984	4.48	03:00	16:35	02:05	4,207.35	3040	420	3460
27-10-2009	263.16	7.4528	4.48	00:00	23:10		6,829.29	7140	0	7140
28-10-2009	165.59	4.6896	4.48	00:00	23:00	01:00	4,451.82	7960	210	8170
29-10-2009	262.38	7.4308	4.48	02:00	19:30	01:20	6,123.24	6720	420	7140
30-10-2009	240.38	6.8077	4.48	00:00	18:05	05:30	6,350.32	5880	1260	7140
31-10-2009	274.83	7.7833	4.48	00:00	23:40		7,286.07	7980	0	7980
01-11-2009	237.34	6.7216	4.15	14:25	09:35		2,360.20	2940		2940
02-11-2009		0		00:00			-			0
03-11-2009		0		00:00			-			0
04-11-2009		0		00:00			-			0
05-11-2009		0		00:00			-			0
06-11-2009		0		00:00			-			0
07-11-2009		0		00:00			-			0
08-11-2009		0		00:00			-			0
09-11-2009		0		00:00			-			0
10-11-2009		0		00:00			-			0
11-11-2009		0		00:00			-			0
12-11-2009		0		00:00			-			0
13-11-2009		0		00:00			-			0
14-11-2009		0		00:00			-			0
15-11-2009		0		00:00			-			0
16-11-2009		0		00:00			-			0
17-11-2009		0		00:00			-			0
18-11-2009		0		00:00			-			0
19-11-2009		0		00:00			-			0
20-11-2009		0		00:00			-			0



Triveni										
Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical	Running Hr. (Input format)		Expected generation (KWH)	Actual generation (KWH)		Total Actual generation (KWH)
21-11-2009		0		00:00			-			0
22-11-2009		0		00:00			-			0
23-11-2009		0		00:00			-			0
24-11-2009		0		00:00			-			0
25-11-2009		0		00:00			-			0
26-11-2009		0		00:00			-			0
27-11-2009		0		00:00			-			0
28-11-2009		0		00:00			-			0
29-11-2009		0		00:00			-			0
30-11-2009		0		00:00			-			0
01-12-2009	0	0		00:00	0	0	-	0	0	0
02-12-2009	0	0		00:00	0	0	-	0	0	0
03-12-2009	0	0		00:00	0	0	-	0	0	0
04-12-2009	0	0		00:00	0	0	-	0	0	0
05-12-2009	0	0		00:00	0	0	-	0	0	0
06-12-2009	0	0		00:00	0	0	-	0	0	0
07-12-2009	0	0		00:00	0	0	-	0	0	0
08-12-2009	0	0		00:00	0	0	-	0	0	0
09-12-2009	0	0		00:00	0	0	-	0	0	0
10-12-2009	0	0		00:00	0	0	-	0	0	0
11-12-2009	0	0		00:00	0	0	-	0	0	0
12-12-2009	0	0		00:00	0	0	-	0	0	0
13-12-2009	0	0		00:00	0	0	-	0	0	0
14-12-2009	0	0		00:00	0	0	-	0	0	0
15-12-2009	0	0		00:00	0	0	-	0	0	0
16-12-2009	0	0		00:00	0	0	-	0	0	0
17-12-2009	0	0		00:00	0	0	-	0	0	0
18-12-2009	0	0		00:00	0	0	-	0	0	0
19-12-2009	0	0		00:00	0	0	-	0	0	0
20-12-2009	0	0		00:00	0	0	-	0	0	0
21-12-2009	0	0		00:00	0	0	-	0	0	0
22-12-2009	0	0		00:00	0	0	-	0	0	0
23-12-2009	0	0		00:00	0	0	-	0	0	0
24-12-2009	0	0		00:00	0	0	-	0	0	0
25-12-2009	0	0		00:00	0	0	-	0	0	0
26-12-2009	0	0		00:00	0	0	-	0	0	0
27-12-2009	0	0		00:00	0	0	-	0	0	0
28-12-2009	0	0		00:00	0	0	-	0	0	0
29-12-2009	0	0		00:00	0	0	-	0	0	0
30-12-2009	0	0		00:00	0	0	-	0	0	0
31-12-2009	0	0		00:00	0	0	-	0	0	0
01-01-2010		0		00:00			-			0
02-01-2010		0		00:00			-			0
03-01-2010		0		00:00			-			0
04-01-2010		0		00:00			-			0
05-01-2010		0		00:00			-			0
06-01-2010		0		00:00			-			0



Triveni

Date	Discharge (Cusec)	Discharge (Cume)	Head (m)	Total outage due to grid failure/ Technical	Running Hr. (Input format)	Expected generation (KWH)	Actual generation (KWH)	Total Actual generation (KWH)
07-01-2010		0		00:00		-		0
08-01-2010		0		00:00		-		0
09-01-2010		0		00:00		-		0
10-01-2010		0		00:00		-		0
11-01-2010		0		00:00		-		0
12-01-2010		0		00:00		-		0
13-01-2010		0		00:00		-		0
14-01-2010		0		00:00		-		0
15-01-2010		0		00:00		-		0
16-01-2010		0		00:00		-		0
17-01-2010		0		00:00		-		0
18-01-2010		0		00:00		-		0
19-01-2010		0		00:00		-		0
20-01-2010		0		00:00		-		0
21-01-2010		0		00:00		-		0
22-01-2010		0		00:00		-		0
23-01-2010		0		00:00		-		0
24-01-2010		0		00:00		-		0
25-01-2010		0		00:00		-		0
26-01-2010		0		00:00		-		0
27-01-2010		0		00:00		-		0
28-01-2010		0		00:00		-		0
29-01-2010		0		00:00		-		0
30-01-2010		0		00:00		-		0
31-01-2010		0		00:00		-		0
01-02-2010		0		00:00		-		0
02-02-2010		0		00:00		-		0
03-02-2010		0		00:00		-		0
04-02-2010		0		00:00		-		0
05-02-2010		0		00:00		-		0
06-02-2010		0		00:00		-		0
07-02-2010		0		00:00		-		0
08-02-2010		0		00:00		-		0
09-02-2010		0		00:00		-		0
10-02-2010		0		00:00		-		0
11-02-2010		0		00:00		-		0
12-02-2010		0		00:00		-		0
13-02-2010		0		00:00		-		0
14-02-2010		0		00:00		-		0
15-02-2010		0		00:00		-		0
16-02-2010		0		00:00		-		0
17-02-2010		0		00:00		-		0
18-02-2010		0		00:00		-		0
19-02-2010		0		00:00		-		0
20-02-2010		0		00:00		-		0
21-02-2010		0		00:00		-		0
22-02-2010		0		00:00		-		0



**Triveni**

Date	Discharge (Cusec)	Discharge (Cumec)	Head (m)	Total outage due to grid failure/ Technical	Running Hr. (Input format)		Expected generation (KWH)	Actual generation (KWH)		Total Actual generation (KWH)
23-02-2010		0		00:00			-			0
24-02-2010		0		00:00			-			0
25-02-2010	252	7.1368		16:00	08:00		-	2520		2520
26-02-2010	213.35	6.0422		18:35	05:25		-	1470		1470
27-02-2010		0		23:50			-			0
28-02-2010	240	6.7969		21:45	02:15		-	630		630
01-03-2010	346	9.7989	4.7	21:45	02:15	0	914.89	630	0	630
02-03-2010	260.45	7.3761	4.34	00:40	09:35	0	2,708.60	3150	0	3150
03-03-2010	275	7.7882	4.6	13:50	10:10	0	3,215.75	3570	0	3570
04-03-2010	243	6.8819	4.7	00:30	23:10	0	6,615.79	7350	0	7350
05-03-2010	224.6	6.3608	4.06	13:25	10:35	0	2,413.08	2940	0	2940
06-03-2010	334.12	9.4625	4.15	12:35	11:25	0	3,958.25	5040	0	5040
07-03-2010	323	9.1476	4.6	06:25	17:35	0	6,532.44	7770	0	7770
08-03-2010	265	7.505	4.3	02:20	21:40	0	6,173.34	6720	0	6720
09-03-2010	213.12	6.0357	4.6	00:55	23:05	0	5,658.41	6090	0	6090
				01:00						
11-03-2010	223	6.3155	4.69	02:00	22:05	0	5,775.06	5670	0	5670
12-03-2010	238	6.7403	4.78	02:30	20:15	01:25	6,163.26	6510	210	6720
13-03-2010	318	9.0059	4.55	01:30	22:30	0	326.61	7980		7980
14-03-2010	288.22	8.1626	4.23	00:00	23:15	00:45	7,316.27	6720	210	6930
15-03-2010	178.54	5.0564	4.6	02:20	09:00	0	1,848.20	1810	0	1810
16-03-2010		0		00:00			-	0	0	0
17-03-2010		0		00:00			-	0	0	0
18-03-2010		0		00:00			-	0	0	0
19-03-2010		0		00:00			-	0	0	0
20-03-2010	248.43	7.0357	4.6	09:45	0	14:15	175.61	0	3990	3990
21-03-2010	207	5.8624	4.6	00:10	18:50	13:00	7,579.21	3570	2730	6300
22-03-2010	294	8.3263	4.82	00:00	24:00:00	0	-	9450	0	9450
23-03-2010	210.45	5.9601	4.91	00:10	23:50	0	6,157.85	9450	0	9450
24-03-2010	261.15	7.3959	4.87	00:15	23:45	0	7,552.60	8400	0	8400
25-03-2010	258	7.3067	4.88	00:00	24:00:00	0	-	8400	0	8400
26-03-2010	260	7.3634	4.38	00:16	23:50	0	6,786.50	8400	0	8400
27-03-2010	202	5.7208	4.52	00:00	06:35	16:35	5,288.92	2100	3780	5880
28-03-2010	281.37	7.9686	4.76	00:45	0	23:15	7,786.13	0	6710	6710
29-03-2010	318.45	9.0187	4.79	00:55	15:05	08:00	8,804.18	5670	1650	7320
30-03-2010	230.25	6.5208	4.92	00:00	09:30	14:30	6,798.13	3360	4200	7560
31-03-2010	241	6.8253	4.19	01:05	0	22:55	5,786.24	0	7350	7350



# GENERATION FOR THE MONTH OF JANUARY - 2009

UNIT#1 UNIT#2 UNIT#3 TOTAL UNIT WATER - Outage

DATE	UNIT#1 GEN KWH Hrs	UNIT#2 GEN KWH Hrs	UNIT#3 GEN KWH Hrs	TOTAL KWH	Auxiliary KWH	UNIT Sent Out KWH	Discharge CUSEC	Nethead FT	Butterfly Hrs	Gate Hrs	Remarks
01-01-2009	53,000 24.00	—	—	53,000 24.00	3,500	49,500	1528	5.02	—	—	
02-01-2009	56,500 23.20	—	—	56,500 23.20	3,500	53,000	1680	5.02	0.40	—	Due to 132KV B-E System And 4.5 KV System
03-01-2009	53,600 23.30	—	—	53,600 23.30	3,500	50,100	1621	5.01	0.30	—	—
04-01-2009	49,400 23.30	—	—	49,400 23.30	3,400	46,000	1480	5.01	0.30	—	—
05-01-2009	51,300 24.00	—	—	51,300 24.00	3,300	48,000	1473	5.02	—	—	
06-01-2009	54,200 24.00	—	—	54,200 24.00	3,400	50,800	1555	5.20	—	—	
07-01-2009	23,100 10.10	27,400 11.50	—	50,500 22.00	3,300	47,200	1583	5.02	2.00	—	Due to 132KV System And 4.5 KV System
08-01-2009	—	52,000 23.20	—	52,000 23.20	3,500	48,500	1551	5.17	0.40	—	—
09-01-2009	—	47,800 24.00	—	47,800 24.00	3,600	44,200	1350	5.03	—	—	—
10-01-2009	22,900 10.25	24,400 12.15	—	47,300 22.40	3,400	43,900	1424	5.03	1.20	—	—
11-01-2009	52,900 23.35	—	—	52,900 23.35	3,400	49,500	1593	5.01	0.25	—	—
12-01-2009	49,500 24.00	—	—	49,500 24.00	3,400	46,100	1413	5.14	—	—	
13-01-2009	46,700 24.00	—	—	46,700 24.00	3,500	43,200	1341	5.02	—	—	
14-01-2009	46,200 24.00	—	—	46,200 24.00	3,500	42,700	1351	5.11	—	—	
15-01-2009	44,100 23.20	—	—	44,100 23.20	3,300	40,800	1378	5.14	1.40	—	—
16-01-2009	50,100 23.45	—	—	50,100 23.45	3,500	46,600	1482	5.12	0.15	—	—
17-01-2009	44,900 20.50	—	—	44,900 20.50	3,200	41,700	1492	5.18	2.10	1.00	Due to 132KV System And 4.5 KV System
18-01-2009	48,800 21.10	—	—	48,800 21.10	3,200	45,600	1597	5.12	0.45	0.05	Due to 132KV System And 4.5 KV System
19-01-2009	59,900 24.00	—	—	59,900 24.00	3,500	56,400	1745	5.13	—	—	
20-01-2009	60,600 24.00	—	—	60,600 24.00	3,400	57,200	1777	5.01	—	—	Due to 132KV System And 4.5 KV System
21-01-2009	58,300 22.40	—	—	58,300 22.40	3,200	55,100	1833	5.08	1.10	—	
22-01-2009	62,500 24.00	—	—	62,500 24.00	3,300	59,200	1833	5.10	—	—	
23-01-2009	61,100 24.00	—	—	61,100 24.00	3,300	57,800	1790	5.01	—	—	
24-01-2009	63,200 24.00	—	—	63,200 24.00	3,200	60,000	1851	5.11	—	—	
25-01-2009	69,300 24.00	—	—	69,300 24.00	3,400	65,900	2050	5.07	—	—	
26-01-2009	70,100 24.00	—	—	70,100 24.00	3,100	67,000	2059	5.01	—	—	
27-01-2009	71,800 24.00	—	—	71,800 24.00	3,200	68,600	2108	5.01	—	—	
28-01-2009	73,200 24.00	—	—	73,200 24.00	3,100	70,100	2150	5.01	—	—	
29-01-2009	69,300 24.00	—	—	69,300 24.00	3,200	66,100	2057	5.07	—	—	
30-01-2009	65,900 23.05	—	—	65,900 23.05	3,300	62,600	2002	5.12	0.55	—	132KV B-E System for 112 Feeder
31-01-2009	73,500 24.00	—	—	73,500 24.00	3,300	70,200	2157	5.10	—	—	
	16,05,900 KWH	1,51,600 KWH	Nil	17,57,500 KWH	103,900 KWH	16,53,600 KWH	1687	5.06	4.05	12.00	

132KV B-E System for 112 Feeder



# GENERATION FOR THE MONTH OF FEBRUARY, 2009

(3)

Date	UNIT#1	UNIT#2	UNIT#3	TOTAL	Auxiliary	UNIT#4	UNIT#5	UNIT#6	UNIT#7	UNIT#8	UNIT#9	UNIT#10	UNIT#11	UNIT#12	UNIT#13	UNIT#14	UNIT#15	UNIT#16	UNIT#17	UNIT#18	UNIT#19	UNIT#20	UNIT#21	UNIT#22	UNIT#23	UNIT#24	UNIT#25	UNIT#26	UNIT#27	UNIT#28	UNIT#29	UNIT#30	UNIT#31	UNIT#32	UNIT#33	UNIT#34	UNIT#35	UNIT#36	UNIT#37	UNIT#38	UNIT#39	UNIT#40	UNIT#41	UNIT#42	UNIT#43	UNIT#44	UNIT#45	UNIT#46	UNIT#47	UNIT#48	UNIT#49	UNIT#50	UNIT#51	UNIT#52	UNIT#53	UNIT#54	UNIT#55	UNIT#56	UNIT#57	UNIT#58	UNIT#59	UNIT#60	UNIT#61	UNIT#62	UNIT#63	UNIT#64	UNIT#65	UNIT#66	UNIT#67	UNIT#68	UNIT#69	UNIT#70	UNIT#71	UNIT#72	UNIT#73	UNIT#74	UNIT#75	UNIT#76	UNIT#77	UNIT#78	UNIT#79	UNIT#80	UNIT#81	UNIT#82	UNIT#83	UNIT#84	UNIT#85	UNIT#86	UNIT#87	UNIT#88	UNIT#89	UNIT#90	UNIT#91	UNIT#92	UNIT#93	UNIT#94	UNIT#95	UNIT#96	UNIT#97	UNIT#98	UNIT#99	UNIT#100	UNIT#101	UNIT#102	UNIT#103	UNIT#104	UNIT#105	UNIT#106	UNIT#107	UNIT#108	UNIT#109	UNIT#110	UNIT#111	UNIT#112	UNIT#113	UNIT#114	UNIT#115	UNIT#116	UNIT#117	UNIT#118	UNIT#119	UNIT#120	UNIT#121	UNIT#122	UNIT#123	UNIT#124	UNIT#125	UNIT#126	UNIT#127	UNIT#128	UNIT#129	UNIT#130	UNIT#131	UNIT#132	UNIT#133	UNIT#134	UNIT#135	UNIT#136	UNIT#137	UNIT#138	UNIT#139	UNIT#140	UNIT#141	UNIT#142	UNIT#143	UNIT#144	UNIT#145	UNIT#146	UNIT#147	UNIT#148	UNIT#149	UNIT#150	UNIT#151	UNIT#152	UNIT#153	UNIT#154	UNIT#155	UNIT#156	UNIT#157	UNIT#158	UNIT#159	UNIT#160	UNIT#161	UNIT#162	UNIT#163	UNIT#164	UNIT#165	UNIT#166	UNIT#167	UNIT#168	UNIT#169	UNIT#170	UNIT#171	UNIT#172	UNIT#173	UNIT#174	UNIT#175	UNIT#176	UNIT#177	UNIT#178	UNIT#179	UNIT#180	UNIT#181	UNIT#182	UNIT#183	UNIT#184	UNIT#185	UNIT#186	UNIT#187	UNIT#188	UNIT#189	UNIT#190	UNIT#191	UNIT#192	UNIT#193	UNIT#194	UNIT#195	UNIT#196	UNIT#197	UNIT#198	UNIT#199	UNIT#200	UNIT#201	UNIT#202	UNIT#203	UNIT#204	UNIT#205	UNIT#206	UNIT#207	UNIT#208	UNIT#209	UNIT#210	UNIT#211	UNIT#212	UNIT#213	UNIT#214	UNIT#215	UNIT#216	UNIT#217	UNIT#218	UNIT#219	UNIT#220	UNIT#221	UNIT#222	UNIT#223	UNIT#224	UNIT#225	UNIT#226	UNIT#227	UNIT#228	UNIT#229	UNIT#230	UNIT#231	UNIT#232	UNIT#233	UNIT#234	UNIT#235	UNIT#236	UNIT#237	UNIT#238	UNIT#239	UNIT#240	UNIT#241	UNIT#242	UNIT#243	UNIT#244	UNIT#245	UNIT#246	UNIT#247	UNIT#248	UNIT#249	UNIT#250	UNIT#251	UNIT#252	UNIT#253	UNIT#254	UNIT#255	UNIT#256	UNIT#257	UNIT#258	UNIT#259	UNIT#260	UNIT#261	UNIT#262	UNIT#263	UNIT#264	UNIT#265	UNIT#266	UNIT#267	UNIT#268	UNIT#269	UNIT#270	UNIT#271	UNIT#272	UNIT#273	UNIT#274	UNIT#275	UNIT#276	UNIT#277	UNIT#278	UNIT#279	UNIT#280	UNIT#281	UNIT#282	UNIT#283	UNIT#284	UNIT#285	UNIT#286	UNIT#287	UNIT#288	UNIT#289	UNIT#290	UNIT#291	UNIT#292	UNIT#293	UNIT#294	UNIT#295	UNIT#296	UNIT#297	UNIT#298	UNIT#299	UNIT#300	UNIT#301	UNIT#302	UNIT#303	UNIT#304	UNIT#305	UNIT#306	UNIT#307	UNIT#308	UNIT#309	UNIT#310	UNIT#311	UNIT#312	UNIT#313	UNIT#314	UNIT#315	UNIT#316	UNIT#317	UNIT#318	UNIT#319	UNIT#320	UNIT#321	UNIT#322	UNIT#323	UNIT#324	UNIT#325	UNIT#326	UNIT#327	UNIT#328	UNIT#329	UNIT#330	UNIT#331	UNIT#332	UNIT#333	UNIT#334	UNIT#335	UNIT#336	UNIT#337	UNIT#338	UNIT#339	UNIT#340	UNIT#341	UNIT#342	UNIT#343	UNIT#344	UNIT#345	UNIT#346	UNIT#347	UNIT#348	UNIT#349	UNIT#350	UNIT#351	UNIT#352	UNIT#353	UNIT#354	UNIT#355	UNIT#356	UNIT#357	UNIT#358	UNIT#359	UNIT#360	UNIT#361	UNIT#362	UNIT#363	UNIT#364	UNIT#365	UNIT#366	UNIT#367	UNIT#368	UNIT#369	UNIT#370	UNIT#371	UNIT#372	UNIT#373	UNIT#374	UNIT#375	UNIT#376	UNIT#377	UNIT#378	UNIT#379	UNIT#380	UNIT#381	UNIT#382	UNIT#383	UNIT#384	UNIT#385	UNIT#386	UNIT#387	UNIT#388	UNIT#389	UNIT#390	UNIT#391	UNIT#392	UNIT#393	UNIT#394	UNIT#395	UNIT#396	UNIT#397	UNIT#398	UNIT#399	UNIT#400	UNIT#401	UNIT#402	UNIT#403	UNIT#404	UNIT#405	UNIT#406	UNIT#407	UNIT#408	UNIT#409	UNIT#410	UNIT#411	UNIT#412	UNIT#413	UNIT#414	UNIT#415	UNIT#416	UNIT#417	UNIT#418	UNIT#419	UNIT#420	UNIT#421	UNIT#422	UNIT#423	UNIT#424	UNIT#425	UNIT#426	UNIT#427	UNIT#428	UNIT#429	UNIT#430	UNIT#431	UNIT#432	UNIT#433	UNIT#434	UNIT#435	UNIT#436	UNIT#437	UNIT#438	UNIT#439	UNIT#440	UNIT#441	UNIT#442	UNIT#443	UNIT#444	UNIT#445	UNIT#446	UNIT#447	UNIT#448	UNIT#449	UNIT#450	UNIT#451	UNIT#452	UNIT#453	UNIT#454	UNIT#455	UNIT#456	UNIT#457	UNIT#458	UNIT#459	UNIT#460	UNIT#461	UNIT#462	UNIT#463	UNIT#464	UNIT#465	UNIT#466	UNIT#467	UNIT#468	UNIT#469	UNIT#470	UNIT#471	UNIT#472	UNIT#473	UNIT#474	UNIT#475	UNIT#476	UNIT#477	UNIT#478	UNIT#479	UNIT#480	UNIT#481	UNIT#482	UNIT#483	UNIT#484	UNIT#485	UNIT#486	UNIT#487	UNIT#488	UNIT#489	UNIT#490	UNIT#491	UNIT#492	UNIT#493	UNIT#494	UNIT#495	UNIT#496	UNIT#497	UNIT#498	UNIT#499	UNIT#500	UNIT#501	UNIT#502	UNIT#503	UNIT#504	UNIT#505	UNIT#506	UNIT#507	UNIT#508	UNIT#509	UNIT#510	UNIT#511	UNIT#512	UNIT#513	UNIT#514	UNIT#515	UNIT#516	UNIT#517	UNIT#518	UNIT#519	UNIT#520	UNIT#521	UNIT#522	UNIT#523	UNIT#524	UNIT#525	UNIT#526	UNIT#527	UNIT#528	UNIT#529	UNIT#530	UNIT#531	UNIT#532	UNIT#533	UNIT#534	UNIT#535	UNIT#536	UNIT#537	UNIT#538	UNIT#539	UNIT#540	UNIT#541	UNIT#542	UNIT#543	UNIT#544	UNIT#545	UNIT#546	UNIT#547	UNIT#548	UNIT#549	UNIT#550	UNIT#551	UNIT#552	UNIT#553	UNIT#554	UNIT#555	UNIT#556	UNIT#557	UNIT#558	UNIT#559	UNIT#560	UNIT#561	UNIT#562	UNIT#563	UNIT#564	UNIT#565	UNIT#566	UNIT#567	UNIT#568	UNIT#569	UNIT#570	UNIT#571	UNIT#572	UNIT#573	UNIT#574	UNIT#575	UNIT#576	UNIT#577	UNIT#578	UNIT#579	UNIT#580	UNIT#581	UNIT#582	UNIT#583	UNIT#584	UNIT#585	UNIT#586	UNIT#587	UNIT#588	UNIT#589	UNIT#590	UNIT#591	UNIT#592	UNIT#593	UNIT#594	UNIT#595	UNIT#596	UNIT#597	UNIT#598	UNIT#599	UNIT#600	UNIT#601	UNIT#602	UNIT#603	UNIT#604	UNIT#605	UNIT#606	UNIT#607	UNIT#608	UNIT#609	UNIT#610	UNIT#611	UNIT#612	UNIT#613	UNIT#614	UNIT#615	UNIT#616	UNIT#617	UNIT#618	UNIT#619	UNIT#620	UNIT#621	UNIT#622	UNIT#623	UNIT#624	UNIT#625	UNIT#626	UNIT#627	UNIT#628	UNIT#629	UNIT#630	UNIT#631	UNIT#632	UNIT#633	UNIT#634	UNIT#635	UNIT#636	UNIT#637	UNIT#638	UNIT#639	UNIT#640	UNIT#641	UNIT#642	UNIT#643	UNIT#644	UNIT#645	UNIT#646	UNIT#647	UNIT#648	UNIT#649	UNIT#650	UNIT#651	UNIT#652	UNIT#653	UNIT#654	UNIT#655	UNIT#656	UNIT#657	UNIT#658	UNIT#659	UNIT#660	UNIT#661	UNIT#662	UNIT#663	UNIT#664	UNIT#665	UNIT#666	UNIT#667	UNIT#668	UNIT#669	UNIT#670	UNIT#671	UNIT#672	UNIT#673	UNIT#674	UNIT#675	UNIT#676	UNIT#677	UNIT#678	UNIT#679	UNIT#680	UNIT#681	UNIT#682	UNIT#683	UNIT#684	UNIT#685	UNIT#686	UNIT#687	UNIT#688	UNIT#689	UNIT#690	UNIT#691	UNIT#692	UNIT#693	UNIT#694	UNIT#695	UNIT#696	UNIT#697	UNIT#698	UNIT#699	UNIT#700	UNIT#701	UNIT#702	UNIT#703	UNIT#704	UNIT#705	UNIT#706	UNIT#707	UNIT#708	UNIT#709	UNIT#710	UNIT#711	UNIT#712	UNIT#713	UNIT#714	UNIT#715	UNIT#716	UNIT#717	UNIT#718	UNIT#719	UNIT#720	UNIT#721	UNIT#722	UNIT#723	UNIT#724	UNIT#725	UNIT#726	UNIT#727	UNIT#728	UNIT#729	UNIT#730	UNIT#731	UNIT#732	UNIT#733	UNIT#734	UNIT#735	UNIT#736	UNIT#737	UNIT#738	UNIT#739	UNIT#740	UNIT#741	UNIT#742	UNIT#743	UNIT#744	UNIT#745	UNIT#746	UNIT#747	UNIT#748	UNIT#749	UNIT#750	UNIT#751	UNIT#752	UNIT#753	UNIT#754	UNIT#755	UNIT#756	UNIT#757	UNIT#758	UNIT#759	UNIT#760	UNIT#761	UNIT#762	UNIT#763	UNIT#764	UNIT#765	UNIT#766	UNIT#767	UNIT#768	UNIT#769	UNIT#770	UNIT#771	UNIT#772	UNIT#773	UNIT#774	UNIT#775	UNIT#776	UNIT#777	UNIT#778	UNIT#779	UNIT#780	UNIT#781	UNIT#782	UNIT#783	UNIT#784	UNIT#785	UNIT#786	UNIT#787	UNIT#788	UNIT#789	UNIT#790	UNIT#791	UNIT#792	UNIT#793	UNIT#794	UNIT#795	UNIT#796	UNIT#797	UNIT#798	UNIT#799	UNIT#800	UNIT#801	UNIT#802	UNIT#803	UNIT#804	UNIT#805	UNIT#806	UNIT#807	UNIT#808	UNIT#809	UNIT#810	UNIT#811	UNIT#812	UNIT#813	UNIT#814	UNIT#815	UNIT#816	UNIT#817	UNIT#818	UNIT#819	UNIT#820	UNIT#821	UNIT#822	UNIT#823	UNIT#824	UNIT#825	UNIT#826	UNIT#827	UNIT#828	UNIT#829	UNIT#830	UNIT#831	UNIT#832	UNIT#833	UNIT#834	UNIT#835	UNIT#836	UNIT#837	UNIT#838	UNIT#839	UNIT#840	UNIT#841	UNIT#842	UNIT#843	UNIT#844	UNIT#845	UNIT#846	UNIT#847	UNIT#848	UNIT#849	UNIT#850	UNIT#851	UNIT#852	UNIT#853	UNIT#854	UNIT#855	UNIT#856	UNIT#857	UNIT#858	UNIT#859	UNIT#860	UNIT#861	UNIT#862	UNIT#863	UNIT#864	UNIT#865	UNIT#866	UNIT#867	UNIT#868	UNIT#869	UNIT#870	UNIT#871	UNIT#872	UNIT#873	UNIT#874	UNIT#875	UNIT#876	UNIT#877	UNIT#878	UNIT#879	UNIT#880	UNIT#881	UNIT#882	UNIT#883	UNIT#884	UNIT#885	UNIT#886	UNIT#887	UNIT#888	UNIT#889	UNIT#890	UNIT#891	UNIT#892	UNIT#893	UNIT#894	UNIT#895	UNIT#896	UNIT#897	UNIT#898	UNIT#899	UNIT#900	UNIT#901	UNIT#902	UNIT#903	UNIT#904	UNIT#905	UNIT#906	UNIT#907	UNIT#908	UNIT#909	UNIT#910	UNIT#911	UNIT#912	UNIT#913	UNIT#914	UNIT#915	UNIT#916	UNIT#917	UNIT#918	UNIT#919	UNIT#920	UNIT#921	UNIT#922	UNIT#923	UNIT#924	UNIT#925	UNIT#926	UNIT#927	UNIT#928	UNIT#929	UNIT#930	UNIT#931	UNIT#932	UNIT#933	UNIT#934	UNIT#935	UNIT#936	UNIT#937	UNIT#938	UNIT#939	UNIT#940	UNIT#941	UNIT#942	UNIT#943	UNIT#944	UNIT#945	UNIT#946	UNIT#947	UNIT#948	UNIT#949	UNIT#950	UNIT#951	UNIT#952	UNIT#953	UNIT#954	UNIT#955	UNIT#956	UNIT#957	UNIT#958	UNIT#959	UNIT#960	UNIT#961	UNIT#962	UNIT#963	UNIT#964	UNIT#965	UNIT#966	UNIT#967	UNIT#968	UNIT#969	UNIT#970	UNIT#971	UNIT#972	UNIT#973	UNIT#974	UNIT#975	UNIT#976	UNIT#977	UNIT#978	UNIT#979	UNIT#980	UNIT#981	UNIT#982	UNIT#983	UNIT#984	UNIT#985	UNIT#986	UNIT#987	UNIT#988	UNIT#989	UNIT#990	UNIT#991	UNIT#992	UNIT#993	UNIT#994	UNIT#995	UNIT#996	UNIT#997	UNIT#998	UNIT#999	UNIT#1000	UNIT#1001	UNIT#1002	UNIT#1003	UNIT#1004	UNIT#1005	UNIT#1006	UNIT#1007	UNIT#1008	UNIT#1009	UNIT#1010	UNIT#1011	UNIT#1012	UNIT#1013	UNIT#1014	UNIT#1015	UNIT#1016	UNIT#1017	UNIT#1018	UNIT#1019	UNIT#1020	UNIT#1021	UNIT#1022	UNIT#1023	UNIT#1024	UNIT#1025	UNIT#1026	UNIT#1027	UNIT#1028	UNIT#1029	UNIT#1030	UNIT#1031	UNIT#1032	UNIT#1033	UNIT#1034	UNIT#1035	UNIT#1036	UNIT#1037	UNIT#1038	UNIT#1039	UNIT#1040	UNIT#1041	UNIT#1042	UNIT#1043	UNIT#1044	UNIT#1045	UNIT#1046	UNIT#1047	UNIT#1048	UNIT#1049	UNIT#1050	UNIT#1051	UNIT#1052	UNIT#1053	UNIT#1054	UNIT#1055	UNIT#1056	UNIT#1057	UNIT#1058	UNIT#1059	UNIT#1060	UNIT#1061	UNIT#1062	UNIT#1063	UNIT#1064	UNIT#1065	UNIT#1066	UNIT#1067	UNIT#1068	UNIT#1069	UNIT#1070	UNIT#1071	UNIT#1072	UNIT#1073	UNIT#1074	UNIT#1075	UNIT#1076	UNIT#1077	UNIT#1078	UNIT#1079	UNIT#1080	UNIT#1081	UNIT#1082	UNIT#1083	UNIT#1084	UNIT#1085	UNIT#1086	UNIT#1087	UNIT#1088	UNIT#1089	UNIT#1090	UNIT#1091	UNIT#1092	UNIT#1093	UNIT#1094	UNIT#1095	UNIT#1096	UNIT#1097	UNIT#1098	UNIT#1099	UNIT#1100	UNIT#1101	UNIT#1102	UNIT#1103	UNIT#1104	UNIT#1105	UNIT#1106	UNIT#1107	UNIT#1108	UNIT#1109	UNIT#1110	UNIT#1111	UNIT#1112	UNIT#1113	UNIT#1114	UNIT#1115	UNIT#1116	UNIT#1117	UNIT#1118	UNIT#1119	UNIT#1120	UNIT#1121	UNIT#1122	UNIT#1123	UNIT#1124	UNIT#1125	UNIT#1126	UNIT#1127	UNIT#1128	UNIT#1129	UNIT#1130	UNIT#1131	UNIT#1132	UNIT#1133	UNIT#1134	UNIT#1135	UNIT#1136	UNIT#1137	UNIT#1138	UNIT#1139	UNIT#1140	UNIT#1141	UNIT#1142	UNIT#1143	UNIT#1144	UNIT#1145	UNIT#1146	UNIT#1147	UNIT#1148	UNIT#1149	UNIT#1150	UNIT#1151	UNIT#1152	UNIT#1153	UNIT#1154	UNIT#1155	UNIT#1156	UNIT#1157	UNIT#1158	UNIT#1159	UNIT#1160	UNIT#1161	UNIT#1162	UNIT#1163	UNIT#1164	UNIT#1165	UNIT#1166	UNIT#1167	UNIT#1168	UNIT#1169	UNIT#1170	UNIT#1171	UNIT#1172	UNIT#1173	UNIT#1174	UNIT#1175	UNIT#1176	UNIT#1177	UNIT#1178	UNIT#1179	UNIT#1180	UNIT#1181	UNIT#1182	UNIT#1183	UNIT#1184	UNIT#1185	UNIT#1186	UNIT#1187	UNIT#1188	UNIT#1189	UNIT#1190	UNIT#1191	UNIT#1192	UNIT#1193	UNIT#1194	UNIT#1195	UNIT#1196	UNIT#1197	UNIT#1198	UNIT#1199	UNIT#1200	UNIT#1201	UNIT#1202	UNIT#1203	UNIT#1204	UNIT#1205	UNIT#1206	UNIT#1207	UNIT#1208	UNIT#1209	UNIT#1210	UNIT#1211	UNIT#1212	UNIT#1213	UNIT#1214	UNIT#1215	UNIT#1216	UNIT#1217	UNIT#1218	UNIT#1219	UNIT#1220	UNIT#1221	UNIT#1222	UNIT#1223	UNIT#1224	UNIT#1
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Due to 13KV Power BSEB system failure.

Due to 13KV Power BSEB system failure.

Due to BSEB 132 KV system power failure.

Due to 13KV Power BSEB system failure.



⑨ Power vaccine for  
Typhoid Hep.

5	0.64	4.99	2.34	3.40	2.32
unfilled	0.64	4.99	2.34	3.40	2.32
filled	0.64	4.99	2.34	3.40	2.32



## 16

Can't  
make  
it  
to  
the  
game  
on  
the  
11th







# GENERATION FOR THE MONTH OF JUNE, 2009

Date	UNIT #1 GEN KWH	UNIT #2 KWH	UNIT #3 KWH	TOTAL KWH	Auxiliary KWH	UNIT Start KWH	WATER Discharge Cuse	NET Mts	OUTAGE hrs	Power Source From House	Remarks
01.06.2009	-	-	-	-	-	-	-	-	-	-	
02.06.2009	-	-	-	-	-	-	-	-	-	-	
03.06.2009	-	40,600	14,55	24,700	1045	1,700	23,000	1526	5.42	8,900	
04.06.2009	-	68,400	22.30	49,200	1840	3,300	45,900	1854	5.01	9,700	
05.06.2009	-	53,200	22.15	68,400	22.30	3,300	65,100	2024	5.04	10,900	
06.06.2009	-	26,400	20.35	53,200	22.15	3,200	50,000	1551	5.54	6,600	
07.06.2009	-	38,300	24.00	24,400	20.25	2,900	23,500	933	4.97	-	
08.06.2009	-	29,800	12.05	38,300	24.00	2,000	35,300	1099	5.20	2,700	
09.06.2009	-	-	-	29,800	12.05	1,600	28,200	1685	5.25	1,900	
10.06.2009	-	-	-	-	-	-	-	-	-	-	
11.06.2009	-	8,700	1.30	5,700	1.30	2,900	5,800	1349	5.06	1,900	
12.06.2009	-	74,000	18.00	74,000	18.00	2,700	71,300	2782	5.03	9,600	
13.06.2009	-	98,800	23.30	98,800	23.30	3,300	95,500	2936	5.14	8,800	
14.06.2009	-	74,400	22.15	74,400	22.15	3,000	71,400	2296	5.23	5,000	
15.06.2009	-	74,300	24.00	74,300	24.00	3,300	71,000	2178	5.10	5,800	
16.06.2009	-	86,300	20.05	86,300	20.05	2,900	83,400	3037	5.08	10,200	
17.06.2009	-	88,600	20.35	88,600	20.35	2,900	85,700	3074	5.03	9,800	
18.06.2009	-	1,00,000	23.30	1,00,000	23.30	3,100	96,900	3032	5.04	11,400	
19.06.2009	-	1,02,700	24.00	1,02,700	24.00	3,300	99,400	3133	4.9	10,700	
20.06.2009	-	97,200	22.55	97,200	22.55	3,300	93,900	3157	4.83	11,100	
21.06.2009	-	91,100	22.00	91,100	22.00	3,400	87,700	2928	5.0	10,400	
22.06.2009	-	95,000	22.50	95,000	22.50	3,600	91,400	2970	5.0	10,000	
23.06.2009	-	1,01,400	24.00	1,01,400	24.00	3,700	97,700	3029	5.1	10,800	
24.06.2009	-	1,03,500	24.00	1,03,500	24.00	3,600	99,900	3088	5.02	11,700	
25.06.2009	-	1,06,900	24.00	1,06,900	24.00	3,800	1,03,100	3089	5.18	13,700	
26.06.2009	-	1,09,000	24.00	1,09,000	24.00	3,800	1,05,200	3146	5.19	13,600	
27.06.2009	-	61,300	24.00	61,300	24.00	3,400	57,900	1637	5.6	15,600	
28.06.2009	-	39,700	20.85	39,700	20.85	3,200	36,500	1249	5.7	16,000	
29.06.2009	-	54,900	16.40	54,900	16.40	2,400	52,500	2159	5.48	11,100	
30.06.2009	-	59,500	19.45	59,500	19.45	2,700	56,800	2058	5.24	-	
	18,84,000	578	33,300	19,17,300	582	18,300	18,34,000	2335	5.1	3,300	



# GENERATION FOR THE MONTH OF JULY, 2009

Date	UNIT #1		UNIT #2		UNIT #3		TOTAL		Auxiliary	UNIT		WATER		OUPAGE		Remarks
	GEN	RUN	GEN	RUN	GEN	RUN	GEN	RUN		Self	Discharge	Net	Head	Rate	WTRD	
	KWH	Hrs	KWH	Hrs	KWH	Hrs	KWH	Hrs	KWH	KWH	Cusec	Mtr	ft	ft	Hrs	
01.07.2009	—	—	86,600	24.00	—	—	86,600	24.00	3,400	83,200	2371	5.46				
02.07.2009	—	—	52,200	14.05	—	—	52,200	14.05	1,900	50,300	2410	5.52	7.15	2.40		13KV System power failure and hydraulic problem.
03.07.2009	—	—	—	—	51,100	19.40	51,100	19.40	3,800	47,300	1658	5.64	4.20			Thyristor plate had been damaged at unit #3 & governor failed.
04.07.2009	—	—	—	—	77,000	23.10	77,000	23.10	3,700	73,300	2136	5.59	0.50			due to pump tank oil level off unit #3
05.07.2009	—	—	—	—	77,700	24.00	77,700	24.00	3,800	73,900	2074	5.6				due to pump tank oil level off unit #3
06.07.2009	—	—	—	—	60,200	18.50	60,200	18.50	3,500	56,700	2085	5.5	5.10			due to pump tank oil level off unit #3
07.07.2009	—	—	—	—	27,900	8.15	27,900	8.15	2,000	25,900	2310	5.5	8.00	7.45		gov. failed has been damaged and 13KV power failure
08.07.2009	—	—	—	—	81,600	24.00	81,600	24.00	4,000	77,600	2183	5.6				due to pump tank oil level off unit #3
09.07.2009	—	—	—	—	81,300	24.00	81,300	24.00	4,200	77,100	2132	5.7				
10.07.2009	—	—	—	—	80,900	24.00	80,900	24.00	4,400	76,500	2133	5.68				
11.07.2009	—	—	—	—	81,900	24.00	81,900	24.00	4,400	77,500	2129	5.76				
12.07.2009	—	—	—	—	79,200	23.30	79,200	23.30	4,200	75,000	2122	5.71	1.30			due to 6.6 KV breaker failure
13.07.2009	—	—	—	—	75,800	22.10	75,800	22.10	4,000	71,800	2151	5.6	1.50			
14.07.2009	—	—	—	—	55,500	16.55	55,500	16.55	3,400	52,100	2106	5.6	6.50	0.15		Due to 13KV system voltage low and 13KV failure
15.07.2009	—	—	—	—	84,000	24.00	84,000	24.00	4,200	79,800	2219	5.6				
16.07.2009	—	—	—	—	82,800	24.00	82,800	24.00	4,200	78,600	2176	5.7				
17.07.2009	—	—	—	—	81,500	24.00	81,500	24.00	4,300	77,200	2138	5.7				
18.07.2009	—	—	—	—	67,700	21.05	67,700	21.05	4,100	63,600	2061	5.6	2.55			Unit no. 3 & pump tank level low with 13KV
19.07.2009	—	—	—	—	15,300	4.20	15,300	4.20	600	14,700	2427	5.2	19.40			13KV BSB system power failure
20.07.2009	—	—	—	—	84,200	24.00	84,200	24.00	3,000	81,200	2772	5.2	3.10			
21.07.2009	—	—	—	—	86,500	24.20	86,500	24.20	3,200	83,300	2848	5.1	2.25			
22.07.2009	—	—	—	—	99,500	24.00	99,500	24.00	3,200	96,300	2809	5.3				
23.07.2009	—	—	—	—	1,00,500	24.00	1,00,500	24.00	3,100	97,400	2890	5.2				
24.07.2009	—	—	—	—	1,00,700	24.00	1,00,700	24.00	3,200	97,500	2875	5.2				13KV BSB system power failure
25.07.2009	—	—	—	—	66,000	14.35	66,000	14.35	3,200	63,800	2084	5.2				13KV BSB system power failure
26.07.2009	—	—	—	—	1,03,600	24.00	1,03,600	24.00	3,200	1,00,400	2924	5.3				13KV BSB system power failure
27.07.2009	—	—	—	—	76,800	24.00	76,800	24.00	3,100	73,700	2177	5.3				13KV BSB system power failure
28.07.2009	—	—	—	—	41,400	21.00	41,400	21.00	2,800	38,600	1258	5.6	3.00			Heavy demand.
29.07.2009	—	—	—	—	15,400	9.25	15,400	9.25	1,800	13,600	1052	5.7	14.35			due to T.M.C. failure from
30.07.2009	—	—	—	—	18,900	7.05	18,900	7.05	2,200	16,700	1699	5.6	16.55			due to T.M.C. failure from
31.07.2009	—	—	—	—	61,500	23.05	61,500	23.05	3,700	58,800	1748	5.4	0.55			due to T.M.C. failure from
NIL	—	—	—	—	10,09,100	23.45	10,09,100	23.45	1,02,500	9,06,600	2927	5.4	93.20	2.05		due to T.M.C. failure from
																due to T.M.C. failure from



# GENERATION REPORT FOR THE MONTH OF AUGUST, 09

Date	UNIT# 1			UNIT# 2			UNIT# 3			T.O.T.H	Auxiliary	UNIT		METER	OUTAGE		Remarks
	GEN	KWH	RUN	GEN	KWH	RUN	GEN	KWH	RUN			Seat Out	Discharge		Net Seed	8.0-8.5	
01.08.2009	—	57,600	23.45	—	—	—	57,600	23.45	—	2,900	54,700	1666	5.3	0.00	0.20	2.05	due to heavy jammed on track
02.08.2009	—	58,700	21.55	—	—	—	58,700	21.55	—	2,700	56,000	1771	5.4	—	—	—	reset & moved failure
03.08.2009	—	71,000	24.00	—	—	—	71,000	24.00	—	3,100	67,900	1943	5.4	—	—	—	—
04.08.2009	—	57,000	22.05	—	—	—	57,000	22.05	—	2,800	54,200	1699	5.4	—	—	—	—
05.08.2009	—	61,900	24.00	—	—	—	61,900	24.00	—	3,200	58,700	1757	5.2	—	—	—	—
06.08.2009	—	50,500	22.45	—	—	—	50,500	22.45	—	3,100	47,400	1489	5.3	—	—	—	—
07.08.2009	—	59,600	24.00	—	—	—	59,600	24.00	—	3,100	56,500	1702	5.2	—	—	—	—
08.08.2009	—	53,500	22.45	—	—	—	53,500	22.45	—	2,900	53,100	1658	5.2	—	—	—	—
09.08.2009	—	56,000	23.00	—	—	—	56,000	23.00	—	2,900	56,900	1716	5.3	—	—	—	—
10.08.2009	—	59,800	23.35	—	—	—	59,800	23.35	—	2,700	51,400	1593	5.1	—	—	—	—
11.08.2009	—	54,100	23.35	—	—	—	54,100	23.35	—	2,800	45,400	1575	5.4	—	—	—	—
12.08.2009	—	48,200	20.20	—	—	—	48,200	20.20	—	3,200	58,200	1699	5.42	—	—	—	—
13.08.2009	—	61,400	24.00	—	—	—	61,400	24.00	—	2,900	56,100	1767	5.21	—	—	—	Heavy jammed on track
14.08.2009	—	59,000	23.00	—	—	—	59,000	23.00	—	2,800	59,900	1778	5.28	—	—	—	—
15.08.2009	—	62,700	24.00	—	—	—	62,700	24.00	—	3,000	53,300	1578	5.33	—	—	—	—
16.08.2009	—	56,300	24.00	—	—	—	56,300	24.00	—	2,600	54,000	1625	5.4	—	—	—	—
17.08.2009	—	56,600	23.10	—	—	—	56,600	23.10	—	100	600	360	5.0	22.35	16.30	—	T.M.C. Closest from track
18.08.2009	—	700	01.25	—	—	—	700	01.25	—	900	22,000	2035	5.3	—	—	—	—
19.08.2009	—	22,900	07.30	—	—	—	22,900	07.30	—	2,600	54,800	2015	5.39	—	—	—	132KV power failure from
20.08.2009	—	57,400	19.00	—	—	—	57,400	19.00	—	2,500	55,100	1992	5.38	—	—	—	Room power & track
21.08.2009	—	57,600	19.20	—	—	—	57,600	19.20	—	3,000	22,900	2413	5.38	—	—	—	do clearing power
22.08.2009	—	85,900	24.00	—	—	—	85,900	24.00	—	2,900	81,000	2395	5.2	—	—	—	—
23.08.2009	—	83,900	24.00	—	—	—	83,900	24.00	—	2,900	74,900	2240	5.2	—	—	—	—
24.08.2009	—	77,800	24.00	—	—	—	77,800	24.00	—	2,900	74,000	2256	5.1	—	—	—	—
25.08.2009	—	76,900	24.00	—	—	—	76,900	24.00	—	2,700	76,100	2226	5.16	—	—	—	—
26.08.2009	—	78,800	24.00	—	—	—	78,800	24.00	—	2,700	80,300	2448	5.23	—	—	—	Due to track track cleaning
27.08.2009	—	83,000	23.15	—	—	—	83,000	23.15	—	2,700	84,400	2525	5.17	—	—	—	—
28.08.2009	—	87,100	24.00	—	—	—	87,100	24.00	—	2,600	84,000	2508	5.29	—	—	—	—
29.08.2009	—	86,800	23.30	—	—	—	86,800	23.30	—	2,900	90,200	2645	5.26	—	—	—	—
30.08.2009	—	93,100	24.00	—	—	—	93,100	24.00	—	2,700	79,300	2491	5.14	0.45	0.15	—	132KV BSEB system power
31.08.2009	—	82,000	23.00	—	—	—	82,000	23.00	—	2,700	187,300	1949	5.26	39.50	8.15	15.30	Failure & shut down



UNITED STATES OF AMERICA

DATE	UNIT #1		UNIT #2		UNIT #3		TOTAL		Auxiliary		UNIT		WATER		OUTP		REMARKS
	GEN	KWH	GEN	KWH	GEN	KWH	GEN	KWH	GEN	KWH	SOFT	KWH	DISCHARGE	NET	DISCHARGE	NET	
12.09.2009	-	-	77,300	22.50	-	-	77,300	22.50	-	-	74,600	22.50	5.23	5.23	1.10	1.10	132KV BSEB system panel failure.
13.09.2009	-	-	57,200	22.45	-	-	57,200	22.45	-	-	54,600	16.90	5.34	5.34	1.15	1.15	132KV BSEB system panel failure.
14.09.2009	-	-	49,200	22.00	-	-	49,200	22.00	-	-	46,600	13.05	5.65	5.65			do -
15.09.2009	-	-	54,300	22.55	-	-	54,300	22.55	-	-	51,700	15.08	5.65	5.65			100% cleaning, panel work.
16.09.2009	-	-	71,000	23.30	-	-	71,000	23.30	-	-	68,400	20.00	5.43	5.43			
17.09.2009	-	-	75,900	24.00	-	-	75,900	24.00	-	-	73,300	21.04	5.4	5.4			
18.09.2009	-	-	78,400	24.00	-	-	78,400	24.00	-	-	75,700	21.71	5.4	5.4			
19.09.2009	-	-	79,400	24.00	-	-	79,400	24.00	-	-	77,000	22.26	5.38	5.38			
20.09.2009	-	-	77,100	24.00	-	-	77,100	24.00	-	-	74,300	21.61	5.34	5.34			
21.09.2009	-	-	75,000	24.00	-	-	75,000	24.00	-	-	72,300	21.17	5.3	5.3			
22.09.2009	-	-	74,100	24.10	-	-	74,100	24.10	-	-	71,200	21.05	5.26	5.26			
23.09.2009	-	-	69,800	24.00	-	-	69,800	24.00	-	-	66,800	20.01	5.21	5.21			
24.09.2009	-	-	70,600	24.00	-	-	70,600	24.00	-	-	67,800	20.37	5.19	5.19			
25.09.2009	-	-	70,800	24.00	-	-	70,800	24.00	-	-	67,900	20.28	5.23	5.23			
26.09.2009	-	-	70,900	24.00	-	-	70,900	24.00	-	-	68,200	20.17	5.26	5.26			
27.09.2009	-	-	63,900	20.10	-	-	63,900	20.10	-	-	61,200	21.47	5.31	5.31			
28.09.2009	-	-	76,200	24.00	-	-	76,200	24.00	-	-	73,100	21.51	5.3	5.3			
29.09.2009	-	-	76,400	24.00	-	-	76,400	24.00	-	-	73,400	21.49	5.32	5.32			
30.09.2009	-	-	77,700	24.00	-	-	77,700	24.00	-	-	74,500	21.63	5.37	5.37			
01.10.2009	-	-	77,300	24.00	-	-	77,300	24.00	-	-	74,100	21.68	5.34	5.34			
02.10.2009	-	-	66,700	20.30	-	-	66,700	20.30	-	-	63,900	21.84	5.35	5.35			132KV system voltage low.
03.10.2009	-	-	75,200	21.10	-	-	75,200	21.10	-	-	72,600	23.82	5.36	5.36			132KV system voltage low.
04.10.2009	-	-	88,100	24.00	-	-	88,100	24.00	-	-	85,500	24.53	5.38	5.38			132KV system voltage low.
05.10.2009	-	-	89,200	24.00	-	-	89,200	24.00	-	-	86,400	25.26	5.28	5.28			132KV BSEB system panel failure.
06.10.2009	-	-	84,000	23.35	-	-	84,000	23.35	-	-	81,100	24.02	5.33	5.33			132KV BSEB system panel failure.
07.10.2009	-	-	57,100	15.55	-	-	57,100	15.55	-	-	54,700	24.22	5.33	5.33			132KV BSEB system panel failure.
08.10.2009	-	-	80,900	22.15	-	-	80,900	22.15	-	-	78,300	24.77	5.27	5.27			system voltage low.
09.10.2009	-	-	47,900	13.15	-	-	47,900	13.15	-	-	45,800	24.77	5.24	5.24			due to under voltage of BSEB system panel.
10.10.2009	-	-	34,000	9.55	-	-	34,000	9.55	-	-	32,600	24.77	5.23	5.23			
11.10.2009	-	-	23,800	6.25	-	-	23,800	6.25	-	-	22,900	24.85	5.37	5.37			
12.10.2009	-	-	20,69,400	653.10	-	-	20,69,400	653.10	-	-	19,90,500	24.59	5.33	5.33			132KV BSEB system panel failure.

NOTE: 1) NEA panel was checked on 12.10.2009. It was found that the system voltage was low. The system voltage was 110V. The system voltage was 110V. The system voltage was 110V.



## Remarks

Scanned with CamScanner



off - Power House (3x5 MW) Dated 11.2009 (11.30 AM) at Prob 05.02.2010 (14.45 PM) NB

Date	UNIT #1			UNIT #2			UNIT #3			TOTAL			Auxiliary			UNIT			WATER			OIL			Remarks
	GEN	RUN	GEN	GEN	RUN	GEN	GEN	RUN	GEN	GEN	RUN	GEN	GEN	RUN	GEN	GEN	GEN	RUN	GEN	GEN	GEN	GEN	GEN	GEN	GEN
01.12.2009	-	-	-	68,000	23.15	-	-	-	68,000	23.15	-	-	2,600	65,400	22.25	4.72	-	3.25	-	-	-	-	-	-	13.2 MW system from 12.00 AM to 12.00 PM
02.11.2009	-	-	-	65,000	20.25	-	-	-	65,000	20.25	-	-	2,500	62,500	21.70	5.27	-	3.25	-	-	-	-	-	-	13.2 MW system from 12.00 AM to 12.00 PM
03.11.2009	-	-	-	76,300	21.35	-	-	-	76,300	21.35	-	-	2,600	73,700	24.24	5.26	-	3.25	-	-	-	-	-	-	13.2 MW system from 12.00 AM to 12.00 PM
04.11.2009	-	-	-	73,400	11.30	-	-	-	73,400	11.30	-	-	1500	71,900	22.19	5.15	-	3.25	-	-	-	-	-	-	13.2 MW system from 12.00 AM to 12.00 PM
05.01.2010	-	-	-	2,47,100	76.45	-	-	-	2,47,100	76.45	-	-	9,200	2,37,900	22.72	5.50	-	3.25	-	-	-	-	-	-	13.2 MW system from 12.00 AM to 12.00 PM

Handwritten signature and date: 01/01/2010 A.E. (A.P.)

NOTE: From November 2009 to present, the system has been running on 13.2 MW system from 12.00 AM to 12.00 PM.

Handwritten signature and date: 01/01/2010 A.E. (A.P.)

Handwritten signature and date: 01/01/2010 A.E. (A.P.)

Handwritten signature and date: 01/01/2010 A.E. (A.P.)







[illegible]







SEPTEMBER 2009

[illegible]



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Case No.	Plaintiff	Defendant	Amount	County	Term	Notes
100	John Doe	Jane Smith	\$100.00	Albany	1900	
101	John Doe	Jane Smith	\$100.00	Albany	1900	
102	John Doe	Jane Smith	\$100.00	Albany	1900	
103	John Doe	Jane Smith	\$100.00	Albany	1900	
104	John Doe	Jane Smith	\$100.00	Albany	1900	
105	John Doe	Jane Smith	\$100.00	Albany	1900	
106	John Doe	Jane Smith	\$100.00	Albany	1900	
107	John Doe	Jane Smith	\$100.00	Albany	1900	
108	John Doe	Jane Smith	\$100.00	Albany	1900	
109	John Doe	Jane Smith	\$100.00	Albany	1900	
110	John Doe	Jane Smith	\$100.00	Albany	1900	
111	John Doe	Jane Smith	\$100.00	Albany	1900	
112	John Doe	Jane Smith	\$100.00	Albany	1900	
113	John Doe	Jane Smith	\$100.00	Albany	1900	
114	John Doe	Jane Smith	\$100.00	Albany	1900	
115	John Doe	Jane Smith	\$100.00	Albany	1900	
116	John Doe	Jane Smith	\$100.00	Albany	1900	
117	John Doe	Jane Smith	\$100.00	Albany	1900	
118	John Doe	Jane Smith	\$100.00	Albany	1900	
119	John Doe	Jane Smith	\$100.00	Albany	1900	
120	John Doe	Jane Smith	\$100.00	Albany	1900	



# MONTHLY OF MARCH 2020

Sl. No.	Particulars	Debit	Credit	Balance	Particulars	Debit	Credit	Balance
1	Balance b/d			1000.00	1	Balance b/d		1000.00
2	...	...	...	...	2	...	...	...
3	...	...	...	...	3	...	...	...
4	...	...	...	...	4	...	...	...
5	...	...	...	...	5	...	...	...
6	...	...	...	...	6	...	...	...
7	...	...	...	...	7	...	...	...
8	...	...	...	...	8	...	...	...
9	...	...	...	...	9	...	...	...
10	...	...	...	...	10	...	...	...
11	...	...	...	...	11	...	...	...
12	...	...	...	...	12	...	...	...
13	...	...	...	...	13	...	...	...
14	...	...	...	...	14	...	...	...
15	...	...	...	...	15	...	...	...
16	...	...	...	...	16	...	...	...
17	...	...	...	...	17	...	...	...
18	...	...	...	...	18	...	...	...
19	...	...	...	...	19	...	...	...
20	...	...	...	...	20	...	...	...
21	...	...	...	...	21	...	...	...
22	...	...	...	...	22	...	...	...
23	...	...	...	...	23	...	...	...
24	...	...	...	...	24	...	...	...
25	...	...	...	...	25	...	...	...
26	...	...	...	...	26	...	...	...
27	...	...	...	...	27	...	...	...
28	...	...	...	...	28	...	...	...
29	...	...	...	...	29	...	...	...
30	...	...	...	...	30	...	...	...
31	...	...	...	...	31	...	...	...
32	...	...	...	...	32	...	...	...
33	...	...	...	...	33	...	...	...
34	...	...	...	...	34	...	...	...
35	...	...	...	...	35	...	...	...
36	...	...	...	...	36	...	...	...
37	...	...	...	...	37	...	...	...
38	...	...	...	...	38	...	...	...
39	...	...	...	...	39	...	...	...
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41	...	...	...	...	41	...	...	...
42	...	...	...	...	42	...	...	...
43	...	...	...	...	43	...	...	...
44	...	...	...	...	44	...	...	...
45	...	...	...	...	45	...	...	...
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49	...	...	...	...	49	...	...	...
50	...	...	...	...	50	...	...	...
51	...	...	...	...	51	...	...	...
52	...	...	...	...	52	...	...	...
53	...	...	...	...	53	...	...	...
54	...	...	...	...	54	...	...	...
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56	...	...	...	...	56	...	...	...
57	...	...	...	...	57	...	...	...
58	...	...	...	...	58	...	...	...
59	...	...	...	...	59	...	...	...
60	...	...	...	...	60	...	...	...
61	...	...	...	...	61	...	...	...
62	...	...	...	...	62	...	...	...
63	...	...	...	...	63	...	...	...
64	...	...	...	...	64	...	...	...
65	...	...	...	...	65	...	...	...
66	...	...	...	...	66	...	...	...
67	...	...	...	...	67	...	...	...
68	...	...	...	...	68	...	...	...
69	...	...	...	...	69	...	...	...
70	...	...	...	...	70	...	...	...
71	...	...	...	...	71	...	...	...
72	...	...	...	...	72	...	...	...
73	...	...	...	...	73	...	...	...
74	...	...	...	...	74	...	...	...
75	...	...	...	...	75	...	...	...
76	...	...	...	...	76	...	...	...
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78	...	...	...	...	78	...	...	...
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1. The first part of the document is a letter from the Secretary of the Board of Directors to the Board of Directors, dated 10/10/1910. The letter is addressed to the Board of Directors and is signed by the Secretary.



Sono Link Canal

HYDROELECTRIC PROJECT

Ajanoo

UNIT NO.

I

NUMBERS OF UNITS

2

TOTAL CAPACITY

2x500KW

Sl.No	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
1	01-06-2009	259.18	1:51	08:07	14:02		22:09	3	400	12.000
2	02-06-2009	264.98	2:43	08:58	12:19		21:17	3	590	"
3	03-06-2009									"
4	04-06-2009									"
5	05-06-2009									"
6	06-06-2009									"
7	07-06-2009									"
8	08-06-2009									"
9	09-06-2009									"
10	10-06-2009									"
11	11-06-2009									"
12	12-06-2009									"
13	13-06-2009									"
14	14-06-2009		0:08	07:39	16:13		23:52	-	20	"
15	15-06-2009	155.88	1:25	06:17	16:18		22:35	3.06	220	"
16	16-06-2009									"
17	17-06-2009									"
18	18-06-2009									"
19	19-06-2009									"
20	20-06-2009									"
21	21-06-2009									"
22	22-06-2009									"
23	23-06-2009									"
24	24-06-2009									"
25	25-06-2009									"
26	26-06-2009									"
27	27-06-2009									"
28	28-06-2009									"
29	29-06-2009									"
30	30-06-2009									"
31										"

Amph



Same Link Canal

HYDROELECTRIC PROJECT Aganoor

UNIT NO. 1

NUMBERS OF UNITS 2

TOTAL CAPACITY 2X500 KW

S/No	Date	Discharge from Power House	Running Hrs.	Grid Fail	Backed down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
1	01-07-2009									12,000
2	02-07-2009									
3	03-07-2009									
4	04-07-2009									
5	05-07-2009									
6	06-07-2009									
7	07-07-2009									
8	08-07-2009									
9	09-07-2009									
10	10-07-2009	612.78	03:31	15:24	05:05					
11	11-07-2009	305.88	03:05	19:22	01:33					
12	12-07-2009	397.38	01:53	21:49	01:18					
13	13-07-2009	425.37	09:53	13:57	2:10					
14	14-07-2009	432.24	12:33	11:07		0:20				
15	15-07-2009	412.04	06:24	14:01	03:13					
16	16-07-2009	391.41	02:55	08:20	12:45					
17	17-07-2009	428.90	08:25	15:22	0:13					
18	18-07-2009	448.28	06:18	14:54	02:48					
19	19-07-2009	452.38	05:11	16:59	01:50					
20	20-07-2009									
21	21-07-2009									
22	22-07-2009	382.29	05:50	16:29	01:06					
23	23-07-2009	456.44	08:18	12:25	03:17					
24	24-07-2009	516.97	06:18	14:38	03:04					
25	25-07-2009	480.12	05:43	16:46	01:31					
26	26-07-2009	486.37	01:19	17:58	04:43					
27	27-07-2009	475.27	08:56	13:39	01:25					
28	28-07-2009	475.12	06:44	17:01	00:15					
29	29-07-2009	480.35	07:04	15:10	01:33					
30	30-07-2009	461.83	07:37	14:30	01:43					
31	31-07-2009	444.73	08:38	18:36	01:13					

Dist.



Dane Link Canal

NUMBERS OF UNITS 2

HYDROELECTRIC PROJECT

Agamoor

UNIT NO. II

TOTAL CAPACITY 2 X 500 KW

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Banked down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
1	01-07-2009									
2	02-07-2009									
3	03-07-2009									
4	04-07-2009									
5	05-07-2009									
6	06-07-2009									
7	07-07-2009									
8	08-07-2009									
9	09-07-2009									
10	10-07-2009									
11	11-07-2009									
12	12-07-2009									
13	13-07-2009									
14	14-07-2009									
15	15-07-2009									
16	16-07-2009	412.94	03:28	08:20	12:12		20:32	3.6	1430	"
17	17-07-2009	440.42	01:13	15:22	08:22		23:44	3.5	90	"
18	18-07-2009	479.03	2:46	14:54	06:20		21:14	3.7	1360	"
19	19-07-2009	499.78	01:50	16:59	05:11		22:10	3.5	890	"
20	20-07-2009	503.55	01:02	22:58			22:58	3.5	490	"
21	21-07-2009			22:54	01:06		24:00			"
22	22-07-2009									"
23	23-07-2009	497.63	03:17	12:25	08:18		20:43	3.7	1550	"
24	24-07-2009	446.28	03:00	14:38	06:22		21:00	3.6	1340	"
25	25-07-2009	472.19	01:42	16:46	06:32		23:18	3.7	340	"
26	26-07-2009	455.90	2:45	17:58	03:17		21:15	3.5	1220	"
27	27-07-2009									"
28	28-07-2009									"
29	29-07-2009									"
30	30-07-2009									"
31	31-07-2009									"



Some Link Canal

HYDROELECTRIC PROJECT Aganoor

UNIT NO. I

NUMBERS OF UNITS 2

TOTAL CAPACITY 2 X 500 KW

Sl.No	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
1	01-08-2009	485.04	03:44	18:29	01:32		20:01	3.3	1660	12000
2	02-08-2009	383.11	04:34	16:19	01:04		17:23	3.5	1700	"
3	03-08-2009	386.72	03:00	16:53	04:07		22:00	3.4	1000	"
4	04-08-2009	359.24	01:40	16:15	06:05		22:20	3.8	630	"
5	05-08-2009	-	-	-	-		-	-	-	-
6	06-08-2009	409.33	0:46	17:16	05:58		23:14	3.7	320	"
7	07-08-2009	-	-	-	-		-	-	-	-
8	08-08-2009	337.60	1:25	15:49	06:46		22:35	3.4	450	"
9	09-08-2009	-	-	14:53	09:07		24:00	-	-	"
10	10-08-2009	-	-	18:26	05:44		24:00	-	-	"
11	11-08-2009	-	-	13:31	10:29		24:00	-	-	"
12	12-08-2009	-	-	16:53	07:07		24:00	-	-	"
13	13-08-2009	-	-	23:58	00:02		24:00	-	-	"
14	14-08-2009	382.49	0:37	22:30	00:53		23:23	3.7	240	"
15	15-08-2009	386.36	1:58	19:55	02:07		22:02	3.8	800	"
16	16-08-2009	530.40	4:18	16:53	02:58		19:51	3.5	2080	"
17	17-08-2009	445.96	08:29	11:21	04:10		15:31	3.5	3680	"
18	18-08-2009	457.89	03:44	18:42	01:09		19:51	3.7	1760	"
19	19-08-2009	53.28	0:22	22:00	01:38		23:38	3.6	160	"
20	20-08-2009	406.69	06:07	17:13	0:40		17:53	3.3	2280	"
21	21-08-2009	-	-	24:00	-		24:00	-	-	-
22	22-08-2009	409.35	03:43	14:21	05:45		20:06	3.6	1520	"
23	23-08-2009	446.05	02:21	19:10	02:29		21:39	3.5	1020	"
24	24-08-2009	429.94	09:15	11:30	03:09		14:39	3.5	3870	"
25	25-08-2009	403.69	10:06	13:09	0:45		13:54	3.4	3820	"
26	26-08-2009	383.39	05:12	14:26	04:22		18:48	3.5	1940	"
27	27-08-2009	-	-	-	-		-	-	-	-
28	28-08-2009	416.88	01:04	12:12	10:44		22:56	3.5	430	"
29	29-08-2009	-	-	-	-		-	-	-	-
30	30-08-2009	-	-	-	-		-	-	-	-
31	31-08-2009	-	-	-	-		-	-	-	-

*Signature*



James Link Canal

HYDROELECTRIC PROJECT

UNIT NO. II

NUMBERS OF UNITS 2

TOTAL CAPACITY 2X500KVA

Sl. No	Date	Discharge from Power House	Running Hrs.	Grid Fail	Banked down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
1	01-08-2009									
2	02-08-2009									
3	03-08-2009									
4	04-08-2009									
5	05-08-2009	597.02	11:30	19:58	02:32					
6	06-08-2009	414.51	3:16	17:16	03:28					
7	07-08-2009	352.64	01:31	21:29	02:00					
8	08-08-2009									
9	09-08-2009									
10	10-08-2009									
11	11-08-2009									
12	12-08-2009									
13	13-08-2009									
14	14-08-2009									
15	15-08-2009									
16	16-08-2009	485.54	02:11	16:53	05:05					
17	17-08-2009	419.62	03:38	11:21	09:01					
18	18-08-2009									
19	19-08-2009	13.31	01:03	02:00	01:50					
20	20-08-2009	393.20	5:43	17:13	01:04					
21	21-08-2009			24:00						
22	22-08-2009	415.62	04:53	14:21	04:35					
23	23-08-2009	448.15	01:20	19:10	03:30					
24	24-08-2009	337.91	09:37	11:30	02:47					
25	25-08-2009	406.70	09:45	13:09	01:56					
26	26-08-2009	446.32	09:13	14:26	00:21					
27	27-08-2009	473.80	11:50	11:22	00:18					
28	28-08-2009	492.88	11:32	12:12	00:16					
29	29-08-2009	488.69	09:39	13:10	00:12					
30	30-08-2009	493.36	08:51	14:36	00:33					
31	31-08-2009	488.73	11:32	11:59	00:29					

Link



Done Link Canal

NUMBERS OF UNITS

2

HYDROELECTRIC PROJECT

Aganooor

UNIT NO. II

TOTAL CAPACITY 2 x 500 KW

Sl. No	Date	Discharge from Power House	Running Hrs.	Grid Fuel	Barked down Machine	Trash rack clean	Total Outage Hrs.	Filed	Daily Generation	As per design Generation
1	01-09-2009	4778.07	13:43	09:53	00:24	00:20	10:17	3.6	6560	12000
2	02-09-2009	502.97	05:23	18:18	00:09	-	18:27	3.6	2790	"
3	03-09-2009	509.09	06:30	16:02	01:28	-	17:30	3.5	3220	"
4	04-09-2009	551.40	08:39	17:04	00:17	-	17:21	3.6	3670	"
5	05-09-2009	457.22	07:57	14:58	04:00	-	15:58	3.8	3840	"
6	06-09-2009	4710.36	10:13	12:46	00:29	-	13:15	3.7	4940	"
7	07-09-2009			24:00			24:00			"
8	08-09-2009			24:00			24:00			"
9	09-09-2009	284.74	03:20	19:29	01:09		20:38	3.3	870	"
10	10-09-2009	437.15	05:05	16:10	02:45		18:55	4.0	2470	"
11	11-09-2009	365.29	01:39	17:49	00:12		18:01	3.7	620	"
12	12-09-2009	448.99	02:39	20:39	00:42		21:21	3.9	1290	"
13	13-09-2009	482.56	04:02	18:39	00:50		19:29	3.9	1890	"
14	14-09-2009	438.95	01:08	21:58	00:20		22:18	3.6	490	"
15	15-09-2009	519.80	01:40	22:34	00:16		22:50	3.4	570	"
16	16-09-2009	488.71	08:17	14:14	00:37		14:51	3.6	4050	"
17	17-09-2009	472.45	03:13	20:12	00:33		20:45	3.7	1560	"
18	18-09-2009	491.80	07:14	15:28	00:43		16:11	3.5	3460	"
19	19-09-2009	473.67	05:13	16:51	01:46		18:37	3.6	2470	"
20	20-09-2009	472.06	04:22	15:56	03:42		19:38	3.6	2060	"
21	21-09-2009	533.29	08:59	12:39	00:37		13:16	3.5	4660	"
22	22-09-2009	471.30	06:15	15:05	00:31		15:36	3.7	3030	"
23	23-09-2009	514.95	04:24	19:24	00:12		19:36	3.7	2140	"
24	24-09-2009	368.92	06:28	16:42	00:28		17:10	4.1	2860	"
25	25-09-2009	437.44	07:49	15:00	01:11		16:11	4.0	3800	"
26	26-09-2009	341.72	10:11	13:16	00:33		13:49	4.5	4780	"
27	27-09-2009	439.57	04:26	18:21	00:32		18:53	4.1	2220	"
28	28-09-2009	446.43	15:20	07:11	01:29		08:40	3.8	7230	"
29	29-09-2009	382.71	09:20	13:14	01:26		14:40	4.2	4170	"
30	30-09-2009	428.89	06:01	16:13	00:21		16:34	4.0	2910	"
31										"

Diff



Sone Link Canal

HYDROELECTRIC PROJECT Aganoox

UNIT NO. II

NUMBERS OF UNITS 2

TOTAL CAPACITY 2X500kW

Sl.No	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clean	Total Outage Hrs.	Flead	Daily Generation	As per design Generation
1	01-10-2009									12000
2	02-10-2009	355.86	03:05	17:54	02:01	-	19:55	4.2	1280	"
3	03-10-2009	468.55	05:59	16:58	00:25	-	17:23	3.8	2960	"
4	04-10-2009	556.43	03:24	17:46	00:42	-	18:28	3.7	1740	"
5	05-10-2009	466.67	04:15	19:24	00:21	-	19:45	3.5	1930	"
6	06-10-2009	436.97	08:52	14:31	00:30	-	15:01	3.8	4090	"
7	07-10-2009	-	-	19:25	04:35	-	24:00	-	-	"
8	08-10-2009	515.97	04:25	06:13	00:20	-	06:33	3.4	2150	"
9	09-10-2009	536.50	09:42	13:40	00:38	-	14:18	3.4	4600	"
10	10-10-2009	542.91	00:32	21:35	01:53	-	23:28	3.5	280	"
11	11-10-2009	504.05	00:33	18:30	04:57	-	23:27	3.5	270	"
12	12-10-2009	448.56	08:29	15:43	00:39	-	16:22	3.7	2990	"
13	13-10-2009	483.53	04:03	05:59	00:33	-	06:32	3.6	1960	"
14	14-10-2009	533.43	07:48	15:11	00:51	-	16:02	3.6	3780	"
15	15-10-2009	450.67	09:45	13:59	00:18	-	14:15	3.7	4520	"
16	16-10-2009	422.67	06:21	17:13	00:26	-	17:39	3.9	2910	"
17	17-10-2009	464.71	11:09	12:17	00:34	-	12:51	3.7	5330	"
18	18-10-2009	462.06	12:45	10:09	01:06	-	11:15	3.7	6060	"
19	19-10-2009	491.28	11:49	10:52	00:50	-	11:42	3.6	5840	"
20	20-10-2009	489.15	11:02	12:26	00:32	-	12:58	3.6	5400	"
21	21-10-2009	447.20	11:34	11:37	00:49	-	12:26	4.0	5750	"
22	22-10-2009	456.96	05:31	17:52	00:37	-	18:29	3.7	2590	"
23	23-10-2009	490.88	10:56	12:09	01:01	-	13:10	3.6	5370	"
24	24-10-2009	454.75	13:39	08:59	01:22	-	10:21	3.9	6780	"
25	25-10-2009	379.72	06:16	17:28	00:16	-	17:44	4.1	2710	"
26	26-10-2009	384.49	00:46	16:43	06:31	-	23:14	3.2	260	"
27	27-10-2009	406.25	02:38	20:29	00:53	-	21:22	3.4	1010	"
28	28-10-2009	342.29	02:10	19:45	02:05	-	21:50	3.6	740	"
29	29-10-2009	408.69	03:58	19:21	00:41	-	20:02	3.2	1440	"
30	30-10-2009	612.33	03:48	19:37	00:35	-	20:12	2.7	1940	"
31	31-10-2009	469.19	08:38	14:05	01:17	-	15:02	2.9	4390	"

dsk



Sone Link Canal HYDROELECTRIC PROJECT Aganox UNIT NO. II

NUMBERS OF UNITS 2 TOTAL CAPACITY 2x500 KVA

Sl.No	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
1	01-11-2009	504.89	04:36	18:40	00:44		19:24	3.5	2260	12000
2	02-11-2009	423.68	06:01	17:05	00:44		17:49	3.8	2690	"
3	03-11-2009	402.05	01:14	21:26	01:20		22:46	3.2	440	"
4	04-11-2009	357.07	02:21	18:54	02:45		21:39	3.0	700	"
5	05-11-2009	455.48	01:17	19:55	02:48		22:43	2.9	470	"
6	06-11-2009	453.34	03:01	18:16	02:43		20:59	2.9	1100	"
7	07-11-2009	414.31	04:55	17:13	01:52		19:05	3.3	1880	"
8	08-11-2009	487.70	04:23	17:40	01:57		19:37	3.3	1960	"
9	09-11-2009	368.39	02:51	19:38	01:31		21:09	3.7	1080	"
10	10-11-2009	400.30	06:07	15:59	01:47		17:46	3.5	2380	"
11	11-11-2009	469.60	02:22	19:57	01:41		21:38	3.7	1140	"
12	12-11-2009	422.22	04:17	18:42	01:01		19:43	3.5	1720	"
13	13-11-2009	445.17	01:18	21:28	01:24		22:52	4.0	510	"
14	14-11-2009	383.88	04:52	15:21	03:47		19:08	3.2	1660	"
15	15-11-2009	445.60	01:55	19:44	02:21		22:05	3.0	710	"
16	16-11-2009	419.93	03:06	15:56	04:58		20:54	3.5	1230	"
17	17-11-2009	42.81	00:04	21:32	02:28		24:00	4.2	30	"
18	18-11-2009	395.49	04:24	15:54	03:42		19:36	3.1	1500	"
19	19-11-2009	282.59	00:52	16:51	08:17		23:08	3.7	250	"
20	20-11-2009	416.30	00:29	19:35	03:56		23:31	3.6	200	"
21	21-11-2009	-	-	17:50	06:10	-	24:00	-	-	"
22	22-11-2009	448.68	00:39	18:46	04:35		23:21	3.7	300	"
23	23-11-2009	454.43	09:26	14:11	00:23		14:34	3.5	4170	"
24	24-11-2009	337.92	02:54	14:33	00:17		14:50	2.9	790	"
25	25-11-2009	363.29	00:54	22:56	00:10		23:06	3.3	300	"
26	26-11-2009	352.18	01:42	15:57	06:22		22:19	3.1	510	"
27	27-11-2009	347.34	02:15	16:06	05:39		21:45	2.9	630	"
28	28-11-2009	312.18	01:31	18:04	04:25		18:29	2.9	380	"
29	29-11-2009	-	00:05	18:26	-		-	-	20	"
30	30-11-2009	-	-	-	-	-	-	-	-	"
31										"

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Sone Link Canal

HYDROELECTRIC PROJECT Agamgarh

NIT NO. II

NUMBER OF UNITS 2

TOTAL CAPACITY 2X500 KW

Sl No	Date	Discharge from Power House	Running Hrs.	Grid Fail	Blocked down Machine	Test rack clean	Total Output Hrs.	Head	Day Generation	As per design Generation
1	01-12-2009									
2	02-12-2009									
3	03-12-2009	457.81	02:07	18:26	03:27		21:53	3.5	940	"
4	04-12-2009	463.04	04:06	19:35	00:19		19:54	3.7	1910	"
5	05-12-2009	361.70	01:01	22:36	00:23		23:08	4.6	470	"
6	06-12-2009	457.11	04:41	17:48	01:31		19:19	3.8	2260	"
7	07-12-2009	417.56	02:53	18:32	02:35		21:07	3.2	1070	"
8	08-12-2009			14:04	04:56		24:00			"
9	09-12-2009	352.73	02:16	18:15	03:29		21:44	3.7	820	"
10	10-12-2009		01:27	15:10	01:27		16:37	0.7	430	"
11	11-12-2009									
12	12-12-2009									
13	13-12-2009									
14	14-12-2009									
15	15-12-2009									
16	16-12-2009									
17	17-12-2009									
18	18-12-2009									
19	19-12-2009									
20	20-12-2009									
21	21-12-2009									
22	22-12-2009									
23	23-12-2009									
24	24-12-2009									
25	25-12-2009									
26	26-12-2009									
27	27-12-2009									
28	28-12-2009									
29	29-12-2009									
30	30-12-2009									
31	31-12-2009									

Link



Sone Link Canal

HYDROELECTRIC PROJECT

Ajameer

UNIT NO.

1

NUMBERS OF UNITS 2

TOTAL CAPACITY 2x500 kW

S No	Date	Discharge from Power House	Running Hrs.	Grid Fail	Blocked down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
	01-01-2010									12000
	02-01-2010									
	03-01-2010									
	04-01-2010									
	05-01-2010	315.53	00:09	22:23	00:96	00:20	23:09	3.8	50	
	06-01-2010		00:11	18:33			18:33	0.4	50	
	07-01-2010									
	08-01-2010									
	09-01-2010									
	10-01-2010	365.92	00:26	20:30	00:09		20:39	3.2	140	"
	11-01-2010	344.35	03:16	17:39	00:14	00:32	18:25	3.3	1030	"
	12-01-2010	369.40	02:03	20:18	00:39		20:57	3.8	800	"
	13-01-2010			16:04	07:56		24:00	-	-	
	14-01-2010	405.68	00:13	16:40	06:23		17:03	3.8	90	"
	15-01-2010	348.43	00:54	16:24			16:24	3.9	340	"
	16-01-2010	456.81	01:33	18:51	00:04		18:55	3.2	630	"
	17-01-2010	423.14	00:30	21:53	00:04		21:57	3.4	200	"
	18-01-2010	364.97	03:43	17:32	00:26		17:58	3.4	1280	"
	19-01-2010	383.07	00:46	19:49	00:14		20:03	4.2	340	"
	20-01-2010	372.01	05:00	16:33	01:24		16:57	3.5	1810	"
	21-01-2010	361.84	02:30	20:13	00:09		20:22	3.3	830	"
	22-01-2010	412.27	04:17	17:48	01:08		18:56	3.2	1570	"
	23-01-2010			24:00	-		24:00	-	-	
	24-01-2010	425.90	01:54	15:05	00:26		15:31	3.2	720	"
	25-01-2010	393.62	06:43	18:42	00:31		17:13	3.2	2350	"
	26-01-2010	355.62	07:02	16:13	00:42	00:10	16:57	3.4	2370	"
	27-01-2010	454.00	02:42	20:13	00:24		20:37	3.6	890	"
	28-01-2010	418.67	05:32	17:54	00:24		18:28	3.2	2080	"
	29-01-2010	515.78	04:14	17:41	00:47	00:17	18:45	3.0	1820	"
	30-01-2010	435.05	06:10	16:41	01:08		17:49	3.1	2310	"
	31-01-2010	431.73	06:26	17:04	00:30		17:34	3.2	2470	"

dir



Sane Link Canal

NUMBERS OF UNITS

2

HYDRO-ELECTRIC PROJECT

Agamoor

UNIT NO. II

TOTAL CAPACITY

28500kh

Sl No	Date	Discharge from Power House	Running Hrs.	Grid Fail	Marked down Machine	Trash rack clear	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01-01-2010									12000
02	01-01-2010									
03	01-01-2010									
04	01-01-2010									
05	01-01-2010									
06	01-01-2010									
07	01-01-2010									
08	01-01-2010									
09	01-01-2010									
10	01-01-2010	304.01	02:40	20:30	00:09	00:29	21:08	3.2	990	"
11	01-01-2010	427.71	02:08	17:39	00:04		17:43	3.3	790	"
12	01-01-2010	297.18	00:52	20:18	00:39		20:57	3.8	270	"
13	01-01-2010			16:04	07:56		24:00			"
14	01-01-2010	401.98	00:44	16:40	00:23		17:03	3.8	310	"
15	01-01-2010	406.20	04:57	16:24	00:29		16:53	3.9	2180	"
16	01-01-2010	553.89	02:54	18:51	00:34		19:25	3.2	1030	"
17	01-01-2010	419.64	01:13	21:53	00:13		22:06	3.4	480	"
18	01-01-2010	423.14	00:54	17:32	01:29		19:01	3.4	360	"
19	01-01-2010	312.81	02:43	19:49	00:28		20:17	4.9	990	"
20	01-01-2010	353.81	05:47	16:33	01:40		17:13	3.5	1990	"
21	01-01-2010	363.29	02:33	20:13	00:47		21:00	3.3	850	"
22	01-01-2010	418.49	04:13	17:48	01:04		18:52	3.2	1680	"
23	01-01-2010			24:00			24:00			"
24	01-01-2010	410.10	02:01	15:05	00:19		15:24	3.0	770	"
25	01-01-2010	346.64	06:29	18:42	00:24	00:18	17:07	3.2	1940	"
26	01-01-2010	349.02	06:51	6:13	00:48	00:08	17:09	3.4	2260	"
27	01-01-2010	464.99	02:05	20:21	00:21	00:18	21:18	2.2	810	"
28	01-01-2010	393.88	08:27	17:59	00:39		18:33	3.0	1910	"
29	01-01-2010	482.16	02:43	17:41	00:05		18:46	3.0	1690	"
30	01-01-2010	398.13	04:04	16:41	02:55		19:36	3.1	1510	"
31	01-01-2010	376.66	01:51	17:04	01:59		19:03	3.2	620	"

Diff



Sone Link Canal HYDROELECTRIC PROJECT Agamgarh UNIT NO. I

NUMBERS OF UNITS 2

TOTAL CAPACITY 2X500 KW

Sl.No	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clean	Total Outag. Hrs.	Head	Daily Generation	As per design Generation
1	01-02-2010	452.35	03:11	18:01	02:48		20:49	3.0	1200	12000
2	02-02-2010									"
3	03-02-2010	296.61	01:17	19:11	03:32		22:43	3.6	380	"
4	04-02-2010									"
5	05-02-2010	307.56	01:38	19:42	01:27		21:09	3.3	460	"
6	06-02-2010	314.01	00:21	21:54	01:49		23:43	3.6	110	"
7	07-02-2010									"
8	08-02-2010	374.63	02:24	17:08	04:28		21:36	3.2	680	"
9	09-02-2010	300.58	00:52	16:30	06:38		23:08	3.2	230	"
10	10-02-2010	404.64	01:50	13:34	08:36		22:10	3.4	700	"
11	11-02-2010	371.45	04:54	16:35	02:31		19:06	3.3	1670	"
12	12-02-2010	393.88	00:42	16:01	08:08		16:09	3.0	230	"
13	13-02-2010		00:49	07:49	01:24		09:13	-	620	"
14	14-02-2010	361.63	03:25	17:18	03:19		20:37	3.5	1200	"
15	15-02-2010	347.53	00:14	19:47	03:15		23:02	3.6	80	"
16	16-02-2010	370.52	05:28	17:41	00:51		18:32	3.2	1800	"
17	17-02-2010	438.14	02:22	21:31	00:07		21:38	3.2	920	"
18	18-02-2010	390.85	01:27	17:46	04:47		22:33	3.3	520	"
19	19-02-2010									
20	20-02-2010									
21	21-02-2010									
22	22-02-2010									
23	23-02-2010									
24	24-02-2010									
25	25-02-2010									
26	26-02-2010									
27	27-02-2010									
28	28-02-2010									
29										
30										
31										

High



Sane Link Canal

HYDROELECTRIC PROJECT Aganv

UNIT NO. II

NUMBERS OF UNITS 2

TOTAL CAPACITY 2x500 KW

Sl.No	Date	Discharge from Power House	Running Hrs.	Grid Fail	Blocked down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
1	01-02-2010	379.98	02:39	18:01	03:20		21:21	3.0	840	12000
2	02-02-2010	318.09	03:43	14:07	06:07		20:14	3.2	1050	"
3	03-02-2010	317.26	02:07	19:11	02:42		21:53	3.6	670	"
4	04-02-2010	367.96	05:05	18:00	00:55		18:55	3.5	1820	"
5	05-02-2010	566.99	01:44	19:42	01:21		21:03	3.3	900	"
6	06-02-2010	386.76	01:33	21:54	00:42		22:36	3.6	600	"
7	07-02-2010	418.94	04:24	18:43	00:53		19:36	3.4	1600	"
8	08-02-2010	432.65	04:39	17:08	02:13		19:21	3.2	1790	"
9	09-02-2010	404.61	05:15	16:30	02:15		18:45	3.2	1890	"
10	10-02-2010	370.45	08:07	13:34	02:19		15:53	3.4	2840	"
11	11-02-2010	370.44	03:34	16:35	03:51		20:26	3.3	1210	"
12	12-02-2010	290.61	00:20	16:01	00:30		16:31	3.0	80	"
13	13-02-2010		00:56	07:49	01:17		09:06	-	300	"
14	14-02-2010	404.46	04:59	17:18	01:41		18:59	3.5	1960	"
15	15-02-2010	433.52	02:57	19:47	00:32		20:19	3.6	1280	"
16	16-02-2010	435.46	02:43	17:41	03:36		21:17	3.2	1050	"
17	17-02-2010	244.33	00:14	21:31	02:15		23:46	3.2	50	"
18	18-02-2010	361.21	03:30	17:46	02:44		20:30	3.3	1160	"
19	19-02-2010	315.15	01:51	18:30	05:39		22:09	2.9	470	"
20	20-02-2010	296.92	01:53	19:08	02:59		22:07	2.9	450	"
21	21-02-2010	321.19	00:48	20:07	03:05		23:12	2.8	200	"
22	22-02-2010									
23	23-02-2010									
24	24-02-2010									
25	25-02-2010									
26	26-02-2010									
27	27-02-2010									
28	28-02-2010									
29										
30										
31										

dib



See Link Panel

NUMBERS OF UNITS 2

HYDROELECTRIC PROJECT Aganota

UNIT NO. I

TOTAL CAPACITY 2X500 KW

Sl. No	Date	Discharge from Power House	Running Hrs.	Grid Fail	Blocked down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
1	01-03-2010	267.55	00:31	17:47	05:24	00:18	23:29	2.9	110	12000
2	02-03-2010	324.84	00:15	21:24	01:53		23:17	3.1	70	"
3	03-03-2010									
4	04-03-2010									
5	05-03-2010	363.72	02:17	18:54	02:49		21:43	3.6	830	"
6	06-03-2010	336.44	02:18	17:42	03:44	00:15	21:41	3.3	710	"
7	07-03-2010	387.65	00:10	19:34	04:16		23:50	2.9	50	"
8	08-03-2010	317.56	01:15	19:21	02:50	00:34	22:45	2.9	320	"
9	09-03-2010									
10	10-03-2010									
11	11-03-2010									
12	12-03-2010									
13	13-03-2010									
14	14-03-2010									
15	15-03-2010									
16	16-03-2010									
17	17-03-2010									
18	18-03-2010	258.63	00:44	22:32	00:34	00:10	23:16	4.0	210	"
19	19-03-2010	440.42	01:13	21:21	01:26		22:47	2.7	400	"
20	20-03-2010	347.04	02:32	15:10	05:53	00:25	21:28	3.4	830	"
21	21-03-2010	297.44	01:19	20:33	02:08		22:41	3.6	390	"
22	22-03-2010	435.17	02:47	16:47	03:46	00:32	21:05	3.3	1110	"
23	23-03-2010	372.69	02:14	21:01	00:35	00:10	21:46	2.9	670	"
24	24-03-2010	260.46	02:16	19:21	01:56	00:27	21:44	3.3	540	"
25	25-03-2010									
26	26-03-2010									
27	27-03-2010									
28	28-03-2010									
29	29-03-2010									
30	30-03-2010									
31	31-03-2010									



Same Link Canal

HYDROELECTRIC PROJECT

Aganoor

UNIT NO. II

NUMBERS OF UNITS.....

2

TOTAL CAPACITY 2x500KW

Sl.No	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
1	01-03-2010	287.97	01:41	17:47	04:32	01:02	22:19	2.9	390	12000
2	02-03-2010	215.83	00:26	21:24	01:42		23:08	3.1	80	"
3	03-03-2010	287.26	01:03	13:43	08:39	01:35	22:57	3.1	260	"
4	04-03-2010	357.00	00:54	19:10	03:56		23:06	3.2	270	"
5	05-03-2010	234.74	01:50	18:54	02:42	00:35	22:10	3.6	430	"
6	06-03-2010	361.02	02:05	17:42	03:42	00:31	21:55	3.3	690	"
7	07-03-2010									"
8	08-03-2010	316.20	00:31	19:21	04:08		23:29	2.9	130	"
9	09-03-2010									
10	10-03-2010									
11	11-03-2010									
12	12-03-2010									
13	13-03-2010									
14	14-03-2010									
15	15-03-2010									
16	16-03-2010									
17	17-03-2010	288.23	00:10	19:11	04:39		23:50	3.9	50	"
18	18-03-2010	138.31	00:08	22:32	00:30	00:50	23:52	4.0	20	"
19	19-03-2010	410.71	01:20	21:21	01:00	00:19	22:40	2.7	410	"
20	20-03-2010	388.42	01:17	15:10	07:08	00:25	22:43	3.5	470	"
21	21-03-2010	324.18	01:53	20:33	01:34		22:07	3.6	610	"
22	22-03-2010	332.73	03:13	16:47	01:45	02:07	20:39	3.3	980	"
23	23-03-2010	297.80	01:05	21:01	01:54		22:55	2.9	260	"
24	24-03-2010	333.01	00:22	19:21	04:17		23:38	3.3	110	"
25	25-03-2010									
26	26-03-2010									
27	27-03-2010									
28	28-03-2010									
29	29-03-2010									
30	30-03-2010									
31	31-03-2010									

dip



SONE EASTERN CANAL.....HYDROELECTRIC PROJECT.....BARUN.....UNIT NO. V and VI  
 NUMBERS OF UNITS.....Two.....TOTAL CAPACITY.....221.65 MW

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.4.2009	NIL	NIL	NIL	NIL		NIL	NIL	NIL	39600 kWh
02	02.4.2009	"	"	"	"		"	"	"	"
03	03.4.2009	"	"	"	"		"	"	"	"
04	04.4.2009	"	"	"	"		"	"	"	"
05	05.4.2009	"	"	"	"		"	"	"	"
06	06.4.2009	"	"	"	"		"	"	"	"
07	07.4.2009	"	"	"	"		"	"	"	"
08	08.4.2009	"	"	"	"		"	"	"	"
09	09.4.2009	"	"	"	"		"	"	"	"
10	10.4.2009	"	"	"	"		"	"	"	"
11	11.4.2009	"	"	"	"		"	"	"	"
12	12.4.2009	"	"	"	"		"	"	"	"
13	13.4.2009	"	"	"	"		"	"	"	"
14	14.4.2009	"	"	"	"		"	"	"	"
15	15.4.2009	"	"	"	"		"	"	"	"
16	16.4.2009	"	"	"	"		"	"	"	"
17	17.4.2009	"	"	"	"		"	"	"	"
18	18.4.2009	"	"	"	"		"	"	"	"
19	19.4.2009	"	"	"	"		"	"	"	"
20	20.4.2009	"	"	"	"		"	"	"	"
21	21.4.2009	"	"	"	"		"	"	"	"
22	22.4.2009	"	"	"	"		"	"	"	"
23	23.4.2009	"	"	"	"		"	"	"	"
24	24.4.2009	"	"	"	"		"	"	"	"
25	25.4.2009	"	"	"	"		"	"	"	"
26	26.4.2009	"	"	"	"		"	"	"	"
27	27.4.2009	"	"	"	"		"	"	"	"
28	28.4.2009	"	"	"	"		"	"	"	"
29	29.4.2009	"	"	"	"		"	"	"	"
30	30.4.2009	"	"	"	"		"	"	"	"
31										

dis



ZONE EASTERN LINK CANAL.....HYDROELECTRIC PROJECT.: BARUN.....UNIT NO. V  
 NUMBERS OF UNITS. TWO.....TOTAL CAPACITY. (2x1.65 MW)

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.5.2009	NIL	NIL	NIL	NIL		NIL	NIL	NIL	39600 KWH
02	02.5.2009	NIL	NIL	NIL	NIL		"	NIL	NIL	"
03	03.5.2009	NIL	NIL	NIL	NIL		"	NIL	NIL	"
04	04.5.2009	NIL	NIL	NIL	NIL		"	NIL	NIL	"
05	05.5.2009	NIL	NIL	NIL	NIL		"	NIL	NIL	"
06	06.5.2009	NIL	NIL	NIL	NIL		"	NIL	NIL	"
07	07.5.2009	NIL	NIL	NIL	NIL		"	NIL	NIL	"
08	08.5.2009	NIL	NIL	NIL	NIL		"	NIL	NIL	"
09	09.5.2009	NIL	NIL	NIL	NIL		"	NIL	NIL	"
10	10.5.2009	NIL	NIL	NIL	NIL		"	NIL	NIL	"
11	11.5.2009	NIL	NIL	NIL	NIL		"	NIL	NIL	"
12	12.5.2009	NIL	NIL	NIL	NIL		"	NIL	NIL	"
13	13.5.2009	NIL	NIL	NIL	NIL		"	NIL	NIL	"
14	14.5.2009	NIL	NIL	NIL	NIL		"	NIL	NIL	"
15	15.5.2009	NIL	NIL	NIL	NIL		"	NIL	NIL	"
16	16.5.2009	NIL	NIL	NIL	NIL		"	NIL	NIL	"
17	17.5.2009	NIL	NIL	NIL	NIL		"	NIL	NIL	"
18	18.5.2009	NIL	NIL	NIL	NIL		"	NIL	NIL	"
19	19.5.2009	NIL	NIL	NIL	NIL		"	NIL	NIL	"
20	20.5.2009	NIL	NIL	NIL	NIL		"	NIL	NIL	"
21	21.5.2009	500 cusec.	02:30	NIL	NIL		"	4.70	1900 KWH	39600 KWH
22	22.5.2009	500 cusec	01:00	NIL	NIL		"	4.95	500 KWH	"
23	23.5.2009	500 cusec	04:05	NIL	NIL		"	4.85	2400 KWH	"
24	24.5.2009	NIL	NIL	NIL	NIL		"	NIL	NIL KWH	"
25	25.5.2009	NIL	NIL	NIL	NIL		"	NIL	NIL KWH	"
26	26.5.2009	500 cusec	04:05	NIL	NIL		"	4.10	2,500 KWH	"
27	27.5.2009	500 cusec	05:15	NIL	NIL		"	4.10	3,200 KWH	"
28	28.5.2009	500 cusec	01:45	NIL	NIL		"	4.00	900 KWH	"
29	29.5.2009	500 cusec	01:35	NIL	NIL		"	3.70	1000 KWH	"
30	30.5.2009	500 cusec	03:15	NIL	NIL		"	3.80	1900 KWH	"
31	31.5.2009	500 cusec	06:35	NIL	NIL		"	4.25	3000 KWH	"

*deh*



SONF EASTERN LINK CANAL

HYDROELECTRIC PROJECT 6.9 RUN

UNIT NO V

NUMBERS OF UNITS TWO

TOTAL CAPACITY 2x1.65 MW

Sl No.	Date	Discharge from Power House	Running Hrs	Grid Fail	Blocked down Machine	Trash rack clean	Total Output Hrs	Head	Daily Generation M.U.	As per design Generation
01	01.5.2009		Nil						M.U.	3460 KWH
02	25.2009									
03	3.5.2009									
04	4.5.2009									
05	5.5.2009									
06	6.5.2009									
07	7.5.2009									
08	8.5.2009									
09	9.5.2009									
10	10.5.2009									
11	11.5.2009									
12	12.5.2009									
13	13.5.2009									
14	14.5.2009									
15	15.5.2009									
16	16.5.2009									
17	17.5.2009									
18	18.5.2009									
19	19.5.2009									
20	20.5.2009									
21	21.5.2009									
22	22.5.2009									
23	23.5.2009									
24	24.5.2009									
25	25.5.2009									
26	26.5.2009									
27	27.5.2009									
28	28.5.2009									
29	29.5.2009									
30	30.5.2009									
31	31.5.2009									

*[Signature]*

STONE EASTERN LINK CANAL  
 NUMBERS OF UNITS TWO  
 HYDROELECTRIC PROJECT  
 TOTAL CAPACITY 871.65 MW  
 UNIT NO. V and VI

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clean	Total Outage Hrs.	Head	Both Total Generation	As per design Generation
01	01.6.2009									
02	02.6.2009		"							39600 kw
03	03.6.2009		"							"
04	04.6.2009		"							"
05	05.6.2009		"							"
06	06.6.2009		"							"
07	07.6.2009		"							"
08	08.6.2009		"							"
09	09.6.2009		"							"
10	10.6.2009		"							"
11	11.6.2009		"							"
12	12.6.2009		"							"
13	13.6.2009		"							"
14	14.6.2009		"							"
15	15.6.2009		"							"
16	16.6.2009		"							"
17	17.6.2009		"							"
18	18.6.2009		"							"
19	19.6.2009		"							"
20	20.6.2009		"							"
21	21.6.2009		"							"
22	22.6.2009		"							"
23	23.6.2009		"							"
24	24.6.2009		"							"
25	25.6.2009		"							"
26	26.6.2009		"							"
27	27.6.2009		"							"
28	28.6.2009		"							"
29	29.6.2009		"							"
30	30.6.2009		"							"
31										"

76,900 KW

*[Signature]*



...SONE EASTERN LINK CANAL...

...HYDROELECTRIC PROJECT...BARUN...

...UNIT NO. V and VI...

NUMBERS OF UNITS...Two...

...TOTAL CAPACITY...2x1.65 MW...

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Total Generation <i>dis</i>	As per design Generation
01	01.6.2009									
02	02.6.2009		h							39600 kWh
03	3.6.2009		"							"
04	4.6.2009		"							"
05	5.6.2009		"							"
06	6.6.2009		"							"
07	7.6.2009		"							"
08	8.6.2009		"							"
09	9.6.2009		"							"
10	10.6.2009		"							"
11	11.6.2009		"							"
12	12.6.2009		"							"
13	13.6.2009		"							"
14	14.6.2009		"							"
15	15.6.2009		"							"
16	16.6.2009		"							"
17	17.6.2009		"							"
18	18.6.2009		"							"
19	19.6.2009		"							"
20	20.6.2009		"							"
21	21.6.2009		"							"
22	22.6.2009		"							"
23	23.6.2009		"							"
24	24.6.2009		"							"
25	25.6.2009		"							"
26	26.6.2009		"							"
27	27.6.2009		"							"
28	28.6.2009		"							"
29	29.6.2009		"							"
30	30.6.2009		"							"
31										

*dis*



SOME EASTERN LINK CANAL

HYDROELECTRIC PROJECT

BARUN

UNIT NO.

T

NUMBERS OF UNITS

120

TOTAL CAPACITY

2X1.65 MW

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.7.2009	850 cumec	23:13	00.47	NIL		0.47	5.45	19500 kWh	39600 kWh
02	02.7.2009	700 cumec	22:51	01.09	NIL		01.09	5.15	16300 kWh	"
03	03.7.2009	1150 cumec	18:58	05.02	NIL		5.02	5.30	21700 kWh	"
04	04.7.2009	1400 cumec	20:55	03.05	NIL		3.05	5.50	29800 kWh	"
05	05.7.2009	1650 cumec	22:39	01.21	NIL		1.21	5.20	39000 kWh	"
06	06.7.2009	1500 cumec	18:38	05.22	NIL		5.22	5.30	33800 kWh	"
07	07.7.2009	1250 cumec	21:43	02.17	NIL		2.17	5.40	38400 kWh	"
08	08.7.2009	1650 cumec	20:16	03.44	NIL		3.44	5.75	40400 kWh	"
09	09.7.2009	1650 cumec	22:24	01:36	NIL		1:36	5.45	41100 kWh	"
10	10.7.2009	2300 cumec	22:37	01:23	NIL		1:23	4.80	40600 kWh	"
11	11.7.2009	2300 cumec	14:17	09:43	NIL		9:43	4.65	27700 kWh	"
12	12.7.2009	2100	22:23	02:37	NIL		2:37	4.55	39100 kWh	"
13	13.7.2009	2700	14:21	2.01	07:38		9:39	4.75	24200 kWh	"
14	14.7.2009	2700	12:30	00:24	11:06		11:30	5.00	21000 kWh	"
15	15.7.2009	2700	10:57	1:19	11:44		13:03	4.75	18200 kWh	"
16	16.7.2009	2700	22:42	1:18	NIL		1:18	4.65	39200 kWh	"
17	17.7.2009	2700	22:08	1:52	NIL		1:52	4.10	40000 kWh	"
18	18.7.2009	2700	22:17	1:43	NIL		1:43	4.10	39500 kWh	"
19	19.7.2009	2700	22:19	1:41	NIL		1:41	4.65	39400 kWh	"
20	20.7.2009	2700	21:17	2:43	NIL		2:43	4.20	37400 kWh	"
21	21.7.2009	2700	21:24	2:36	NIL		2:36	4.65	37000 kWh	"
22	22.7.2009	2700	22:20	1:40	NIL		1:40	5.10	42500 kWh	"
23	23.7.2009	1650	22:20	1:56	NIL		1:56	4.45	42500 kWh	"
24	24.7.2009	1650	22:20	1:40	NIL		1:40	4.50	40900 kWh	"
25	25.7.2009	1650	21:38	2:22	NIL		2:22	4.40	41600 kWh	"
26	26.7.2009	1650	17:44	6:16	NIL		6:16	4.40	33000 kWh	"
27	27.7.2009	1650	22:30	1:30	NIL		1:30	4.45	42500 kWh	"
28	28.7.2009	1650	21:59	2:01	NIL		2:01	4.45	42500 kWh	"
29	29.7.2009	1650	20:46	3:14	NIL		3:14	4.55	39500 kWh	"
30	30.7.2009	1650	22:43	1:17	NIL		1:17	4.55	42200 kWh	"
31	31.7.2009	1650	19:58	4:02	NIL		4:02	4.55	36100 kWh	"



SOME EASTERN LINK CANAL..... HYDROELECTRIC PROJECT..... GARUN..... UNIT NO. VI  
 NUMBERS OF UNITS..... Two..... TOTAL CAPACITY..... 2x1.65 MW

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Backed down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.7.2009	850 cusec	NIL	00.47	NIL		0.47	5.45	NIL	39600 kWh
02	02.7.2009	700	NIL	01.09	NIL		1.09	5.15	NIL	"
03	03.7.2009	1150	NIL	05.02	NIL		5.02	5.30	NIL	"
04	04.7.2009	1400	NIL	03.05	NIL		3.05	5.50	NIL	"
05	05.7.2009	1650	NIL	01.21	NIL		1.21	5.20	NIL	"
06	06.7.2009	1500	5.02	05.22	NIL		5.22	5.30	2700 kWh	"
07	07.7.2009	1250	14.54	02.17	NIL		2.17	5.40	6800 kWh	"
08	08.7.2009	1650	NIL	03.44	NIL		3.44	5.75	NIL	"
09	09.7.2009	1650	00.55	01.36	NIL		1.36	5.45	300 kWh	"
10	10.7.2009	2300	11.57	01.23	NIL		1.23	4.80	7800 kWh	"
11	11.7.2009	2300	05.08	09.43	NIL		4.43	4.65	4500 kWh	"
12	12.7.2009	2100	07.53	02.37	NIL		2.37	4.55	4300 kWh	"
13	13.7.2009	2700	15.22	2.01	NIL		2.01	4.75	15800 kWh	"
14	14.7.2009	2700	20.44	0.24	NIL		0.24	5.00	21400 kWh	"
15	15.7.2009	2700	21.13	1.19	NIL		1.19	4.75	28400 kWh	"
16	16.7.2009	2700	20.58	1.18	NIL		1.18	4.65	19400 kWh	"
17	17.7.2009	2700	21.21	1.52	NIL		1.52	4.10	20300 kWh	"
18	18.7.2009	2700	21.42	1.43	NIL		1.43	4.10	21100 kWh	"
19	19.7.2009	2700	18.22	1.41	4.00		5.41	4.65	19800 kWh	"
20	20.7.2009	2700	20.48	2.43	1.35		4.18	4.20	18500 kWh	"
21	21.7.2009	2700	17.08	2.36	5.00		7.36	4.65	14400 kWh	"
22	22.7.2009	2700	14.10	1.40	5.58		7.38	5.10	13500 kWh	"
23	23.7.2009	1650	NIL	1.56	24.00		24.00	4.45	NIL	"
24	24.7.2009	1650	NIL	1.40	24.00		24.00	4.40	NIL	"
25	25.7.2009	1650	NIL	2.22	24.00		24.00	4.40	NIL	"
26	26.7.2009	1650	NIL	6.16	24.00		24.00	4.40	NIL	"
27	27.7.2009	1650	NIL	1.30	24.00		24.00	4.45	NIL	"
28	28.7.2009	1650	NIL	2.01	24.00		24.00	4.45	NIL	"
29	29.7.2009	1650	NIL	3.14	24.00		24.00	4.55	NIL	"
30	30.7.2009	1650	NIL	1.17	24.00		24.00	4.55	NIL	"
31	31.7.2009	1650	NIL	4.02	24.00		24.00	4.55	NIL	"

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SOME EASTERN LINK CANAL..... HYDROELECTRIC PROJECT..... AARON..... UNIT NO. 1  
 NUMBERS OF UNITS..... TWO..... TOTAL CAPACITY..... 871.65 MW.....

SL No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.8.2009	1650 cumec	21.45	2.15	NIL		2.15	4.75	41300 kWh	39600 kWh
02	02.8.2009	1650	24.23	1.37	NIL		1.37	5.10	38700 kWh	
03	03.8.2009	1650	22.07	1.53	NIL		1.53	5.00	36200 kWh	
04	04.8.2009	1650	19.56	4.04	NIL		4.04	4.80	38200 kWh	
05	05.8.2009	1650	17.03	6.57	NIL		6.57	4.75	30300 kWh	
06	06.8.2009	1650	20.44	3.16	NIL		3.16	4.70	38000 kWh	
07	07.8.2009	1650	22.41	1.19	NIL		1.19	4.65	42200 kWh	
08	08.8.2009	1650	05.54	6.00	NIL		6.00	4.70	11800 kWh	
09	09.8.2009	NIL	NIL	NIL	NIL		NIL	NIL	NIL	
10	10.8.2009	NIL	NIL	NIL	NIL		"	NIL	NIL	
11	11.8.2009	NIL	NIL	NIL	NIL		"	NIL	NIL	
12	12.8.2009	NIL	NIL	NIL	NIL		"	NIL	NIL	
13	13.8.2009	1650	15.36	1.59	NIL		1.59	4.50	28400 kWh	
14	14.8.2009	1650	22.42	1.18	NIL		1.18	5.00	42500 kWh	
15	15.8.2009	1650	21.45	2.15	NIL		2.15	4.45	42500 kWh	
16	16.8.2009	1650	22.35	1.25	NIL		1.25	4.85	42800 kWh	
17	17.8.2009	1650	22.33	1.27	NIL		1.27	4.55	42600 kWh	
18	18.8.2009	1650	22.37	2.23	NIL		2.23	4.53	40100 kWh	
19	19.8.2009	1650	20.35	3.25	NIL		3.25	4.45	40800 kWh	
20	20.8.2009	1650	08.18	0.12	NIL		0.12	3.80	14900 kWh	
21	21.8.2009	1650	22.03	1.57	NIL		1.57	4.60	42600 kWh	
22	22.8.2009	1650	21.26	2.31	NIL		2.31	4.40	41700 kWh	
23	23.8.2009	1650	22.33	1.27	NIL		1.27	4.35	42800 kWh	
24	24.8.2009	1650	22.06	1.51	NIL		1.51	4.50	42600 kWh	
25	25.8.2009	1650	20.16	3.11	NIL		3.11	4.50	35500 kWh	
26	26.8.2009	1650	20.48	3.12	NIL		3.12	4.50	39500 kWh	
27	27.8.2009	1650	22.42	1.18	NIL		1.18	4.40	42400 kWh	
28	28.8.2009	1650	19.07	4.53	NIL		4.53	4.60	39100 kWh	
29	29.8.2009	1650	19.34	2.06	2.20		4.26	4.40	56600 kWh	
30	30.8.2009	1650	19.37	4.23	NIL		4.23	4.40	37000 kWh	
31	31.8.2009	1650	18.43	1.32	3.45		5.17	4.35	37000 kWh	

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SONE EASTERN LINK CANAL.....HYDROELECTRIC PROJECT.....BARUN.....UNIT NO.....V  
 NUMBERS OF UNITS.....TWO.....TOTAL CAPACITY.....2X1.65 MW

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.8.2009	1650 cusec	21.45	2.15	NIL		2.15	4.75	41300 kWh	39600 kWh
02	02.8.2009	1650	22.23	1.37	NIL		1.37	5.10	38700 kWh	"
03	03.8.2009	1650	22.07	1.53	NIL		1.53	5.00	36200 kWh	"
04	04.8.2009	1650	19.56	4.04	NIL		4.04	4.80	38200 kWh	"
05	05.8.2009	1650	17.03	6.57	NIL		6.57	4.75	30300 kWh	"
06	06.8.2009	1650	20.44	3.16	NIL		3.16	4.70	38000 kWh	"
07	07.8.2009	1650	22.41	1.19	NIL		1.19	4.65	42200 kWh	"
08	08.8.2009	1650	05.54	6.00	NIL		6.00	4.70	11800 kWh	"
09	09.8.2009	NIL	NIL	NIL	NIL		NIL	NIL	NIL	"
10	10.8.2009	NIL	NIL	NIL	NIL		"	NIL	NIL	"
11	11.8.2009	NIL	NIL	NIL	NIL		"	NIL	NIL	"
12	12.8.2009	NIL	NIL	NIL	NIL		"	NIL	NIL	"
13	13.8.2009	1650	15.36	1.59	NIL		1.59	4.50	28900 kWh	"
14	14.8.2009	1650	22.42	1.18	NIL		1.18	5.00	42500 kWh	"
15	15.8.2009	1650	21.45	2.15	NIL		2.15	4.45	42500 kWh	"
16	16.8.2009	1650	22.35	1.25	NIL		1.25	4.85	42800 kWh	"
17	17.8.2009	1650	22.33	1.27	NIL		1.27	4.55	42600 kWh	"
18	18.8.2009	1650	22.37	2.23	NIL		2.23	4.53	40100 kWh	"
19	19.8.2009	1650	20.35	3.25	NIL		3.25	4.45	40800 kWh	"
20	20.8.2009	1650	08.18	0.12	NIL		0.12	3.80	14900 kWh	"
21	21.8.2009	1650	22.03	1.57	NIL		1.57	4.60	42600 kWh	"
22	22.8.2009	1650	21.26	2.34	NIL		2.34	4.40	41700 kWh	"
23	23.8.2009	1650	22.33	1.27	NIL		1.27	4.35	42800 kWh	"
24	24.8.2009	1650	22.06	1.54	NIL		1.54	4.50	42600 kWh	"
25	25.8.2009	1650	20.16	3.44	NIL		3.44	4.50	35500 kWh	"
26	26.8.2009	1650	20.48	3.12	NIL		3.12	4.50	39500 kWh	"
27	27.8.2009	1650	22.42	1.18	NIL		1.18	4.40	42400 kWh	"
28	28.8.2009	1650	19.07	4.53	NIL		4.53	4.60	39100 kWh	"
29	29.8.2009	1650	19.34	2.06	2.20		4.26	4.40	36600 kWh	"
30	30.8.2009	1650	19.37	4.23	NIL		4.23	4.40	37000 kWh	"
31	31.8.2009	1650	18.43	1.32	3.45		5.17	4.35	37000 kWh	"

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..... SOME EASTERN LINK CANAL ..... HYDROELECTRIC PROJECT ..... BARUN ..... UNIT NO. 1

NUMBERS OF UNITS ..... TWO ..... TOTAL CAPACITY ..... 221.65 MW

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Banked down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.8.2009	1650	21.45	2.15	NIL		2.15	4.75	41300 kWh	39600 kWh
02	02.8.2009	1650	22.23	1.37	NIL		1.37	5.10	38700 kWh	"
03	03.8.2009	1650	22.07	1.53	NIL		1.53	5.00	36200 kWh	"
04	04.8.2009	1650	19.56	4.04	NIL		4.04	4.80	38200 kWh	"
05	05.8.2009	1650	17.03	6.57	NIL		6.57	4.75	30300 kWh	"
06	06.8.2009	1650	20.44	3.16	NIL		3.16	4.70	38000 kWh	"
07	07.8.2009	1650	22.41	1.14	NIL		1.14	4.65	42200 kWh	"
08	08.8.2009	1650	05.54	6.00	NIL		6.00	4.70	11800 kWh	"
09	09.8.2009	NIL	NIL	NIL	NIL		NIL	NIL	NIL	"
10	10.8.2009	NIL	NIL	NIL	NIL		"	NIL	NIL	"
11	11.8.2009	NIL	NIL	NIL	NIL		"	NIL	NIL	"
12	12.8.2009	NIL	NIL	NIL	NIL		"	NIL	NIL	"
13	13.8.2009	1650	15.36	1.59	NIL		1.59	4.50	28900 kWh	"
14	14.8.2009	1650	22.42	1.18	NIL		1.18	5.00	42500 kWh	"
15	15.8.2009	1650	21.45	2.15	NIL		2.15	4.45	42500 kWh	"
16	16.8.2009	1650	22.35	1.25	NIL		1.25	4.85	42800 kWh	"
17	17.8.2009	1650	22.33	1.27	NIL		1.27	4.55	42600 kWh	"
18	18.8.2009	1650	22.37	2.23	NIL		2.23	4.53	40100 kWh	"
19	19.8.2009	1650	20.35	3.25	NIL		3.25	4.45	40800 kWh	"
20	20.8.2009	1650	08.18	0.12	NIL		0.12	3.80	14900 kWh	"
21	21.8.2009	1650	22.03	1.57	NIL		1.57	4.60	42600 kWh	"
22	22.8.2009	1650	21.26	2.34	NIL		2.34	4.40	41700 kWh	"
23	23.8.2009	1650	22.33	1.27	NIL		1.27	4.35	42800 kWh	"
24	24.8.2009	1650	22.06	1.54	NIL		1.54	4.50	42600 kWh	"
25	25.8.2009	1650	20.16	3.44	NIL		3.44	4.50	35500 kWh	"
26	26.8.2009	1650	20.48	3.12	NIL		3.12	4.50	39500 kWh	"
27	27.8.2009	1650	22.42	1.18	NIL		1.18	4.40	42400 kWh	"
28	28.8.2009	1650	19.07	4.53	NIL		4.53	4.60	39100 kWh	"
29	29.8.2009	1650	19.34	2.06	2.20		4.26	4.40	36600 kWh	"
30	30.8.2009	1650	19.37	4.23	NIL		4.23	4.40	37000 kWh	"
31	31.8.2009	1650	18.43	1.32	3.45		5.17	4.35	37000 kWh	"

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SONE EASTERN LINK CANAL.....HYDROELECTRIC PROJECT.....BARUN.....UNIT NO. VI.....  
 NUMBERS OF UNITS.....Two.....TOTAL CAPACITY.....21.65 MW.....

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.8.2009	1650 cusec	NIL	NIL	24:00		24:00		NIL	39600 KWH
02	02.8.2009	1650	"	"	24:00		24:00		NIL	
03	03.8.2009	1650	"	"	24:00		24:00		"	
04	04.8.2009	1650	"	"	24:00		24:00		"	
05	05.8.2009	1650	"	"	24:00		24:00		"	
06	06.8.2009	1650	"	"	24:00		24:00		"	
07	07.8.2009	1650	"	"	24:00		24:00		"	
08	08.8.2009	1650	"	"	24:00		24:00		"	
09	09.8.2009	NIL	"	"	24:00		24:00		"	
10	10.8.2009	NIL	"	"	24:00		24:00		"	
11	11.8.2009	NIL	"	"	24:00		24:00		"	
12	12.8.2009	NIL	"	"	24:00		24:00		"	
13	13.8.2009	1650	"	"	24:00		24:00		"	
14	14.8.2009	1650	"	"	24:00		24:00		"	
15	15.8.2009	1650	"	"	24:00		24:00		"	
16	16.8.2009	1650	"	"	24:00		24:00		"	
17	17.8.2009	1650	"	"	24:00		24:00		"	
18	18.8.2009	1650	"	"	24:00		24:00		"	
19	19.8.2009	1650	"	"	24:00		24:00		"	
20	20.8.2009	1650	"	"	24:00		24:00		"	
21	21.8.2009	1650	"	"	24:00		24:00		"	
22	22.8.2009	1650	"	"	24:00		24:00		"	
23	23.8.2009	1650	"	"	24:00		24:00		"	
24	24.8.2009	1650	"	"	24:00		24:00		"	
25	25.8.2009	1650	"	"	24:00		24:00		"	
26	26.8.2009	1650	"	"	24:00		24:00		"	
27	27.8.2009	1650	"	"	24:00		24:00		"	
28	28.8.2009	1650	"	"	24:00		24:00		"	
29	29.8.2009	1650	"	"	24:00		24:00		"	
30	30.8.2009	1650	"	"	24:00		24:00		"	
31	31.8.2009	1650	"	"	24:00		24:00		"	

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CONCRETE EASTERN LINK CANAL HYDROELECTRIC PROJECT A.A.R.V.N UNIT NO. 7  
 NUMBERS OF UNITS TWO TOTAL CAPACITY 22.165 MW

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Banked down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.9.2009	1650	21.17	02.13	NIL		2.13	4.35	40000 kWh	39600 kWh
02	02.9.2009	1650	20.46	03.14	NIL		3.14	4.40	39600 kWh	"
03	03.9.2009	1650	22.11	01.49	NIL		1.49	4.40	40900 kWh	"
04	04.9.2009	1650	20.38	03.22	NIL		3.22	4.40	39000 kWh	"
05	05.9.2009	1650	21.53	02.07	NIL		2.07	4.35	39400 kWh	"
06	06.9.2009	1650	22.04	01.56	NIL		1.56	4.40	39100 kWh	"
07	07.9.2009	1650	05.11	18.49	NIL		18.49	4.35	11000 kWh	"
08	08.9.2009	1650	12.03	01.16	1.51		3.07	4.35	21700 kWh	"
09	09.9.2009	1650	10.34	03.36	NIL		3.36	4.85	19200 kWh	"
10	10.9.2009	1650	20.34	03.21	NIL		3.21	4.10	29600 kWh	"
11	11.9.2009	1650	22.20	01.40	NIL		1.40	4.50	35000 kWh	"
12	12.9.2009	1750	22.17	01.43	NIL		1.43	4.55	41900 kWh	"
13	13.9.2009	1650	21.26	02.34	NIL		2.34	4.70	40000 kWh	"
14	14.9.2009	1650	21.19	02.41	NIL		2.41	4.85	40300 kWh	"
15	15.9.2009	1650	22.22	01.28	NIL		1.28	4.60	42200 kWh	"
16	16.9.2009	1750	22.50	01.10	NIL		1.10	4.45	41000 kWh	"
17	17.9.2009	2850	21.44	02.14	NIL		2.14	4.35	40700 kWh	"
18	18.9.2009	2850	22.10	01.50	NIL		1.50	4.40	40000 kWh	"
19	19.9.2009	2850	22.03	01.57	NIL		1.57	4.35	40200 kWh	"
20	20.9.2009	1750	22.03	01.57	NIL		1.57	4.53	39300 kWh	"
21	21.9.2009	1750	22.17	01.43	NIL		1.43	4.75	40000 kWh	"
22	22.9.2009	2350	22.35	01.25	NIL		1.25	4.70	40200 kWh	"
23	23.9.2009	1750	22.21	01.29	NIL		1.29	4.45	42800 kWh	"
24	24.9.2009	2350	19.44	04.16	NIL		4.16	4.15	36300 kWh	"
25	25.9.2009	2350	22.32	01.28	NIL		1.28	4.80	43300 kWh	"
26	26.9.2009	2350	21.52	02.08	NIL		2.08	4.45	38100 kWh	"
27	27.9.2009	2350	19.35	04.25	NIL		4.25	4.55	39500 kWh	"
28	28.9.2009	2550	21.47	02.13	NIL		2.13	4.75	41100 kWh	"
29	29.9.2009	1650	20.38	03.22	NIL		3.22	4.90	40000 kWh	"
30	30.9.2009	1650	22.16	01.44	NIL		1.44	5.00	42200 kWh	"
31										



SONE EASTERN LINK CANAL.....HYDROELECTRIC PROJECT.....BARUN.....UNIT NO.....VI.....  
 NUMBERS OF UNITS.....TWO.....TOTAL CAPACITY.....2X1.65 MW.....

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.9.2009	1650 cusec	NIL	NIL	24.00		24.00	4.35	NIL	39600 kWh
02	02.9.2009	1650	NIL	NIL	24.00		24.00	4.40	NIL	"
03	03.9.2009	1650	NIL	NIL	24.00		24.00	4.40	NIL	"
04	04.9.2009	1650	NIL	NIL	24.00		24.00	4.40	NIL	"
05	05.9.2009	1650	NIL	NIL	24.00		24.00	4.35	NIL	"
06	06.9.2009	1650	NIL	NIL	24.00		24.00	4.40	NIL	"
07	07.9.2009	1650	NIL	NIL	24.00		24.00	4.35	NIL	"
08	08.9.2009	1650	NIL	NIL	24.00		24.00	4.35	NIL	"
09	09.9.2009	1650	0.40	NIL	23.20		23.20	4.85	800 kWh	"
10	10.9.2009	1650	NIL	NIL	24.00		24.00	4.10	NIL	"
11	11.9.2009	1650 cusec	NIL	NIL	24.00		24.00	4.50	NIL	"
12	12.9.2009	1750	08.40	01.11	14.09		75.20	4.55	8,800 kWh	"
13	13.9.2009	1650	NIL	NIL	24.00		24.00	4.70	NIL	"
14	14.9.2009	1650	NIL	NIL	24.00		24.00	4.85	NIL	"
15	15.9.2009	1650	NIL	NIL	24.00		24.00	4.60	NIL	"
16	16.9.2009	1750	04.14	00.11	19.35		19.46	4.45	5000 kWh	"
17	17.9.2009	2850	20.26	03.34	NIL		3.34	4.35	23500 kWh	"
18	18.9.2009	2850	21.23	02.37	NIL		2.37	4.40	27600 kWh	"
19	19.9.2009	2850	21.40	02.20	NIL		2.20	4.35	27000 kWh	"
20	20.9.2009	1750	16.43	02.42	NIL		2.42	4.53	16400 kWh	"
21	21.9.2009	1750	16.56	01.44	NIL		1.44	4.75	16000 kWh	"
22	22.9.2009	2350	20.26	01.24	NIL		1.24	4.70	13300 kWh	"
23	23.9.2009	1750	05.37	00.23	NIL		0.23	4.95	3000 kWh	"
24	24.9.2009	2350	05.14	01.26	NIL		1.26	4.15	3000 kWh	"
25	25.9.2009	2350	15.18	01.12	NIL		1.12	4.80	9400 kWh	"
26	26.9.2009	2350	13.16	02.17	NIL		2.17	4.95	9000 kWh	"
27	27.9.2009	2350	09.25	00.15	02.35		0.15	4.55	9300 kWh	"
28	28.9.2009	2550	07.12	00.53	15.55		0.53	4.75	8500 kWh	"
29	29.9.2009	1650	NIL	NIL	24.00		NIL	4.90	NIL	"
30	30.9.2009	1650	NIL	NIL	NIL		NIL	5.00	NIL	"
31										

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SONE EASTERN BANK CANAL.....HYDROELECTRIC PROJECT.....BARRON.....UNIT NO.....V  
 NUMBERS OF UNITS.....TWO.....TOTAL CAPACITY.....2 x 1.65 MW

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.10.2009	1650 cusec	16.56	1.34	NIL		1.34	5.50	20600 kwh	29600 kwh
02	02.10.2009	2300	18.11	2.54	02.55		5.49	5.40	25500 kwh	"
03	03.10.2009	2300	18.17	3.13	02.30		5.43	4.95	24100	"
04	04.10.2009	2300	20.53	3.07	NIL		3.07	5.15	39500	"
05	05.10.2009	2300	06.20	17.40	NIL		17.40	5.35	14000	"
06	06.10.2009	2500	20.55	3.05	NIL		3.05	4.65	39000	"
07	07.10.2009	3000	21.29	2.31	NIL		2.31	4.35	41600	"
08	08.10.2009	3200	07.34	0.02	16.24		16.26	4.85	13800	"
09	09.10.2009	3200	08.31	0.54	14.35		15.29	4.40	15500	"
10	10.10.2009	3200	18.55	2.05	NIL		2.05	4.20	35400	"
11	11.10.2009	3200	11.56	1.26	NIL		1.26	4.55	17000	"
12	12.10.2009	3200	21.59	2.01	NIL		2.01	4.35	41600	"
13	13.10.2009	3200	21.55	2.05	NIL		2.05	4.40	42000	"
14	14.10.2009	3200	22.04	1.56	NIL		1.56	4.53	41800	"
15	15.10.2009	3200	22.47	1.13	NIL		1.13	5.05	41800	"
16	16.10.2009	3200	21.36	2.24	NIL		2.24	4.45	42000	"
17	17.10.2009	3200	21.21	2.39	NIL		2.39	4.65	40000	"
18	18.10.2009	3200	22.07	1.53	NIL		1.53	4.25	41500	"
19	19.10.2009	3200	22.19	1.41	NIL		1.41	4.30	41900	"
20	20.10.2009	3200	20.43	3.17	NIL		3.17	4.20	37600	"
21	21.10.2009	3200	21.05	2.55	NIL		2.55	4.10	41500	"
22	22.10.2009	2800	22.47	1.13	NIL		1.13	4.40	38200	"
23	23.10.2009	2400	21.58	2.02	NIL		2.02	5.15	42800	"
24	24.10.2009	2400	22.07	1.53	NIL		1.53	4.45	40000	"
25	25.10.2009	1000	14.31	0.29	NIL		0.29	5.10	14400	"
26	26.10.2009	600	NIL	NIL	NIL		NIL	5.10	NIL	"
27	27.10.2009	600	05.56	0.14	NIL		0.14	5.60	4000	"
28	28.10.2009	600	13.32	3.28	NIL		3.28	5.80	9300	"
29	29.10.2009	1650	05.40	0.35	NIL		0.35	5.50	10800	"
30	30.10.2009	NIL	NIL	NIL	NIL		NIL	NIL	NIL	"
31	31.10.2009	NIL	NIL	NIL	NIL		NIL	NIL	NIL	"

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SONE EASTERN RINK CANAL

HYDROELECTRIC PROJECT.....BARUN

UNIT NO. VNUMBERS OF UNITS TWOTOTAL CAPACITY 2 X 1.65 MW

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01-10-2009	1650 c/sec	16.56	1.34	NIL		1.34	5.50	20600 kwh	39600 kwh
02	02-10-2009	2300	18.11	2.54	02.55		5.49	5.40	25500 kwh	"
03	03-10-2009	2300	18.17	3.13	02.30		5.43	4.95	24100	"
04	04-10-2009	2300	20.53	3.07	NIL		3.07	5.15	39500	"
05	05-10-2009	2300	06.20	17.40	NIL		17.40	5.35	14000	"
06	06-10-2009	2500	20.55	3.05	NIL		3.05	4.65	39000	"
07	07-10-2009	3000	21.29	2.31	NIL		2.31	4.95	41600	"
08	08-10-2009	3200	07.34	0.02	16.24		16.26	4.85	13800	"
09	09-10-2009	3200	08.51	0.54	14.35		15.29	4.40	15500	"
10	10-10-2009	3200	18.55	2.05	NIL		2.05	4.20	35400	"
11	11-10-2009	3200	11.56	1.26	NIL		1.26	4.55	17000	"
12	12-10-2009	3200	21.57	2.01	NIL		2.01	4.35	41600	"
13	13-10-2009	3200	21.55	2.05	NIL		2.05	4.40	42000	"
14	14-10-2009	3200	22.04	1.56	NIL		1.56	4.53	41800	"
15	15-10-2009	3200	22.42	1.13	NIL		1.13	5.05	41800	"
16	16-10-2009	3200	21.36	2.24	NIL		2.24	4.45	42000	"
17	17-10-2009	3200	21.21	2.39	NIL		2.39	4.65	40000	"
18	18-10-2009	3200	22.02	1.53	NIL		1.53	4.45	41500	"
19	19-10-2009	3200	22.19	1.41	NIL		1.41	4.30	41900	"
20	20-10-2009	3200	20.43	3.17	NIL		3.17	4.20	37600	"
21	21-10-2009	3200	21.05	2.55	NIL		2.55	4.10	41500	"
22	22-10-2009	2800	22.42	1.13	NIL		1.13	4.40	38200	"
23	23-10-2009	2400	21.53	2.02	NIL		2.02	5.15	42800	"
24	24-10-2009	2400	22.57	1.53	NIL		1.53	4.45	40000	"
25	25-10-2009	1000	14.13	0.29	NIL		0.29	5.10	14400	"
26	26-10-2009	600	NIL	NIL	NIL		NIL	5.10	NIL	"
27	27-10-2009	600	05.56	0.14	NIL		0.14	5.60	4000	"
28	28-10-2009	600	13.22	3.28	NIL		3.28	5.80	9300	"
29	29-10-2009	1650	05.40	0.35	NIL		0.35	5.50	10800	"
30	30-10-2009	NIL	NIL	NIL	NIL		NIL	NIL	NIL	"
31	31-10-2009	NIL	NIL	NIL	NIL		NIL	NIL	NIL	"

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SCHE EASTERN LINK CHANNEL ..... HYDROELECTRIC PROJECT ..... BARRAGE ..... UNIT NO ..... VI  
 NUMBERS OF UNITS ..... TWO ..... TOTAL CAPACITY ..... 2X1.65 MW .....

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barbed down Machine.	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.10.2009	1650 cumec	3.46	1.24	NIL		1.24	5.50	2200 kWh	39600 kWh
02	02.10.2009	2300	9.30	0.20	NIL		0.20	5.40	2600 kWh	"
03	03.10.2009	2300	20.12	3.48	NIL		3.48	4.95	15300 kWh	"
04	04.10.2009	2300	12.27	1.31	NIL		1.31	5.15	9600 kWh	"
05	05.10.2009	2300	6.09	17.51	NIL		17.51	5.35	5000 kWh	"
06	06.10.2009	2500	19.55	4.05	NIL		4.05	4.65	20600 kWh	"
07	07.10.2009	2000	21.00	3.00	NIL		3.00	4.35	30000 kWh	"
08	08.10.2009	2200	20.39	3.21	NIL		3.21	4.85	33100 kWh	"
09	09.10.2009	2200	17.21	6.39	NIL		6.39	4.40	26400 kWh	"
10	10.10.2009	2200	19.13	1.47	NIL		1.47	4.20	25400 kWh	"
11	11.10.2009	2200	11.37	1.00	NIL		1.00	4.55	13100 kWh	"
12	12.10.2009	2200	21.35	2.25	NIL		2.25	4.35	32200 kWh	"
13	13.10.2009	2200	21.20	2.40	NIL		2.40	4.40	28000 kWh	"
14	14.10.2009	2200	21.45	2.15	NIL		2.15	4.53	19000 kWh	"
15	15.10.2009	2200	9.58	0.20	NIL		0.20	5.05	8200 kWh	"
16	16.10.2009	2200	19.39	2.26	NIL		2.26	4.45	12500 kWh	"
17	17.10.2009	2200	21.26	2.34	NIL		2.34	4.65	25000 kWh	"
18	18.10.2009	2200	22.26	1.34	NIL		1.34	4.85	28500 kWh	"
19	19.10.2009	2200	22.23	1.37	NIL		1.37	4.30	29200 kWh	"
20	20.10.2009	2200	20.48	3.12	NIL		3.12	4.20	28500 kWh	"
21	21.10.2009	2200	21.06	2.54	NIL		2.54	4.10	28500 kWh	"
22	22.10.2009	2800	22.53	1.07	NIL		1.07	4.40	21800 kWh	"
23	23.10.2009	2400	10.26	0.49	NIL		0.49	5.15	7800 kWh	"
24	24.10.2009	2400	06.49	0.26	NIL		0.26	4.95	5000 kWh	"
25	25.10.2009	1000	NIL	NIL	NIL		NIL	5.10	NIL	"
26	26.10.2009	600	5.34	0.21	NIL		0.21	5.10	3600 kWh	"
27	27.10.2009	600	9.35	0.32	NIL		0.32	5.60	5700 kWh	"
28	28.10.2009	600	NIL	NIL	NIL		NIL	5.80	NIL	"
29	29.10.2009	1650	NIL	NIL	NIL		"	5.50	NIL	"
30	30.10.2009	NIL	NIL	NIL	NIL		"	NIL	NIL	"
31	31.10.2009	NIL	NIL	NIL	NIL		"	NIL	NIL	"



SONE EASTERN LINK CANAL

HYDROELECTRIC PROJECT.....BARUN

UNIT NO.....

V

NUMBERS OF UNITS.....TWO

TOTAL CAPACITY.....2x1.65 MW

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01-11-2009	NIL	NIL	NIL	NIL		NIL	NIL	NIL	39600 kwh
02	02-11-2009	500	5.28	0.17	"		0.17	4.20	2900 kwh	"
03	03-11-2009	NIL	NIL	NIL	"		NIL	NIL	NIL	"
04	04-11-2009	NIL	NIL	NIL	"		"	NIL	NIL	"
05	05-11-2009	NIL	NIL	NIL	"		"	NIL	NIL	"
06	06-11-2009	NIL	NIL	NIL	"		"	NIL	NIL	"
07	07-11-2009	NIL	NIL	NIL	"		"	NIL	NIL	"
08	08-11-2009	NIL	NIL	NIL	"		"	NIL	NIL	"
09	09-11-2009	NIL	NIL	NIL	"		"	NIL	NIL	"
10	10-11-2009	NIL	14.05	1.15	"		1.15	NIL	24600 kwh	"
11	11-11-2009	1300	22.07	1.53	"		1.53	5.25	29200 kwh	"
12	12-11-2009	1050	23.13	0.42	"		0.42	5.10	24000 kwh	"
13	13-11-2009	850	15.32	1.33	"		1.33	4.85	15900 kwh	"
14	14-11-2009	550	22.28	1.32	"		1.32	5.50	17100 kwh	"
15	15-11-2009	700	22.20	1.11	"		1.11	5.45	17000 kwh	"
16	16-11-2009	800	12.03	0.22	"		0.22	4.40	18700 kwh	"
17	17-11-2009	NIL	NIL	NIL	"		NIL	NIL	NIL	"
18	18-11-2009	500	05.26	0.14	"		0.14	4.75	4500 kwh	"
19	19-11-2009	1050	22.42	1.18	"		1.18	4.90	24500 kwh	"
20	20-11-2009	1250	21.28	2.32	"		2.32	4.75	27000 kwh	"
21	21-11-2009	1250	22.38	1.22	"		1.22	4.30	27200 kwh	"
22	22-11-2009	1250	16.47	4.03	"		4.03	4.40	25200 kwh	"
23	23-11-2009	NIL	NIL	NIL	"		NIL	NIL	NIL	"
24	24-11-2009	NIL	NIL	NIL	"		"	NIL	NIL	"
25	25-11-2009	NIL	NIL	NIL	"		"	NIL	NIL	"
26	26-11-2009	NIL	NIL	NIL	"		"	NIL	NIL	"
27	27-11-2009	NIL	NIL	NIL	"		"	NIL	NIL	"
28	28-11-2009	NIL	NIL	NIL	"		"	NIL	NIL	"
29	29-11-2009	NIL	NIL	NIL	"		"	NIL	NIL	"
30	30-11-2009	NIL	NIL	NIL	"		"	NIL	NIL	"
31										



..... SOME EASTERN CANAL ..... HYDROELECTRIC PROJECT ..... SARUN ..... UNIT NO ..... VI .....  
 NUMBERS OF UNITS ..... TWO ..... TOTAL CAPACITY ..... 881.65 MW .....  
 7

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Banked down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	1.11.2009		NIL						NIL	34600 kWh
02	2.11.2009		"						"	"
03	3.11.2009		"						"	"
04	4.11.2009		"						"	"
05	5.11.2009		"						"	"
06	6.11.2009		"						"	"
07	7.11.2009		"						"	"
08	8.11.2009		"						"	"
09	9.11.2009		"						"	"
10	10.11.2009		"						"	"
11	11.11.2009		"						"	"
12	12.11.2009		"						"	"
13	13.11.2009		"						"	"
14	14.11.2009		"						"	"
15	15.11.2009		"						"	"
16	16.11.2009		"						"	"
17	17.11.2009		"						"	"
18	18.11.2009		"						"	"
19	19.11.2009		"						"	"
20	20.11.2009		"						"	"
21	21.11.2009		"						"	"
22	22.11.2009		"						"	"
23	23.11.2009		"						"	"
24	24.11.2009		"						"	"
25	25.11.2009		"						"	"
26	26.11.2009		"						"	"
27	27.11.2009		"						"	"
28	28.11.2009		"						"	"
29	29.11.2009		"						"	"
30	30.11.2009		"						"	"
31										

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SONE EASTERN LINK CANAL..... HYDROELECTRIC PROJECT..... RR RUN..... UNIT NO. V  
 NUMBERS OF UNITS..... 100..... TOTAL CAPACITY..... 8X1.65

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barbed down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.12.2009	NIL	NIL	NIL	NIL		NIL	NIL	NIL	39600 kWh
02	02.12.2009	500	NIL	NIL	"		"	5.35	NIL	"
03	03.12.2009	1000	NIL	NIL	"		"	4.50	NIL	"
04	04.12.2009	1100	NIL	NIL	"		"	4.30	NIL	"
05	05.12.2009	1600	12.18	00.42	"		6.42	5.00	7600 kWh	"
06	06.12.2009	1200	15.50	01.45	"		1.45	4.50	19800 kWh	"
07	07.12.2009	1000	11.57	01.38	"		1.38	4.06	11000 kWh	"
08	08.12.2009	NIL	NIL	NIL	"		NIL	NIL	NIL	"
09	09.12.2009	NIL	NIL	NIL	"		"	NIL	NIL	"
10	10.12.2009	NIL	"	"	"		"	"	"	"
11	11.12.2009	NIL	"	"	"		"	"	"	"
12	12.12.2009	"	"	"	"		"	"	"	"
13	13.12.2009	"	"	"	"		"	"	"	"
14	14.12.2009	"	"	"	"		"	"	"	"
15	15.12.2009	"	"	"	"		"	"	"	"
16	16.12.2009	"	"	"	"		"	"	"	"
17	17.12.2009	"	"	"	"		"	"	"	"
18	18.12.2009	"	"	"	"		"	"	"	"
19	19.12.2009	"	"	"	"		"	"	"	"
20	20.12.2009	"	"	"	"		"	"	"	"
21	21.12.2009	"	"	"	"		"	"	"	"
22	22.12.2009	"	"	"	"		"	"	"	"
23	23.12.2009	"	"	"	"		"	"	"	"
24	24.12.2009	"	"	"	"		"	"	"	"
25	25.12.2009	"	"	"	"		"	"	"	"
26	26.12.2009	"	"	"	"		"	"	"	"
27	27.12.2009	"	"	"	"		"	"	"	"
28	28.12.2009	"	"	"	"		"	"	"	"
29	29.12.2009	"	"	"	"		"	"	"	"
30	30.12.2009	"	"	"	"		"	"	"	"
31	31.12.2009	"	"	"	"		"	"	"	"

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SOME EASTERN LINK CANAL.....HYDROELECTRIC PROJECT.....BARUN.....UNIT NO. VI  
 NUMBERS OF UNITS.....TWO.....TOTAL CAPACITY.....2x1.65 MW

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.12.2009	NIL	NIL	NIL	NIL		NIL	NIL	NIL	39600 kwh
02	02.12.2009	500	4.08	0.37	NIL		0.37	5.35	6200 kwh	"
03	03.12.2009	1000	21.59	2.01	NIL		2.01	4.50	23700 kwh	"
04	04.12.2009	1100	20.56	1.59	1.05		3.04	4.30	23100 kwh	"
05	05.12.2009	1600	07.00	0.40	NIL		0.40	5.00	11200 kwh	"
06	06.12.2009	1200	NIL	NIL	NIL		NIL	4.50	NIL	"
07	07.12.2009	1000	NIL	NIL	"		"	4.00	NIL	"
08	08.12.2009	NIL	"	"	"		"	NIL	"	"
09	09.12.2009	NIL	"	"	"		"	NIL	"	"
10	10.12.2009	"	"	"	"		"	"	"	"
11	11.12.2009	"	"	"	"		"	"	"	"
12	12.12.2009	"	"	"	"		"	"	"	"
13	13.12.2009	"	"	"	"		"	"	"	"
14	14.12.2009	"	"	"	"		"	"	"	"
15	15.12.2009	"	"	"	"		"	"	"	"
16	16.12.2009	"	"	"	"		"	"	"	"
17	17.12.2009	"	"	"	"		"	"	"	"
18	18.12.2009	"	"	"	"		"	"	"	"
19	19.12.2009	"	"	"	"		"	"	"	"
20	20.12.2009	"	"	"	"		"	"	"	"
21	21.12.2009	"	"	"	"		"	"	"	"
22	22.12.2009	"	"	"	"		"	"	"	"
23	23.12.2009	"	"	"	"		"	"	"	"
24	24.12.2009	"	"	"	"		"	"	"	"
25	25.12.2009	"	"	"	"		"	"	"	"
26	26.12.2009	"	"	"	"		"	"	"	"
27	27.12.2009	"	"	"	"		"	"	"	"
28	28.12.2009	"	"	"	"		"	"	"	"
29	29.12.2009	"	"	"	"		"	"	"	"
30	30.12.2009	"	"	"	"		"	"	"	"
31	31.12.2009	"	"	"	"		"	"	"	"

*Signature*



Some Eastern Link Canal

NUMBERS OF UNITS.....T100

HYDROELECTRIC PROJECT

Baram

TOTAL CAPACITY 201.65 MW

UNIT NO. V

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.1.2010	NIL	NIL	NIL	NIL		NIL	NIL	NIL	39600 kWh
02	02.1.2010	NIL	NIL	NIL	"		"	NIL	NIL	"
03	03.1.2010	NIL	NIL	NIL	"		"	NIL	NIL	"
04	04.1.2010	500	11.41	0.49	"		0.49	3.80	8300	"
05	05.1.2010	700	11.09	0.59	"		0.59	3.75	7900	"
06	06.1.2010	NIL	NIL	NIL	"		NIL	NIL	NIL	"
07	07.1.2010	NIL	NIL	NIL	"		"	NIL	NIL	"
08	08.1.2010	NIL	NIL	NIL	"		"	NIL	NIL	"
09	09.1.2010	800	06.00	0.35	"		0.35	4.75	5800	"
10	10.1.2010	800	22.19	1.41	"		1.41	5.80	19100	"
11	11.1.2010	800	22.08	1.52	"		1.52	5.40	19000	"
12	12.1.2010	900	22.14	1.46	"		1.46	5.35	21300	"
13	13.1.2010	1100	22.21	1.39	"		1.39	5.35	25800	"
14	14.1.2010	1100	21.40	2.20	"		2.20	5.35	26000	"
15	15.1.2010	1100	22.02	1.58	"		1.58	5.00	24500	"
16	16.1.2010	1000	21.37	2.23	"		2.23	4.55	20000	"
17	17.1.2010	700	22.54	1.06	"		1.06	4.30	16000	"
18	18.1.2010	800	21.43	2.17	"		2.17	4.35	17300	"
19	19.1.2010	1500	21.44	2.16	"		2.16	4.30	34000	"
20	20.1.2010	1650	21.48	2.12	"		2.12	5.20	40100	"
21	21.1.2010	1650	19.21	4.39	"		4.39	5.35	37000	"
22	22.1.2010	1600	17.40	6.20	"		6.20	5.45	34000	"
23	23.1.2010	1650	23.25	0.35	"		0.35	5.35	42500	"
24	24.1.2010	2000	22.40	1.16	"		1.16	5.10	42300	"
25	25.1.2010	2000	22.11	0.49	"		0.49	5.05	42900	"
26	26.1.2010	2000	22.02	1.58	"		1.58	4.45	39000	"
27	27.1.2010	1600	22.28	1.32	"		1.32	4.25	39000	"
28	28.1.2010	1400	22.08	1.57	"		1.57	4.10	28800	"
29	29.1.2010	1000	21.51	2.09	"		2.09	3.45	21200	"
30	30.1.2010	900	21.55	2.05	"		2.05	3.95	21000	"
31	31.1.2010	800	20.23	1.37	"		1.37	3.45	18500	"



SONE EASTERN LINK CANAL  
 NUMBERS OF UNITS.....700  
 HYDROELECTRIC PROJECT.....BARUN  
 TOTAL CAPACITY.....8X1.65 MW  
 UNIT NO.....VI

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.01.2010	NIL	NIL	NIL			NIL	NIL	NIL	39600 Kw
02	02.1.2010	NIL	"	"	"		"	NIL	"	"
03	03.1.2010	NIL	"	"	"		"	NIL	"	"
04	04.1.2010	500	"	"	"		"	380	"	"
05	05.1.2010	700	"	"	"		"	375	"	"
06	06.1.2010	NIL	"	"	"		"	NIL	"	"
07	07.1.2010	NIL	"	"	"		"	NIL	"	"
08	08.1.2010	NIL	"	"	"		"	NIL	"	"
09	09.1.2010	800	"	"	"		"	475	"	"
10	10.1.2010	800	"	"	"		"	580	"	"
11	11.1.2010	800	"	"	"		"	540	"	"
12	12.1.2010	900	"	"	"		"	535	"	"
13	13.1.2010	1100	"	"	"		"	535	"	"
14	14.1.2010	1100	"	"	"		"	535	"	"
15	15.1.2010	1100	"	"	"		"	540	"	"
16	16.1.2010	1000	"	"	"		"	455	"	"
17	17.1.2010	700	"	"	"		"	430	"	"
18	18.1.2010	800	"	"	"		"	435	"	"
19	19.1.2010	1500	"	"	"		"	530	"	"
20	20.1.2010	1650	"	"	"		"	520	"	"
21	21.1.2010	1650	"	"	"		"	535	"	"
22	22.1.2010	1600	"	"	"		"	545	"	"
23	23.1.2010	1650	NIL	NIL	"		"	535	NIL	"
24	24.1.2010	2000	2.50	NIL	"		2.50	510	4800 Kw	"
25	25.1.2010	2000	10.54	0.31	"		11.25	505	14700 Kw	"
26	26.1.2010	2000	12.10	1.50	"		14.00	445	14000 Kw	"
27	27.1.2010	1600	NIL	NIL	"		NIL	425	NIL	"
28	28.1.2010	1400	NIL	NIL	"		"	410	NIL	"
29	29.1.2010	1000	NIL	NIL	"		"	395	NIL	"
30	30.1.2010	900	NIL	NIL	"		"	395	NIL	"
31	31.1.2010	800	NIL	NIL	"		"	345	NIL	"

*[Signature]*



SONE EASTERN LINK CANAL

HYDROELECTRIC PROJECT

UNIT NO

NUMBERS OF UNITS..... 100

TOTAL CAPACITY..... 21.65 MW

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barbed down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.8.2010	700 kwh	15.42	01.08	NIL		01.08	3.65	10400 kwh	39600 kwh
02	02.8.2010	600	28.08	01.52	"		01.52	4.55	13000 kwh	"
03	03.2.2010	600	20.00	01.45	"		1.45	4.40	13500 kwh	"
04	04.8.2010	1200	21.21	02.39	"		2.39	4.90	25700 kwh	"
05	05.2.2010	1200	21.49	02.11	"		2.11	5.35	19000 kwh	"
06	06.2.2010	900	15.50	05.32	02.38		2.10	5.70	14200 kwh	"
07	07.2.2010	900	21.06	02.54	NIL		2.54	5.60	20500 kwh	"
08	08.2.2010	900	21.20	2.10	"		2.10	5.50	16500 kwh	"
09	09.8.2010	900	21.08	2.52	"		2.52	5.65	19000 kwh	"
10	10.8.2010	900	21.12	2.48	"		2.48	5.60	20100 kwh	"
11	11.8.2010	900	20.27	3.33	"		3.32	5.65	17500 kwh	"
12	12.8.2010	900	14.05	2.55	"		2.55	5.30	11200 kwh	"
13	13.2.2010	800	22.00	2.10	"		2.10	5.45	17100 kwh	"
14	14.8.2010	800	22.19	1.41	"		1.41	4.80	16800 kwh	"
15	15.2.2010	800	22.03	1.57	"		1.57	4.70	16500 kwh	"
16	16.2.2010	700	16.00	0.55	"		0.55	4.10	11500 kwh	"
17	17.8.2010	600	12.45	1.10	"		1.10	4.30	8300 kwh	"
18	18.8.2010	500	5.29	0.41	"		0.41	4.70	2600 kwh	"
19	19.8.2010	600	7.16	0.29	"		0.29	5.50	5600 kwh	"
20	20.8.2010	NIL	NIL	NIL	"		NIL	NIL	NIL	"
21	21.8.2010	NIL	NIL	NIL	"		NIL	NIL	NIL	"
22	22.8.2010	NIL	NIL	NIL	"		NIL	NIL	NIL	"
23	23.8.2010	500	3.32	0.18	"		0.18	5.35	2500 kwh	"
24	24.8.2010	500	6.25	0.43	"		0.43	5.50	4000 kwh	"
25	25.2.2010	800	4.06	0.41	"		0.41	5.50	3400 kwh	"
26	26.8.2010	NIL	NIL	NIL	"		NIL	NIL	NIL	"
27	27.8.2010	NIL	NIL	NIL	"		NIL	NIL	NIL	"
28	28.8.2010	600	13.08	01.22	"		01.22	5.50	7900 kwh	"
29										
30										
31										



SOME EASTERN LINK CHANNEL..... HYDROELECTRIC PROJECT..... RANUN..... UNIT NO. VI  
 NUMBERS OF UNITS..... TWO..... TOTAL CAPACITY..... 2X1.65 MW.....

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.2.2010		NIL	NIL	NIL		NIL		NIL	39600kwh
02	02.2.2010		"	"	"		"		"	"
03	03.2.2010		"	"	"		"		"	"
04	04.2.2010		"	"	"		"		"	"
05	05.2.2010		"	"	"		"		"	"
06	06.2.2010		0140	NIL	NIL		"		1800 kwh	"
07	07.2.2010		NIL	"	"		"		NIL	"
08	08.2.2010		"	"	"		"		"	"
09	09.2.2010		"	"	"		"		"	"
10	10.2.2010		"	"	"		"		"	"
11	11.2.2010		"	"	"		"		"	"
12	12.2.2010		"	"	"		"		"	"
13	13.2.2010		"	"	"		"		"	"
14	14.2.2010		"	"	"		"		"	"
15	15.2.2010		"	"	"		"		"	"
16	16.2.2010		"	"	"		"		"	"
17	17.2.2010		"	"	"		"		"	"
18	18.2.2010		"	"	"		"		"	"
19	19.2.2010		"	"	"		"		"	"
20	20.2.2010		"	"	"		"		"	"
21	21.2.2010		"	"	"		"		"	"
22	22.2.2010		"	"	"		"		"	"
23	23.2.2010		"	"	"		"		"	"
24	24.2.2010		"	"	"		"		"	"
25	25.2.2010		"	"	"		"		"	"
26	26.2.2010		"	"	"		"		"	"
27	27.2.2010		"	"	"		"		"	"
28	28.2.2010		"	"	"		"		"	"
29							"		"	"
30							"		"	"
31							"		"	"



SONE EASTERN LINK CANAL.....HYDROELECTRIC PROJECT.....BARUN.....UNIT NO.....V.....  
 NUMBERS OF UNITS.....Two.....TOTAL CAPACITY.....2X1.65 MW.....

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.3.2010	600 curce	22.01	01.59	NIL		01.59	5.05	13600 kwh	39600 kwh.
02	02.3.2010	600	21.26	02.34	NIL		02.34	4.80	12500	"
03	03.3.2010	700	18.59	01.56	NIL		01.56	5.20	14700	"
04	04.3.2010	900	21.10	01.37	01.13		02.50	5.40	20100	"
05	05.3.2010	900	22.30	01.30	NIL		01.30	4.60	22300	"
06	06.3.2010	900	21.50	02.10	"		02.10	4.15	15400	"
07	07.3.2010	900	21.53	02.07	"		2.07	4.15	15400	"
08	08.3.2010	1000	23.05	00.55	"		0.55	4.00	24300	"
09	09.3.2010	1050	15.04	00.56	"		0.56	4.53	20500	"
10	10.3.2010	NIL	NIL	NIL	"		NIL	NIL	NIL	"
11	11.3.2010	NIL	"	"	"		"	"	"	"
12	12.3.2010	NIL	"	"	"		"	"	"	"
13	13.3.2010	NIL	"	"	"		"	"	"	"
14	14.3.2010	NIL	"	"	"		"	"	"	"
15	15.3.2010	NIL	NIL	NIL	"		"	"	"	"
16	16.3.2010	650	13.30	00.30	"		00.30	5.43	9100	"
17	17.3.2010	1050	23.50	00.10	"		00.10	4.00	25800	"
18	18.3.2010	1050	22.05	01.53	"		1.53	4.35	25300	"
19	19.3.2010	1050	21.45	02.15	"		2.15	3.95	22700	"
20	20.3.2010	1050	21.45	02.15	"		2.15	4.20	19800	"
21	21.3.2010	1050	21.36	02.24	"		2.24	4.15	20600	"
22	22.3.2010	1050	21.24	02.36	"		2.36	4.15	20000	"
23	23.3.2010	900	16.22	01.46	"		1.46	3.55	13300	"
24	24.3.2010	600	02.00	00.55	"		0.55	3.45	01200	"
25	25.3.2010	NIL	NIL	NIL	"		NIL	NIL	NIL	"
26	26.3.2010	NIL	"	"	"		"	"	"	"
27	27.3.2010	NIL	"	"	"		"	"	"	"
28	28.3.2010	NIL	"	"	"		"	"	"	"
29	29.3.2010	NIL	"	"	"		"	"	"	"
30	30.3.2010	NIL	"	"	"		"	"	"	"
31	31.3.2010	NIL	"	"	"		"	"	"	"



SONE EASTERN LINK CANAL

NUMBERS OF UNITS.....Two.....HYDROELECTRIC PROJECT.....BARUN.....UNIT NO.....VI.....TOTAL CAPACITY.....2x1.65 MW

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.3.2010									
02	02.3.2010		NIL	NIL	NIL		NIL		NIL	39600 kwh
03	03.3.2010		NIL	NIL	"		NIL		NIL	"
04	04.3.2010		NIL	NIL	"		NIL		NIL	"
05	05.3.2010		0.35	0.45	"		01.20		400 kwh	"
06	06.3.2010		NIL	NIL	"		NIL		NIL	"
07	07.3.2010		"	"	"		"		"	"
08	08.3.2010		"	"	"		"		"	"
09	09.3.2010		"	"	"		"		"	"
10	10.3.2010		"	"	"		"		"	"
11	11.3.2010		"	"	"		"		"	"
12	12.3.2010		"	"	"		"		"	"
13	13.3.2010		"	"	"		"		"	"
14	14.3.2010		"	"	"		"		"	"
15	15.3.2010		"	"	"		"		"	"
16	16.3.2010		"	"	"		"		"	"
17	17.3.2010		"	"	"		"		"	"
18	18.3.2010		"	"	"		"		"	"
19	19.3.2010		"	"	"		"		"	"
20	20.3.2010		"	"	"		"		"	"
21	21.3.2010		"	"	"		"		"	"
22	22.3.2010		"	"	"		"		"	"
23	23.3.2010		"	"	"		"		"	"
24	24.3.2010		"	"	"		"		"	"
25	25.3.2010		"	"	"		"		"	"
26	26.3.2010		"	"	"		"		"	"
27	27.3.2010		"	"	"		"		"	"
28	28.3.2010		"	"	"		"		"	"
29	29.3.2010		"	"	"		"		"	"
30	30.3.2010		"	"	"		"		"	"
31	31.3.2010		"	"	"		"		"	"

*Signature*



# BIHAR STATE HYDROELECTRIC PROJECT KATAPPAH UNIT NO 11

NUMBERS OF UNITS TWO(2)

TOTAL CAPACITY 2x500 KW

Sl.No.	Date	Discharge from Power House	Running Hrs	Grid Fail	Brake down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation (KW)	Water level low
	01/6/09	—	—	24:00	—	—	24:00	—	—	1000	—
	2/6/09	—	—	24:00	—	—	24:00	—	—	1000	—
	3/6/09	—	—	24:00	—	—	24:00	—	—	1000	—
	4/6/09	—	—	24:00	—	—	24:00	—	—	1000	—
	5/6/09	—	—	24:00	—	—	24:00	—	—	1000	—
	6/6/09	—	—	22:57	—	—	24:00	—	—	1000	1:03
	7/6/09	—	—	21:33	—	—	24:00	—	—	1000	2:27
	8/6/09	—	—	11:58	—	—	24:00	—	—	1000	12:02
	9/6/09	—	—	14:42	—	—	24:00	—	—	1000	9:18
	10/6/09	—	—	15:38	—	—	24:00	—	—	1000	8:22
	11/6/09	—	—	0:45	—	—	24:00	—	—	1000	23:15
	12/6/09	1000	3:13	6:28	—	—	20:47	3.5	1070	1000	14:19
	13/6/09	—	—	0:29	—	—	24:00	—	—	1000	23:31
	14/6/09	—	—	2:45	—	—	24:00	3:4	—	1000	21:15
	15/6/09	—	—	5:22	—	—	24:00	—	—	1000	18:38
	16/6/09	—	—	13:08	—	—	24:00	—	—	1000	10:52
	17/6/09	—	—	16:29	—	—	24:00	—	—	1000	7:31
	18/6/09	—	—	17:59	—	—	24:00	—	—	1000	6:01
	19/6/09	—	—	18:14	—	—	24:00	—	—	1000	5:46
	20/6/09	—	—	—	—	—	24:00	—	—	1000	24:00
	21/6/09	—	—	11:54	—	—	24:00	—	—	1000	12:06
	22/6/09	—	—	2:36	—	—	24:00	—	—	1000	21:24
	23/6/09	1903	3:32	2:08	—	—	20:28	2.9	1110	1000	18:20
	24/6/09	1802	8:31	8:11	—	—	15:29	2.8	2230	1000	7:18
	25/6/09	1840	10:01	9:39	—	—	13:59	2.6	2930	1000	4:20
	26/6/09	1950	7:10	16:50	—	—	16:50	2.6	2040	1000	—
	27/6/09	1890	11:17	12:43	—	—	12:43	2.4	3620	1000	—
	28/6/09	1870	7:22	16:38	—	—	16:38	2.2	2270	1000	—
	29/6/09	900	3:21	9:56	—	—	20:39	3.2	430	1000	10:45
	30/6/09	—	—	20:25	—	—	24:00	—	—	1000	3:35



## TOTAL CAPACITY 2x500 KW

Scanned with CamScanner



# NUMBERS OF UNITS TWO(2)

BIHAR STATE HYDROELECTRIC PROJECT ~~MAHARAJGANGA~~ UNIT NO - II

TOTAL CAPACITY 2X500 KW

S/No.	Date	Discharge from Power House	Running Hrs	Grid Fall	Brake down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation (Kwh)	Water level low
01/7/09	—	—	—	15:09	—	—	94:00	—	—	1000	8:51
21/7/09	—	—	—	3:59	—	—	24:00	—	—	1000	20:01
31/7/09	800	4:08	19:49	12:59	—	—	19:49	2.9	1370	1000	14:20
41/7/09	—	11:01	12:59	16:04	—	—	12:59	3.1	2730	1000	—
51/7/09	—	7:56	16:04	16:15	—	—	16:04	2.4	2260	1000	—
61/7/09	—	7:45	16:15	20:56	—	—	16:15	2.5	2550	1000	—
71/7/09	—	3:04	20:56	—	—	—	20:56	2.7	870	1000	—
81/7/09	—	2:45	20:56	—	—	—	20:56	2.3	830	1000	—
91/7/09	—	5:03	18:54	—	—	—	18:54	2.9	1230	1000	—
101/7/09	—	10:02	12:58	—	—	—	13:58	2.5	2340	1000	—
111/7/09	—	10:49	13:11	—	—	—	13:11	1.8	3500	1000	—
121/7/09	—	8:12	15:29	—	—	—	15:39	1.8	2090	1000	—
131/7/09	—	9:13	14:47	—	—	—	14:47	2.5	2740	1000	—
141/7/09	—	12:13	11:29	—	—	—	11:29	2.0	2490	1000	—
151/7/09	—	10:48	12:37	—	00:41	—	12:18	2.1	2490	1000	—
161/7/09	—	11:50	12:10	—	—	—	12:10	2.3	4010	1000	15:10
171/7/09	—	5:47	18:03	—	—	—	18:13	2.3	1440	1000	3:00
181/7/09	—	4:52	16:08	—	—	—	19:08	2.4	1450	1000	—
191/7/09	—	8:53	15:07	—	—	—	15:07	2.0	2680	1000	—
201/7/09	—	11:35	12:25	—	—	—	12:25	2.0	2490	1000	—
211/7/09	—	9:16	14:44	—	—	—	14:44	2.0	2540	1000	—
221/7/09	—	11:58	19:08	—	—	—	11:06	2.0	3240	1000	—
231/7/09	—	12:20	9:40	—	—	—	9:40	2.0	2470	1000	1:20
241/7/09	—	11:11	11:29	—	—	—	12:49	1.7	3070	1000	—
251/7/09	—	8:36	15:24	—	—	—	15:24	2.1	2010	1000	—
261/7/09	—	8:18	15:42	—	—	—	15:42	1.9	2830	1000	—
271/7/09	—	17:47	6:13	—	—	—	6:12	1.9	5030	1000	—
281/7/09	—	11:44	12:16	—	—	—	12:16	1.9	1940	1000	—
291/7/09	—	12:35	11:25	—	—	—	11:25	1.7	2480	1000	—
301/7/09	—	11:54	12:06	—	—	—	12:06	1.5	3310	1000	—
311/7/09	—	10:14	13:41	—	—	—	13:41	2.4	2610	1000	—



**BIHAR STATE HYDROELECTRIC PROJECT**  
**NUMBERS OF UNITS TWO(2)**  
**UNIT NO. 1**

**TOTAL CAPACITY 2x500 KW**

Date	Discharge from Power House	Running Hrs	Grid Fall	Brake down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation (Kw)	Water level low
01/11/09	—	—	15:09	—	—	24100	—	—	1000	8:51
02/11/09	—	—	3:59	—	—	24100	—	—	1000	20:01
03/11/09	800	4817	58:42	—	—	19:52	2.9	1420	1000	14:10
04/11/09	—	11:11	12:49	—	—	12:49	3.1	3770	1000	—
05/11/09	—	8:08	15:52	—	—	15:52	2.4	2200	1000	—
06/11/09	—	2:46	16:14	—	—	16:14	2.5	3100	1000	—
07/11/09	—	3:13	20:47	—	—	20:47	2.7	1120	1000	—
08/11/09	—	5:34	18:26	—	—	18:26	2.3	1510	1000	—
09/11/09	—	7:59	16:01	—	—	16:01	2.9	2480	1000	—
10/11/09	—	10:08	13:42	—	—	13:42	2.5	3170	1000	—
11/11/09	—	10:32	13:27	—	—	13:27	1.8	3550	1000	—
12/11/09	—	9:07	14:53	—	—	14:53	1.8	3200	1000	—
13/11/09	—	10:15	12:45	—	—	12:45	2.5	3520	1000	—
14/11/09	—	12:12	11:48	—	—	11:48	2.0	4000	1000	—
15/11/09	—	9:14	13:08	1405	—	14:15	2.1	3320	1000	—
16/11/09	—	13:22	10:38	—	—	10:38	2.3	5020	1000	—
17/11/09	—	7:17	16:45	—	—	16:43	2.3	2570	1000	—
18/11/09	—	7:17	16:45	—	—	16:43	2.4	2470	1000	—
19/11/09	—	8:42	15:18	—	—	15:18	2.0	3060	1000	—
20/11/09	—	11:34	12:24	—	—	12:26	0.0	4290	1000	—
21/11/09	—	11:01	12:59	—	—	12:59	2.0	3350	1000	—
22/11/09	—	12:54	11:06	—	—	11:06	2.0	4720	1000	—
23/11/09	—	14:46	9:14	—	—	9:14	2.0	5310	1000	—
24/11/09	—	12:18	11:42	—	—	11:42	1.7	4000	1000	—
25/11/09	—	9:40	15:20	—	—	15:20	2.1	2690	1000	—
26/11/09	—	9:27	15:33	—	—	15:33	1.9	3390	1000	—
27/11/09	—	17:29	6:31	—	—	6:31	1.9	6320	1000	—
28/11/09	—	11:00	13:00	—	—	13:00	1.9	3060	1000	—
29/11/09	—	12:22	11:28	—	—	11:28	2.4	4450	1000	—
30/11/09	—	11:41	12:19	—	—	12:19	1.5	4020	1000	—
31/11/09	—	10:02	13:38	—	—	13:38	2.4	2460	1000	—



BIHAR STATE HYDROELECTRIC PROJECT NARAYANGANGA UNIT NO - II  
 NUMBERS OF UNITS TWO(2) TOTAL CAPACITY 2x500 KW

Sl No.	Date	Discharge from Power House	Running Hrs	Grid Fail	Brake down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation (Kw)	Water level
	01/12/09	-	-	21.05	-	-	24100	-	-	1000	2.55
	2/12/09	-	-	15.33	-	-	24100	-	-	1000	8.24
	3/12/09	-	-	14.22	-	-	24100	-	-	1000	8.28
	4/12/09	-	-	5.19	-	-	24100	-	-	1000	18.14
	5/12/09	-	-	11.12	-	-	24100	-	-	1000	12.47
	6/12/09	-	-	16.49	-	-	24100	-	-	1000	7.11
	7/12/09	-	-	00.47	-	-	24100	-	-	1000	22.23
	8/12/09	-	-	5.18	-	-	24100	-	-	1000	18.42
	9/12/09	-	-	10.30	-	-	24100	-	-	1000	12.30
	10/12/09	-	-	14.53	-	-	24100	-	-	1000	9.03
	11/12/09	-	-	16.47	-	-	24100	-	-	1000	7.13
	12/12/09	-	-	15.24	-	-	24100	-	-	1000	8.36
	13/12/09	-	-	17.05	-	-	24100	-	-	1000	6.55
	14/12/09	-	-	12.03	-	-	24100	-	-	1000	17.27
	15/12/09	-	-	12.55	-	-	24100	-	-	1000	11.05
	16/12/09	-	-	9.45	-	-	24100	-	-	1000	14.15
	17/12/09	-	-	10.52	-	-	24100	-	-	1000	13.08
	18/12/09	-	-	14.45	-	-	24100	-	-	1000	9.15
	19/12/09	-	-	12.33	-	-	24100	-	-	1000	11.27
	20/12/09	-	-	14.14	-	-	24100	-	-	1000	9.46
	21/12/09	-	-	15.08	-	-	24100	-	-	1000	8.52
	22/12/09	-	-	17.45	-	-	24100	-	-	1000	6.15
	23/12/09	-	-	15.39	-	-	24100	-	-	1000	8.21
	24/12/09	-	-	14.52	-	-	24100	-	-	1000	9.08
	25/12/09	18.80	4.13	3.45	-	-	24100	4.3	700	1000	16.02
	26/12/09	11.86	8.42	15.17	-	-	15.17	3.0	1220	1000	-
	27/12/09	9.35	7.18	10.47	-	-	16.42	2.9	2430	1000	5.55
	28/12/09	9.35	-	21.05	-	-	24100	-	-	1000	2.55
	29/12/09	-	-	14.08	-	-	24100	-	-	1000	6.47
	30/12/09	-	-	14.08	-	-	24100	-	-	1000	6.47
	31/12/09	-	2.20	11.59	-	-	21.40	2.6	560	1000	9.19



# BIHAR STATE HYDROELECTRIC PROJECT NASARVAH UNIT NO - 7

NUMBERS OF UNITS TWO(2)

TOTAL CAPACITY 2x500 KW

Sl. No.	Date	Discharge from Power House	Running Hrs	Grid Fail	Brake down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation (Kw)	Water level low
1	01/12/09	-	-	21:05	-	-	24:00	-	-	1000	7:25
2	01/12/09	-	-	15:33	-	-	24:00	-	-	1000	8:27
3	01/12/09	-	-	17:22	-	-	24:00	-	-	1000	6:38
4	01/12/09	-	-	5:19	-	-	24:00	-	-	1000	18:41
5	01/12/09	-	-	11:13	-	-	24:00	-	-	1000	18:47
6	01/12/09	-	-	16:49	-	-	24:00	-	-	1000	7:11
7	01/12/09	-	-	04:47	-	-	24:00	-	-	1000	22:23
8	01/12/09	-	-	5:19	-	-	24:00	-	-	1000	18:42
9	01/12/09	-	-	16:30	-	-	24:00	-	-	1000	13:30
10	01/12/09	-	-	14:53	-	-	24:00	-	-	1000	9:07
11	01/12/09	-	-	16:43	-	-	24:00	-	-	1000	7:13
12	01/12/09	-	-	15:24	-	-	24:00	-	-	1000	8:36
13	01/12/09	-	-	17:05	-	-	24:00	-	-	1000	6:55
14	01/12/09	-	-	12:33	-	-	24:00	-	-	1000	11:29
15	01/12/09	-	-	10:55	-	-	24:00	-	-	1000	11:05
16	01/12/09	-	-	9:45	-	-	24:00	-	-	1000	14:15
17	01/12/09	-	-	10:52	-	-	24:00	-	-	1000	13:08
18	01/12/09	-	-	14:45	-	-	24:00	-	-	1000	9:15
19	01/12/09	-	-	10:23	-	-	24:00	-	-	1000	11:29
20	01/12/09	-	-	14:14	-	-	24:00	-	-	1000	5:46
21	01/12/09	-	-	15:08	-	-	24:00	-	-	1000	8:50
22	01/12/09	-	-	17:45	-	-	24:00	-	-	1000	6:15
23	01/12/09	-	-	15:29	-	-	24:00	-	-	1000	8:21
24	01/12/09	-	-	14:52	-	-	24:00	-	-	1000	9:08
25	01/12/09	19:30	2:05	2:45	-	-	19:47	4.3	1060	1000	16:02
26	01/12/09	11:36	8:37	15:23	-	-	15:23	3.0	2190	1000	-
27	01/12/09	9:25	8:55	15:05	-	-	15:05	2.9	2430	1000	-
28	01/12/09	9:25	2:55	21:05	-	-	21:05	3.0	1090	1000	6:47
29	01/12/09	-	2:05	14:08	-	-	20:55	3.2	940	1000	4:17
30	01/12/09	-	5:35	14:08	-	-	18:25	2.6	2070	1000	-
31	01/12/09	-	12:01	11:59	-	-	11:59	2.6	3880	1000	-



**BIHAR STATE HYDROELECTRIC PROJECT**  
**NUMBERS OF UNITS TWO(2)**  
**UNIT NO. - 1**  
**TOTAL CAPACITY: 2x500 KW**

S.No	Date	Discharge from Power House	Running Hrs	Grid Fall	Brake down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation (Kwh)	Water level
	01/9/09	—	9:51	14:09	—	—	14:09	1.8	3890	1000	—
	02/9/09	—	6:08	17:52	—	—	17:52	1.9	2170	1000	—
	03/9/09	—	14:43	9:17	—	—	9:17	1.8	5380	1000	—
	04/9/09	—	18:06	5:54	—	—	5:54	1.8	6970	1000	—
	05/9/09	—	20:09	3:51	—	—	3:51	1.9	8330	1000	—
	06/9/09	—	10:53	13:07	—	—	13:07	1.9	4400	1000	—
	07/9/09	—	5:00	19:00	—	—	19:00	1.8	1600	1000	—
	08/9/09	—	7:20	12:30	—	—	16:40	1.8	2250	1000	4:10
	09/9/09	—	—	15:15	—	—	24:00	—	—	1000	8:45
	10/9/09	—	—	23:43	—	—	24:00	—	—	1000	05:17
	11/9/09	—	4:33	19:27	—	—	19:27	2.4	1560	1000	—
	12/9/09	—	9:37	14:23	—	—	14:23	2.4	3190	1000	—
	13/9/09	—	15:05	8:55	—	—	8:55	2.0	5380	1000	—
	14/9/09	—	9:21	14:09	—	—	14:09	1.8	3730	1000	—
	15/9/09	—	11:21	12:29	—	—	12:29	2.0	4560	1000	—
	16/9/09	—	8:32	15:28	—	—	15:28	2.1	3310	1000	—
	17/9/09	—	6:37	17:23	—	—	17:23	1.8	2420	1000	—
	18/9/09	—	—	19:30	—	—	24:00	—	—	1000	4:30
	19/9/09	—	7:25	16:35	—	—	16:35	1.7	2930	1000	—
	20/9/09	—	12:55	11:05	—	—	11:05	1.7	4860	1000	—
	21/9/09	—	16:20	7:40	—	—	7:40	2.0	6860	1000	—
	22/9/09	2561	11:10	12:50	—	—	12:50	2.0	4310	1000	—
	23/9/09	2487	9:47	14:12	—	—	14:12	2.0	3800	1000	—
	24/9/09	—	10:11	13:49	—	—	13:49	2.1	3710	1000	—
	25/9/09	—	9:46	5:27	7:57	—	14:14	2.0	2920	1000	—
	26/9/09	—	14:56	4:34	1:30	—	6:104	2.0	6670	1000	—
	27/9/09	—	10:27	13:33	—	—	13:33	2.1	4080	1000	—
	28/9/09	—	20:42	7:18	—	—	3:18	2.4	8330	1000	—
	29/9/09	—	17:10	6:50	—	—	6:50	2.1	7790	1000	—
	30/9/09	—	19:57	3:53	—	0:10	4:03	2.0	7440	1000	—



# BIHAR STATE HYDROELECTRIC PROJECT KASBAHARA UNIT NO - II

TOTAL CAPACITY 2x500 KW

No.	Date	Discharge from Power House	Running Hrs	Grid Fail	Brake down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation (Kw)	Water level low
	11/9/09	—	9:28	14:32	—	—	14:32	1.8	2620	1000	—
	2/9/09	—	5:53	18:07	—	—	18:07	1.9	1630	1000	—
	3/9/09	—	14:39	9:21	—	—	9:21	1.8	4360	1000	—
	4/9/09	—	17:18	6:42	—	—	6:42	1.8	5150	1000	—
	5/9/09	—	19:32	4:28	—	—	4:28	1.9	6420	1000	—
	6/9/09	—	10:55	13:05	—	—	13:05	1.9	3540	1000	—
	7/9/09	—	4:45	19:15	—	—	19:15	1.8	1150	1000	—
	8/9/09	—	1:50	10:30	—	—	22:10	1.8	360	1000	19:40
	9/9/09	—	—	15:15	—	—	24:00	—	—	1000	18:45
	10/9/09	—	—	23:43	—	—	24:00	—	—	1000	0:17
	11/9/09	—	2:58	19:27	—	—	27:02	2.4	740	1000	1:35
	12/9/09	—	3:10	14:30	—	—	20:50	2.4	1000	1000	5:20
	13/9/09	—	8:45	8:55	—	—	15:15	2.0	2640	1000	6:20
	14/9/09	—	9:08	14:52	—	—	14:52	1.8	2010	1000	—
	15/9/09	—	10:42	13:17	—	—	13:17	2.0	2900	1000	—
	16/9/09	—	7:54	16:06	—	—	16:06	2.1	2460	1000	—
	17/9/09	—	6:26	17:34	—	—	17:34	1.8	1620	1000	—
	18/9/09	—	—	19:30	—	—	24:00	—	—	1000	4:30
	19/9/09	—	7:10	16:50	—	—	16:50	1.7	1920	1000	—
	20/9/09	—	11:26	12:34	—	—	12:34	1.7	3380	1000	—
	21/9/09	—	16:29	7:21	—	—	7:21	2.0	4920	1000	—
	22/9/09	2561	10:52	19:08	—	—	13:08	2.0	3130	1000	—
	23/9/09	—	10:12	13:48	—	—	13:48	2.0	2930	1000	—
	24/9/09	—	10:15	13:45	—	—	13:45	2.1	2620	1000	—
	25/9/09	—	10:17	5:53	7:50	—	13:45	2.0	3150	1000	—
	26/9/09	—	17:30	5:00	1:30	—	6:30	2.0	5140	1000	—
	27/9/09	—	10:03	13:57	—	—	13:57	2.1	3320	1000	—
	28/9/09	—	15:09	3:18	—	—	8:51	2.4	4950	1000	5:33
	29/9/09	—	8:42	7:10	—	—	15:20	2.1	2570	1000	8:10
	30/9/09	—	19:43	4:07	—	00:10	4:17	2.0	—	—	—



# BIHAR STATE HYDROELECTRIC PROJECT NUMBERS OF UNITS TWO(2) TOTAL CAPACITY 2x500 KW

Sl No.	Date	Discharge from Power House	Running Hrs	Grid Fail	Brake down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation (kw)	Water level low
1	01/8/09	—	8:08	19:56	—	—	15:52	1.6	1940	1000	2:48
2	2/8/09	—	—	17:27	—	—	24:00	—	—	1000	6:32
3	3/8/09	—	—	17:13	—	—	24:00	—	—	1000	6:47
4	4/8/09	—	—	22:30	—	—	24:00	—	—	1000	1:20
5	5/8/09	—	—	22:15	—	—	24:00	—	—	1000	1:45
6	6/8/09	—	—	12:55	—	—	24:00	—	—	1000	1:05
7	7/8/09	—	—	15:35	—	—	24:00	—	—	1000	8:25
8	8/8/09	—	15:28	14:49	—	—	22:22	3.0	420	1000	17:13
9	9/8/09	—	5:31	18:29	—	—	18:29	9.5	1640	1000	—
10	10/8/09	—	7:58	16:02	—	—	16:02	2.7	2800	1000	—
11	11/8/09	—	8:44	14:16	—	—	14:16	2.2	3280	1000	—
12	12/8/09	—	14:00	10:00	—	—	10:00	2.2	4480	1000	—
13	13/8/09	—	6:59	2:01	—	—	17:01	2.0	2150	1000	15:00
14	14/8/09	—	—	14:50	—	—	24:00	—	—	1000	9:10
15	15/8/09	—	9:07	14:53	—	—	14:53	2.2	2370	1000	—
16	16/8/09	—	9:33	14:12	—	00:15	14:27	1.9	2630	1000	—
17	17/8/09	—	14:26	7:24	—	—	7:24	1.8	4220	1000	—
18	18/8/09	—	10:19	13:41	—	0:10	13:54	1.9	2630	1000	—
19	19/8/09	—	10:22	13:37	—	—	13:37	1.8	2870	1000	—
20	20/8/09	—	11:28	12:32	—	—	12:32	2.0	3680	1000	—
21	21/8/09	—	13:33	10:27	—	—	10:27	1.7	3720	1000	—
22	22/8/09	—	7:24	16:36	—	—	16:36	1.4	1920	1000	—
23	23/8/09	—	17:37	6:23	—	—	6:23	1.7	4590	1000	—
24	24/8/09	—	3:55	3:25	—	—	17:05	1.9	1470	1000	16:30
25	25/8/09	—	15:32	8:28	—	00:15	8:43	1.9	6650	1000	—
26	26/8/09	—	12:42	11:18	—	—	11:18	1.8	3580	1000	—
27	27/8/09	—	13:54	10:06	—	—	10:06	1.7	3920	1000	—
28	28/8/09	—	8:04	15:56	—	—	15:56	1.8	2330	1000	—
29	29/8/09	—	11:56	12:04	—	—	12:04	1.8	3480	1000	—
30	30/8/09	—	17:38	6:22	—	—	6:22	1.8	5420	1000	—
31	31/8/09	—	14:23	9:37	—	—	9:37	1.8	4000	1000	—







BIHAR STATE HYDROELECTRIC PROJECT AND SARRANG UNIT NO. 2  
 NUMBERS OF UNITS TWO(2)  
 TOTAL CAPACITY 2x500 KW

Sl. No.	Date	Discharge from Power House	Running Hrs	Grid Fall	Brake down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation (Kwh)	Water level
1	1/10/09	—	21:09	2:57	—	—	2:51	2.5	8440	1000	—
2	2/10/09	—	17:53	12:01	—	—	12:07	2.8	5220	1000	—
3	3/10/09	—	6:51	17:09	—	—	17:09	1.9	2750	1000	—
4	4/10/09	—	14:59	9:01	—	—	9:01	2.0	5550	1000	—
5	5/10/09	—	16:24	7:36	—	—	7:36	2.3	6360	1000	—
6	6/10/09	—	12:26	11:24	—	—	11:34	2.0	4940	1000	—
7	7/10/09	—	11:04	12:56	—	—	12:56	2.0	4220	1000	—
8	8/10/09	—	15:10	8:50	—	—	8:50	1.9	5550	1000	—
9	9/10/09	—	14:12	6:48	—	—	6:48	1.7	5570	1000	—
10	10/10/09	—	13:56	10:04	—	—	10:04	1.4	4580	1000	—
11	11/10/09	—	11:14	12:46	—	—	12:46	1.4	3730	1000	—
12	12/10/09	—	12:05	10:55	—	—	10:55	1.7	2850	1000	—
13	13/10/09	—	13:59	10:01	—	—	10:01	1.3	4900	1000	—
14	14/10/09	—	12:58	10:02	—	—	10:02	1.9	4840	1000	—
15	15/10/09	—	12:14	11:46	—	—	11:46	1.9	4140	1000	—
16	16/10/09	—	9:09	14:51	—	—	14:51	1.9	2960	1000	—
17	17/10/09	—	18:54	7:05	—	—	7:06	1.3	6440	1000	—
18	18/10/09	—	17:38	6:22	—	—	6:22	2.0	5720	1000	—
19	19/10/09	—	13:11	10:49	—	—	10:49	0.9	2400	1000	—
20	20/10/09	—	12:56	11:04	—	—	11:04	1.9	3730	1000	—
21	21/10/09	—	7:22	16:38	—	—	16:38	1.9	1950	1000	—
22	22/10/09	—	8:53	15:07	—	—	15:07	1.9	2520	1000	—
23	23/10/09	—	7:02	16:58	—	—	16:58	1.9	2050	1000	—
24	24/10/09	—	12:41	11:19	—	—	11:19	2.0	3590	1000	—
25	25/10/09	—	9:48	14:12	—	—	14:12	2.2	2980	1000	—
26	26/10/09	—	9:48	14:06	—	—	14:06	2.1	3090	1000	—
27	27/10/09	—	9:42	14:18	—	—	14:18	2.1	2800	1000	—
28	28/10/09	—	9:57	14:03	—	—	14:03	2.7	2750	1000	—
29	29/10/09	—	9:40	14:20	—	—	14:20	3.0	2660	1000	—
30	30/10/09	—	9:19	14:41	—	—	14:41	2.0	2060	1000	—
31	31/10/09	—	6:51	17:09	—	—	17:09	2.5	1640	1000	—



Date	Time	Lat	Long	Alt	Temp	Wind	Clouds	Remarks
11/10/03	11:50	11:47	11:48	11:49	11:50	11:51	11:52	11:53
11/10/03	11:54	11:55	11:56	11:57	11:58	11:59	12:00	12:01
11/10/03	12:02	12:03	12:04	12:05	12:06	12:07	12:08	12:09
11/10/03	12:10	12:11	12:12	12:13	12:14	12:15	12:16	12:17
11/10/03	12:18	12:19	12:20	12:21	12:22	12:23	12:24	12:25
11/10/03	12:26	12:27	12:28	12:29	12:30	12:31	12:32	12:33
11/10/03	12:34	12:35	12:36	12:37	12:38	12:39	12:40	12:41
11/10/03	12:42	12:43	12:44	12:45	12:46	12:47	12:48	12:49
11/10/03	12:50	12:51	12:52	12:53	12:54	12:55	12:56	12:57
11/10/03	12:58	12:59	13:00	13:01	13:02	13:03	13:04	13:05
11/10/03	13:06	13:07	13:08	13:09	13:10	13:11	13:12	13:13
11/10/03	13:14	13:15	13:16	13:17	13:18	13:19	13:20	13:21
11/10/03	13:22	13:23	13:24	13:25	13:26	13:27	13:28	13:29
11/10/03	13:30	13:31	13:32	13:33	13:34	13:35	13:36	13:37
11/10/03	13:38	13:39	13:40	13:41	13:42	13:43	13:44	13:45
11/10/03	13:46	13:47	13:48	13:49	13:50	13:51	13:52	13:53
11/10/03	13:54	13:55	13:56	13:57	13:58	13:59	14:00	14:01
11/10/03	14:02	14:03	14:04	14:05	14:06	14:07	14:08	14:09
11/10/03	14:10	14:11	14:12	14:13	14:14	14:15	14:16	14:17
11/10/03	14:18	14:19	14:20	14:21	14:22	14:23	14:24	14:25
11/10/03	14:26	14:27	14:28	14:29	14:30	14:31	14:32	14:33
11/10/03	14:34	14:35	14:36	14:37	14:38	14:39	14:40	14:41
11/10/03	14:42	14:43	14:44	14:45	14:46	14:47	14:48	14:49
11/10/03	14:50	14:51	14:52	14:53	14:54	14:55	14:56	14:57
11/10/03	14:58	14:59	15:00	15:01	15:02	15:03	15:04	15:05
11/10/03	15:06	15:07	15:08	15:09	15:10	15:11	15:12	15:13
11/10/03	15:14	15:15	15:16	15:17	15:18	15:19	15:20	15:21
11/10/03	15:22	15:23	15:24	15:25	15:26	15:27	15:28	15:29
11/10/03	15:30	15:31	15:32	15:33	15:34	15:35	15:36	15:37
11/10/03	15:38	15:39	15:40	15:41	15:42	15:43	15:44	15:45
11/10/03	15:46	15:47	15:48	15:49	15:50	15:51	15:52	15:53
11/10/03	15:54	15:55	15:56	15:57	15:58	15:59	16:00	16:01
11/10/03	16:02	16:03	16:04	16:05	16:06	16:07	16:08	16:09
11/10/03	16:10	16:11	16:12	16:13	16:14	16:15	16:16	16:17
11/10/03	16:18	16:19	16:20	16:21	16:22	16:23	16:24	16:25
11/10/03	16:26	16:27	16:28	16:29	16:30	16:31	16:32	16:33
11/10/03	16:34	16:35	16:36	16:37	16:38	16:39	16:40	16:41
11/10/03	16:42	16:43	16:44	16:45	16:46	16:47	16:48	16:49
11/10/03	16:50	16:51	16:52	16:53	16:54	16:55	16:56	16:57
11/10/03	16:58	16:59	17:00	17:01	17:02	17:03	17:04	17:05
11/10/03	17:06	17:07	17:08	17:09	17:10	17:11	17:12	17:13
11/10/03	17:14	17:15	17:16	17:17	17:18	17:19	17:20	17:21
11/10/03	17:22	17:23	17:24	17:25	17:26	17:27	17:28	17:29
11/10/03	17:30	17:31	17:32	17:33	17:34	17:35	17:36	17:37
11/10/03	17:38	17:39	17:40	17:41	17:42	17:43	17:44	17:45
11/10/03	17:46	17:47	17:48	17:49	17:50	17:51	17:52	17:53
11/10/03	17:54	17:55	17:56	17:57	17:58	17:59	18:00	18:01
11/10/03	18:02	18:03	18:04	18:05	18:06	18:07	18:08	18:09
11/10/03	18:10	18:11	18:12	18:13	18:14	18:15	18:16	18:17
11/10/03	18:18	18:19	18:20	18:21	18:22	18:23	18:24	18:25
11/10/03	18:26	18:27	18:28	18:29	18:30	18:31	18:32	18:33
11/10/03	18:34	18:35	18:36	18:37	18:38	18:39	18:40	18:41
11/10/03	18:42	18:43	18:44	18:45	18:46	18:47	18:48	18:49
11/10/03	18:50	18:51	18:52	18:53	18:54	18:55	18:56	18:57
11/10/03	18:58	18:59	19:00	19:01	19:02	19:03	19:04	19:05
11/10/03	19:06	19:07	19:08	19:09	19:10	19:11	19:12	19:13
11/10/03	19:14	19:15	19:16	19:17	19:18	19:19	19:20	19:21
11/10/03	19:22	19:23	19:24	19:25	19:26	19:27	19:28	19:29
11/10/03	19:30	19:31	19:32	19:33	19:34	19:35	19:36	19:37
11/10/03	19:38	19:39	19:40	19:41	19:42	19:43	19:44	19:45
11/10/03	19:46	19:47	19:48	19:49	19:50	19:51	19:52	19:53
11/10/03	19:54	19:55	19:56	19:57	19:58	19:59	20:00	20:01
11/10/03	20:02	20:03	20:04	20:05	20:06	20:07	20:08	20:09
11/10/03	20:10	20:11	20:12	20:13	20:14	20:15	20:16	20:17
11/10/03	20:18	20:19	20:20	20:21	20:22	20:23	20:24	20:25
11/10/03	20:26	20:27	20:28	20:29	20:30	20:31	20:32	20:33
11/10/03	20:34	20:35	20:36	20:37	20:38	20:39	20:40	20:41
11/10/03	20:42	20:43	20:44	20:45	20:46	20:47	20:48	20:49
11/10/03	20:50	20:51	20:52	20:53	20:54	20:55	20:56	20:57
11/10/03	20:58	20:59	21:00	21:01	21:02	21:03	21:04	21:05
11/10/03	21:06	21:07	21:08	21:09	21:10	21:11	21:12	21:13
11/10/03	21:14	21:15	21:16	21:17	21:18	21:19	21:20	21:21
11/10/03	21:22	21:23	21:24	21:25	21:26	21:27	21:28	21:29
11/10/03	21:30	21:31	21:32	21:33	21:34	21:35	21:36	21:37
11/10/03	21:38	21:39	21:40	21:41	21:42	21:43	21:44	21:45
11/10/03	21:46	21:47	21:48	21:49	21:50	21:51	21:52	21:53
11/10/03	21:54	21:55	21:56	21:57	21:58	21:59	22:00	22:01
11/10/03	22:02	22:03	22:04	22:05	22:06	22:07	22:08	22:09
11/10/03	22:10	22:11	22:12	22:13	22:14	22:15	22:16	22:17
11/10/03	22:18	22:19	22:20	22:21	22:22	22:23	22:24	22:25
11/10/03	22:26	22:27	22:28	22:29	22:30	22:31	22:32	22:33
11/10/03	22:34	22:35	22:36	22:37	22:38	22:39	22:40	22:41
11/10/03	22:42	22:43	22:44	22:45	22:46	22:47	22:48	22:49
11/10/03	22:50	22:51	22:52	22:53	22:54	22:55	22:56	22:57
11/10/03	22:58	22:59	23:00	23:01	23:02	23:03	23:04	23:05
11/10/03	23:06	23:07	23:08	23:09	23:10	23:11	23:12	23:13
11/10/03	23:14	23:15	23:16	23:17	23:18	23:19	23:20	23:21
11/10/03	23:22	23:23	23:24	23:25	23:26	23:27	23:28	23:29
11/10/03	23:30	23:31	23:32	23:33	23:34	23:35	23:36	23:37
11/10/03	23:38	23:39	23:40	23:41	23:42	23:43	23:44	23:45
11/10/03	23:46	23:47	23:48	23:49	23:50	23:51	23:52	23:53
11/10/03	23:54	23:55	23:56	23:57	23:58	23:59	00:00	00:01
11/10/03	00:02	00:03	00:04	00:05	00:06	00:07	00:08	00:09
11/10/03	00:10	00:11	00:12	00:13	00:14	00:15	00:16	00:17
11/10/03	00:18	00:19	00:20	00:21	00:22	00:23	00:24	00:25
11/10/03	00:26	00:27	00:28	00:29	00:30	00:31	00:32	00:33
11/10/03	00:34	00:35	00:36	00:37	00:38	00:39	00:40	00:41
11/10/03	00:42	00:43	00:44	00:45	00:46	00:47	00:48	00:49
11/10/03	00:50	00:51	00:52	00:53	00:54	00:55	00:56	00:57
11/10/03	00:58	00:59	01:00	01:01	01:02	01:03	01:04	01:05
11/10/03	01:06	01:07	01:08	01:09	01:10	01:11	01:12	01:13
11/10/03	01:14	01:15	01:16	01:17	01:18	01:19	01:20	01:21
11/10/03	01:22	01:23	01:24	01:25	01:26	01:27	01:28	01:29
11/10/03	01:30	01:31	01:32	01:33	01:34	01:35	01:36	01:37
11/10/03	01:38	01:39	01:40	01:41	01:42	01:43	01:44	01:45
11/10/03	01:46	01:47	01:48	01:49	01:50	01:51	01:52	01:53
11/10/03	01:54	01:55	01:56	01:57	01:58	01:59	02:00	02:01
11/10/03	02:02	02:03	02:04	02:05	02:06	02:07	02:08	02:09
11/10/03	02:10	02:11	02:12	02:13	02:14	02:15	02:16	02:17
11/10/03	02:18	02:19	02:20	02:21	02:22	02:23	02:24	02:25
11/10/03	02:26	02:27	02:28	02:29	02:30	02:31	02:32	02:33
11/10/03	02:34	02:35	02:36	02:37	02:38	02:39	02:40	02:41
11/10/03	02:42	02:43	02:44	02:45	02:46	02:47	02:48	02:49
11/10/03	02:50	02:51	02:52	02:53	02:54	02:55	02:56	02:57
11/10/03	02:58	02:59	03:00	03:01	03:02	03:03	03:04	03:05
11/10/03	03:06	03:07	03:08	03:09	03:10	03:11	03:12	03:13
11/10/03	03:14	03:15	03:16	03:17	03:18	03:19	03:20	03:21
11/10/03	03:22	03:23	03:24	03:25	03:26	03:27	03:28	03:29
11/10/03	03:30	03:31	03:32	03:33	03:34	03:35	03:36	03:37
11/10/03	03:38	03:39	03:40	03:41	03:42	03:43	03:44	03:45
11/10/03	03:46	03:47	03:48	03:49	03:50	03:51	03:52	03:53
11/10/03	03:54	03:55	03:56	03:57	03:58	03:59	04:00	04:01
11/10/03	04:02	04:03	04:04	04:05	04:06	04:07	04:08	04:09
11/10/03	04:10	04:11	04:12	04:13	04:14	04:15	04:16	04:17
11/10/03	04:18	04:19	04:20	04:21	04:22	04:23	04:24	04:25
11/10/03	04:26	04:27	04:28	04:29	04:30	04:31	04:32	04:33
11/10/03	04:34	04:35	04:36	04:37	04:38	04:39	04:40	04:41
1								



**BIHAR STATE HYDROELECTRIC PROJECT**  
**UNIT NO - II**  
**NUMBERS OF UNITS TWO(2)**  
**TOTAL CAPACITY 2x500 KW**

Date	Exchange from Power house	Running hrs	Grid Fall	In the down Machine	Trash rack clean	Total Output Hrs.	Head	Daily Generation	As per design (Kw)	Water level low
11/6/09	-	11:50	13.47	-	-	12110	2.5	2870	1000	10:23
21/6/09	-	11:24	11:29	-	-	12:36	2.2	2800	1000	1:08
21/6/09	-	6:47	17:13	-	-	17:13	1.9	2220	1000	-
21/6/09	-	14:15	8:45	-	-	9:45	2.0	2040	1000	-
21/6/09	-	14:27	7:46	6:25	-	9:39	2.3	4570	1000	1:22
21/6/09	-	12:22	11:27	-	-	11:27	2.0	2750	1000	-
21/6/09	-	16:27	12:23	-	-	12:23	2.0	3670	1000	-
21/6/09	-	15:02	8:54	-	-	9:51	1.8	4140	1000	-
21/6/09	-	17:21	6:09	-	-	6:33	1.7	3770	1000	-
21/6/09	-	16:59	10:04	-	-	10:07	1.7	3280	1000	-
21/6/09	-	10:56	13:04	-	-	13:04	1.7	2810	1000	-
21/6/09	-	19:10	16:56	-	-	10:50	1.7	4070	1000	-
21/6/09	-	19:22	10:58	-	-	10:28	1.9	3230	1000	-
21/6/09	-	19:50	10:10	-	-	10:10	1.9	3734	1000	-
21/6/09	-	12:19	11:47	-	-	11:47	1.9	3720	1000	-
21/6/09	-	9:54	15:06	-	-	15:06	1.9	4010	1000	-
21/6/09	-	16:43	7:17	-	-	7:17	1.9	4750	1000	-
21/6/09	-	17:56	6:04	-	-	6:04	2.0	4850	1000	-
21/6/09	-	15:39	10:26	-	-	10:26	2.2	4230	1000	-
21/6/09	-	11:06	10:54	-	-	10:54	1.8	3620	1000	-
21/6/09	-	9:29	16:31	-	-	16:31	1.9	1180	1000	-
21/6/09	-	8:30:04	14:56	-	-	14:56	1.9	1780	1000	-
21/6/09	-	7:31	16:29	-	-	16:29	1.9	1570	1000	-
21/6/09	-	12:09	11:24	-	-	11:24	2.0	2640	1000	-
21/6/09	-	5:05	14:46	-	-	14:46	2.0	450	1000	4:00



**BIHAR STATE HYDROELECTRIC PROJECT**  
**NUMBERS OF UNITS TWO(2)**  
**UNIT NO. - 1**  
**TOTAL CAPACITY 2x500 KW**

Sl.No.	Date	Discharge from Power House	Running Hrs	Grid Fail	Brake down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation (Kwh)	Water level (m)
01/11/09	01/11/09	—	9100	15100	—	—	15100	2.3	2070	1000	—
02/11/09	02/11/09	—	6103	10105	—	—	17157	2.2	1950	1000	4152
03/11/09	03/11/09	—	—	16121	—	—	24100	—	—	1000	4129
04/11/09	04/11/09	—	—	13139	—	—	24100	—	—	1000	4121
05/11/09	05/11/09	—	—	23135	—	—	24100	—	—	1000	4105
06/11/09	06/11/09	—	—	21133	—	—	24100	—	—	1000	4127
07/11/09	07/11/09	—	—	4140	—	—	24100	—	—	1000	4120
08/11/09	08/11/09	—	9819	14147	—	—	14147	2.7	2620	1000	—
09/11/09	09/11/09	—	3123	20137	—	—	20137	2.3	830	1000	—
10/11/09	10/11/09	—	—	18129	—	—	24100	—	—	1000	5121
11/11/09	11/11/09	—	3100	11145	—	00115	21100	2.4	580	1000	49100
12/11/09	12/11/09	—	2106	2559	—	—	21154	2.0	660	1000	18155
13/11/09	13/11/09	—	10109	9210	—	—	18191	2.2	2800	1000	4141
14/11/09	14/11/09	—	2144	3121	—	—	21116	2.5	980	1000	4155
15/11/09	15/11/09	—	7158	14122	1140	—	16102	3.1	2500	1000	—
16/11/09	16/11/09	—	6138	8102	—	—	17122	2.8	1960	1000	4120
17/11/09	17/11/09	—	00115	2158	—	—	23145	—	40	1000	2102
18/11/09	18/11/09	—	—	20103	—	—	24100	—	—	1000	4160
19/11/09	19/11/09	—	4512	19148	—	—	19148	2.3	1380	1000	—
20/11/09	20/11/09	—	9102	14158	—	—	14158	2.1	2670	1000	—
21/11/09	21/11/09	—	8155	15105	—	—	15105	2.8	2320	1000	—
22/11/09	22/11/09	—	4149	1917	—	—	1917	2.2	1850	1000	—
23/11/09	23/11/09	—	3123	3136	—	—	20137	2.6	680	1000	17155
24/11/09	24/11/09	—	—	18144	—	—	24100	—	—	1000	5116
25/11/09	25/11/09	—	—	20140	—	—	24100	—	—	1000	2120
26/11/09	26/11/09	—	—	2015	—	—	24100	—	—	1000	3145
27/11/09	27/11/09	—	—	19112	—	—	24100	—	—	1000	4148
28/11/09	28/11/09	—	—	13112	—	—	24100	—	—	1000	10147
29/11/09	29/11/09	—	—	16130	—	—	24100	—	—	1000	4130
30/11/09	30/11/09	—	—	16120	—	—	24100	—	—	1000	4130



# NUMBERS OF UNITS TWO(2)

BIHAR STATE HYDROELECTRIC PROJECT

UNIT NO. 2

TOTAL CAPACITY 2X500 KW

No.	Date	Discharge from Power House	Running Hrs	Grid Fail	Brake down Machine	Trash rack clean	Total Outage Hrs	Head	Daily Generation	As per Design	Water level
1	11/11/09	—	81:00	15:00	—	—	16:00	2.5	1510	1000	11:00
2	21/11/09	—	3:55	10:30	—	—	20:05	2.2	820	1000	10:25
3	21/11/09	—	—	16:31	—	—	24:00	—	—	1000	7:129
4	21/11/09	—	—	13:39	—	—	24:00	—	—	1000	10:21
5	31/11/09	—	—	23:55	—	—	24:00	—	—	1000	0:305
6	5/11/09	—	—	21:38	—	—	24:00	—	—	1000	2:27
7	6/11/09	—	—	21:40	—	—	20:40	2.8	830	1000	13:00
8	20/11/09	—	5:20	16:35	—	—	19:27	2.7	820	1000	10:28
9	21/11/09	—	4:37	20:55	—	—	20:55	2.7	8660	1000	—
10	21/11/09	—	—	18:39	—	—	24:00	—	—	1000	5:21
11	10/11/09	—	21:44	11:40	—	0:20	21:16	2.4	880	1000	9:16
12	12/11/09	—	—	2:59	—	—	24:00	—	—	1000	21:01
13	13/11/09	—	1:29	9:05	—	—	22:31	2.2	900	1000	12:26
14	14/11/09	—	—	3:40	—	—	24:00	—	—	1000	20:20
15	14/11/09	—	6:26	14:40	—	—	17:24	3.1	1540	1000	21:44
16	15/11/09	—	5:48	4:02	—	—	20:12	2.9	830	1000	16:10
17	15/11/09	—	00:12	21:58	—	—	23:48	—	40	1000	2:05
18	18/11/09	—	—	23:00	—	—	24:00	—	—	1000	1:00
19	19/11/09	—	4:02	19:58	—	—	19:58	2.2	880	1000	—
20	20/11/09	—	8:52	15:08	—	—	15:08	2.1	1840	1000	—
21	21/11/09	—	8:34	15:26	—	—	15:26	2.8	1650	1000	—
22	22/11/09	—	4:39	19:21	—	—	19:21	2.2	1560	1000	—
23	23/11/09	—	—	3:36	—	—	24:00	—	—	1000	20:24
24	24/11/09	—	—	18:44	—	—	24:00	—	—	1000	5:16
25	25/11/09	—	—	20:40	—	—	24:00	—	—	1000	3:20
26	26/11/09	—	—	20:15	—	—	24:00	—	—	1000	3:45
27	27/11/09	—	—	19:12	—	—	24:00	—	—	1000	4:28
28	28/11/09	—	—	13:13	—	—	24:00	—	—	1000	10:47
29	29/11/09	—	—	16:30	—	—	24:00	—	—	1000	7:30
30	30/11/09	—	—	16:30	—	—	24:00	—	—	1000	7:30



# BIHAR STATE HYDROELECTRIC PROJECT UNIT NO. - 7

DAULABAGH

NUMBERS OF UNITS TWO(2)

TOTAL CAPACITY 2x500 KW

Sl.No	Date	Discharge from Power House	Running Hrs	Grid Fall	Brake down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation (Kwh)	Water level low
1	01/11/10	—	8:47	15:13	—	—	15:13	2.8	2650	1000	—
2	02/11/10	—	8:38	3:08	—	—	18:22	3.0	2130	1000	19:19
3	03/11/10	—	—	8:40	—	—	24:00	—	—	1000	14:20
4	04/11/10	—	5:17	4:13	—	—	18:43	2.9	1530	1000	14:30
5	05/11/10	—	6:39	17:21	—	—	17:21	3.2	2160	1000	—
6	06/11/10	—	6:12	17:49	—	—	17:49	3.1	1880	1000	—
7	07/11/10	—	7:16	16:44	—	—	16:44	2.9	2340	1000	—
8	08/11/10	—	6:10	8:00	—	—	15:45	3.0	1730	1000	7:45
9	09/11/10	—	4:32	19:28	—	—	19:28	2.2	1900	1000	—
10	10/11/10	—	5:27	18:33	—	—	18:33	2.2	2200	1000	—
11	11/11/10	—	3:50	20:10	—	—	20:10	2.6	1200	1000	—
12	12/11/10	—	9:00	15:00	—	—	15:00	2.4	3290	1000	—
13	13/11/10	—	5:33	18:27	—	—	18:27	2.5	3270	1000	—
14	14/11/10	—	10:54	13:06	—	—	13:06	2.4	3880	1000	—
15	15/11/10	—	9:55	14:05	—	—	14:05	2.6	3360	1000	—
16	16/11/10	—	5:13	6:29	—	—	19:47	3.1	1640	1000	12:18
17	17/11/10	—	—	14:24	—	—	24:00	—	—	1000	9:36
18	18/11/10	—	—	14:47	—	—	24:00	—	—	1000	9:19
19	19/11/10	—	5:16	3:27	—	—	18:44	2.8	2300	1000	15:17
20	20/11/10	—	3:59	20:01	—	—	20:01	2.6	1190	1000	—
21	21/11/10	—	6:48	17:12	—	—	17:12	2.4	1820	1000	—
22	22/11/10	—	2:40	3:00	—	—	21:20	2.9	490	1000	18:20
23	23/11/10	—	8:03	15:57	—	—	15:57	2.9	2720	1000	—
24	24/11/10	—	7:21	16:31	—	0:08	16:38	2.5	2790	1000	—
25	25/11/10	—	9:46	15:14	—	—	15:14	2.8	3290	1000	—
26	26/11/10	—	8:37	15:23	—	—	15:23	2.4	3320	1000	—
27	27/11/10	—	9:48	14:06	—	0:06	14:12	2.6	3490	1000	—
28	28/11/10	—	4:42	19:18	—	—	19:18	2.6	2490	1000	—
29	29/11/10	—	9:31	14:29	—	—	14:29	2.6	3410	1000	—
30	30/11/10	—	8:06	15:54	—	—	15:54	2.5	3530	1000	—
31	31/11/10	—	10:29	13:22	—	—	13:22	2.3	4380	1000	—



BIHAR STATE HYDROELECTRIC PROJECT  
 DHEENGAH UNIT NO - I  
 NUMBERS OF UNITS TWO(2)  
 TOTAL CAPACITY 2x500 KW

Date	Discharge from Power House	Running hrs	Grid Fail	Brake down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation (Kwh)	Water level
01/2/10	1800	8:47	15:13	-	-	15:13	2.3	4210	1000	-
2/2/10	1800	8:52	15:10	-	-	15:10	2.4	3360	1000	-
3/2/10	1600	9:22	14:33	-	0:05	14:38	2.5	4000	1000	-
4/2/10	1600	6:40	17:20	-	-	17:20	3.1	2220	1000	-
5/2/10	1600	9:43	14:17	-	-	14:17	3.0	3180	1000	-
6/2/10	936	7:47	16:13	-	-	16:13	3.0	2600	1000	-
7/2/10	936	8:12	15:48	-	-	15:48	2.8	2480	1000	15.10
8/2/10	936	2:54	5:56	-	-	2:06	2.9	770	1000	6:00
9/2/10	1186	9:18	8:02	-	-	14:22	4.1	3080	1000	-
10/2/10	1180	5:08	18:22	-	-	18:22	2.8	1850	1000	-
11/2/10	-	10:10	19:50	-	-	19:50	2.9	3110	1000	-
12/2/10	-	5:48	10:34	-	-	18:12	2.7	1420	1000	7:38
13/2/10	986	5:34	11:53	-	-	18:26	3.0	1510	1000	6:33
14/2/10	1326	10:02	13:58	-	-	12:58	2.8	3140	1000	-
15/2/10	1106	3:59	8:49	-	-	20:01	3.1	410	1000	11:19
16/2/10	-	9:53	14:07	-	-	14:07	2.8	3180	1000	-
17/2/10	-	7:02	16:58	-	-	16:58	2.6	2200	1000	10:06
18/2/10	-	8:35	5:19	-	-	15:25	2.9	2520	1000	18:15
19/2/10	-	3:01	9:46	-	-	20:59	2.8	750	1000	13:51
20/2/10	-	-	10:09	-	-	24:00	-	-	1000	12:22
21/2/10	-	-	11:38	-	-	24:00	-	-	1000	9:19
22/2/10	-	-	14:41	-	-	24:00	-	-	1000	12:11
23/2/10	-	-	11:49	-	-	24:00	-	-	1000	16:11
24/2/10	-	-	13:49	-	-	24:00	-	-	1000	10:20
25/2/10	-	-	13:40	-	-	24:00	-	-	1000	6:27
26/2/10	-	-	12:33	-	-	24:00	-	-	1000	8:45
27/2/10	-	-	15:15	-	-	24:00	-	-	1000	-
28/2/10	-	-	11:57	-	-	24:00	-	-	1000	12:03



# BIHAR STATE HYDROELECTRIC PROJECT NUMBERS OF UNITS TWO (2)

TOTAL CAPACITY 28500 KW

Sl No.	Date	Discharge from: Power House	Running Hrs	Grid Fail	Brake down Machine	Trash Rack clean	Total Output Hrs	Head	Daily Generation	As per design Generation (Kwh)	Water level low
1	1/12/10	1800	8:36	15:24	-	-	15:24	2.3	2580	1000	-
2	2/12/10	1800	8:32	15:28	-	-	15:28	2.4	2320	1000	-
3	3/12/10	1600	8:46	13:47	-	-	15:14	2.5	1660	1000	15:27
4	4/12/10	1000	6:37	14:23	-	-	17:123	3.1	1580	1000	-
5	5/12/10	1000	8:34	14:20	-	-	15:26	3.0	2050	1000	17:15
6	6/12/10	936	-	16:12	-	-	24:00	-	-	1000	17:47
7	7/12/10	936	0:45	15:50	-	-	22:45	2.8	100	1000	17:55
8	8/12/10	936	2:55	6:55	-	-	21:05	2.9	540	1000	14:12
9	9/12/10	1180	-	8:22	-	-	24:00	-	-	1000	15:33
10	10/12/10	-	2:20	12:40	-	-	20:40	2.8	770	1000	17:00
11	11/12/10	-	1:52	14:00	-	-	22:08	2.9	430	1000	17:08
12	12/12/10	-	2:45	14:15	-	-	16:15	2.7	1860	1000	17:00
13	13/12/10	-	0:41	11:00	-	-	-	-	-	-	-



**BIHAR STATE HYDROELECTRIC PROJECT (KANSABAGH) UNIT NO - 1**  
**NUMBERS OF UNITS TWO(2)**

TOTAL CAPACITY 2x500 KW

S/No.	Date	Discharge from Power House	Running Hrs	Grid Fall	Brake down Machine	Trash rack clean	Total Outage Hrs	Head	Daily Generation	As per design Generation (Kw)	Water level low
	01/11/10	—	—	8:06	—	—	24:00	—	—	1000	15:54
	02/11/10	—	—	7:39	—	—	24:00	—	—	1000	16:21
	03/11/10	1500	5:02	5:06	—	—	18:58	3.3	1920	1000	18:52
	04/11/10	1500	7:26	10:50	—	—	16:18	3.1	2200	1000	6:04
	05/11/10	—	3:30	15:00	—	—	19:09	3.9	860	1000	4:04
	06/11/10	—	—	18:47	—	—	24:00	—	—	1000	5:13
	07/11/10	—	—	12:48	—	—	24:00	—	—	1000	11:12
	08/11/10	—	4:27	13:56	—	—	19:33	3.3	1990	1000	5:33
	09/11/10	—	12:11	11:46	—	—	11:49	2.3	5010	1000	—
	10/11/10	—	8:40	15:20	—	—	15:20	2.8	3210	1000	—
	11/11/10	—	3:22	14:20	—	—	20:28	2.6	1080	1000	6:18
	12/11/10	—	—	15:36	—	—	24:00	—	—	1000	8:24
	13/11/10	—	—	15:59	—	—	24:00	—	—	1000	8:01
	14/11/10	—	—	12:50	—	—	24:00	—	—	1000	11:10
	15/11/10	—	—	15:03	—	—	24:00	—	—	1000	7:54
	16/11/10	—	—	18:46	—	—	24:00	—	—	1000	5:14
	17/11/10	—	—	19:00	—	—	24:00	—	—	1000	9:00
	18/11/10	—	—	14:58	—	—	24:00	—	—	1000	6:56
	19/11/10	—	—	17:04	—	—	24:00	—	—	1000	8:14
	20/11/10	—	—	15:46	—	—	24:00	—	—	1000	—
	21/11/10	—	5:03	18:57	—	—	18:57	3.3	1830	1000	—
	22/11/10	—	—	15:12	—	—	24:00	—	—	1000	8:48
	23/11/10	—	—	17:49	—	—	24:00	—	—	1000	6:11
	24/11/10	—	2:10	5:00	—	—	21:50	3.4	660	1000	7:52
	25/11/10	—	4:38	15:00	—	—	19:22	3.3	1770	1000	7:52
	26/11/10	—	2:22	12:25	—	—	21:28	3.2	710	1000	4:07
	27/11/10	—	—	11:59	—	—	24:00	—	—	1000	12:01
	28/11/10	—	—	16:22	—	—	24:00	—	—	1000	7:38
	29/11/10	—	9:42	14:18	—	—	14:18	2.8	3320	1000	—
	30/11/10	—	10:12	13:48	—	—	13:48	2.5	2650	1000	—
	31/11/10	—	13:18	9:37	—	—	10:42	2.7	4380	1000	1:05



# BIHAR STATE HYDROELECTRIC PROJECT NABRIKARA UNIT NO - II

NUMBERS OF UNITS TWO(2)

TOTAL CAPACITY 2x500 KW

S.No	Date	Discharge from Power House	Running Hrs	Grid Fall	Brake down Machine	Trash rack clean	Total Outage Hrs	Head	Daily Generation	As per design Generation (Kw)	Water level
	01/3/10	—	—	8:06	—	—	24:00	—	—	1000	15.54
	2/3/10	—	—	7:29	—	—	24:00	—	—	1000	16.20
	3/3/10	—	—	5:06	—	—	24:00	—	—	1000	18.54
	4/3/10	—	—	10:30	—	—	24:00	—	—	1000	17.30
	5/3/10	—	—	15:00	—	—	24:00	—	—	1000	9.00
	6/3/10	—	—	18:47	—	—	24:00	—	—	1000	5.11
	7/3/10	—	—	12:48	—	—	24:00	—	—	1000	11.12
	8/3/10	—	—	13:58	—	—	24:00	3.3	2510	1000	16.04
	9/3/10	—	8:25	12:00	—	—	15:42	3.8	2380	1000	3.35
	10/3/10	—	8:18	15:42	—	—	15:42	3.8	2380	1000	6.39
	11/3/10	—	2:23	14:58	—	—	21:07	2.6	530	1000	8.24
	12/3/10	—	—	15:36	—	—	24:00	—	—	1000	8.01
	13/3/10	—	—	15:59	—	—	24:00	—	—	1000	11.10
	14/3/10	—	—	12:50	—	—	24:00	—	—	1000	2.57
	15/3/10	—	—	15:03	—	—	24:00	—	—	1000	5.14
	16/3/10	—	—	18:46	—	—	24:00	—	—	1000	5.14
	17/3/10	—	—	19:00	—	—	24:00	—	—	1000	9.02
	18/3/10	—	—	14:58	—	—	24:00	—	—	1000	6.56
	19/3/10	—	—	17:04	—	—	24:00	—	—	1000	8.14
	20/3/10	—	—	15:46	—	—	24:00	—	—	1000	3.02
	21/3/10	—	00:28	20:30	—	—	24:00	3.3	110	1000	8.48
	22/3/10	—	—	15:12	—	—	24:00	—	—	1000	6.31
	23/3/10	—	—	17:49	—	—	24:00	—	—	1000	19.00
	24/3/10	—	—	5:00	—	—	24:00	—	—	1000	8.30
	25/3/10	—	—	15:30	—	—	24:00	—	—	1000	6.25
	26/3/10	—	—	17:35	—	—	24:00	—	—	1000	12.01
	27/3/10	—	—	11:59	—	—	24:00	—	—	1000	7.19
	28/3/10	—	—	16:22	—	—	24:00	—	—	1000	9.42
	29/3/10	—	—	14:18	—	—	24:00	—	—	1000	10.19
	30/3/10	—	—	12:48	—	—	24:00	—	—	1000	14.23
	31/3/10	—	—	9:37	—	—	24:00	—	—	1000	14.23



# BIHAR STATE HYDROELECTRIC PROJECT ANDAMBARA UNIT NO - II

NUMBERS OF UNITS TWO(2)

TOTAL CAPACITY 2x500 KW

Sl.No.	Date	Discharge from Power House	Running Hrs	Grid Fall	Brake down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation (1000)	Water level low
1	11/11/10	—	—	15:13	—	—	24100	3.0	1450	1000	8.44
2	11/11/10	—	4147	15:56	—	—	19113	3.2	650	1000	12.10
3	11/11/10	—	2110	14:40	—	—	21150	—	—	1000	19.47
4	11/11/10	—	—	4:13	—	—	24100	—	—	1000	6.38
5	11/11/10	—	—	14:21	—	—	24100	—	—	1000	6.12
6	11/11/10	—	—	13:48	—	—	24100	—	—	1000	7.16
7	11/11/10	—	—	16:14	—	—	24100	—	—	1000	16.00
8	11/11/10	—	—	8:00	—	—	24100	—	—	1000	4.37
9	11/11/10	—	—	14:28	—	—	24100	—	—	1000	—
10	11/11/10	—	5124	18:36	—	—	18136	2.2	1510	1000	—
11	11/11/10	—	3150	20:10	—	—	20:10	2.6	990	1000	—
12	11/11/10	—	8:23	15:37	—	—	15:37	2.4	2310	1000	1.36
13	11/11/10	—	3:54	18:30	—	—	20:06	2.5	940	1000	6.01
14	11/11/10	—	4:14	12:45	—	—	19:46	2.4	1210	1000	—
15	11/11/10	—	9:59	14:01	—	—	14:01	2.6	2080	1000	14.85
16	11/11/10	—	2:35	6:50	—	—	21:25	3.1	740	1000	9.36
17	11/11/10	—	—	14:24	—	—	24100	—	—	1000	9.17
18	11/11/10	—	—	14:47	—	—	24100	—	—	1000	15.32
19	11/11/10	—	5:18	3:20	—	—	19:42	2.8	1640	1000	15.32
20	11/11/10	—	1:59	20:10	—	—	22:01	2.6	720	1000	5.85
21	11/11/10	—	1:46	18:45	—	—	22:20	2.4	500	1000	—
22	11/11/10	—	00:42	2:55	20:33	—	23:18	2.9	200	1000	—
23	11/11/10	—	7:39	16:22	—	0:08	16:22	2.7	1610	1000	—
24	11/11/10	—	7:30	16:22	—	—	16:30	2.5	1980	1000	—
25	11/11/10	—	8:46	15:19	—	—	15:14	2.3	2410	1000	—
26	11/11/10	—	8:56	15:04	—	—	15:04	2.4	2520	1000	—
27	11/11/10	—	10:03	13:57	—	—	13:57	2.6	2370	1000	—
28	11/11/10	—	4:51	19:09	—	—	19:09	2.6	1840	1000	—
29	11/11/10	—	9:10	14:50	—	—	14:50	2.6	2650	1000	—
30	11/11/10	—	8:18	15:42	—	—	15:42	2.5	2630	1000	—
31	11/11/10	—	10:28	13:32	—	—	13:32	2.2	2680	1000	—



# BIHAR STATE HYDROELECTRIC PROJECT NASARIGANJ UNIT NO 1 NUMBERS OF UNITS TWO(2) TOTAL CAPACITY 2x500 KW

Sl.No.	Date	Discharge from Power House	Running Hrs	Grid Fail down Machine	Brake down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generatio n	As per design Generatio n	Water level low
1-Apr-09	NIL	NIL	08:45	NIL	24:00	NIL	NIL	1000 KW	15:15		
2-Apr-09	NIL	NIL	19:05	NIL	24:00	NIL	NIL	1000 KW	04:55		
3-Apr-09	NIL	NIL	12:45	NIL	24:00	NIL	NIL	1000 KW	11:15		
4-Apr-09	NIL	NIL	13:35	NIL	24:00	NIL	NIL	1000 KW	10:25		
5-Apr-09	NIL	NIL	15:15	NIL	24:00	NIL	NIL	1000 KW	08:45		
6-Apr-09	NIL	NIL	11:05	NIL	24:00	NIL	NIL	1000 KW	12:55		
7-Apr-09	NIL	NIL	17:30	NIL	24:00	NIL	NIL	1000 KW	06:30		
8-Apr-09	NIL	NIL	14:25	NIL	24:00	NIL	NIL	1000 KW	09:35		
9-Apr-09	NIL	NIL	09:05	NIL	24:00	NIL	NIL	1000 KW	14:55		
10-Apr-09	NIL	NIL	12:45	NIL	24:00	NIL	NIL	1000 KW	11:15		
11-Apr-09	NIL	NIL	15:40	NIL	24:00	NIL	NIL	1000 KW	08:20		
12-Apr-09	NIL	NIL	13:45	NIL	24:00	NIL	NIL	1000 KW	10:15		
13-Apr-09	NIL	NIL	20:35	NIL	24:00	NIL	NIL	1000 KW	03:25		
14-Apr-09	NIL	NIL	17:45	NIL	24:00	NIL	NIL	1000 KW	06:15		
15-Apr-09	NIL	NIL	18:05	NIL	24:00	NIL	NIL	1000 KW	05:55		
16-Apr-09	NIL	NIL	15:25	NIL	24:00	NIL	NIL	1000 KW	08:35		
17-Apr-09	NIL	NIL	10:10	NIL	24:00	NIL	NIL	1000 KW	13:50		
18-Apr-09	NIL	NIL	10:50	NIL	24:00	NIL	NIL	1000 KW	13:10		
19-Apr-09	NIL	NIL	12:25	NIL	24:00	NIL	NIL	1000 KW	11:35		
20-Apr-09	NIL	NIL	17:25	NIL	24:00	NIL	NIL	1000 KW	06:35		
21-Apr-09	NIL	NIL	16:10	NIL	24:00	NIL	NIL	1000 KW	07:50		
22-Apr-09	NIL	NIL	17:30	NIL	24:00	NIL	NIL	1000 KW	06:30		
23-Apr-09	NIL	NIL	12:00	NIL	24:00	NIL	NIL	1000 KW	12:00		
24-Apr-09	NIL	NIL	16:35	NIL	24:00	NIL	NIL	1000 KW	07:25		
25-Apr-09	NIL	NIL	16:55	NIL	24:00	NIL	NIL	1000 KW	07:55		
26-Apr-09	NIL	NIL	16:05	NIL	24:00	NIL	NIL	1000 KW	02:00		



27-Apr-09	NIL	NIL	22:00	NIL	NIL	24:00	NIL	NIL	1000 KW	04:10
28-Apr-09	NIL	NIL	19:50	NIL	NIL	24:00	NIL	NIL	1000 KW	07:10
29-Apr-09	NIL	NIL	16:50	NIL	NIL	24:00	NIL	NIL	1000 KW	07:10
30-Apr-09	NIL	NIL	19:35	NIL	NIL	24:00	NIL	NIL	1000 KW	04:25

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# BIHAR STATE HYDROELECTRIC PROJECT NASARIGANJ UNIT NO 2 NUMBERS OF UNITS TWO(2) TOTAL CAPACITY 2x500 KW

Sl.No.	Date	Discharge from Power House	Running Hrs	Grid Fail	Brake down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generatio n	As per design Generatio n	Water level low
1-Apr-09	NIL	NIL	NIL	08:45	NIL	NIL	24:00	NIL	NIL	1000 KW	15:15
2-Apr-09	NIL	NIL	NIL	19:05	NIL	NIL	24:00	NIL	NIL	1000 KW	04:55
3-Apr-09	NIL	NIL	NIL	12:45	NIL	NIL	24:00	NIL	NIL	1000 KW	11:15
4-Apr-09	NIL	NIL	NIL	13:35	NIL	NIL	24:00	NIL	NIL	1000 KW	10:25
5-Apr-09	NIL	NIL	NIL	15:15	NIL	NIL	24:00	NIL	NIL	1000 KW	08:45
6-Apr-09	NIL	NIL	NIL	11:05	NIL	NIL	24:00	NIL	NIL	1000 KW	12:55
7-Apr-09	NIL	NIL	NIL	17:30	NIL	NIL	24:00	NIL	NIL	1000 KW	06:30
8-Apr-09	NIL	NIL	NIL	14:25	NIL	NIL	24:00	NIL	NIL	1000 KW	09:35
9-Apr-09	NIL	NIL	NIL	09:05	NIL	NIL	24:00	NIL	NIL	1000 KW	14:55
10-Apr-09	NIL	NIL	NIL	12:45	NIL	NIL	24:00	NIL	NIL	1000 KW	11:15
11-Apr-09	NIL	NIL	NIL	15:40	NIL	NIL	24:00	NIL	NIL	1000 KW	08:20
12-Apr-09	NIL	NIL	NIL	13:45	NIL	NIL	24:00	NIL	NIL	1000 KW	10:15
13-Apr-09	NIL	NIL	NIL	20:35	NIL	NIL	24:00	NIL	NIL	1000 KW	03:25
14-Apr-09	NIL	NIL	NIL	17:45	NIL	NIL	24:00	NIL	NIL	1000 KW	06:15
15-Apr-09	NIL	NIL	NIL	18:05	NIL	NIL	24:00	NIL	NIL	1000 KW	05:55
16-Apr-09	NIL	NIL	NIL	15:25	NIL	NIL	24:00	NIL	NIL	1000 KW	08:35
17-Apr-09	NIL	NIL	NIL	10:10	NIL	NIL	24:00	NIL	NIL	1000 KW	13:50
18-Apr-09	NIL	NIL	NIL	10:50	NIL	NIL	24:00	NIL	NIL	1000 KW	13:10
19-Apr-09	NIL	NIL	NIL	12:25	NIL	NIL	24:00	NIL	NIL	1000 KW	11:35
20-Apr-09	NIL	NIL	NIL	17:25	NIL	NIL	24:00	NIL	NIL	1000 KW	06:35
21-Apr-09	NIL	NIL	NIL	16:10	NIL	NIL	24:00	NIL	NIL	1000 KW	07:50
22-Apr-09	NIL	NIL	NIL	17:30	NIL	NIL	24:00	NIL	NIL	1000 KW	06:30
23-Apr-09	NIL	NIL	NIL	12:00	NIL	NIL	24:00	NIL	NIL	1000 KW	12:00
24-Apr-09	NIL	NIL	NIL	16:35	NIL	NIL	24:00	NIL	NIL	1000 KW	07:25
25-Apr-09	NIL	NIL	NIL	16:55	NIL	NIL	24:00	NIL	NIL	1000 KW	07:55
26-Apr-09	NIL	NIL	NIL	16:05	NIL	NIL	24:00	NIL	NIL	1000 KW	02:00



27-Apr-09 NIL  
28-Apr-09 NIL  
29-Apr-09 NIL  
30-Apr-09 NIL

NIL  
NIL  
NIL  
NIL

22:00 NIL  
19:50 NIL  
16:50 NIL  
19:35 NIL

NIL  
NIL  
NIL  
NIL

24:00  
24:00  
24:00  
24:00

NIL  
NIL  
NIL  
NIL

NIL  
NIL  
NIL  
NIL

1000 KW  
1000 KW  
1000 KW  
1000 KW

04:10  
07:10  
07:10  
04:25

# BIHAR STATE HYDROELECTRIC PROJECT NASARIGANJ UNIT NO 1 NUMBERS OF UNITS TWO(2) TOTAL CAPACITY 2x500 KW

Sl.No.	Date	Discharge		Running Hrs	Grid Fail	Brake		Trash rack clean,	Total Outage Hrs.	Head	Daily Generatio n	As per design		Water level low
		from Power House	down Machine			down Machine	Generatio n					Water level low		
1-May-09	NIL	NIL	14:50	NIL	NIL	24:00	NIL	NIL	1000 KW	09:10				
2-May-09	NIL	NIL	17:35	NIL	NIL	24:00	NIL	NIL	1000 KW	06:25				
3-May-09	NIL	NIL	10:45	NIL	NIL	24:00	NIL	NIL	1000 KW	13:15				
4-May-09	NIL	NIL	14:35	NIL	NIL	24:00	NIL	NIL	1000 KW	09:25				
5-May-09	NIL	NIL	13:40	NIL	NIL	24:00	NIL	NIL	1000 KW	10:20				
6-May-09	NIL	NIL	14:30	NIL	NIL	24:00	NIL	NIL	1000 KW	09:30				
7-May-09	NIL	NIL	14:45	NIL	NIL	24:00	NIL	NIL	1000 KW	09:15				
8-May-09	NIL	NIL	15:45	NIL	NIL	24:00	NIL	NIL	1000 KW	08:15				
9-May-09	NIL	NIL	09:13	NIL	NIL	24:00	NIL	NIL	1000 KW	14:45				
10-May-09	NIL	NIL	13:50	NIL	NIL	24:00	NIL	NIL	1000 KW	10:10				
11-May-09	NIL	NIL	06:20	NIL	NIL	24:00	NIL	NIL	1000 KW	17:40				
12-May-09	NIL	NIL	23:05	NIL	NIL	24:00	NIL	NIL	1000 KW	00:55				
13-May-09	NIL	NIL	19:55	NIL	NIL	24:00	NIL	NIL	1000 KW	04:05				
14-May-09	NIL	NIL	08:05	NIL	NIL	24:00	NIL	NIL	1000 KW	15:55				
15-May-09	NIL	NIL	15:25	NIL	NIL	24:00	NIL	NIL	1000 KW	08:35				
16-May-09	NIL	NIL	13:25	NIL	NIL	24:00	NIL	NIL	1000 KW	10:35				
17-May-09	NIL	NIL	08:25	NIL	NIL	24:00	NIL	NIL	1000 KW	15:35				
18-May-09	NIL	NIL	09:20	NIL	NIL	24:00	NIL	NIL	1000 KW	14:40				
19-May-09	NIL	NIL	12:15	NIL	NIL	24:00	NIL	NIL	1000 KW	11:45				
20-May-09	NIL	NIL	16:25	NIL	NIL	24:00	NIL	NIL	1000 KW	07:35				
21-May-09	NIL	NIL	19:05	NIL	NIL	24:00	NIL	NIL	1000 KW	04:55				
22-May-09	NIL	NIL	17:15	NIL	NIL	24:00	NIL	NIL	1000 KW	06:45				
23-May-09	NIL	NIL	15:10	NIL	NIL	24:00	NIL	NIL	1000 KW	08:50				
24-May-09	645	01:45	13:40	NIL	NIL	22:15	3.1	300	1000 KW	08:35				
25-May-09	NIL	NIL	16:40	NIL	NIL	24:00	NIL	NIL	1000 KW	07:20				
26-May-09	NIL	NIL	17:00	NIL	NIL	24:00	NIL	NIL	1000 KW	07:00				
27-May-09	NIL	NIL	13:50	NIL	NIL	24:00	NIL	NIL	1000 KW	10:10				
28-May-09	NIL	NIL	14:55	NIL	NIL	24:00	NIL	NIL	1000 KW	09:05				
29-May-09	NIL	NIL	08:30	NIL	NIL	24:00	NIL	NIL	1000 KW	15:30				
30-May-09	NIL	NIL	15:05	NIL	NIL	24:00	NIL	NIL	1000 KW	08:55				
31-May-09	NIL	NIL	24:00:00	NIL	NIL	24:00	NIL	NIL	1000 KW	NIL				



# BIHAR STATE HYDROELECTRIC PROJECT NASARIGANJ UNIT NO 2 NUMBERS OF UNITS TWO(2) TOTAL CAPACITY 2x500 KW

Sl.No.	Date	Discharge		Running Hrs	Grid Fail	Brake		Trash rack clean	Total Outage Hrs.	Head	Daily Generatio		Water level
		from Power House	Power			down Machine	n				As per design Generatio	low	
	1-May-09	NIL	NIL	14:50	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	09:10	
	2-May-09	NIL	NIL	17:35	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	06:25	
	3-May-09	NIL	NIL	10:45	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	13:15	
	4-May-09	NIL	NIL	14:35	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	09:25	
	5-May-09	NIL	NIL	13:40	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	10:20	
	6-May-09	NIL	NIL	14:30	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	09:30	
	7-May-09	NIL	NIL	14:45	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	09:15	
	8-May-09	NIL	NIL	15:45	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	08:15	
	9-May-09	NIL	NIL	09:13	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	14:45	
	10-May-09	NIL	NIL	13:50	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	10:10	
	11-May-09	NIL	NIL	06:20	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	17:40	
	12-May-09	NIL	NIL	23:05	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	00:55	
	13-May-09	NIL	NIL	19:55	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	04:05	
	14-May-09	NIL	NIL	08:05	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	15:55	
	15-May-09	NIL	NIL	15:25	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	08:35	
	16-May-09	NIL	NIL	13:25	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	10:35	
	17-May-09	NIL	NIL	08:25	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	15:35	
	18-May-09	NIL	NIL	09:20	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	14:40	
	19-May-09	NIL	NIL	12:15	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	11:45	
	20-May-09	NIL	NIL	16:25	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	07:35	
	21-May-09	NIL	NIL	19:05	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	04:55	
	22-May-09	NIL	NIL	17:15	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	06:45	
	23-May-09	NIL	NIL	15:10	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	08:50	
	24-May-09	645	01:30	13:40	NIL	NIL	NIL	22:15	3.1	340	1000 KW	08:50	
	25-May-09	NIL	NIL	16:40	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	07:20	
	26-May-09	NIL	NIL	17:00	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	07:00	
	27-May-09	NIL	NIL	13:50	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	10:10	
	28-May-09	NIL	NIL	14:55	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	09:05	
	29-May-09	NIL	NIL	08:30	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	15:30	
	30-May-09	NIL	NIL	15:05	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	08:55	
	31-May-09	NIL	NIL	24:00:00	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	NIL	

# BIHAR STATE HYDROELECTRIC PROJECT NASARIGANJ UNIT NO.1 TOTAL CAPACITY 2x500 KW

## NUMBERS OF UNITS TWO(2)

Sl.No.	Date	Discharge from Power House	Running Hrs	Grid Fail	Brake down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generatio n	As per design Generatio n	Water level low
1-Jun-09	NIL	NIL	NIL	21:25	NIL	NIL	24:00	NIL	NIL	1000 KW	03:35
2-Jun-09	NIL	NIL	NIL	12:15	NIL	NIL	24:00	NIL	NIL	1000 KW	11:45
3-Jun-09	NIL	NIL	NIL	08:05	NIL	NIL	24:00	NIL	NIL	1000 KW	15:55
4-Jun-09	NIL	NIL	NIL	13:20	NIL	NIL	24:00	NIL	NIL	1000 KW	10:40
5-Jun-09	NIL	NIL	NIL	13:05	NIL	NIL	24:00	NIL	NIL	1000 KW	10:55
6-Jun-09	NIL	NIL	NIL	23:55	NIL	NIL	24:00	NIL	NIL	1000 KW	00:05
7-Jun-09	NIL	NIL	NIL	18:05	NIL	NIL	24:00	NIL	NIL	1000 KW	05:55
8-Jun-09	NIL	NIL	NIL	11:30	NIL	NIL	24:00	NIL	NIL	1000 KW	12:30
9-Jun-09	NIL	NIL	NIL	13:15	NIL	NIL	24:00	NIL	NIL	1000 KW	10:45
10-Jun-09	NIL	NIL	NIL	17:10	NIL	NIL	24:00	NIL	NIL	1000 KW	06:50
11-Jun-09	NIL	NIL	NIL	11:50	NIL	NIL	24:00	NIL	NIL	1000 KW	12:10
12-Jun-09	390	01:25	10:40	NIL	NIL	NIL	22:35	3.1	390	1000 KW	11:55
13-Jun-09	362	05:25	05:05	NIL	NIL	NIL	18:35	4	1590	1000 KW	13:30
14-Jun-09	NIL	NIL	04:25	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	19:35
15-Jun-09	NIL	NIL	07:20	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	16:40
16-Jun-09	NIL	NIL	07:45	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	16:15
17-Jun-09	NIL	NIL	06:40	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	17:20
18-Jun-09	NIL	NIL	11:25	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	12:35
19-Jun-09	NIL	NIL	05:45	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	18:15
20-Jun-09	NIL	NIL	02:10	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	21:50
21-Jun-09	NIL	NIL	05:15	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	18:45
22-Jun-09	NIL	NIL	01:45	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	17:50
23-Jun-09	352	11:25	04:30	NIL	NIL	NIL	12:35	4.5	4350	1000 KW	08:05
24-Jun-09	819	15:40	03:05	NIL	NIL	NIL	08:20	3.9	6420	1000 KW	05:15
25-Jun-09	588	08:40	10:50	NIL	NIL	NIL	15:20	3.7	3920	1000 KW	04:30
26-Jun-09	507	06:25	14:05	NIL	NIL	NIL	17:35	3.8	2510	1000 KW	03:30
27-Jun-09	711	08:00	11:35	NIL	NIL	NIL	16:00	4.1	2160	1000 KW	04:25
28-Jun-09	362	11:30	12:30	NIL	NIL	NIL	12:30	3.8	3360	1000 KW	NIL
29-Jun-09	382	16:10	07:50	NIL	NIL	NIL	07:50	3.8	5660	1000 KW	NIL
30-Jun-09	390	01:15	20:25	NIL	NIL	NIL	22:45	NIL	390	1000 KW	02:20



**BIHAR STATE HYDROELECTRIC PROJECT NASARIGANJ UNIT NO 2**  
**TOTAL CAPACITY 2x500 KW**  
**NUMBERS OF UNITS TWO(2)**

Sl.No.	Date	Discharge		Running	Grid Fail	Brake		Trash rack	Total	Head	Daily		As per		Water
		from	Power	Hrs		down	Machine	clean	Outage		Generatio	n	design	Generatio	level low
		House							Hrs.						
1-Jun-09	NIL		NIL			21:25	NIL	NIL	24:00	NIL	NIL		1000 KW		03:35
2-Jun-09	NIL		NIL			12:15	NIL	NIL	24:00	NIL	NIL		1000 KW		11:45
3-Jun-09	NIL		NIL			08:05	NIL	NIL	24:00	NIL	NIL		1000 KW		15:55
4-Jun-09	NIL		NIL			13:20	NIL	NIL	24:00	NIL	NIL		1000 KW		10:40
5-Jun-09	NIL		NIL			13:05	NIL	NIL	24:00	NIL	NIL		1000 KW		10:55
6-Jun-09	NIL		NIL			23:55	NIL	NIL	24:00	NIL	NIL		1000 KW		00:05
7-Jun-09	NIL		NIL			18:05	NIL	NIL	24:00	NIL	NIL		1000 KW		05:55
8-Jun-09	NIL		NIL			11:30	NIL	NIL	24:00	NIL	NIL		1000 KW		12:30
9-Jun-09	NIL		NIL			13:15	NIL	NIL	24:00	NIL	NIL		1000 KW		10:45
10-Jun-09	NIL		NIL			17:10	NIL	NIL	24:00	NIL	NIL		1000 KW		06:50
11-Jun-09	NIL		NIL			11:50	NIL	NIL	24:00	NIL	NIL		1000 KW		12:10
12-Jun-09	NIL		390	NIL		10:15	NIL	NIL	24:00	3.1	NIL		1000 KW		13:45
13-Jun-09	NIL		362	NIL		04:30	NIL	NIL	24:00	4	NIL		1000 KW		19:30
14-Jun-09	NIL		NIL			04:25	NIL	NIL	24:00	NIL	NIL		1000 KW		19:35
15-Jun-09	NIL		NIL			07:20	NIL	NIL	24:00	NIL	NIL		1000 KW		16:40
16-Jun-09	NIL		NIL			07:45	NIL	NIL	24:00	NIL	NIL		1000 KW		16:15
17-Jun-09	NIL		NIL			06:40	NIL	NIL	24:00	NIL	NIL		1000 KW		17:20
18-Jun-09	NIL		NIL			11:25	NIL	NIL	24:00	NIL	NIL		1000 KW		12:35
19-Jun-09	NIL		NIL			05:45	NIL	NIL	24:00	NIL	NIL		1000 KW		18:15
20-Jun-09	NIL		NIL			02:10	NIL	NIL	24:00	NIL	NIL		1000 KW		21:50
21-Jun-09	NIL		NIL			05:15	NIL	NIL	24:00	NIL	NIL		1000 KW		18:45
22-Jun-09	NIL		NIL			01:45	NIL	NIL	24:00	NIL	NIL		1000 KW		17:50
23-Jun-09			352	00:35		04:15	NIL	NIL	23:25	4.5			120 1000 KW		19:10
24-Jun-09			819	11:50		03:00	NIL	NIL	12:10	3.9			4360 1000 KW		09:10
25-Jun-09			588			10:35	NIL	NIL	24:00	3.7	NIL		1000 KW		13:25
26-Jun-09			507	00:55		13:40	NIL	NIL	23:05	3.8			330 1000 KW		09:25
27-Jun-09			711	08:15		10:50	NIL	NIL	15:45	4.1			2530 1000 KW		04:55
28-Jun-09			362			12:10	NIL	NIL	24:00	3.8	NIL		1000 KW		11:50
29-Jun-09			382			07:35	NIL	NIL	24:00	3.8	NIL		1000 KW		16:25
30-Jun-09	NIL		NIL			20:20	NIL	NIL	24:00	NIL	NIL		1000 KW		03:40

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# BIHAR STATE HYDROELECTRIC PROJECT NASARIGANJ UNIT NO 1

## NUMBERS OF UNITS TWO(2)

TOTAL CAPACITY 2x500 KW

Sl.No.	Date	Discharge from Power House	Running Hrs	Grid Fail	Brake down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generatio n	As per design Generatio n	Water level low
1-Jul-09	NIL	NIL	NIL	01:25	NIL	NIL	24:00	NIL	NIL	1000 KW	22:35
2-Jul-09	NIL	NIL	NIL	06:10	NIL	NIL	24:00	NIL	NIL	1000 KW	17:50
3-Jul-09	535	02:25	06:45	NIL	NIL	NIL	21:35	4.0	1060	1000 KW	14:50
4-Jul-09	844	15:30	05:55	NIL	NIL	NIL	08:30	3.7	6010	1000 KW	02:35
5-Jul-09	845	16:30	07:10	NIL	NIL	NIL	07:30	3.6	6540	1000 KW	00:20
6-Jul-09	967	16:25	07:35	NIL	NIL	NIL	07:35	3.6	6480	1000 KW	NIL
7-Jul-09	912	08:50	15:10	NIL	NIL	NIL	15:10	3.6	3180	1000 KW	NIL
8-Jul-09	1017	15:55	08:05	NIL	NIL	NIL	08:05	3.5	6020	1000 KW	NIL
9-Jul-09	1049	08:35	07:20	08:05	NIL	NIL	15:25	3.0	3080	1000 KW	NIL
10-Jul-09	866	12:05	11:55	NIL	NIL	NIL	11:55	4.1	4480	1000 KW	NIL
11-Jul-09	971	13:40	10:20	NIL	NIL	NIL	10:20	3.5	5060	1000 KW	NIL
12-Jul-09	915	10:55	08:15	04:50	NIL	NIL	13:05	3.1	3980	1000 KW	NIL
13-Jul-09	NIL	NIL	11:50	12:10	NIL	NIL	24:00	NIL	NIL	1000 KW	NIL
14-Jul-09	NIL	NIL	13:35	10:25	NIL	NIL	24:00	NIL	NIL	1000 KW	NIL
15-Jul-09	NIL	NIL	11:15	12:45	NIL	NIL	24:00	NIL	NIL	1000 KW	NIL
16-Jul-09	NIL	NIL	12:35	11:25	NIL	NIL	24:00	NIL	NIL	1000 KW	NIL
17-Jul-09	NIL	NIL	17:15	06:45	NIL	NIL	24:00	NIL	NIL	1000 KW	NIL
18-Jul-09	NIL	NIL	16:50	07:10	NIL	NIL	24:00	NIL	NIL	1000 KW	NIL
19-Jul-09	NIL	NIL	15:35	08:25	NIL	NIL	24:00	NIL	NIL	1000 KW	NIL
20-Jul-09	NIL	NIL	19:50	04:10	NIL	NIL	24:00	NIL	NIL	1000 KW	NIL
21-Jul-09	NIL	NIL	17:40	06:20	NIL	NIL	24:00	NIL	NIL	1000 KW	NIL
22-Jul-09	NIL	NIL	15:35	08:25	NIL	NIL	24:00	NIL	NIL	1000 KW	NIL
23-Jul-09	NIL	NIL	14:30	09:30	NIL	NIL	24:00	NIL	NIL	1000 KW	NIL
24-Jul-09	NIL	NIL	15:10	08:50	NIL	NIL	24:00	NIL	NIL	1000 KW	NIL
25-Jul-09	NIL	NIL	21:55	02:05	NIL	NIL	24:00	NIL	NIL	1000 KW	NIL
26-Jul-09	NIL	NIL	15:00	09:00	NIL	NIL	24:00	NIL	NIL	1000 KW	NIL
27-Jul-09	NIL	NIL	03:25	20:35	NIL	NIL	24:00	NIL	NIL	1000 KW	NIL
28-Jul-09	NIL	NIL	16:25	07:35	NIL	NIL	24:00	NIL	NIL	1000 KW	NIL
29-Jul-09	NIL	NIL	07:55	16:05	NIL	NIL	24:00	NIL	NIL	1000 KW	NIL
30-Jul-09	NIL	NIL	08:55	15:05	NIL	NIL	24:00	NIL	NIL	1000 KW	NIL
31-Jul-09	NIL	NIL	12:05	11:55	NIL	NIL	24:00	NIL	NIL	1000 KW	NIL



# BIHAR STATE HYDROELECTRIC PROJECT NASARIGANJ UNIT NO 2 TOTAL CAPACITY 2x500 KW

NUMBERS OF UNITS TWO(2)											
Sl.No.	Date	Discharge from Power House	Running Hrs	Grid Fail	Brake down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generatio n	As per design Generatio n	Water level low
1-Jul-09	NIL	NIL	NIL	01:25	NIL	NIL	24:00	NIL	NIL	1000 KW	22:35
2-Jul-09	NIL	NIL	NIL	06:10	NIL	NIL	24:00	NIL	NIL	1000 KW	17:50
3-Jul-09	535	00:05	06:45	NIL	NIL	23:55	4.0	30	1000 KW	17:10	
4-Jul-09	844	13:45	05:25	NIL	NIL	10:15	3.7	4750	1000 KW	04:20	
5-Jul-09	845	11:30	07:25	NIL	NIL	12:30	3.6	3890	1000 KW	05:05	
6-Jul-09	967	16:00	08:00	NIL	NIL	08:00	3.6	5510	1000 KW	NIL	
7-Jul-09	912	08:20	15:40	NIL	NIL	15:40	3.6	2930	1000 KW	NIL	
8-Jul-09	1017	15:35	08:25	NIL	NIL	08:25	3.5	5660	1000 KW	NIL	
9-Jul-09	1049	08:20	07:35	08:05	NIL	15:40	3.0	2580	1000 KW	NIL	
10-Jul-09	866	11:35	12:25	NIL	NIL	12:25	4.1	4130	1000 KW	NIL	
11-Jul-09	971	13:15	10:45	NIL	NIL	10:45	3.5	4480	1000 KW	NIL	
12-Jul-09	915	15:15	08:45	NIL	NIL	08:45	3.1	5600	1000 KW	NIL	
13-Jul-09	524	11:45	12:15	NIL	NIL	12:15	3.3	4450	1000 KW	NIL	
14-Jul-09	516	10:05	13:55	NIL	NIL	13:55	3.5	3830	1000 KW	NIL	
15-Jul-09	513	12:25	11:35	NIL	NIL	11:35	3.5	4870	1000 KW	NIL	
16-Jul-09	528	10:50	13:10	NIL	NIL	13:10	3.5	4090	1000 KW	NIL	
17-Jul-09	580	06:30	17:30	NIL	NIL	17:30	3.3	2470	1000 KW	NIL	
18-Jul-09	538	07:00	17:00	NIL	NIL	17:00	3.4	2670	1000 KW	NIL	
19-Jul-09	508	03:50	20:10	NIL	NIL	20:10	4.0	1480	1000 KW	NIL	
20-Jul-09	440	03:55	20:05	NIL	NIL	20:05	4.0	1500	1000 KW	NIL	
21-Jul-09	477	06:10	17:50	NIL	NIL	17:50	3.6	2380	1000 KW	NIL	
22-Jul-09	534	08:05	15:55	NIL	NIL	15:55	3.3	3120	1000 KW	NIL	
23-Jul-09	475	09:15	14:45	NIL	NIL	14:45	3.5	3320	1000 KW	NIL	
24-Jul-09	503	06:00	15:20	02:40	NIL	18:00	3.4	2280	1000 KW	NIL	
25-Jul-09	486	01:50	22:10	NIL	NIL	22:10	3.5	690	1000 KW	NIL	
26-Jul-09	547	08:25	15:35	NIL	NIL	15:35	3.2	3330	1000 KW	NIL	
27-Jul-09	540	20:05	03:55	NIL	NIL	03:55	3.2	7680	1000 KW	NIL	
28-Jul-09	494	07:25	16:35	NIL	NIL	16:35	3.4	2780	1000 KW	NIL	
29-Jul-09	489	15:50	08:10	NIL	NIL	08:10	3.5	5890	1000 KW	NIL	
30-Jul-09	566	14:50	09:10	NIL	NIL	09:10	3.4	6340	1000 KW	NIL	
31-Jul-09	548	11:40	12:20	NIL	NIL	12:20	3.5	4920	1000 KW	NIL	

# BIHAR STATE HYDROELECTRIC PROJECT NASARIGANJ UNIT NO.1 TOTAL CAPACITY 2x500 KW

## NUMBERS OF UNITS TWO(2)

Sl.No.	Date	Discharge		Running Hrs	Grid Fail	Brake		Trash rack	Total Outage Hrs.	Head	Daily		As per design	Water level
		from Power House	to			down Machine	clean				n	Generatio		
1-Aug-09	NIL			NIL	13:40	10:20	NIL	24:00	NIL	NIL	1000 KW	NIL		
2-Aug-09	NIL			NIL	12:20	11:40	NIL	24:00	NIL	NIL	1000 KW	NIL		
3-Aug-09	NIL			NIL	16:30	07:30	NIL	24:00	NIL	NIL	1000 KW	NIL		
4-Aug-09	NIL			NIL	17:25	06:35	NIL	24:00	NIL	NIL	1000 KW	NIL		
5-Aug-09	NIL			NIL	12:55	11:05	NIL	24:00	NIL	NIL	1000 KW	NIL		
6-Aug-09	NIL			NIL	10:40	13:20	NIL	24:00	NIL	NIL	1000 KW	NIL		
7-Aug-09	NIL			NIL	10:45	13:15	NIL	24:00	NIL	NIL	1000 KW	NIL		
8-Aug-09	NIL			NIL	15:40	08:20	NIL	24:00	NIL	NIL	1000 KW	NIL		
9-Aug-09	NIL			NIL	11:35	12:25	NIL	24:00	NIL	NIL	1000 KW	NIL		
10-Aug-09	NIL			NIL	19:00	05:00	NIL	24:00	NIL	NIL	1000 KW	NIL		
11-Aug-09	NIL			NIL	05:50	18:10	NIL	24:00	NIL	NIL	1000 KW	NIL		
12-Aug-09	NIL			NIL	06:25	17:35	NIL	24:00	NIL	NIL	1000 KW	NIL		
13-Aug-09	NIL			NIL	06:05	17:55	NIL	24:00	NIL	NIL	1000 KW	NIL		
14-Aug-09	NIL			NIL	08:40	15:20	NIL	24:00	NIL	NIL	1000 KW	NIL		
15-Aug-09	NIL			NIL	16:35	07:25	NIL	24:00	NIL	NIL	1000 KW	NIL		
16-Aug-09	NIL			NIL	14:30	09:30	NIL	24:00	NIL	NIL	1000 KW	NIL		
17-Aug-09	NIL			NIL	05:00	19:00	NIL	24:00	NIL	NIL	1000 KW	NIL		
18-Aug-09	NIL			NIL	11:25	12:35	NIL	24:00	NIL	NIL	1000 KW	NIL		
19-Aug-09	NIL			NIL	16:55	07:05	NIL	24:00	NIL	NIL	1000 KW	NIL		
20-Aug-09	NIL			NIL	15:00	09:00	NIL	24:00	NIL	NIL	1000 KW	NIL		
21-Aug-09	NIL			NIL	12:05	11:55	NIL	24:00	NIL	NIL	1000 KW	NIL		
22-Aug-09	NIL			NIL	13:40	10:20	NIL	24:00	NIL	NIL	1000 KW	NIL		
23-Aug-09	NIL			NIL	03:55	20:05	NIL	24:00	NIL	NIL	1000 KW	NIL		
24-Aug-09	NIL			NIL	07:20	16:40	NIL	24:00	NIL	NIL	1000 KW	NIL		
25-Aug-09	NIL			NIL	08:20	15:40	NIL	24:00	NIL	NIL	1000 KW	NIL		
26-Aug-09	NIL			NIL	11:15	12:45	NIL	24:00	NIL	NIL	1000 KW	NIL		
27-Aug-09	NIL			NIL	03:05	20:55	NIL	24:00	NIL	NIL	1000 KW	NIL		
28-Aug-09	NIL			NIL	03:50	20:10	NIL	24:00	NIL	NIL	1000 KW	NIL		
29-Aug-09	NIL			NIL	07:45	16:15	NIL	24:00	NIL	NIL	1000 KW	NIL		
30-Aug-09	NIL			NIL	03:15	20:45	NIL	24:00	NIL	NIL	1000 KW	NIL		
31-Aug-09	NIL			NIL	10:50	13:10	NIL	24:00	NIL	NIL	1000 KW	NIL		



# BIHAR STATE HYDROELECTRIC PROJECT NASARIGANJ UNIT NO 2 NUMBERS OF UNITS TWO(2) TOTAL CAPACITY 2x500 KW

Sl.No.	Date	Discharge from Power	Running Hrs	Grid Fail	Brake down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation n	As per design Generation n	Water level low
		House									
1-Aug-09			570	08:50	13:50 NIL	NIL	15:10	3.3	3710	1000 KW	01:20
2-Aug-09	NIL				12:20 NIL	NIL	24:00	NIL	NIL	1000 KW	11:40
3-Aug-09	NIL				16:30 NIL	NIL	24:00	NIL	NIL	1000 KW	07:30
4-Aug-09	NIL				17:25 NIL	NIL	24:00	NIL	NIL	1000 KW	06:35
5-Aug-09	NIL				12:55 NIL	NIL	24:00	NIL	NIL	1000 KW	11:05
6-Aug-09	NIL				10:40 NIL	NIL	24:00	NIL	NIL	1000 KW	13:20
7-Aug-09	NIL				10:45 NIL	NIL	24:00	NIL	NIL	1000 KW	13:15
8-Aug-09	NIL				15:40 NIL	NIL	24:00	NIL	NIL	1000 KW	08:00
9-Aug-09	NIL				11:35 NIL	NIL	24:00	NIL	NIL	1000 KW	12:25
10-Aug-09	NIL				19:00 NIL	NIL	24:00	NIL	NIL	1000 KW	05:00
11-Aug-09	NIL				05:50 NIL	NIL	24:00	NIL	NIL	1000 KW	18:10
12-Aug-09	NIL				06:25 NIL	NIL	24:00	NIL	NIL	1000 KW	17:35
13-Aug-09	NIL				06:05 NIL	NIL	24:00	NIL	NIL	1000 KW	17:55
14-Aug-09	NIL				08:40 NIL	NIL	24:00	NIL	NIL	1000 KW	15:20
15-Aug-09	NIL				16:35 NIL	NIL	24:00	NIL	NIL	1000 KW	07:25
16-Aug-09			542	08:40	15:20 NIL	NIL	15:20	3.2	3350	1000 KW	NIL
17-Aug-09			516	18:25	05:35 NIL	NIL	05:35	3.5	7190	1000 KW	NIL
18-Aug-09			568	12:10	11:50 NIL	NIL	11:50	3.5	5300	1000 KW	NIL
19-Aug-09			550	07:00	17:00 NIL	NIL	17:00	3.5	2980	1000 KW	NIL
20-Aug-09			539	04:15	15:20	04:25 NIL	19:45	3.5	1790	1000 KW	NIL
21-Aug-09			529	01:15	12:15	10:30 NIL	22:45	3.5	480	1000 KW	NIL
22-Aug-09			485	09:50	14:10 NIL	NIL	14:10	3.9	4030	1000 KW	NIL
23-Aug-09			527	19:25	04:35 NIL	NIL	04:35	3.3	7530	1000 KW	NIL
24-Aug-09			450	10:30	07:35 NIL	NIL	13:30	3.2	3250	1000 KW	05:55
25-Aug-09			520	15:10	08:50 NIL	NIL	08:50	3.5	6060	1000 KW	NIL
26-Aug-09			463	12:00	12:00 NIL	NIL	12:00	3.8	4450	1000 KW	NIL
27-Aug-09			463	20:40	03:20 NIL	NIL	03:20	3.8	7960	1000 KW	NIL
28-Aug-09			503	19:55	04:05 NIL	NIL	04:05	3.5	7700	1000 KW	NIL
29-Aug-09			482	15:50	08:10 NIL	NIL	08:10	3.5	5900	1000 KW	NIL
30-Aug-09			518	20:20	03:40 NIL	NIL	03:40	3.2	7530	1000 KW	NIL
31-Aug-09			529	13:10	10:50 NIL	NIL	10:50	3.2	4890	1000 KW	NIL

# BIHAR STATE HYDROELECTRIC PROJECT NASARIGANJ UNIT NO 2 TOTAL CAPACITY 2x500 KW

## NUMBERS OF UNITS TWO(2)

NUMBERS OF UNITS TWO(2)															
Sl.No.	Date	Discharge		Running Hrs	Grid Fail	Brake		Trash rack clean	Total		Head	Daily		As per	
		from Power	House			down Machine	Outage Hrs.		Generatio n	design n		Water level	low		
1-Aug-09			570	08:50	13:50	NIL	NIL	15:10	3.3	3710	1000 KW	1000 KW	01:20		
2-Aug-09		NIL	NIL		12:20	NIL	NIL	24:00	NIL	NIL	1000 KW	1000 KW	11:40		
3-Aug-09		NIL	NIL		16:30	NIL	NIL	24:00	NIL	NIL	1000 KW	1000 KW	07:30		
4-Aug-09		NIL	NIL		17:25	NIL	NIL	24:00	NIL	NIL	1000 KW	1000 KW	06:35		
5-Aug-09		NIL	NIL		12:55	NIL	NIL	24:00	NIL	NIL	1000 KW	1000 KW	11:05		
6-Aug-09		NIL	NIL		10:40	NIL	NIL	24:00	NIL	NIL	1000 KW	1000 KW	13:20		
7-Aug-09		NIL	NIL		10:45	NIL	NIL	24:00	NIL	NIL	1000 KW	1000 KW	13:15		
8-Aug-09		NIL	NIL		15:40	NIL	NIL	24:00	NIL	NIL	1000 KW	1000 KW	08:00		
9-Aug-09		NIL	NIL		11:35	NIL	NIL	24:00	NIL	NIL	1000 KW	1000 KW	12:25		
10-Aug-09		NIL	NIL		19:00	NIL	NIL	24:00	NIL	NIL	1000 KW	1000 KW	05:00		
11-Aug-09		NIL	NIL		05:50	NIL	NIL	24:00	NIL	NIL	1000 KW	1000 KW	18:10		
12-Aug-09		NIL	NIL		06:25	NIL	NIL	24:00	NIL	NIL	1000 KW	1000 KW	17:35		
13-Aug-09		NIL	NIL		06:05	NIL	NIL	24:00	NIL	NIL	1000 KW	1000 KW	17:55		
14-Aug-09		NIL	NIL		08:40	NIL	NIL	24:00	NIL	NIL	1000 KW	1000 KW	15:20		
15-Aug-09		NIL	NIL		16:35	NIL	NIL	24:00	NIL	NIL	1000 KW	1000 KW	07:25		
16-Aug-09		542	08:40		15:20	NIL	NIL	15:20	3.2	3350	1000 KW	1000 KW			
17-Aug-09		516	18:25		05:35	NIL	NIL	05:35	3.5	7190	1000 KW	1000 KW			
18-Aug-09		568	12:10		11:50	NIL	NIL	11:50	3.5	5300	1000 KW	1000 KW			
19-Aug-09		550	07:00		17:00	NIL	NIL	17:00	3.5	2980	1000 KW	1000 KW			
20-Aug-09		539	04:15		15:20	NIL	NIL	19:45	3.5	1790	1000 KW	1000 KW			
21-Aug-09		529	01:15		12:15	NIL	NIL	22:45	3.5	480	1000 KW	1000 KW			
22-Aug-09		485	09:50		14:10	NIL	NIL	14:10	3.9	4030	1000 KW	1000 KW			
23-Aug-09		527	19:25		04:35	NIL	NIL	04:35	3.3	7530	1000 KW	1000 KW			
24-Aug-09		450	10:30		07:35	NIL	NIL	13:30	3.2	3250	1000 KW	1000 KW			
25-Aug-09		520	15:10		08:50	NIL	NIL	08:50	3.5	6060	1000 KW	1000 KW			
26-Aug-09		463	12:00		12:00	NIL	NIL	12:00	3.8	4450	1000 KW	1000 KW			
27-Aug-09		463	20:40		03:20	NIL	NIL	03:20	3.8	7960	1000 KW	1000 KW			
28-Aug-09		503	19:55		04:05	NIL	NIL	04:05	3.5	7700	1000 KW	1000 KW			
29-Aug-09		482	15:50		08:10	NIL	NIL	08:10	3.5	5900	1000 KW	1000 KW			
30-Aug-09		518	20:20		03:40	NIL	NIL	03:40	3.2	7530	1000 KW	1000 KW			
31-Aug-09		529	13:10		10:50	NIL	NIL	10:50	3.2	4890	1000 KW	1000 KW			



# BIHAR STATE HYDROELECTRIC PROJECT NASARIGANJ UNIT NO 1 TOTAL CAPACITY 2x500 KW

## NUMBERS OF UNITS TWO(2)

NUMBERS OF UNITS TWO(2)														
Sl.No.	Date	Discharge		Running Hrs	Grid Fail	Brake		Trash rack clean	Total Outage Hrs.	Head	Daily Generatio		As per design	
		from Power House	to			down Machine	up				n	n	Generatio	Water level low
1-Sep-09	NIL	NIL	15:30	08:30	NIL	24:00	NIL	NIL	1000 KW	NIL	1000 KW	NIL	1000 KW	NIL
2-Sep-09	NIL	NIL	08:40	15:20	NIL	24:00	NIL	NIL	1000 KW	NIL	1000 KW	NIL	1000 KW	NIL
3-Sep-09	NIL	NIL	07:45	16:15	NIL	24:00	NIL	NIL	1000 KW	NIL	1000 KW	NIL	1000 KW	NIL
4-Sep-09	NIL	NIL	03:35	20:25	NIL	24:00	NIL	NIL	1000 KW	NIL	1000 KW	NIL	1000 KW	NIL
5-Sep-09	NIL	NIL	03:05	20:55	NIL	24:00	NIL	NIL	1000 KW	NIL	1000 KW	NIL	1000 KW	NIL
6-Sep-09	NIL	NIL	05:10	18:50	NIL	24:00	NIL	NIL	1000 KW	NIL	1000 KW	NIL	1000 KW	NIL
7-Sep-09	NIL	NIL	22:20	01:40	NIL	24:00	NIL	NIL	1000 KW	NIL	1000 KW	NIL	1000 KW	NIL
8-Sep-09	NIL	NIL	18:30	05:30	NIL	24:00	NIL	NIL	1000 KW	NIL	1000 KW	NIL	1000 KW	NIL
9-Sep-09	NIL	NIL	04:25	19:35	NIL	24:00	NIL	NIL	1000 KW	NIL	1000 KW	NIL	1000 KW	NIL
10-Sep-09	NIL	NIL	11:20	06:25	NIL	24:00	NIL	NIL	1000 KW	NIL	1000 KW	NIL	1000 KW	NIL
11-Sep-09	NIL	NIL	11:35	12:25	NIL	24:00	NIL	NIL	1000 KW	NIL	1000 KW	NIL	1000 KW	NIL
12-Sep-09	NIL	NIL	12:25	11:35	NIL	24:00	NIL	NIL	1000 KW	NIL	1000 KW	NIL	1000 KW	NIL
13-Sep-09	NIL	NIL	06:55	17:05	NIL	24:00	NIL	NIL	1000 KW	NIL	1000 KW	NIL	1000 KW	NIL
14-Sep-09	NIL	NIL	11:10	12:50	NIL	24:00	NIL	NIL	1000 KW	NIL	1000 KW	NIL	1000 KW	NIL
15-Sep-09	NIL	NIL	11:30	12:30	NIL	24:00	NIL	NIL	1000 KW	NIL	1000 KW	NIL	1000 KW	NIL
16-Sep-09	NIL	NIL	15:35	08:25	NIL	24:00	NIL	NIL	1000 KW	NIL	1000 KW	NIL	1000 KW	NIL
17-Sep-09	NIL	NIL	07:10	16:50	NIL	24:00	NIL	NIL	1000 KW	NIL	1000 KW	NIL	1000 KW	NIL
18-Sep-09	NIL	NIL	10:15	13:45	NIL	24:00	NIL	NIL	1000 KW	NIL	1000 KW	NIL	1000 KW	NIL
19-Sep-09	NIL	NIL	07:40	16:20	NIL	24:00	NIL	NIL	1000 KW	NIL	1000 KW	NIL	1000 KW	NIL
20-Sep-09	NIL	NIL	06:15	17:45	NIL	24:00	NIL	NIL	1000 KW	NIL	1000 KW	NIL	1000 KW	NIL
21-Sep-09	NIL	NIL	10:25	13:35	NIL	24:00	NIL	NIL	1000 KW	NIL	1000 KW	NIL	1000 KW	NIL
22-Sep-09	NIL	NIL	12:45	11:15	NIL	24:00	NIL	NIL	1000 KW	NIL	1000 KW	NIL	1000 KW	NIL
23-Sep-09	NIL	NIL	13:50	10:10	NIL	24:00	NIL	NIL	1000 KW	NIL	1000 KW	NIL	1000 KW	NIL
24-Sep-09	NIL	NIL	07:10	16:50	NIL	24:00	NIL	NIL	1000 KW	NIL	1000 KW	NIL	1000 KW	NIL
25-Sep-09	NIL	NIL	10:25	13:35	NIL	24:00	NIL	NIL	1000 KW	NIL	1000 KW	NIL	1000 KW	NIL
26-Sep-09	NIL	NIL	07:10	16:50	NIL	24:00	NIL	NIL	1000 KW	NIL	1000 KW	NIL	1000 KW	NIL
27-Sep-09	NIL	NIL	00:50	23:10	NIL	24:00	NIL	NIL	1000 KW	NIL	1000 KW	NIL	1000 KW	NIL
28-Sep-09	NIL	NIL	08:45	15:15	NIL	24:00	NIL	NIL	1000 KW	NIL	1000 KW	NIL	1000 KW	NIL
29-Sep-09	NIL	NIL	13:20	10:40	NIL	24:00	NIL	NIL	1000 KW	NIL	1000 KW	NIL	1000 KW	NIL
30-Sep-09	NIL	NIL	13:45	10:15	NIL	24:00	NIL	NIL	1000 KW	NIL	1000 KW	NIL	1000 KW	NIL

# BIHAR STATE HYDROELECTRIC PROJECT NASARIGANJ UNIT NO 2 TOTAL CAPACITY 2x500 KW

## NUMBERS OF UNITS TWO(2)

Sl.No.	Date	Discharge		Running Hrs	Grid Fail	Brake down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily		As per design	Water level low
		from Power	to							Generatio n	Generatio n		
		House											
1-Sep-09	435		08:00	16:00	NIL	NIL	16:00	3.5	2950	1000 KW	NIL		
2-Sep-09	586		15:00	09:00	NIL	NIL	09:00	3.5	5950	1000 KW	NIL		
3-Sep-09	475		15:50	08:10	NIL	NIL	08:10	3.8	6570	1000 KW	NIL		
4-Sep-09	524		20:00	04:00	NIL	NIL	04:00	3.2	7290	1000 KW	NIL		
5-Sep-09	426		20:40	03:20	NIL	NIL	03:20	3.4	7740	1000 KW	NIL		
6-Sep-09	481		18:15	05:45	NIL	NIL	05:45	3.4	6660	1000 KW	NIL		
7-Sep-09	442		01:40	22:20	NIL	NIL	22:20	3.3	560	1000 KW	NIL		
8-Sep-09	448		05:10	18:50	NIL	NIL	18:50	4.0	2000	1000 KW	NIL		
9-Sep-09	380		12:40	04:50	NIL	NIL	11:20	3.4	3580	1000 KW		06:30	
10-Sep-09	519		05:50	11:55	NIL	NIL	18:10	2.8	1850	1000 KW		06:15	
11-Sep-09	484		11:55	12:05	NIL	NIL	12:05	3.4	4470	1000 KW	NIL		
12-Sep-09	428		11:25	12:35	NIL	NIL	12:35	3.8	4110	1000 KW	NIL		
13-Sep-09	474		16:40	07:20	NIL	NIL	07:20	3.8	6620	1000 KW	NIL		
14-Sep-09	518		12:10	11:50	NIL	NIL	11:50	3.6	4970	1000 KW	NIL		
15-Sep-09	493		12:05	11:55	NIL	NIL	11:55	3.7	4950	1000 KW	NIL		
16-Sep-09	452		08:00	16:00	NIL	NIL	16:00	3.7	2870	1000 KW	NIL		
17-Sep-09	520		16:25	07:35	NIL	NIL	07:35	3.4	5590	1000 KW	NIL		
18-Sep-09	484		13:20	10:40	NIL	NIL	10:40	3.2	4690	1000 KW	NIL		
19-Sep-09	528		15:55	08:05	NIL	NIL	08:05	3.4	6280	1000 KW	NIL		
20-Sep-09	601		17:25	06:35	NIL	NIL	06:35	3.4	7870	1000 KW	NIL		
21-Sep-09	613		13:05	10:55	NIL	NIL	10:55	3.4	5950	1000 KW	NIL		
22-Sep-09	553		10:55	13:05	NIL	NIL	13:05	3.9	5090	1000 KW	NIL		
23-Sep-09	525		10:10	13:50	NIL	NIL	13:50	4.1	4730	1000 KW	NIL		
24-Sep-09	559		16:40	07:20	NIL	NIL	07:20	3.8	7450	1000 KW	NIL		
25-Sep-09	625		13:00	11:00	NIL	NIL	11:00	3.5	6150	1000 KW	NIL		
26-Sep-09	609		16:30	07:30	NIL	NIL	07:30	3.6	7880	1000 KW	NIL		
27-Sep-09	645		23:00	01:00	NIL	NIL	01:00	3.3	10770	1000 KW	NIL		
28-Sep-09	568		14:40	09:20	NIL	NIL	09:20	3.7	6730	1000 KW	NIL		
29-Sep-09	547		10:20	13:40	NIL	NIL	13:40	3.7	4640	1000 KW	NIL		
30-Sep-09	550		10:15	13:45	NIL	NIL	13:45	3.8	5120	1000 KW	NIL		



# BIHAR STATE HYDROELECTRIC PROJECT NASARIGANJ UNIT NO 1 TOTAL CAPACITY 2x500 KW

## NUMBERS OF UNITS TWO(2)

Sl.No.	Date	Discharge		Running Hrs	Grid Fail	Brake		Trash rack clean	Total Outage Hrs.	Head	Daily Generation		As per design		Water level low
		from Power House	to			down	Machine				n	n	Generatio	Generatio	
1-Oct-09	NIL	NIL		14:10		09:50	NIL	24:00	NIL	NIL	1000 KW	NIL			
2-Oct-09	NIL	NIL		13:05		10:55	NIL	24:00	NIL	NIL	1000 KW	NIL			
3-Oct-09	NIL	NIL		11:45		12:15	NIL	24:00	NIL	NIL	1000 KW	NIL			
4-Oct-09	NIL	NIL		06:40		17:20	NIL	24:00	NIL	NIL	1000 KW	NIL			
5-Oct-09	NIL	NIL		05:55		18:05	NIL	24:00	NIL	NIL	1000 KW	NIL			
6-Oct-09	NIL	NIL		08:55		15:05	NIL	24:00	NIL	NIL	1000 KW	NIL			
7-Oct-09	NIL	NIL		10:35		13:25	NIL	24:00	NIL	NIL	1000 KW	NIL			
8-Oct-09	NIL	NIL		07:40		16:20	NIL	24:00	NIL	NIL	1000 KW	NIL			
9-Oct-09	NIL	NIL		07:20		16:40	NIL	24:00	NIL	NIL	1000 KW	NIL			
10-Oct-09	NIL	NIL		11:15		12:45	NIL	24:00	NIL	NIL	1000 KW	NIL			
11-Oct-09	NIL	NIL		10:30		13:30	NIL	24:00	NIL	NIL	1000 KW	NIL			
12-Oct-09	NIL	NIL		08:00		16:00	NIL	24:00	NIL	NIL	1000 KW	NIL			
13-Oct-09	NIL	NIL		08:55		15:05	NIL	24:00	NIL	NIL	1000 KW	NIL			
14-Oct-09	NIL	NIL		09:45		14:15	NIL	24:00	NIL	NIL	1000 KW	NIL			
15-Oct-09	NIL	NIL		10:45		13:15	NIL	24:00	NIL	NIL	1000 KW	NIL			
16-Oct-09	NIL	NIL		11:00		13:00	NIL	24:00	NIL	NIL	1000 KW	NIL			
17-Oct-09	NIL	NIL		05:55		18:08	NIL	24:00	NIL	NIL	1000 KW	NIL			
18-Oct-09	NIL	NIL		03:20		20:40	NIL	24:00	NIL	NIL	1000 KW	NIL			
19-Oct-09	NIL	NIL		08:10		15:50	NIL	24:00	NIL	NIL	1000 KW	NIL			
20-Oct-09	NIL	NIL		09:00		15:00	NIL	24:00	NIL	NIL	1000 KW	NIL			
21-Oct-09	NIL	NIL		13:40		10:20	NIL	24:00	NIL	NIL	1000 KW	NIL			
22-Oct-09	NIL	NIL		13:20		10:40	NIL	24:00	NIL	NIL	1000 KW	NIL			
23-Oct-09	NIL	NIL		16:40		07:20	NIL	24:00	NIL	NIL	1000 KW	NIL			
24-Oct-09	NIL	NIL		11:05		12:55	NIL	24:00	NIL	NIL	1000 KW	NIL			
25-Oct-09	NIL	NIL		10:10		13:50	NIL	24:00	NIL	NIL	1000 KW	NIL			
26-Oct-09	NIL	NIL		14:20		09:40	NIL	24:00	NIL	NIL	1000 KW	NIL			
27-Oct-09	NIL	NIL		13:35		10:25	NIL	24:00	NIL	NIL	1000 KW	NIL			
28-Oct-09	NIL	NIL		14:30		09:30	NIL	24:00	NIL	NIL	1000 KW	NIL			
29-Oct-09	NIL	NIL		12:45		11:15	NIL	24:00	NIL	NIL	1000 KW	NIL			
30-Oct-09	NIL	NIL		13:50		10:10	NIL	24:00	NIL	NIL	1000 KW	NIL			
31-Oct-09	NIL	NIL		16:30		07:30	NIL	24:00	NIL	NIL	1000 KW	NIL			

**BIHAR STATE HYDROELECTRIC PROJECT NASARIGANJ UNIT NO 1**  
**NUMBERS OF UNITS TWO(2)**

**TOTAL CAPACITY 2x500 KW**

Sl.No.	Date	Discharge from Power House	Running Hrs	Grid Fail	Brake down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generatio n	As per design Generatio n	Water level low
	1-Oct-09	NIL	NIL	14:10	09:50	NIL	24:00	NIL	NIL	1000 KW	NIL
	2-Oct-09	NIL	NIL	13:05	10:55	NIL	24:00	NIL	NIL	1000 KW	NIL
	3-Oct-09	NIL	NIL	11:45	12:15	NIL	24:00	NIL	NIL	1000 KW	NIL
	4-Oct-09	NIL	NIL	06:40	17:20	NIL	24:00	NIL	NIL	1000 KW	NIL
	5-Oct-09	NIL	NIL	05:55	18:05	NIL	24:00	NIL	NIL	1000 KW	NIL
	6-Oct-09	NIL	NIL	08:55	15:05	NIL	24:00	NIL	NIL	1000 KW	NIL
	7-Oct-09	NIL	NIL	10:35	13:25	NIL	24:00	NIL	NIL	1000 KW	NIL
	8-Oct-09	NIL	NIL	07:40	16:20	NIL	24:00	NIL	NIL	1000 KW	NIL
	9-Oct-09	NIL	NIL	07:20	16:40	NIL	24:00	NIL	NIL	1000 KW	NIL
	10-Oct-09	NIL	NIL	11:15	12:45	NIL	24:00	NIL	NIL	1000 KW	NIL
	11-Oct-09	NIL	NIL	10:30	13:30	NIL	24:00	NIL	NIL	1000 KW	NIL
	12-Oct-09	NIL	NIL	08:00	16:00	NIL	24:00	NIL	NIL	1000 KW	NIL
	13-Oct-09	NIL	NIL	08:55	15:05	NIL	24:00	NIL	NIL	1000 KW	NIL
	14-Oct-09	NIL	NIL	09:45	14:15	NIL	24:00	NIL	NIL	1000 KW	NIL
	15-Oct-09	NIL	NIL	10:45	13:15	NIL	24:00	NIL	NIL	1000 KW	NIL
	16-Oct-09	NIL	NIL	11:00	13:00	NIL	24:00	NIL	NIL	1000 KW	NIL
	17-Oct-09	NIL	NIL	05:55	18:08	NIL	24:00	NIL	NIL	1000 KW	NIL
	18-Oct-09	NIL	NIL	03:20	20:40	NIL	24:00	NIL	NIL	1000 KW	NIL
	19-Oct-09	NIL	NIL	08:10	15:50	NIL	24:00	NIL	NIL	1000 KW	NIL
	20-Oct-09	NIL	NIL	09:00	15:00	NIL	24:00	NIL	NIL	1000 KW	NIL
	21-Oct-09	NIL	NIL	13:40	10:20	NIL	24:00	NIL	NIL	1000 KW	NIL
	22-Oct-09	NIL	NIL	13:20	10:40	NIL	24:00	NIL	NIL	1000 KW	NIL
	23-Oct-09	NIL	NIL	16:40	07:20	NIL	24:00	NIL	NIL	1000 KW	NIL
	24-Oct-09	NIL	NIL	11:05	12:55	NIL	24:00	NIL	NIL	1000 KW	NIL
	25-Oct-09	NIL	NIL	10:10	13:50	NIL	24:00	NIL	NIL	1000 KW	NIL
	26-Oct-09	NIL	NIL	14:20	09:40	NIL	24:00	NIL	NIL	1000 KW	NIL
	27-Oct-09	NIL	NIL	13:35	10:25	NIL	24:00	NIL	NIL	1000 KW	NIL
	28-Oct-09	NIL	NIL	14:30	09:30	NIL	24:00	NIL	NIL	1000 KW	NIL
	29-Oct-09	NIL	NIL	12:45	11:15	NIL	24:00	NIL	NIL	1000 KW	NIL
	30-Oct-09	NIL	NIL	13:50	10:10	NIL	24:00	NIL	NIL	1000 KW	NIL
	31-Oct-09	NIL	NIL	16:30	07:30	NIL	24:00	NIL	NIL	1000 KW	NIL

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## NUMBERS OF UNITS TWO(2)

TOTAL CAPACITY 2x500 KW

Date	Discharge from Power House	Running Hrs	Grid Fail	Brake down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generatio n	As per design Generatio n	Water level low	
1-Oct-09	566	09:30	14:30	NIL	NIL	14:30	3.8	4210	1000 KW	NIL	
2-Oct-09	570	10:35	13:25	NIL	NIL	13:25	3.9	4880	1000 KW	NIL	
3-Oct-09	496	11:55	12:05	NIL	NIL	12:05	3.7	4890	1000 KW	NIL	
4-Oct-09	543	16:50	07:10	NIL	NIL	07:10	3.6	7070	1000 KW	NIL	
5-Oct-09	550	17:55	06:05	NIL	NIL	06:05	3.6	8230	1000 KW	NIL	
6-Oct-09	534	14:50	09:10	NIL	NIL	09:10	3.8	6500	1000 KW	NIL	
7-Oct-09	540	12:45	11:15	NIL	NIL	11:15	3.5	5340	1000 KW	NIL	
8-Oct-09	522	16:00	08:00	NIL	NIL	08:00	3.2	5990	1000 KW	NIL	
9-Oct-09	494	16:20	07:40	NIL	NIL	07:40	3.3	5900	1000 KW	NIL	
10-Oct-09	491	12:20	11:40	NIL	NIL	11:40	3.2	4360	1000 KW	NIL	
11-Oct-09	493	13:15	10:45	NIL	NIL	10:45	3.2	4760	1000 KW	NIL	
12-Oct-09	450	15:40	08:20	NIL	NIL	08:20	3.5	5310	1000 KW	NIL	
13-Oct-09	507	14:45	09:15	NIL	NIL	09:15	3.4	5600	1000 KW	NIL	
14-Oct-09	536	13:35	10:10	NIL	NIL	10:10	3.6	5820	1000 KW	NIL	
15-Oct-09	503	12:50	11:10	NIL	NIL	11:10	3.6	5090	1000 KW	NIL	
16-Oct-09	483	12:45	11:15	NIL	NIL	11:15	3.6	4960	1000 KW	NIL	
17-Oct-09	524	17:45	06:15	NIL	NIL	06:15	3.6	7440	1000 KW	NIL	
18-Oct-09	534	20:25	03:35	NIL	NIL	03:35	3.5	8290	1000 KW	NIL	
19-Oct-09	532	15:30	08:30	NIL	NIL	08:30	3.5	6020	1000 KW	NIL	
20-Oct-09	463	13:45	10:15	NIL	NIL	10:15	3.8	5670	1000 KW	NIL	
21-Oct-09	518	10:00	14:00	NIL	NIL	14:00	3.5	3780	1000 KW	NIL	
22-Oct-09	594	10:15	13:45	NIL	NIL	13:45	3.5	4580	1000 KW	NIL	
23-Oct-09	605	06:50	17:10	NIL	NIL	17:10	3.4	3280	1000 KW	NIL	
24-Oct-09	547	10:55	11:25	NIL	NIL	13:05	3.5	5080	1000 KW	NIL	
25-Oct-09	556	13:35	10:25	NIL	NIL	10:25	3.4	5280	1000 KW	NIL	
26-Oct-09	491	03:30	14:30	NIL	NIL	20:30	4.4	1740	1000 KW		06:05
27-Oct-09	516	04:10	13:45	NIL	NIL	19:50	3.6	1730	1000 KW		09:30
28-Oct-09	NIL	NIL	14:30	NIL	NIL	24:00	NIL	NIL	1000 KW		11:15
29-Oct-09	NIL	NIL	12:45	NIL	NIL	24:00	NIL	NIL	1000 KW		10:10
30-Oct-09	NIL	NIL	13:50	NIL	NIL	24:00	NIL	NIL	1000 KW		07:30
31-Oct-09	NIL	NIL	16:30	NIL	NIL	24:00	NIL	NIL	1000 KW		

**BIHAR STATE HYDROELECTRIC PROJECT NASARIGANJ UNIT NO 1**  
**NUMERICS OF UNITS TWO(2)**  
**TOTAL CAPACITY 22500 KW**

Sl No.	Date	Discharge		Hr/bs		Total		Head	Daily		Perpet	
		from	to	down	up	Outage	Ward		Generator	Generator	Water	Water
		Power	hrs	Machine	clean	hrs.			n	n		
1	1 Nov 09	Nil	Nil	14:05	09:55	Nil	Nil	Nil	1000 KW	Nil		
2	1 Nov 09	Nil	Nil	13:25	10:35	Nil	Nil	Nil	1000 KW	Nil		
3	1 Nov 09	Nil	Nil	15:35	08:25	Nil	Nil	Nil	1000 KW	Nil		
4	1 Nov 09	Nil	Nil	15:35	08:25	Nil	Nil	Nil	1000 KW	Nil		
5	1 Nov 09	Nil	Nil	13:05	10:55	Nil	Nil	Nil	1000 KW	Nil		
6	1 Nov 09	Nil	Nil	14:25	09:35	Nil	Nil	Nil	1000 KW	Nil		
7	1 Nov 09	Nil	Nil	12:05	11:55	Nil	Nil	Nil	1000 KW	Nil		
8	1 Nov 09	Nil	Nil	12:50	11:10	Nil	Nil	Nil	1000 KW	Nil		
9	1 Nov 09	Nil	Nil	12:10	11:50	Nil	Nil	Nil	1000 KW	Nil		
10	1 Nov 09	Nil	Nil	11:45	12:20	Nil	Nil	Nil	1000 KW	Nil		
11	1 Nov 09	Nil	Nil	11:45	12:15	Nil	Nil	Nil	1000 KW	Nil		
12	1 Nov 09	Nil	Nil	12:30	11:30	Nil	Nil	Nil	1000 KW	Nil		
13	1 Nov 09	Nil	Nil	08:35	15:25	Nil	Nil	Nil	1000 KW	Nil		
14	1 Nov 09	Nil	Nil	17:10	06:50	Nil	Nil	Nil	1000 KW	Nil		
15	1 Nov 09	Nil	Nil	14:35	09:25	Nil	Nil	Nil	1000 KW	Nil		
16	1 Nov 09	Nil	Nil	11:25	12:35	Nil	Nil	Nil	1000 KW	Nil		
17	1 Nov 09	Nil	Nil	09:20	14:40	Nil	Nil	Nil	1000 KW	Nil		
18	1 Nov 09	Nil	Nil	11:20	12:40	Nil	Nil	Nil	1000 KW	Nil		
19	1 Nov 09	Nil	Nil	13:25	10:35	Nil	Nil	Nil	1000 KW	Nil		
20	1 Nov 09	Nil	Nil	11:35	12:25	Nil	Nil	Nil	1000 KW	Nil		
21	1 Nov 09	Nil	Nil	14:35	09:25	Nil	Nil	Nil	1000 KW	Nil		
22	1 Nov 09	Nil	Nil	15:30	08:40	Nil	Nil	Nil	1000 KW	Nil		
23	1 Nov 09	Nil	Nil	13:15	10:45	Nil	Nil	Nil	1000 KW	Nil		
24	1 Nov 09	Nil	Nil	13:50	11:10	Nil	Nil	Nil	1000 KW	Nil		
25	1 Nov 09	Nil	Nil	13:05	10:55	Nil	Nil	Nil	1000 KW	Nil		
26	1 Nov 09	Nil	Nil	12:00	12:00	Nil	Nil	Nil	1000 KW	Nil		
27	1 Nov 09	Nil	Nil	11:30	12:30	Nil	Nil	Nil	1000 KW	Nil		
28	1 Nov 09	Nil	Nil	13:10	10:50	Nil	Nil	Nil	1000 KW	Nil		
29	1 Nov 09	Nil	Nil	13:45	10:15	Nil	Nil	Nil	1000 KW	Nil		
30	1 Nov 09	Nil	Nil	12:15	11:45	Nil	Nil	Nil	1000 KW	Nil		



# BIHAR STATE HYDROELECTRIC PROJECT NASARIGANJ UNIT NO 2 TOTAL CAPACITY 2x500 KW

## NUMBERS OF UNITS TWO(2)

S.No.	Date	Discharge from Power House	Running Hrs	Grid Fall	Brake down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generatio n	design Generatio n	Water level low
1	Nov-09	NIL	NIL	14:05	NIL	NIL	24:00	NIL	NIL	1000 KW	09:55
2	Nov-09	NIL	NIL	13:25	NIL	NIL	24:00	NIL	NIL	1000 KW	10:35
3	Nov-09	NIL	NIL	15:35	NIL	NIL	24:00	NIL	NIL	1000 KW	08:25
4	Nov-09	NIL	NIL	15:35	NIL	NIL	24:00	NIL	NIL	1000 KW	08:25
5	Nov-09	NIL	NIL	13:05	NIL	NIL	24:00	NIL	NIL	1000 KW	10:55
6	Nov-09	NIL	NIL	14:25	NIL	NIL	24:00	NIL	NIL	1000 KW	09:35
7	Nov-09	NIL	NIL	12:05	NIL	NIL	24:00	NIL	NIL	1000 KW	11:55
8	Nov-09	NIL	NIL	12:50	NIL	NIL	24:00	NIL	NIL	1000 KW	11:10
9	Nov-09	NIL	NIL	12:10	NIL	NIL	24:00	NIL	NIL	1000 KW	11:50
10	Nov-09	NIL	NIL	11:40	NIL	NIL	24:00	NIL	NIL	1000 KW	12:20
11	Nov-09	NIL	NIL	11:45	NIL	NIL	24:00	NIL	NIL	1000 KW	12:15
12	Nov-09	NIL	NIL	12:30	NIL	NIL	24:00	NIL	NIL	1000 KW	11:30
13	Nov-09	NIL	NIL	08:35	NIL	NIL	24:00	NIL	NIL	1000 KW	15:25
14	Nov-09	NIL	NIL	17:10	NIL	NIL	24:00	NIL	NIL	1000 KW	06:50
15	Nov-09	NIL	NIL	14:35	NIL	NIL	24:00	NIL	NIL	1000 KW	09:25
16	Nov-09	NIL	NIL	11:25	NIL	NIL	24:00	NIL	NIL	1000 KW	12:35
17	Nov-09	NIL	NIL	09:20	NIL	NIL	24:00	NIL	NIL	1000 KW	14:40
18	Nov-09	502	08:45	11:35	NIL	NIL	15:15	3.4	3100	1000 KW	03:40
19	Nov-09	453	10:05	13:55	NIL	NIL	13:55	3.8	3790	1000 KW	NIL
20	Nov-09	599	08:05	13:50	01:00	NIL	15:55	3.5	2990	1000 KW	01:05
21	Nov-09	450	09:10	14:50	NIL	NIL	14:50	3.9	4060	1000 KW	NIL
22	Nov-09	493	08:20	15:40	NIL	NIL	15:40	3.3	3930	1000 KW	NIL
23	Nov-09	378	07:40	13:30	NIL	NIL	16:20	3.7	2340	1000 KW	02:50
24	Nov-09	NIL	00:20	12:50	NIL	NIL	23:40	NIL	30	1000 KW	10:50
25	Nov-09	NIL	NIL	13:05	NIL	NIL	24:00	NIL	NIL	1000 KW	10:55
26	Nov-09	NIL	NIL	12:00	NIL	NIL	24:00	NIL	NIL	1000 KW	12:00
27	Nov-09	NIL	NIL	11:30	NIL	NIL	24:00	NIL	NIL	1000 KW	12:30
28	Nov-09	NIL	NIL	13:10	NIL	NIL	24:00	NIL	NIL	1000 KW	10:50
29	Nov-09	NIL	NIL	13:45	NIL	NIL	24:00	NIL	NIL	1000 KW	10:15
30	Nov-09	NIL	NIL	12:15	NIL	NIL	24:00	NIL	NIL	1000 KW	11:45

# BIHAR STATE HYDROELECTRIC PROJECT NASARIGANJ UNIT NO 1 TOTAL CAPACITY 2x500 KW NUMBERS OF UNITS TWO(2)

Sl.No.	Date	Discharge from Power House	Running Hrs	Grid Fail	Brake down Machine	Trash rack clean	Total Outage Hrs.	Head	As per		
									Daily Generatio n	design Generatio n	Water level low
1-Dec-09	NIL	NIL	12:45	11:15	NIL	24:00	NIL	NIL	1000 KW	NIL	
2-Dec-09	NIL	NIL	14:15	09:45	NIL	24:00	NIL	NIL	1000 KW	NIL	
3-Dec-09	NIL	NIL	13:50	10:10	NIL	24:00	NIL	NIL	1000 KW	NIL	
4-Dec-09	NIL	NIL	16:35	07:25	NIL	24:00	NIL	NIL	1000 KW	NIL	
5-Dec-09	NIL	NIL	11:35	12:25	NIL	24:00	NIL	NIL	1000 KW	NIL	
6-Dec-09	NIL	NIL	12:30	11:30	NIL	24:00	NIL	NIL	1000 KW	NIL	
7-Dec-09	NIL	NIL	14:55	09:05	NIL	24:00	NIL	NIL	1000 KW	NIL	
8-Dec-09	NIL	NIL	13:20	10:40	NIL	24:00	NIL	NIL	1000 KW	NIL	
9-Dec-09	NIL	NIL	14:50	09:10	NIL	24:00	NIL	NIL	1000 KW	NIL	
10-Dec-09	NIL	NIL	13:15	10:45	NIL	24:00	NIL	NIL	1000 KW	NIL	
11-Dec-09	NIL	NIL	17:40	06:20	NIL	24:00	NIL	NIL	1000 KW	NIL	
12-Dec-09	NIL	NIL	07:55	16:05	NIL	24:00	NIL	NIL	1000 KW	NIL	
13-Dec-09	NIL	NIL	16:35	07:25	NIL	24:00	NIL	NIL	1000 KW	NIL	
14-Dec-09	NIL	NIL	18:10	05:50	NIL	24:00	NIL	NIL	1000 KW	NIL	
15-Dec-09	NIL	NIL	20:30	03:30	NIL	24:00	NIL	NIL	1000 KW	NIL	
16-Dec-09	NIL	NIL	15:45	08:35	NIL	24:00	NIL	NIL	1000 KW	NIL	
17-Dec-09	NIL	NIL	17:45	06:15	NIL	24:00	NIL	NIL	1000 KW	NIL	
18-Dec-09	NIL	NIL	21:20	02:40	NIL	24:00	NIL	NIL	1000 KW	NIL	
19-Dec-09	NIL	NIL	21:05	02:55	NIL	24:00	NIL	NIL	1000 KW	NIL	
20-Dec-09	NIL	NIL	14:20	09:40	NIL	24:00	NIL	NIL	1000 KW	NIL	
21-Dec-09	NIL	NIL	12:25	11:35	NIL	24:00	NIL	NIL	1000 KW	NIL	
22-Dec-09	NIL	NIL	13:00	11:00	NIL	24:00	NIL	NIL	1000 KW	NIL	
23-Dec-09	NIL	NIL	13:00	11:00	NIL	24:00	NIL	NIL	1000 KW	NIL	
24-Dec-09	NIL	NIL	14:25	09:35	NIL	24:00	NIL	NIL	1000 KW	NIL	
25-Dec-09	NIL	NIL	12:05	11:55	NIL	24:00	NIL	NIL	1000 KW	NIL	
26-Dec-09	NIL	NIL	14:30	09:30	NIL	24:00	NIL	NIL	1000 KW	NIL	
27-Dec-09	NIL	NIL	14:45	09:15	NIL	24:00	NIL	NIL	1000 KW	NIL	
28-Dec-09	NIL	NIL	13:45	10:15	NIL	24:00	NIL	NIL	1000 KW	NIL	
29-Dec-09	NIL	NIL	11:45	12:15	NIL	24:00	NIL	NIL	1000 KW	NIL	
30-Dec-09	NIL	NIL	15:45	08:15	NIL	24:00	NIL	NIL	1000 KW	NIL	
31-Dec-09	NIL	NIL	08:30	15:30	NIL	24:00	NIL	NIL	1000 KW	NIL	



# BIHAR STATE HYDROELECTRIC PROJECT NASARIGANJ UNIT NO 2

## NUMBERS OF UNITS TWO(2)

TOTAL CAPACITY 2x500 KW

NUMBERS OF UNITS (KW) /														
Sl.No.	Date	Discharge		Running Hrs	Grid Fail	Brake		Trash rack clean	Total Outage Hrs.	Head	Daily Generatio		As per design	Water level low
		from Power House	n			down Machine	n				Generatio	Generatio		
1-Dec-09	NIL		NIL	12:45	NIL	NIL	24:00	NIL	NIL	1000 KW	11:15			
2-Dec-09	NIL		NIL	14:15	NIL	NIL	24:00	NIL	NIL	1000 KW	09:45			
3-Dec-09	NIL		NIL	13:50	NIL	NIL	24:00	NIL	NIL	1000 KW	10:10			
4-Dec-09	NIL		NIL	16:35	NIL	NIL	24:00	NIL	NIL	1000 KW	07:25			
5-Dec-09	NIL		NIL	11:35	NIL	NIL	24:00	NIL	NIL	1000 KW	12:25			
6-Dec-09	NIL		NIL	12:30	NIL	NIL	24:00	NIL	NIL	1000 KW	11:30			
7-Dec-09	NIL		NIL	14:55	NIL	NIL	24:00	NIL	NIL	1000 KW	09:05			
8-Dec-09	NIL		NIL	13:20	NIL	NIL	24:00	NIL	NIL	1000 KW	10:40			
9-Dec-09	NIL		NIL	14:50	NIL	NIL	24:00	NIL	NIL	1000 KW	09:10			
10-Dec-09	NIL		NIL	13:15	NIL	NIL	24:00	NIL	NIL	1000 KW	10:45			
11-Dec-09	NIL		NIL	17:40	NIL	NIL	24:00	NIL	NIL	1000 KW	06:20			
12-Dec-09	NIL		NIL	07:55	NIL	NIL	24:00	NIL	NIL	1000 KW	16:05			
13-Dec-09	NIL		NIL	16:35	NIL	NIL	24:00	NIL	NIL	1000 KW	07:25			
14-Dec-09	NIL		NIL	18:10	NIL	NIL	24:00	NIL	NIL	1000 KW	05:50			
15-Dec-09	NIL		NIL	20:30	NIL	NIL	24:00	NIL	NIL	1000 KW	03:30			
16-Dec-09	NIL		NIL	15:45	NIL	NIL	24:00	NIL	NIL	1000 KW	08:35			
17-Dec-09	NIL		NIL	17:45	NIL	NIL	24:00	NIL	NIL	1000 KW	06:15			
18-Dec-09	NIL		NIL	21:20	NIL	NIL	24:00	NIL	NIL	1000 KW	02:40			
19-Dec-09	NIL		NIL	21:05	NIL	NIL	24:00	NIL	NIL	1000 KW	02:55			
20-Dec-09	NIL		NIL	14:20	NIL	NIL	24:00	NIL	NIL	1000 KW	09:40			
21-Dec-09	NIL		NIL	12:25	NIL	NIL	24:00	NIL	NIL	1000 KW	11:35			
22-Dec-09	NIL		NIL	13:00	NIL	NIL	24:00	NIL	NIL	1000 KW	11:00			
23-Dec-09	NIL		NIL	13:00	NIL	NIL	24:00	NIL	NIL	1000 KW	11:00			
24-Dec-09	NIL		NIL	14:25	NIL	NIL	24:00	NIL	NIL	1000 KW	09:35			
25-Dec-09	NIL		NIL	12:05	NIL	NIL	24:00	NIL	NIL	1000 KW	11:55			
26-Dec-09	241	01:45	14:35	NIL	NIL	NIL	22:15	360	360	1000 KW	07:40			
27-Dec-09	NIL		14:45	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	09:15			
28-Dec-09	NIL		13:45	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	10:15			
29-Dec-09	NIL		11:45	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	12:15			
30-Dec-09	NIL		15:45	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	08:15			
31-Dec-09	NIL		08:30	NIL	NIL	NIL	24:00	NIL	NIL	1000 KW	15:30			

# BIHAR STATE HYDROELECTRIC PROJECT NASARIGANJ UNIT NO 1 TOTAL CAPACITY 2x500 KW

## NUMBERS OF UNITS TWO(2)

Sl.No.	Date	Discharge from Power House	Running Hrs	Grid Fail	Brake down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generatio n	As per design Generatio n	Water level low
1-Jan-10	NIL	NIL	NIL	12:05	11:55	NIL	24:00	NIL	NIL	1000 KW	NIL
2-Jan-10	NIL	NIL	NIL	14:20	09:40	NIL	24:00	NIL	NIL	1000 KW	NIL
3-Jan-10	NIL	NIL	NIL	12:30	11:30	NIL	24:00	NIL	NIL	1000 KW	NIL
4-Jan-10	NIL	NIL	NIL	11:35	11:55	NIL	24:00	NIL	NIL	1000 KW	NIL
5-Jan-10	NIL	NIL	NIL	15:00	09:00	NIL	24:00	NIL	NIL	1000 KW	NIL
6-Jan-10	NIL	NIL	NIL	13:45	10:15	NIL	24:00	NIL	NIL	1000 KW	NIL
7-Jan-10	NIL	NIL	NIL	09:00	15:00	NIL	24:00	NIL	NIL	1000 KW	NIL
8-Jan-10	NIL	NIL	NIL	15:35	08:25	NIL	24:00	NIL	NIL	1000 KW	NIL
9-Jan-10	NIL	583	03:30	14:00	NIL	NIL	20:30	3.4	1510	1000 KW	06:30
10-Jan-10	NIL	510	04:45	19:15	NIL	NIL	19:15	3.8	1730	1000 KW	NIL
11-Jan-10	NIL	566	04:55	19:05	NIL	NIL	19:05	3.6	1970	1000 KW	NIL
12-Jan-10	NIL	490	10:25	13:35	NIL	NIL	13:35	3.8	4210	1000 KW	05:10
13-Jan-10	NIL	527	05:40	13:10	NIL	NIL	18:20	3.8	2460	1000 KW	12:45
14-Jan-10	NIL	NIL	NIL	11:15	NIL	NIL	24:00	NIL	NIL	1000 KW	06:40
15-Jan-10	NIL	446	03:00	14:20	NIL	NIL	21:00	4.2	1000	1000 KW	11:30
16-Jan-10	NIL	NIL	NIL	12:30	NIL	NIL	24:00	NIL	NIL	1000 KW	11:50
17-Jan-10	NIL	NIL	NIL	12:10	NIL	NIL	24:00	NIL	NIL	1000 KW	10:55
18-Jan-10	NIL	NIL	NIL	13:05	NIL	NIL	24:00	NIL	NIL	1000 KW	11:15
19-Jan-10	NIL	NIL	NIL	10:45	NIL	NIL	24:00	NIL	NIL	1000 KW	NIL
20-Jan-10	NIL	477	13:10	10:50	NIL	NIL	10:50	3.8	5490	1000 KW	NIL
21-Jan-10	NIL	418	09:35	13:55	NIL	NIL	14:25	3.5	2950	1000 KW	00:30
22-Jan-10	NIL	368	07:20	15:25	NIL	NIL	16:40	3.8	2680	1000 KW	01:15
23-Jan-10	NIL	533	09:15	14:45	NIL	NIL	14:45	3.8	4090	1000 KW	NIL
24-Jan-10	NIL	558	11:05	12:45	NIL	NIL	12:45	3.7	4620	1000 KW	NIL
25-Jan-10	NIL	499	12:20	11:40	NIL	NIL	11:40	3.7	4940	1000 KW	NIL
26-Jan-10	NIL	573	12:30	11:30	NIL	NIL	11:30	3.8	5520	1000 KW	NIL
27-Jan-10	NIL	563	10:40	13:20	NIL	NIL	13:20	3.5	4290	1000 KW	NIL
28-Jan-10	NIL	549	07:10	16:50	NIL	NIL	16:50	3.7	2790	1000 KW	NIL
29-Jan-10	NIL	530	09:45	14:15	NIL	NIL	14:15	3.5	3770	1000 KW	NIL
30-Jan-10	NIL	496	10:45	13:15	NIL	NIL	13:15	3.5	3800	1000 KW	NIL
31-Jan-10	NIL	557	13:00	11:00	NIL	NIL	11:00	3.5	5400	1000 KW	NIL



# BIHAR STATE HYDROELECTRIC PROJECT NASARIGANJ UNIT NO 2

## NUMBERS OF UNITS TWO(2)

TOTAL CAPACITY 2x500 KW

Sl.No.	Date	Discharge from Power House	Running Hrs	Grid Fail	Brake down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generatio n	As per design Generatio n	Water level low
1-Jan-10	NIL	NIL	NIL	12:05	NIL	NIL	24:00	NIL	NIL	1000 KW	11:55
2-Jan-10	NIL	NIL	NIL	14:20	NIL	NIL	24:00	NIL	NIL	1000 KW	09:40
3-Jan-10	NIL	NIL	NIL	12:30	NIL	NIL	24:00	NIL	NIL	1000 KW	11:30
4-Jan-10	NIL	NIL	NIL	11:35	NIL	NIL	24:00	NIL	NIL	1000 KW	11:55
5-Jan-10	NIL	NIL	NIL	15:00	NIL	NIL	24:00	NIL	NIL	1000 KW	09:00
6-Jan-10	NIL	NIL	NIL	13:45	NIL	NIL	24:00	NIL	NIL	1000 KW	10:15
7-Jan-10	NIL	NIL	NIL	09:00	NIL	NIL	24:00	NIL	NIL	1000 KW	15:00
8-Jan-10	NIL	NIL	NIL	15:35	NIL	NIL	24:00	NIL	NIL	1000 KW	08:25
9-Jan-10	NIL	NIL	NIL	14:00	NIL	NIL	24:00	NIL	NIL	1000 KW	10:00
10-Jan-10	NIL	NIL	NIL	19:15	NIL	NIL	24:00	NIL	NIL	1000 KW	04:55
11-Jan-10	NIL	NIL	NIL	19:05	NIL	NIL	24:00	NIL	NIL	1000 KW	05:20
12-Jan-10	NIL	NIL	NIL	13:35	NIL	NIL	24:00	NIL	NIL	1000 KW	10:55
13-Jan-10	NIL	NIL	NIL	13:10	NIL	NIL	24:00	NIL	NIL	1000 KW	11:00
14-Jan-10	NIL	NIL	NIL	11:15	NIL	NIL	24:00	NIL	NIL	1000 KW	12:45
15-Jan-10	NIL	NIL	NIL	14:20	NIL	NIL	24:00	NIL	NIL	1000 KW	09:50
16-Jan-10	NIL	NIL	NIL	12:30	NIL	NIL	24:00	NIL	NIL	1000 KW	11:30
17-Jan-10	NIL	NIL	NIL	12:10	NIL	NIL	24:00	NIL	NIL	1000 KW	11:50
18-Jan-10	NIL	NIL	NIL	13:05	NIL	NIL	24:00	NIL	NIL	1000 KW	10:55
19-Jan-10	NIL	NIL	NIL	10:45	NIL	NIL	24:00	NIL	NIL	1000 KW	14:00
20-Jan-10	NIL	NIL	NIL	10:50	NIL	NIL	24:00	NIL	NIL	1000 KW	13:25
21-Jan-10	NIL	NIL	NIL	13:55	NIL	NIL	24:00	NIL	NIL	1000 KW	10:35
22-Jan-10	368	00:50	NIL	15:10	NIL	NIL	23:10	3.5	280	1000 KW	08:00
23-Jan-10	NIL	NIL	NIL	14:25	09:35	NIL	24:00	NIL	NIL	1000 KW	NIL
24-Jan-10	NIL	NIL	NIL	12:35	11:25	NIL	24:00	NIL	NIL	1000 KW	NIL
25-Jan-10	NIL	NIL	NIL	11:20	12:40	NIL	24:00	NIL	NIL	1000 KW	NIL
26-Jan-10	NIL	NIL	NIL	11:10	NIL	NIL	24:00	NIL	NIL	1000 KW	12:50
27-Jan-10	NIL	NIL	NIL	12:55	11:05	NIL	24:00	NIL	NIL	1000 KW	NIL
28-Jan-10	NIL	NIL	NIL	16:25	07:35	NIL	24:00	NIL	NIL	1000 KW	NIL
29-Jan-10	NIL	NIL	NIL	13:40	10:20	NIL	24:00	NIL	NIL	1000 KW	NIL
30-Jan-10	NIL	NIL	NIL	12:45	11:15	NIL	24:00	NIL	NIL	1000 KW	NIL
31-Jan-10	NIL	NIL	NIL	10:45	NIL	NIL	24:00	NIL	NIL	1000 KW	13:15

# BIHAR STATE HYDROELECTRIC PROJECT NASARIGANJ UNIT NO 1 NUMBERS OF UNITS TWO(2) TOTAL CAPACITY 2x500 KW

NUMBERS OF UNITS TWO(2)

Sl.No.	Date	Discharge		Running Hrs	Grid Fail	Brake		Trash rack clean	Total		Head	Daily		As per		Water level
		from Power	House			down Machine	Outage Hrs.		Generatio n	design Generatio n		level				
	1-Feb-10	546	10:35	12:55	00:30	NIL		13:25	3.8	4000	1000 KW	NIL				
	2-Feb-10	604	09:50	14:10	NIL			14:10	3.6	4360	1000 KW	NIL				
	3-Feb-10	560	12:05	11:55	NIL			11:55	3.8	5580	1000 KW	NIL				
	4-Feb-10	650	05:20	18:40	NIL			18:40	3.0	2140	1000 KW	NIL				
	5-Feb-10	584	08:50	12:25	NIL			15:10	3.2	3540	1000 KW		02:45			
	6-Feb-10	NIL		12:40	NIL			24:00	NIL		1000 KW		11:20			
	7-Feb-10	NIL		12:15	NIL			24:00	NIL		1000 KW		11:45			
	8-Feb-10	NIL		15:05	NIL			24:00	NIL		1000 KW		08:55			
	9-Feb-10	NIL		12:10	NIL			24:00	NIL		1000 KW		11:50			
	10-Feb-10	498	04:10	08:10	NIL			19:50	3.3	1510	1000 KW		11:40			
	11-Feb-10	484	13:10	08:35	NIL			10:50	3.0	4250	1000 KW		02:15			
	12-Feb-10	550	10:05	12:35	NIL			13:55	3.0	3580	1000 KW		01:20			
	13-Feb-10	458	08:05	12:45	NIL			15:55	3.0	2420	1000 KW		03:10			
	14-Feb-10	461	13:20	10:40	NIL			10:40	3.5	4970	1000 KW					
	15-Feb-10	379	06:10	15:10	NIL			17:50	3.3	1810	1000 KW		02:40			
	16-Feb-10	399	07:30	12:30	NIL			16:30	3.0	2010	1000 KW		04:00			
	17-Feb-10	578	02:55	13:45	NIL			21:05	3.2	1160	1000 KW		07:20			
	17-Feb-10	578	02:55	13:45	NIL			21:05	3.2	1160	1000 KW		04:05			
	18-Feb-10	446	08:05	11:50	NIL			15:55	3.0	2330	1000 KW		07:05			
	18-Feb-10	446	08:05	11:50	NIL			15:55	3.0	2330	1000 KW		07:05			
	19-Feb-10	399	05:25	11:30	NIL			18:35	3.0	1420	1000 KW		13:35			
	20-Feb-10	NIL		10:25	NIL			24:00	NIL		1000 KW		12:00			
	21-Feb-10	NIL		12:00	NIL			24:00	NIL		1000 KW		06:50			
	22-Feb-10	NIL		17:10	NIL			24:00	NIL		1000 KW		06:00			
	23-Feb-10	NIL		18:00	NIL			24:00	NIL		1000 KW		10:50			
	24-Feb-10	NIL		13:10	NIL			24:00	NIL		1000 KW		13:05			
	25-Feb-10	NIL		10:55	NIL			24:00	NIL		1000 KW		06:35			
	26-Feb-10	NIL		17:25	NIL			24:00	NIL		1000 KW		07:40			
	27-Feb-10	NIL		16:20	NIL			24:00	NIL		1000 KW		13:35			
	28-Feb-10	NIL		10:25	NIL			24:00	NIL		1000 KW					



# BIHAR STATE HYDROELECTRIC PROJECT NASARIGANJ UNIT NO 2. TOTAL CAPACITY 2x500 KW NUMBERS OF UNITS TWO(2)

Date	Discharge from Power House	Running Hrs	Grid Fail	Brake down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation n	As per design Generation n	Water level low
1-Feb-10	NIL	NIL	12:30	11:30	NIL	24:00	NIL	NIL	1000 KW	NIL
2-Feb-10	NIL	NIL	13:40	10:20	NIL	24:00	NIL	NIL	1000 KW	NIL
3-Feb-10	NIL	NIL	11:35	12:25	NIL	24:00	NIL	NIL	1000 KW	05:35
4-Feb-10	NIL	NIL	18:25	NIL	NIL	24:00	NIL	NIL	1000 KW	NIL
5-Feb-10	NIL	NIL	12:10	11:50	NIL	24:00	NIL	NIL	1000 KW	NIL
6-Feb-10	NIL	NIL	12:40	11:20	NIL	24:00	NIL	NIL	1000 KW	NIL
7-Feb-10	NIL	NIL	12:15	11:45	NIL	24:00	NIL	NIL	1000 KW	NIL
8-Feb-10	NIL	NIL	15:05	08:55	NIL	24:00	NIL	NIL	1000 KW	NIL
9-Feb-10	NIL	NIL	12:10	11:50	NIL	24:00	NIL	NIL	1000 KW	NIL
10-Feb-10	NIL	NIL	08:05	15:55	NIL	21:50	3.0	540	1000 KW	13:30
11-Feb-10	484	02:10	08:20	NIL	NIL	22:45	3.0	370	1000 KW	12:00
12-Feb-10	550	01:15	10:45	NIL	NIL	20:55	3.0	800	1000 KW	08:25
13-Feb-10	458	03:05	12:30	NIL	NIL	24:00	NIL	NIL	1000 KW	13:40
14-Feb-10	NIL	NIL	10:20	NIL	NIL	21:55	3.3	510	1000 KW	07:05
15-Feb-10	379	02:05	14:50	NIL	NIL	24:00	NIL	NIL	1000 KW	NIL
16-Feb-10	NIL	NIL	12:15	11:45	NIL	24:00	NIL	NIL	1000 KW	10:20
17-Feb-10	NIL	NIL	13:40	NIL	NIL	24:00	NIL	NIL	1000 KW	12:20
18-Feb-10	NIL	NIL	11:40	NIL	NIL	24:00	NIL	NIL	1000 KW	12:45
19-Feb-10	NIL	NIL	11:15	NIL	NIL	24:00	NIL	NIL	1000 KW	13:40
20-Feb-10	NIL	NIL	10:20	NIL	NIL	24:00	NIL	NIL	1000 KW	12:00
21-Feb-10	NIL	NIL	12:00	NIL	NIL	24:00	NIL	NIL	1000 KW	06:50
22-Feb-10	NIL	NIL	17:10	NIL	NIL	24:00	NIL	NIL	1000 KW	06:00
23-Feb-10	NIL	NIL	18:00	NIL	NIL	24:00	NIL	NIL	1000 KW	10:50
24-Feb-10	NIL	NIL	13:10	NIL	NIL	24:00	NIL	NIL	1000 KW	13:05
25-Feb-10	NIL	NIL	10:55	NIL	NIL	24:00	NIL	NIL	1000 KW	06:35
26-Feb-10	NIL	NIL	17:25	NIL	NIL	24:00	NIL	NIL	1000 KW	07:40
27-Feb-10	NIL	NIL	16:20	NIL	NIL	24:00	NIL	NIL	1000 KW	NIL
28-Feb-10	NIL	NIL	10:25	NIL	NIL	24:00	NIL	NIL	1000 KW	13:35

# BIHAR STATE HYDROELECTRIC PROJECT NASARIGANJ UNIT NO 1 NUMBERS OF UNITS TWO(2) TOTAL CAPACITY 2x500 KW

NUMBERS OF UNITS (WOL)

Sl.No.	Date	Discharge		Running Hrs	Grid Fail	Brake		Trash rack clean	Total		Head	Daily Generatio n	As per design		Water level low
		from Power	to Power			down Machine	Outage Hrs.		Generatio n	Generatio n					
		House													
1-Mar-10	NIL			NIL		05:15	NIL	NIL	24:00		NIL	NIL	1000 KW		18:45
2-Mar-10	NIL			NIL		07:10	NIL	NIL	24:00		NIL	NIL	1000 KW		16:50
3-Mar-10	NIL			NIL		10:55	NIL	NIL	24:00		NIL	NIL	1000 KW		13:05
4-Mar-10		412	02:55			14:15	NIL	NIL	21:05	3.0	760	1000 KW			06:05
5-Mar-10		461	06:20			12:35	NIL	NIL	17:40	3.5	1950	1000 KW			05:05
6-Mar-10	NIL			NIL		14:35	NIL	NIL	24:00		NIL	NIL	1000 KW		09:25
7-Mar-10	NIL			NIL		12:10	NIL	NIL	24:00		NIL	NIL	1000 KW		11:50
8-Mar-10		443	01:40			12:50	NIL	NIL	22:20	3.0	540	1000 KW			09:30
9-Mar-10		579	12:10			11:50	NIL	NIL	11:50	3.6	5420	1000 KW			02:05
10-Mar-10		508	07:05			14:50	NIL	NIL	16:55	3.7	3350	1000 KW			08:45
11-Mar-10	NIL		00:05			15:10	NIL	NIL	23:55	3.6	10	1000 KW			10:05
12-Mar-10	NIL			NIL		13:55	NIL	NIL	24:00		NIL	NIL	1000 KW		08:50
13-Mar-10	NIL			NIL		15:10	NIL	NIL	24:00		NIL	NIL	1000 KW		11:55
14-Mar-10	NIL			NIL		12:05	NIL	NIL	24:00		NIL	NIL	1000 KW		08:35
15-Mar-10	NIL			NIL		15:25	NIL	NIL	24:00		NIL	NIL	1000 KW		05:25
16-Mar-10	NIL			NIL		18:35	NIL	NIL	24:00		NIL	NIL	1000 KW		05:30
17-Mar-10	NIL			NIL		18:30	NIL	NIL	24:00		NIL	NIL	1000 KW		08:00
18-Mar-10	NIL			NIL		16:00	NIL	NIL	24:00		NIL	NIL	1000 KW		04:50
19-Mar-10	NIL			NIL		19:10	NIL	NIL	24:00		NIL	NIL	1000 KW		08:30
20-Mar-10	NIL			NIL		15:30	NIL	NIL	24:00		NIL	NIL	1000 KW		05:00
21-Mar-10		327	01:25			17:35	NIL	NIL	22:35	3.7	360	1000 KW			13:15
22-Mar-10		319	00:50			09:55	NIL	NIL	23:10	2.3	190	1000 KW			07:10
23-Mar-10	NIL			NIL		16:50	NIL	NIL	24:00		NIL	NIL	1000 KW		11:10
24-Mar-10	NIL			NIL		12:50	NIL	NIL	24:00		NIL	NIL	1000 KW		04:50
25-Mar-10		374	04:25			14:45	NIL	NIL	19:35	3.4	1160	1000 KW			06:35
26-Mar-10		369	05:25			12:00	NIL	NIL	18:35	3.4	1480	1000 KW			08:50
27-Mar-10	NIL			NIL		15:10	NIL	NIL	24:00		NIL	NIL	1000 KW		08:20
28-Mar-10	NIL			NIL		15:40	NIL	NIL	24:00		NIL	NIL	1000 KW		11:30
29-Mar-10		504	03:45			08:45	NIL	NIL	20:15	3.4	1480	1000 KW			
30-Mar-10		425	12:55			11:05	NIL	NIL	11:05	3.8	4430	1000 KW			
31-Mar-10		318	14:55			06:15	NIL	NIL	09:05	3.8	4300	1000 KW			02:50



**BIHAR STATE HYDROELECTRIC PROJECT NASARIGANJ UNIT NO 2**  
**NUMBERS OF UNITS TWO(2)** **TOTAL CAPACITY 2x500 KW**

Sl.No.	Date	Discharge from Power House	Running Hrs	Grid Fail	Brake down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generatio n	As per design Generatio n	Water level low
1-Mar-10	NIL	NIL		05:15	NIL	NIL	24:00	NIL	NIL	1000 KW	18:45
2-Mar-10	NIL	NIL		07:10	NIL	NIL	24:00	NIL	NIL	1000 KW	16:50
3-Mar-10	NIL	NIL		10:55	NIL	NIL	24:00	NIL	NIL	1000 KW	13:05
4-Mar-10	NIL	NIL		14:15	NIL	NIL	21:05	NIL	NIL	1000 KW	09:45
5-Mar-10	NIL	NIL		12:35	NIL	NIL	17:40	NIL	NIL	1000 KW	11:45
6-Mar-10	NIL	NIL		14:35	NIL	NIL	24:00	NIL	NIL	1000 KW	09:25
7-Mar-10	NIL	NIL		12:10	NIL	NIL	24:00	NIL	NIL	1000 KW	11:50
8-Mar-10	NIL	NIL		12:50	NIL	NIL	22:20	NIL	NIL	1000 KW	11:30
9-Mar-10	NIL	NIL		11:50	NIL	NIL	11:50	NIL	NIL	1000 KW	12:35
10-Mar-10	NIL	NIL		14:50	NIL	NIL	16:55	NIL	NIL	1000 KW	09:35
11-Mar-10	NIL	NIL		15:10	NIL	NIL	23:55	NIL	NIL	1000 KW	08:50
12-Mar-10	NIL	NIL		13:55	NIL	NIL	24:00	NIL	NIL	1000 KW	10:05
13-Mar-10	NIL	NIL		15:10	NIL	NIL	24:00	NIL	NIL	1000 KW	08:50
14-Mar-10	NIL	NIL		12:05	NIL	NIL	24:00	NIL	NIL	1000 KW	11:55
15-Mar-10	NIL	NIL		15:25	NIL	NIL	24:00	NIL	NIL	1000 KW	08:35
16-Mar-10	NIL	NIL		18:35	NIL	NIL	24:00	NIL	NIL	1000 KW	05:25
17-Mar-10	NIL	NIL		18:30	NIL	NIL	24:00	NIL	NIL	1000 KW	05:30
18-Mar-10	NIL	NIL		16:00	NIL	NIL	24:00	NIL	NIL	1000 KW	08:00
19-Mar-10	NIL	NIL		19:10	NIL	NIL	24:00	NIL	NIL	1000 KW	04:50
20-Mar-10	NIL	NIL		15:30	NIL	NIL	24:00	NIL	NIL	1000 KW	08:30
21-Mar-10	NIL	NIL		17:35	NIL	NIL	22:35	NIL	NIL	1000 KW	06:25
22-Mar-10	NIL	NIL		09:55	NIL	NIL	23:10	NIL	NIL	1000 KW	14:10
23-Mar-10	NIL	NIL		16:50	NIL	NIL	24:00	NIL	NIL	1000 KW	07:10
24-Mar-10	NIL	NIL		12:50	NIL	NIL	24:00	NIL	NIL	1000 KW	11:10
25-Mar-10	NIL	NIL		14:45	NIL	NIL	19:35	NIL	NIL	1000 KW	09:25
26-Mar-10	NIL	NIL		11:45	NIL	NIL	18:35	NIL	NIL	1000 KW	12:15
27-Mar-10	NIL	NIL		15:10	NIL	NIL	24:00	NIL	NIL	1000 KW	08:50
28-Mar-10	NIL	NIL		15:40	NIL	NIL	24:00	NIL	NIL	1000 KW	08:20
29-Mar-10	NIL	NIL		08:40	NIL	NIL	20:15	NIL	NIL	1000 KW	15:20
30-Mar-10	NIL	NIL		10:50	NIL	NIL	11:05	NIL	NIL	1000 KW	13:10
31-Mar-10	NIL	NIL		06:00	NIL	NIL	09:05	NIL	NIL	1000 KW	18:00

Abstract

SMALL HYDRO ELECTRIC PROJECT JAINAGRA UNIT NO-1  
NUMBER OF UNIT ..... 02... TOTAL CAPACITY 2X 500 KWH

SR NO.	MONTH	TOTAL GENERATION	TOTAL RUNNING	TOTAL HOURS SHUTDOWN DUE TO LOW DISCHARGE	TOTAL HOURS SHUTDOWN DUE TO GRIDFAILURE Hrs	TOTAL HOURS SHUTDOWN DUE TO MCBID FAILURE Hrs	TOTAL HOURS SHUTDOWN DUE TO OTHER CAUSES	HEAD	REMARK
1	Mar-09				-				
2	Apr-09				-				
3	May-09	338	01:52		742:08		312	3.9	
4	June-09	-	-	-	720:00			-	
5	July-09	-	-	-	744:00			-	
6	Aug-09	30237	81:32	-	568:14	14:18	27934	3.9	11 KV Grounding
7	Sept-09	-	-	-	720:00			-	" "
8	Oct-09	-	-	-	744:00			-	" "
9	Nov-09	-	-	-	720:00			-	" "
10	Dec-09	-	-	-	744:00			-	" "
11	Jan-10	5788	20:18	88:37	635:05		5347.31	3.9	
12	Feb-10	22498	90:55	190:54	390:11		20785.04	3.9	
13	Mar-10	12323	55:31	147:53	540:36				
14	Apr-10	-	-	720:00	-		14088.02		canal closed

\* Unit-II was not operation at this duration.

Rs 15k  
5/10/20

5347.31  
20785.04

27934  
ground cable fault  
from ESER

312  
381



# OUTAGE REPORT OF SMALL HYDRO ELECTRIC PROJECT JAI NAGAR (2X500KW) UNIT NO- 01

SR No.	MONTH	TOTAL GENERATION	TOTAL RUNNING	TOTAL OUTAGE				HEAD	WATER DISCHARGE	REMARKS
				LOW DISCHARGE	GRID FAILURE	MCBD FAILURE	TRACE CLEANING RACK			
1	March 2009									
2										
3										
4										
5										
6	also in month of									
7										
8	not in operation.									
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										

Unit not to be  
to Commission / Synchronizing

1  
Rajesh  
05/10/20

\* unit-II was not in  
operation.

Rajesh  
5/10/20

# OUTAGE REPORT OF SMALL HYDRO ELECTRIC PROJECT JAI NAGAR (2X500KW) UNIT NO-

SR	MONTH	TOTAL GENERATION	TOTAL RUNNING	TOTAL OUTAGE				HEAD	WATER DISCHARGE	REMARKS
				LOW DISCHARGE	GRID FAILURE	MCBD FAILURE	TRACE CLEANING RACK			
1	May 2009									
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21	21/5/09	338	1:52	-	-			3.9	312	
22										
23										
24	During month of June & July									
25										
26										
27										
28										
29										
30										
31										

Machine was opened with load for testing purpose.

Repair 5/10/20

System was commercially synchronizing in the month of August 2009

Unit - I & II was not in operation / synchronizing

Repair 5/10/20



# OUTAGE REPORT OF SMALL HYDRO ELECTRIC PROJECT JAI NAGAR (2X500KW) UNIT NO- 02

SR	MONTH	TOTAL GENERATION	TOTAL RUNNING	TOTAL OUTAGE					HEAD	WATER DISCHARGE	REMARKS
				LOW DISCHARGE	GRID FAILURE	MCBD FAILURE	TRACE CLEANING RACK				
No.	August 2009										
1	1/8/09	—			24:00						
2	2/8/09	—			24:00						
3	3/8/09	769	2:11		21:49			3.9	1163.49		
4	4/8/09	—			24:00						
5	5/8/09	—			24:00						
6	6/8/09	—			24:00						
7	7/8/09	—			24:00						
8	8/8/09	—			24:00						
9	9/8/09	—			24:00						
10	10/8/09	—			24:00						
11	11/8/09	—			24:00						
12	12/8/09	—			24:00						
13	13/8/09	—			24:00						
14	14/8/09	368	00:50		23:10			3.9	424.30		
15	15/8/09	102	00:34		23:24			3.9	117.66		
16	16/8/09	763	01:25		22:35			3.9	879.73		
17	17/8/09	202	00:44		23:16			3.9	255.96		
18	18/8/09	492	01:40		22:20			3.9	567.27		
19	19/8/09	634	03:03		20:57			3.9	733.30		
20	20/8/09	1251	06:45		17:15			3.9	2018.90		
21	21/8/09	3989	10:33		13:29			3.9	4599.31		
22	22/8/09	1150	3:25		6:17	14:18		3.9	1325.95		
23	23/8/09	4373	11:29		12:31			3.9	5042.06		
24	24/8/09	179	00:45		23:15			3.9	206.3		
25	25/8/09	4010	14:23		09:37			3.9	4623.53		
26	26/8/09	2280	05:16		18:44			3.9	2628.87		
27	27/8/09	6504	14:23		9:37			3.9	7449.11		
28	28/8/09	744	05:50		22:10			3.9	8578.32		
29	29/8/09	817	02:02		21:58			3.9	942.00		
30	30/8/09	1088	03:30		20:30			3.9	1254.46		
31	31/8/09	—			648:10	14:18					
		30237	81:32								

Pa/ksb  
5/10/09

# OUTAGE REPORT OF SMALL HYDRO ELECTRIC PROJECT JAI NAGAR (2X500KW) UNIT NO: 2

SR	MONTH	TOTAL GENERATION	TOTAL RUNNING	TOTAL OUTAGE				HEAD	WATER DISCHARGE	REMARKS
				LOW DISCHARGE	GRID FAILURE	MCBD FAILURE	TRACE CELANING RACK			
1	1/9/09				24:00					
2	2/9/9				24:00					
3	3/9/9				24:00					
4	4/9/9				24:00					
5	5/9/9				24:00					
6	6/9/9				24:00					
7	7/9/9				24:00					
8	8/9/9				24:00					
9	9/9/9				24:00					
10	10/9/9				24:00					
11	11/9/9				24:00					
12	12/9/9				24:00					
13	13/9/9				24:00					
14	14/9/9				24:00					
15	15/9/9				24:00					
16	16/9/9				24:00					
17	17/9/9				24:00					
18	18/9/9				24:00					
19	19/9/9				24:00					
20	20/9/9				24:00					
21	21/9/9				24:00					
22	22/9/9				24:00					
23	23/9/9				24:00					
24	24/9/9				24:00					
25	25/9/9				24:00					
26	26/9/9				24:00					
27	27/9/9				24:00					
28	28/9/9				24:00					
29	29/9/9				24:00					
30	30/9/9				24:00					
31					720:00					

Due to 11KV Grounding  
ground cable fault  
Machine not stopped  
due hole month

20/5/20  
5/10/20



# OUTAGE REPORT OF SMALL HYDRO ELECTRIC PROJECT JAI NAGAR (2X500KW) UNIT NO.-01

SR	MONTH	No.	Nov -2009	TOTAL GENERATION	TOTAL RUNNING	TOTAL OUTAGE				HEAD	WATER DISCHARGE	REMARKS
						LOW DISCHARGE	GRID FAILURE	MCBD FAILURE	TRACE CELANING RACK			
1	11/11/09						24:00					
2	21/11/09						24:00					
3	31/11/09						24:00					
4	41/11/09						24:00					
5	51/11/09						24:00					
6	61/11/09						24:00					
7	71/11/09						24:00					
8	81/11/09						24:00					
9	91/11/09						24:00					
10	10/11/09						24:00					
11	11/11/09						24:00					
12	12/11/09						24:00					
13	13/11/09						24:00					
14	14/11/09						24:00					
15	15/11/09						24:00					
16	16/11/09						24:00					
17	17/11/09						24:00					
18	18/11/09						24:00					
19	19/11/09						24:00					
20	20/11/09						24:00					
21	21/11/09						24:00					
22	22/11/09						24:00					
23	23/11/09						24:00					
24	24/11/09						24:00					
25	25/11/09						24:00					
26	26/11/09						24:00					
27	27/11/09						24:00					
28	28/11/09						24:00					
29	29/11/09						24:00					
30	30/11/09						24:00					
31	31/11/09						24:00					

During the month  
Machine was stopped  
due to 11KV Gutter  
ground cable fault  
in GSEB.  
\* unit- II was not  
in operation also.

8/12/09  
5/12/09

# OUTAGE REPORT OF SMALL HYDRO ELECTRIC PROJECT JAI NAGAR (2X500KW) UNIT NO-01

SR	MONTH	No.	Nov -2009	TOTAL GENERATION	TOTAL RUNNING	TOTAL OUTAGE				HEAD	WATER DISCHARGE	REMARKS
						LOW DISCHARGE	GRID FAILURE	MCBD FAILURE	TRACE CLEANING RACK			
1	11/11/09						24:00					
2	21/11/09						24:00					
3	31/11/09						24:00					
4	41/11/09						24:00					
5	51/11/09						24:00					
6	61/11/09						24:00					
7	71/11/09						24:00					
8	81/11/09						24:00					
9	91/11/09						24:00					
10	10/11/09						24:00					
11	11/11/09						24:00					
12	12/11/09						24:00					
13	13/11/09						24:00					
14	14/11/09						24:00					
15	15/11/09						24:00					
16	16/11/09						24:00					
17	17/11/09						24:00					
18	18/11/09						24:00					
19	19/11/09						24:00					
20	20/11/09						24:00					
21	21/11/09						24:00					
22	22/11/09						24:00					
23	23/11/09						24:00					
24	24/11/09						24:00					
25	25/11/09						24:00					
26	26/11/09						24:00					
27	27/11/09						24:00					
28	28/11/09						24:00					
29	29/11/09						24:00					
30	30/11/09						24:00					
31	31/11/09						24:00					

During the month  
Machine was stopped  
due to 11 Kv Cunder  
ground cable fault  
in BSEB.  
\* unit-II was not  
in operation also.

8/1/10  
5/1/10



# OUTAGE REPORT OF SMALL HYDRO ELECTRIC PROJECT JAI NAGAR (2X500KW) UNIT NO.-01

SR	MONTH	No.	MoY -2009	TOTAL GENERATION	TOTAL RUNNING	TOTAL OUTAGE				HEAD	WATER DISCHARGE	REMARKS
						LOW DISCHARGE	GRID FAILURE	MCBD FAILURE	TRACE CELANING RACK			
1	11/11/09						24:00					
2	21/11/09						24:00					
3	31/11/09						24:00					
4	4/11/09						24:00					
5	5/11/09						24:00					
6	6/11/09						24:00					
7	7/11/09						24:00					
8	8/11/09						24:00					
9	9/11/09						24:00					
10	10/11/09						24:00					
11	11/11/09						24:00					
12	12/11/09						24:00					
13	13/11/09						24:00					
14	14/11/09						24:00					
15	15/11/09						24:00					
16	16/11/09						24:00					
17	17/11/09						24:00					
18	18/11/09						24:00					
19	19/11/09						24:00					
20	20/11/09						24:00					
21	21/11/09						24:00					
22	22/11/09						24:00					
23	23/11/09						24:00					
24	24/11/09						24:00					
25	25/11/09						24:00					
26	26/11/09						24:00					
27	27/11/09						24:00					
28	28/11/09						24:00					
29	29/11/09						24:00					
30	30/11/09						24:00					
31	31/11/09						24:00					

During last month  
Machine was stopped  
due to 11KV counter  
ground cable fault  
in BSEB.  
\* unit-II was not  
in operation also.

8/1/10  
5/1/10

# OUTSIDE REPORT OF SHAW-WHOLE ELECTRIC PROJECT MATERIALS (2500000) UNIT NO. 01

UNIT	TOTAL ESTIMATION	TOTAL MATERIAL	TOTAL COST				UNIT PRICE	TOTAL MATERIAL	REMARKS
			UNIT PRICE	QUANTITY	TOTAL	TOTAL			
1	50000	50000	200000	10000	2000000	2000000	200000	10000	Material for work at site
2	10000	10000	100000	1000	1000000	1000000	100000	1000	Material for work at site
3	10000	10000	100000	1000	1000000	1000000	100000	1000	Material for work at site
4	10000	10000	100000	1000	1000000	1000000	100000	1000	Material for work at site
5	10000	10000	100000	1000	1000000	1000000	100000	1000	Material for work at site
6	10000	10000	100000	1000	1000000	1000000	100000	1000	Material for work at site
7	10000	10000	100000	1000	1000000	1000000	100000	1000	Material for work at site
8	10000	10000	100000	1000	1000000	1000000	100000	1000	Material for work at site
9	10000	10000	100000	1000	1000000	1000000	100000	1000	Material for work at site
10	10000	10000	100000	1000	1000000	1000000	100000	1000	Material for work at site
11	10000	10000	100000	1000	1000000	1000000	100000	1000	Material for work at site
12	10000	10000	100000	1000	1000000	1000000	100000	1000	Material for work at site
13	10000	10000	100000	1000	1000000	1000000	100000	1000	Material for work at site
14	10000	10000	100000	1000	1000000	1000000	100000	1000	Material for work at site
15	10000	10000	100000	1000	1000000	1000000	100000	1000	Material for work at site
16	10000	10000	100000	1000	1000000	1000000	100000	1000	Material for work at site
17	10000	10000	100000	1000	1000000	1000000	100000	1000	Material for work at site
18	10000	10000	100000	1000	1000000	1000000	100000	1000	Material for work at site
19	10000	10000	100000	1000	1000000	1000000	100000	1000	Material for work at site
20	10000	10000	100000	1000	1000000	1000000	100000	1000	Material for work at site
21	10000	10000	100000	1000	1000000	1000000	100000	1000	Material for work at site
22	10000	10000	100000	1000	1000000	1000000	100000	1000	Material for work at site
23	10000	10000	100000	1000	1000000	1000000	100000	1000	Material for work at site
24	10000	10000	100000	1000	1000000	1000000	100000	1000	Material for work at site
25	10000	10000	100000	1000	1000000	1000000	100000	1000	Material for work at site
26	10000	10000	100000	1000	1000000	1000000	100000	1000	Material for work at site
27	10000	10000	100000	1000	1000000	1000000	100000	1000	Material for work at site
28	10000	10000	100000	1000	1000000	1000000	100000	1000	Material for work at site
29	10000	10000	100000	1000	1000000	1000000	100000	1000	Material for work at site
30	10000	10000	100000	1000	1000000	1000000	100000	1000	Material for work at site
31	10000	10000	100000	1000	1000000	1000000	100000	1000	Material for work at site

400000  
200000



# OUTAGE REPORT OF SMALL HYDRO ELECTRIC PROJECT JAI NAGAR (2X500KW) UNIT NO-01

SR	MONTH	TOTAL		TOTAL OUTAGE					REMARKS
No.	Dec 2009	GENERATION	TOTAL RUNNING	LOW DISCHARGE	GRID FAILURE	MCBD FAILURE	TRACE CLEANING RACK	HEAD	
1	1/12/9				24:00				
2	2/12/9				24:00				
3	3/12/9				24:00				
4	4/12/9				24:00				
5	5/12/9				24:00				
6	6/12/9				24:00				
7	7/12/9				24:00				
8	8/12/9				24:00				
9	9/12/9				24:00				
10	10/12/9				24:00				
11	11/12/9				24:00				
12	12/12/9				24:00				
13	13/12/9				24:00				
14	14/12/9				24:00				
15	15/12/9				24:00				
16	16/12/9				24:00				
17	17/12/9				24:00				
18	18/12/9				24:00				
19	19/12/9				24:00				
20	20/12/9				24:00				
21	21/12/9				24:00				
22	22/12/9				24:00				
23	23/12/9				24:00				
24	24/12/9				24:00				
25	25/12/9				24:00				
26	26/12/9				24:00				
27	27/12/9				24:00				
28	28/12/9				24:00				
29	29/12/9				24:00				
30	30/12/9				24:00				
31	31/12/9				24:00				

During hole month 11kv  
under ground cable  
fault in BSEB

unit-01 was also  
not in operation.

for 14th  
5/10/10

# OUTAGE REPORT OF SMALL HYDRO ELECTRIC PROJECT JAI NAGAR (2X500KW) UNIT NO-07

SR	MONTH	TOTAL GENERATION	TOTAL RUNNING	TOTAL OUTAGE				HEAD	WATER DISCHARGE	REMARKS
				LOW DISCHARGE	GRID FAILURE	MCBD FAILURE	TRACE CLEANING RACK			
1	Jan 2010				24:00					unit no- II was not in operation
2	21/11/10				24:00					
3	31/11/10				24:00					
4	41/11/10				24:00					
5	51/11/10				24:00					
6	61/11/10				24:00					
7	71/11/10				24:00					
8	81/11/10				24:00					
9	91/11/10				24:00					
10	10/11/10				24:00					
11	11/11/10				24:00					
12	12/11/10				24:00					
13	13/11/10				24:00					
14	14/11/10				24:00					
15	15/11/10				24:00					
16	16/11/10	498	02:10	8:25	13:25			3.9	574.19	
17	17/11/10	641	02:35	2:05	19:20			3.9	737.07	
18	18/11/10	72	00:25	2:09	21:26			3.9	83.06	
19	19/11/10			01:37	22:13					
20	20/11/10			12:00	12:00					
21	21/11/10			24:00	00:00					
22	22/11/10				24:00					
23	23/11/10	54	00:20	7:12	16:28			3.9	62.21	
24	24/11/10	592	02:01	6:21	15:38			3.9	682.57	
25	25/11/10				24:00					
26	26/11/10	450	2:30	4:18	17:12			3.9	518.85	
27	27/11/10				24:00					
28	28/11/10				22:00					
29	29/11/10	525	1:37	6:36	15:47			3.9	606.47	
30	30/11/10	1990	5:52	4:18	13:45			3.9	7294.49	
31	31/11/10	965	2:43	6:36	14:41			3.9	112.64	
		5788	20:28	88:37	635:05					

Unit no- 07 was not in operation.

Rajesh Kc  
5/10/11



# OUTAGE REPORT OF SMALL HYDRO ELECTRIC PROJECT JAI NAGAR (2X500KW) UNIT NO-

SR	MONTH	TOTAL GENERATION	TOTAL RUNNING	TOTAL OUTAGE					HEAD	WATER DISCHARGE	REMARKS
				LOW DISCHARGE	GRID FAILURE	MCBD FAILURE	TRACE CLEANING RACK				
No.	Feb 2010										
1	1/2/10	1465	4:47	3:05	16:00			3.9	1689.4		
2	2/2/10	2213	5:40	3:05	16:15			3.9	2551.15		
3	3/2/10	885	3:17	5:08	15:35			3.9	1020.40		
4	4/2/10	160	00:44	10:18	12:58			3.9	115.3		
5	5/2/10	1147	5:28	4:57	13:35			3.9	1322.49		
6	6/2/10	60	00:29	11:53	11:59			3.9	73.80		
7	7/2/10	79	00:25	3:55	19:40			3.9	91.08		
8	8/2/10	-	-	12:12	11:48			3.9	-		
9	9/2/10	454	2:35	11:35	9:50			3.9	523.46		
10	10/2/10	2573	7:22	1:04	15:29			3.9	2966.61		
11	11/2/10	3410	11:35	2:10	10:15			3.9	3931.73		
12	12/2/10	2344	13:35	1:39	8:43			3.9	2702.62		
13	1/3/10			24:00	00:00						
14	1/3/10			24:00	00:00						
15	1/3/10			14:00	10:00						
16	1/3/10			10:00	14:00						
17	1/3/10			12:36	11:54						
18	1/3/10			8:00	16:00						
19	1/3/10			-	24:00						
20	2/3/10			-	24:00						
21	2/3/10			-	24:00						
22	2/3/10			1:00	23:00						
23	2/3/10			7:00	17:00						
24	2/3/10	951	5:08	4:07	14:45			3.9	1696.50		
25	2/3/10	1683	7:24	6:09	10:27			3.9	1940.50		
26	2/3/10	611	9:53	5:43	15:24			3.9	704.48		
27	2/3/10	1458	9:30	00:55	13:35			3.9	1681.07		
28	2/3/10	3091	10:11	12:38	01:11			3.9	3563.92		
29											
30											
31		22498	90:55	190:54	390:11						

Rel/SHY  
5/10/10

# OUTAGE REPORT OF SMALL HYDRO ELECTRIC PROJECT JAI NAGAR (2X500KW) UNIT NO-

SR	MONTH	TOTAL GENERATION	TOTAL RUNNING	TOTAL OUTAGE				HEAD	WATER DISCHARGE	REMARKS
				LOW DISCHARGE	GRID FAILURE	MCBD FAILURE	TRACE CLEANING RACK			
No.	Feb 2010									
1	17/10	1465	4:47	3:05	16:08			3.9	1689.44	
2	20/10	2213	5:40	3:05	16:15			3.9	2551.15	
3	21/10	885	3:17	5:08	15:35			3.9	1020.40	
4	22/10	100	00:44	10:18	12:58			3.9	115.3	
5	23/10	1147	5:28	4:57	13:35			3.9	1322.49	
6	24/10	64	00:28	11:53	11:59			3.9	73.80	
7	25/10	79	00:25	3:55	19:40			3.9	41.06	
8	26/10	-	-	12:12	11:48			3.9	-	
9	27/10	454	2:35	11:35	9:50			3.9	523.46	
10	28/10	2573	7:22	1:09	15:29			3.9	2966.46	
11	29/10	3410	11:35	2:10	10:15			3.9	3931.73	
12	30/10	2344	13:38	1:39	8:43			3.9	2702.63	
13	31/10			24:00	00:00					
14	1/11			24:00	00:00					
15	2/11			14:00	10:00					
16	3/11			10:00	14:00					
17	4/11			12:36	11:24					
18	5/11			8:00	16:00					
19	6/11			-	24:00					
20	7/11			-	24:00					
21	8/11			-	23:00					
22	9/11			1:00	23:00					
23	10/11			7:00	17:00			3.9	1696.50	
24	11/11	951	5:08	4:07	14:45			3.9	1940.50	
25	12/11	1683	7:24	6:09	10:27			3.9	704.48	
26	13/11	811	2:53	5:43	15:24			3.9	1681.07	
27	14/11	1458	9:30	00:55	13:35			3.9	3563.92	
28	15/11	3091	10:11	12:38	01:11					
29										
30										
31		22498	90:55	190:54	390:41					

Rel/322  
5/10/12



# OUTAGE REPORT OF SMALL HYDRO ELECTRIC PROJECT JAI NAGAR (2X500KW) UNIT NO.

SR MONTH

No. Feb 2010

TOTAL GENERATION

TOTAL RUNNING

LOW DISCHARGE

GRID FAILURE

MCBD FAILURE

TRACE CLEANING RACK

HEAD

WATER DISCHARGE

REMARKS

1	1465	4:47	3:05	16:00			3.9	1689.44	
2	2213	5:40	3:05	16:15			3.9	2551.15	
3	885	3:17	5:08	15:35			3.9	1020.40	
4	100	00:44	10:18	12:58			3.9	115.3	
5	1147	5:28	4:57	13:35			3.9	1392.49	
6	60	00:28	11:53	11:59			3.9	73.80	
7	79	00:25	3:55	19:40			3.9	91.08	
8	-	-	12:12	11:48			3.9	-	
9	454	2:35	11:35	9:50			3.9	523.46	
10	2573	7:22	1:09	15:29			3.9	2966.66	
11	3410	11:35	2:10	10:15			3.9	3931.73	
12	2344	13:35	1:39	8:43			3.9	2702.62	
13			24:00	00:00					
14			24:00	00:00					
15			14:00	10:00					
16			10:00	14:00					
17			12:36	11:24					
18			8:00	16:00					
19			-	24:00					
20			-	24:00					
21			-	23:00					
22			1:00	23:00					
23			7:00	17:00					
24	951	5:08	4:07	14:45			3.9	1696.50	
25	1683	7:24	6:09	10:27			3.9	1940.50	
26	611	2:53	5:43	15:24			3.9	704.48	
27	1458	9:30	00:55	13:35			3.9	1681.07	
28	3091	10:11	12:38	01:11			3.9	3563.92	
29									
30									
31									
	22498	90:55	190:54	390:41					

# OUTAGE REPORT OF SMALL HYDRO ELECTRIC PROJECT JAI NAGAR (2X500KW) UNIT NO-

UNIT OF SMALL HYDRO ELECTRIC PROJECT JAI NAGAR (2X500KW) UNIT NO-

SR	MONTH	TOTAL GENERATION	TOTAL RUNNING	TOTAL OUTAGE					HEAD	WATER DISCHARGE	REMARKS
				LOW DISCHARGE	GRID FAILURE	MCBD FAILURE	TRACE CLEANING RACK				
1	Feb 2010	1465	4:47	3:05	16:08			3.9	1689.14		
2	21/2/10	2213	5:40	3:05	16:15			3.9	2551.15		
3	3/2/10	885	3:17	5:08	15:35			3.9	1020.40		
4	4/2/10	100	00:44	10:18	12:58			3.9	115.3		
5	5/2/10	1147	5:28	4:57	13:35			3.9	1322.49		
6	6/2/10	64	00:28	11:53	11:59			3.9	73.80		
7	7/2/10	79	00:25	3:55	19:40			3.9	91.06		
8	8/2/10	-	-	12:12	11:48			3.9	-		
9	9/2/10	454	2:35	11:35	9:50			3.9	523.46		
10	10/2/10	2573	7:22	1:09	15:29			3.9	2966.64		
11	11/2/10	3410	11:35	2:10	10:15			3.9	3931.73		
12	12/2/10	2344	13:38	1:39	8:43			3.9	2702.63		
13	13/2/10			24:00	00:00						
14	14/2/10			24:00	00:00						
15	15/2/10			14:00	10:00						
16	16/2/10			10:00	14:00						
17	17/2/10			12:36	11:24						
18	18/2/10			8:00	16:00						
19	19/2/10			-	24:00						
20	20/2/10			-	24:00						
21	21/2/10			-	24:00						
22	22/2/10			1:00	23:00						
23	23/2/10			7:00	17:00						
24	24/2/10	951	5:08	4:07	14:45			3.9	1696.50		
25	25/2/10	1683	7:24	6:09	10:27			3.9	1940.50		
26	26/2/10	811	9:53	5:43	15:24			3.9	704.48		
27	27/2/10	1458	9:30	00:55	13:35			3.9	1681.07		
28	28/2/10	3091	10:11	12:38	01:11			3.9	3563.92		
29											
30											
31											
		22498	90:55	190:54	390:11						

Kalish  
5/10/20



# OUTAGE REPORT OF SMALL HYDRO ELECTRIC PROJECT JAI NAGAR (2X500KW) UNIT NO-3

NO.	DATE	GENERATION	TOTAL RUNNING	DOWN DISCHARGE	GRID FAILURE	WIND FAILURE	TRIP CLEANING RACK	HEAD	WATER DISCHARGE	REMARKS
1	1/3/10	2100	6154	20112	12143			3.9	2206.41	
2	1/4/10	205	2103	20101	12116			3.9	718.31	
3	1/5/10	257	2112	20103	13110			3.9	412.92	
4	1/6/10	111	2122	21103	17130			3.9	127.43	
5	1/7/10	205	2112	20102	15136			3.9	912.5	
6	1/8/10	614	2110	21111	12131			3.9	707.94	
7	1/9/10				20100			1		
8	1/10/10	51	20120	25151	12104			3.9	58.80	
9	1/11/10			20100	20100			1		
10	1/12/10			20100	20100			1		
11	1/13/10	165	20155	20118	15110			3.9	198.24	
12	1/14/10	201	20101	20101	15110			3.9	461.23	
13	1/15/10			20100	20100			1		
14	1/16/10			20100	20100			1		
15	1/17/10	230	1100	21130	19106			3.9	245.19	
16	1/18/10	614	2153	2112	18151			3.9	524.91	
17	1/19/10	225	2114	1125	20116			3.9	454.8	
18	1/20/10	285	2114	20102	18156			3.9	1135.70	
19	1/21/10	1022	5111	20152	18156			3.9	1651.69	
20	1/22/10	1511	5135	21141	16144			3.9	1742.18	
21	1/23/10	102	20143	2100	17117			3.9	1171.66	
22	1/24/10	142	20105	2108	18137			3.9	1631.72	
23	1/25/10	151	20101	20103	22154			3.9	1741.10	
24	1/26/10	208	2111	21105	18137			3.9	1046.12	
25	1/27/10	811	5139	21121	17108			3.1	946.61	
26	1/28/10			20100	24100			3.1		
27	1/29/10			20100	24100			3.1		
28	1/30/10			20100	21142			3.1		
29	1/31/10			20100	21142			3.1		
30	1/32/10			20100	21142			3.1		
31	1/33/10			20100	21142			3.1		
			55131	142153	540136					

1  
 Kalyan-Kar  
 3/10/20

# OUTAGE REPORT OF SMALL HYDRO ELECTRIC PROJECT JAI NAGAR (2X500KW) UNIT NO. - 01

SR	MONTH	TOTAL GENERATION	TOTAL RUNNING	TOTAL OUTAGE					HEAD	WATER DISCHARGE	REMARKS
No.	APRIL 2010			LOW DISCHARGE	GRID FAILURE	MCBD FAILURE	TRACE CLEANING RACK				
1	14/10			24:00							
2	24/10			24:00							
3	31/10			24:00							
4	4/11			24:00							unit was stopped due to damel no/cause
5	5/11			24:00							
6	6/11			24:00							
7	7/11			24:00							
8	8/11			24:00							
9	9/11			24:00							unit was not in operation
10	10/11			24:00							
11	11/11			24:00							
12	12/11			24:00							
13	13/11			24:00							
14	14/11			24:00							
15	15/11			24:00							
16	16/11			24:00							
17	17/11			24:00							
18	18/11			24:00							
19	19/11			24:00							
20	20/11			24:00							
21	21/11			24:00							
22	22/11			24:00							
23	23/11			24:00							
24	24/11			24:00							
25	25/11			24:00							
26	26/11			24:00							
27	27/11			24:00							
28	28/11			24:00							
29	29/11			24:00							
30	30/11			24:00							
31				720:00							

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Rakesh Kumar  
5/10/10



SONE WESTERN CANAL HYDROELECTRIC PROJECT DEHRADUN UNIT NO. I, II, III, IV  
 NUMBERS OF UNITS FOUR TOTAL CAPACITY 48.165 MW

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation M <sup>3</sup>	As per design Generation
01	01.4.2009	CANAL CLOSED	N/L						N/L	39600 KWH
02	02.4.2009	"								
03	03.4.2009	"								
04	04.4.2009	"								
05	05.4.2009	"								
06	06.4.2009	"								
07	07.4.2009	"								
08	08.4.2009	"								
09	09.4.2009	"								
10	10.4.2009	"								
11	11.4.2009	"								
12	12.4.2009	"								
13	13.4.2009	"								
14	14.4.2009	"								
15	15.4.2009	"								
16	16.4.2009	"								
17	17.4.2009	"								
18	18.4.2009	"								
19	19.4.2009	"								
20	20.4.2009	"								
21	21.4.2009	"								
22	22.4.2009	"								
23	23.4.2009	"								
24	24.4.2009	"								
25	25.4.2009	"								
26	26.4.2009	"								
27	27.4.2009	"								
28	28.4.2009	"								
29	29.4.2009	"								
30	30.4.2009	"								
31										

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SOURCE: WESTERN CANAL  
 HYDROELECTRIC PROJECT  
 DERRA  
 UNIT NO. I, II  
 TOTAL CAPACITY 48,145 T.M.

SL No.	Date	Discharge from Power House	Running Hrs	Grid Fall	Rated down Machine	Trash rack clear	Total Output Hrs	Head	Daily Generation	As per design Generation
01	21.5.2009		10						10	21600 Kwh
02	22.5.2009		10						10	
03	23.5.2009		10						10	
04	24.5.2009		10						10	
05	25.5.2009		10						10	
06	26.5.2009		10						10	
07	27.5.2009		10						10	
08	28.5.2009		10						10	
09	29.5.2009		10						10	
10	30.5.2009		10						10	
11	31.5.2009		10						10	
12	1.6.2009		10						10	
13	2.6.2009		10						10	
14	3.6.2009		10						10	
15	4.6.2009		10						10	
16	5.6.2009		10						10	
17	6.6.2009		10						10	
18	7.6.2009		10						10	
19	8.6.2009		10						10	
20	9.6.2009		10						10	
21	10.6.2009		10						10	
22	11.6.2009		10						10	
23	12.6.2009		10						10	
24	13.6.2009		10						10	
25	14.6.2009		10						10	
26	15.6.2009		10						10	
27	16.6.2009		10						10	
28	17.6.2009		10						10	
29	18.6.2009		10						10	
30	19.6.2009		10						10	
31	20.6.2009		10						10	

8.20



SONE WESTERN CANAL HYDROELECTRIC PROJECT, D.E.H.R., UNIT NO. 111  
 NUMBERS OF UNITS FOUR TOTAL CAPACITY 48.165 MW

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Banked down Machine	Trash rack clean/overhaul	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.5.2009	Canal closed	NIL	NIL			NIL		NIL	39600 kWh
02	02.5.2009	"	"	"	"		"		"	"
03	03.5.2009	"	"	"	"		"		"	"
04	04.5.2009	"	"	"	"		"		"	"
05	05.5.2009	"	"	"	"		"		"	"
06	06.5.2009	"	"	"	"		"		"	"
07	07.5.2009	"	"	"	"		"		"	"
08	08.5.2009	"	"	"	"		"		"	"
09	09.5.2009	"	"	"	"		"		"	"
10	10.5.2009	"	"	"	"		"		"	"
11	11.5.2009	"	"	"	"		"		"	"
12	12.5.2009	"	"	"	"		"		"	"
13	13.5.2009	"	"	"	"		"		"	"
14	14.5.2009	"	"	"	"		"		"	"
15	15.5.2009	"	"	"	"		"		"	"
16	16.5.2009	"	"	"	"		"		"	"
17	17.5.2009	"	"	"	"		"		"	"
18	18.5.2009	"	"	"	"		"		"	"
19	19.5.2009	"	"	"	"		"		"	"
20	20.5.2009	"	"	"	"		"		"	"
21	21.5.2009	"	"	"	"		"		"	"
22	22.5.2009	NIL	03.05	"	NIL	20.55	"	3.4	3000 kWh	"
23	23.5.2009	1770 cusec	13.50	01.00	NIL	9.10	10.10	3.3	12800 kWh	"
24	24.5.2009	1680 cusec	20.55	01.40	NIL	1.25	03.05	3.3	21000 kWh	"
25	25.5.2009	1401 cusec	21.58	NIL	"	02.02	03.02	3.6	21400 kWh	"
26	26.5.2009	1494	20.52	0.17	"	02.51	03.08	3.6	20300 kWh	"
27	27.5.2009	1062	16.18	NIL	"	02.42	07.42	3.7	12900 kWh	"
28	28.5.2009	730	18.57	1.33	"	3.30	05.03	4.3	9200 kWh	"
29	29.5.2009	560	17.53	01.20	"	4.57	06.17	4.0	7300 kWh	"
30	30.5.2009	547	22.12	01.48	"	NIL	01.48	4.2	17500 kWh	"
31	31.5.2009	1859	24.00	NIL	"	"	NIL	4.0	26000 kWh	"



SOME WESTERN CANAL..... HYDROELECTRIC PROJECT..... DEARI..... UNIT NO. 4V  
 NUMBERS OF UNITS..... FOUR..... TOTAL CAPACITY..... 4X1.65 MW.....

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.5.2009								NIL	39600 kWh
02	02.5.2009								"	"
03	03.5.2009								"	"
04	04.5.2009								"	"
05	05.5.2009								"	"
06	06.5.2009								"	"
07	07.5.2009								"	"
08	08.5.2009								"	"
09	09.5.2009								"	"
10	10.5.2009								"	"
11	11.5.2009								"	"
12	12.5.2009								"	"
13	13.5.2009								"	"
14	14.5.2009								"	"
15	15.5.2009								"	"
16	16.5.2009								"	"
17	17.5.2009								"	"
18	18.5.2009								"	"
19	19.5.2009								"	"
20	20.5.2009								"	"
21	21.5.2009								"	"
22	22.5.2009								"	"
23	23.5.2009								"	"
24	24.5.2009								"	"
25	25.5.2009								"	"
26	26.5.2009								"	"
27	27.5.2009								"	"
28	28.5.2009								"	"
29	29.5.2009								"	"
30	30.5.2009								"	"
31	31.5.2009	1859	11.20	NIL	NIL		NIL	4.0	18900 kWh	"



SONE, INC. EASTERN CANAL HYDROELECTRIC PROJECT D.E.H.R. UNIT NO. T  
 NUMBERS OF UNITS FOUR TOTAL CAPACITY 41.65 MW

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Pail	Backed down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.6.2009		NIL						NIL	39600 (Kwh)
02	02.6.2009		"						"	"
03	03.6.2009		"						"	"
04	04.6.2009		"						"	"
05	05.6.2009		"						"	"
06	06.6.2009		"						"	"
07	07.6.2009		"						"	"
08	08.6.2009		"						"	"
09	09.6.2009		"						"	"
10	10.6.2009		"						"	"
11	11.6.2009		"						"	"
12	12.6.2009		"						"	"
13	13.6.2009		"						"	"
14	14.6.2009		"						"	"
15	15.6.2009		"						"	"
16	16.6.2009		"						"	"
17	17.6.2009		"						"	"
18	18.6.2009		"						"	"
19	19.6.2009		"						"	"
20	20.6.2009		"						"	"
21	21.6.2009		"						"	"
22	22.6.2009		"						"	"
23	23.6.2009		"						"	"
24	24.6.2009		"						"	"
25	25.6.2009		"						"	"
26	26.6.2009		"						"	"
27	27.6.2009		"						"	"
28	28.6.2009		"						"	"
29	29.6.2009		"						"	"
30	30.6.2009		"						"	"
31	31.6.2009		"						"	"



SONE WESTERN CANAL HYDROELECTRIC PROJECT DEHRA UNIT NO. II  
 NUMBERS OF UNITS FOUR TOTAL CAPACITY 4X1.65 MW

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clean/Leak	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.6.2009	2989	NIL					3.9	NIL	39600 kWh
02	02.6.2009	1019	"					4.1	"	"
03	03.6.2009	689	"					4.2	"	"
04	04.6.2009	546	"					4.1	"	"
05	05.6.2009	NIL	"					NIL	"	"
06	06.6.2009	"	"					"	"	"
07	07.6.2009	"	"					"	"	"
08	08.6.2009	"	"					"	"	"
09	09.6.2009	"	"					"	"	"
10	10.6.2009	477	06.54	NIL	06.14	10.52	17.06	4.7	14500 kWh	"
11	11.6.2009	1852	05.53	"	NIL	18.07	18.07	4.4	8400 kWh	"
12	12.6.2009	1339	01.18	NIL	NIL	02.42	02.42	4.4	22700 kWh	"
13	13.6.2009	8562	02.40	01.80	"	NIL	01.80	4.2	40400 kWh	"
14	14.6.2009	8455	03.46	00.14	NIL	"	00.14	4.2	37100 kWh	"
15	15.6.2009	1462	03.30	00.30	NIL	"	00.30	4.8	37400 kWh	"
16	16.6.2009	1495	02.10	03.50	"	"	03.50	4.4	31600 kWh	"
17	17.6.2009	1290	01.57	00.18	NIL	1.45	02.03	4.6	25900 kWh	"
18	18.6.2009	897	02.42	01.18	"	NIL	01.18	5.0	23200	"
19	19.6.2009	1007	04.00	NIL	"	"	NIL	4.9	26600	"
20	20.6.2009	934	03.40	00.20	"	"	00.20	4.8	24000	"
21	21.6.2009	1098	03.50	00.10	"	"	00.10	4.9	25900	"
22	22.6.2009	1214	12.11	NIL	"	11.49	11.49	4.5	14700	"
23	23.6.2009	1668	17.43	0.30	"	05.57	06.12	4.1	26800	"
24	24.6.2009	1860	23.50	0.10	"	NIL	0.10	4.2	30500	"
25	25.6.2009	1981	24.00	NIL	"	"	NIL	4.2	27700	"
26	26.6.2009	2299	07.55	"	"	16.05	16.05	4.0	7900	"
27	27.6.2009	2442	01.56	"	"	22.04	22.04	3.7	2700	"
28	28.6.2009	2493	17.52	"	"	06.08	06.08	4.1	26200	"
29	29.6.2009	3213	23.40	0.20	"	NIL	0.20	3.8	38400	"
30	30.6.2009	2715	24.00	NIL	"	"	NIL	3.9	35500	"
31										



..... SONE WESTERN CANAL ..... HYDROELECTRIC PROJECT ..... DEMR) ..... UNIT NO. .... TIT

NUMBERS OF UNITS. .... F.O.V.R. .... TOTAL CAPACITY ..... 4X1.65 MW

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clean / Disc'd	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.6.2009		14.32	0.35	NIL	8.53	09.28		11500 kWh	39600 kWh
02	02.6.2009		23.50	0.10	"	NIL	0.10		13000	"
03	03.6.2009		17.24	05.46	"	0.50	06.36		7300	"
04	04.6.2009		22.50	01.10	"	NIL	01.10		8100	"
05	05.6.2009		NIL	NIL	"	"	NIL		NIL	"
06	06.6.2009		"	"	"	"	"		"	"
07	07.6.2009		"	"	"	"	"		"	"
08	08.6.2009		"	"	"	"	"		"	"
09	09.6.2009		"	"	"	"	"		"	"
10	10.6.2009		05.10	"	"	"	"		"	"
11	11.6.2009		18.12	0.08	"	18.50	18.50		2500	"
12	12.6.2009		01.55	NIL	"	05.40	05.48		10600	"
13	13.6.2009		12.12	0.05	"	22.05	22.05		2300	"
14	14.6.2009		13.47	NIL	"	11.42	11.47		9200	"
15	15.6.2009		NIL	"	"	10.13	10.13		5900	"
16	16.6.2009		02.38	0.07	"	21.15	21.22		NIL	"
17	17.6.2009		NIL	NIL	"	NIL	NIL		1900	"
18	18.6.2009		"	"	"	"	"		NIL	"
19	19.6.2009		"	"	"	"	"		"	"
20	20.6.2009		"	"	"	"	"		"	"
21	21.6.2009		"	"	"	"	"		"	"
22	22.6.2009		"	"	"	"	"		"	"
23	23.6.2009		11.06	0.45	"	12.09	12.54		"	"
24	24.6.2009		07.15	NIL	"	16.45	16.45		13600	"
25	25.6.2009		14.22	"	"	9.38	9.38		7300	"
26	26.6.2009		4.45	"	"	19.15	19.15		11900	"
27	27.6.2009		5.50	"	"	18.10	18.10		3900	"
28	28.6.2009		22.22	0.10	"	01.28	01.38		5800	"
29	29.6.2009		12.01	NIL	"	11.59	11.59		17200	"
30	30.6.2009		15.20	"	"	8.40	8.40		10000	"
31	31.6.2009		12.53	0.07	"	11.00	11.07		19400	"
									15000	"



SONE WESTERN CANAL HYDROELECTRIC PROJECT. DEARR. UNIT NO. TV  
 NUMBERS OF UNITS. FOUR TOTAL CAPACITY 4x1.65 MW

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Backed down Machine	Trash rack clean/plus Discd	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.6.2009		10.51	NIL	0.10	12.59	13.09		17300 kWh	39600 kWh
02	02.6.2009		NIL	"	NIL	NIL	NIL		NIL	"
03	03.6.2009		"	"	"	"	"		"	"
04	04.6.2009		"	"	"	"	"		"	"
05	05.6.2009		"	"	"	"	"		"	"
06	06.6.2009		"	"	"	"	"		"	"
07	07.6.2009		"	"	"	"	"		"	"
08	08.6.2009		"	"	"	"	"		"	"
09	09.6.2009		"	"	"	"	"		"	"
10	10.6.2009		"	"	"	"	"		"	"
11	11.6.2009		0.41	"	"	"	"		"	"
12	12.6.2009		NIL	"	"	23.19	23.19		700 kWh	"
13	13.6.2009		01.13	"	"	NIL	NIL		NIL	"
14	14.6.2009		0.25	"	"	22.47	22.47		1800	"
15	15.6.2009		0.80	"	"	23.35	23.35		800	"
16	16.6.2009		NIL	"	"	23.40	23.40		600	"
17	17.6.2009		"	"	"	NIL	NIL		NIL	"
18	18.6.2009		"	"	"	"	"		"	"
19	19.6.2009		"	"	"	"	"		"	"
20	20.6.2009		"	"	"	"	"		"	"
21	21.6.2009		"	"	"	"	"		"	"
22	22.6.2009		"	"	"	"	"		"	"
23	23.6.2009		5.59	"	"	18.01	18.01		10100	"
24	24.6.2009		NIL	"	"	NIL	NIL		NIL	"
25	25.6.2009		14.13	"	"	9.47	09.47		13100	"
26	26.6.2009		23.25	0.35	"	NIL	0.35		32800	"
27	27.6.2009		21.44	0.07	"	02.09	02.06		31400	"
28	28.6.2009		18.02	0.38	"	11.20	11.58		17600	"
29	29.6.2009		07.52	NIL	"	16.08	16.08		10100	"
30	30.6.2009		NIL	"	"	NIL	NIL		NIL	"
31										



HYDROELECTRIC PROJECT

DEMR

UNIT NO. I and IV

TOTAL CAPACITY 4X1.65 MW

No.	Grid Fall	Barred down Machine	Trash rack clean	Total Ouzge Hrs.	Head	Daily Generation	As per design Generation
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
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SONE EASTERN CANAL..... HYDROELECTRIC PROJECT..... UNIT NO. T and TV  
 NUMBERS OF UNITS..... 100 R..... TOTAL CAPACITY..... 480.65 MW

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Full	Unked down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation M/L	As per design Generation
01	01.7.2009		"						"	
02	02.7.2009		"						"	
03	03.7.2009		"						"	
04	04.7.2009		"						"	
05	05.7.2009		"						"	
06	06.7.2009		"						"	
07	07.7.2009		"						"	
08	08.7.2009		"						"	
09	09.7.2009		"						"	
10	10.7.2009		"						"	
11	11.7.2009		"						"	
12	12.7.2009		"						"	
13	13.7.2009		"						"	
14	14.7.2009		"						"	
15	15.7.2009		"						"	
16	16.7.2009		"						"	
17	17.7.2009		"						"	
18	18.7.2009		"						"	
19	19.7.2009		"						"	
20	20.7.2009		"						"	
21	21.7.2009		"						"	
22	22.7.2009		"						"	
23	23.7.2009		"						"	
24	24.7.2009		"						"	
25	25.7.2009		"						"	
26	26.7.2009		"						"	
27	27.7.2009		"						"	
28	28.7.2009		"						"	
29	29.7.2009		"						"	
30	30.7.2009		"						"	
31	31.7.2009		"						"	



SONE WESTERN CANA. HYDROELECTRIC PROJECT D.E.A.R. UNIT NO. II  
 NUMBERS OF UNITS. FOUR. TOTAL CAPACITY 4x1.65 MW

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Banked down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01-7-2009	8188 cusec	23.50	0.10			0.10	4.3	37500 kWh	39600 kWh
02	02-7-2009	8059	24.00	NIL			NIL	4.2	35200	"
03	03-7-2009	8752	23.45	0.15			NIL	3.2	35000	"
04	04-7-2009	3453	21.58	0.25			0.15	3.5	34500	"
05	05-7-2009	4334	23.40	0.20			0.37	3.6	37000	"
06	06-7-2009		24.00	NIL			0.20	3.3	40300	"
07	07-7-2009	3957	24.00				NIL	3.5	41800	"
08	08-7-2009	3660	24.00					3.5	42000	"
09	09-7-2009	3660	23.36					3.5	39800	"
10	10-7-2009	3634	24.00				0.24	3.5	38400	"
11	11-7-2009	3587	23.33	0.27			NIL	3.1	33500	"
12	12-7-2009	3569	24.00	NIL			0.27	2.8	33100	"
13	13-7-2009	3883	22.05	0.55			0.15	2.6	30100	"
14	14-7-2009	3621	24.00	NIL			NIL	2.8	33100	"
15	15-7-2009		23.10	NIL			0.50	2.7	30700	"
16	16-7-2009	3824	24.00				NIL	2.7	29800	"
17	17-7-2009	3818	24.00				NIL	2.7	29800	"
18	18-7-2009	3824	22.35				0.25	2.6	29500	"
19	19-7-2009	3834	24.00				NIL	2.6	30300	"
20	20-7-2009	3643	21.36				0.24	2.6	28600	"
21	21-7-2009	3530	22.28				0.13	2.9	31100	"
22	22-7-2009	3660	23.54	0.06			0.06	2.9	30300	"
23	23-7-2009	3660	23.52	0.08			0.08	2.9	30700	"
24	24-7-2009	3801	24.00	NIL			NIL	2.9	30300	"
25	25-7-2009	3801	24.00	NIL			NIL	2.9	30300	"
26	26-7-2009	3801	24.00	NIL			NIL	2.9	30300	"
27	27-7-2009	3801	24.00	NIL			NIL	2.9	30300	"
28	28-7-2009	3801	24.00	NIL			NIL	2.9	30300	"
29	29-7-2009	4118	21.49	0.18			0.11	2.8	29400	"
30	30-7-2009	3965	24.00	NIL			NIL	2.8	31300	"
31	31-7-2009	3748	24.00					2.9	34300	



SONE EASTERN CANAL  
 NUMBERS OF UNITS..... FOUR  
 HYDROELECTRIC PROJECT..... D.E.H.R.I.  
 TOTAL CAPACITY..... 4 x 1.65 MW  
 UNIT NO..... III

Sl. No	Date	Discharge from Power House	Running Hrs.	Grid Fail	Backed down Machine	Trash rack clean / 24 Hrs.	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.7.2009		11.42	0.10	NIL	12.05	12.15		6500 kWh	29600 kWh
02	02.7.2009		5.02	NIL	"	18.58	17.58		4000 kWh	"
03	03.7.2009		11.38	0.17	"	12.05	12.22		14200 kWh	"
04	04.7.2009		28.15	0.10	"	01.35	01.45		29700 kWh	"
05	05.7.2009		23.28	0.39	"	NIL	0.32		33300 kWh	"
06	06.7.2009		24.00	NIL	"	"	NIL		32700 kWh	"
07	07.7.2009		23.45	0.15	"	"	0.15		32300 kWh	"
08	08.7.2009		24.00	NIL	"	"	NIL		34800 kWh	"
09	09.7.2009		22.56	0.10	"	0.54	01.04		34400 kWh	"
10	10.7.2009		23.50	0.10	"	NIL	0.10		30800 kWh	"
11	11.7.2009		23.26	0.34	"	"	0.34		26100 kWh	"
12	12.7.2009		23.20	0.40	"	"	0.40		26100 kWh	"
13	13.7.2009		21.53	2.07	"	"	2.07		24300 kWh	"
14	14.7.2009		24.00	NIL	"	"	NIL		27400	"
15	15.7.2009		22.25	0.10	"	01.25	01.35		25000	"
16	16.7.2009		23.50	0.10	"	NIL	0.10		26100	"
17	17.7.2009		24.00	NIL	"	"	NIL		25600	"
18	18.7.2009		22.27	0.07	"	01.26	01.33		24200	"
19	19.7.2009		24.00	NIL	"	NIL	NIL		25000	"
20	20.7.2009		21.22	"	"	2.32	02.32		21100	"
21	21.7.2009		22.26	"	"	01.34	01.34		23300	"
22	22.7.2009		22.48	0.07	"	01.07	01.12		24300	"
23	23.7.2009		24.00	NIL	"	NIL	NIL		25300	"
24	24.7.2009		23.53	0.07	"	"	0.07		25100	"
25	25.7.2009		23.52	0.08	"	"	0.08		25700	"
26	26.7.2009		23.53	0.07	"	"	0.07		26700	"
27	27.7.2009		24.00	NIL	"	"	NIL		27100	"
28	28.7.2009		22.36	01.24	"	"	01.24		25200	"
29	29.7.2009		21.49	01.19	"	00.52	02.11		25400	"
30	30.7.2009		24.00	NIL	"	NIL	NIL		26700	"
31	31.7.2009		24.00	"	"	"	"		30200	"



SONE WESTERN CANAL  
 NUMBERS OF UNITS..... FOUR  
 HYDROELECTRIC PROJECT..... DEHRI  
 TOTAL CAPACITY..... 4x1.65 MW  
 UNIT NO..... I

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation M/L	As per design Generation
01	01.8.2009		N/L						N/L	39600 kWh
02	02.8.2009		"						"	"
03	03.8.2009		"						"	"
04	04.8.2009		"						"	"
05	05.8.2009		"						"	"
06	06.8.2009		"						"	"
07	07.8.2009		"						"	"
08	08.8.2009		"						"	"
09	09.8.2009		"						"	"
10	10.8.2009		"						"	"
11	11.8.2009		"						"	"
12	12.8.2009		"						"	"
13	13.8.2009		"						"	"
14	14.8.2009		"						"	"
15	15.8.2009		"						"	"
16	16.8.2009		"						"	"
17	17.8.2009		"						"	"
18	18.8.2009		"						"	"
19	19.8.2009		"						"	"
20	20.8.2009		"						"	"
21	21.8.2009		"						"	"
22	22.8.2009		"						"	"
23	23.8.2009		"						"	"
24	24.8.2009		"						"	"
25	25.8.2009		"						"	"
26	26.8.2009		"						"	"
27	27.8.2009		"						"	"
28	28.8.2009		"						"	"
29	29.8.2009		"						"	"
30	30.8.2009		"						"	"
31	31.8.2009		"						"	"



SONE WESTERN CANAL HYDROELECTRIC PROJECT D.E.H.R.) UNIT NO. II  
 NUMBERS OF UNITS FOUR TOTAL CAPACITY 421.65 MW

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clean / Discard	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.8.2009	4110	83.50	0.10	NIL	NIL	0.10	3.5	38100 kWh	39600 kWh
02	02.8.2009	3940	81.58	0.12	NIL	0.50	0.202	3.6	33200	"
03	03.8.2009	3938	83.18	00.42	"	NIL	00.42	3.8	38300	"
04	04.8.2009	3878	83.16	00.44	"	"	00.44	3.8	38800	"
05	05.8.2009	3894	82.46	01.14	"	"	01.14	3.7	38100	"
06	06.8.2009	3576	80.53	02.27	"	0.40	03.07	3.9	34300	"
07	07.8.2009	3679	82.49	01.11	"	NIL	01.11	4.0	39500	"
08	08.8.2009	3416	81.81	02.39	"	"	02.39	4.0	32600	"
09	09.8.2009	2711	83.10	00.50	"	"	00.50	4.4	34300	"
10	10.8.2009	2547	81.55	02.05	"	"	02.05	4.3	33600	"
11	11.8.2009	2952	82.55	01.05	"	"	01.05	4.1	36200	"
12	12.8.2009	3263	84.00	NIL	"	"	NIL	4.0	39600	"
13	13.8.2009	2669	80.55	"	"	03.05	03.05	4.3	32900	"
14	14.8.2009	3294	83.08	0.52	"	NIL	0.52	3.4	36900	"
15	15.8.2009	3852	84.00	NIL	"	"	NIL	3.0	35300	"
16	16.8.2009	3550	83.24	0.36	"	"	0.36	2.8	31300	"
17	17.8.2009	3677	81.00	01.15	"	0.45	3.00	2.8	28100	"
18	18.8.2009	3587	82.42	0.80	"	0.58	01.18	3.6	41000	"
19	19.8.2009	3555	83.53	0.07	"	NIL	0.07	3.3	39400	"
20	20.8.2009	3744	84.00	NIL	"	"	NIL	2.9	37100	"
21	21.8.2009	3550	81.00	3.00	"	"	03.00	3.0	28700	"
22	22.8.2009	3719	81.04	02.56	"	"	02.56	2.9	28300	"
23	23.8.2009	3823	16.01	NIL	"	07.59	07.59	2.9	22000	"
24	24.8.2009	3660	12.05	"	"	11.55	11.55	3.5	18600	"
25	25.8.2009	3512	84.00	NIL	"	NIL	NIL	3.0	35300	"
26	26.8.2009	3550	83.40	0.20	"	"	0.20	2.9	32200	"
27	27.8.2009	3492	84.00	NIL	"	"	NIL	2.8	31200	"
28	28.8.2009	3408	83.35	0.25	"	"	0.25	2.9	30000	"
29	29.8.2009	3408	84.00	NIL	"	"	NIL	2.9	30700	"
30	30.8.2009	3408	84.00	"	"	"	"	2.8	30700	"
31	31.8.2009	3408	1500	09.00	"	"	04.00	2.8	19200	"



SONE WESTERN CANAL ..... HYDROELECTRIC PROJECT ..... DEHRADUN ..... UNIT NO. III  
 NUMBERS OF UNITS ..... FOUR ..... TOTAL CAPACITY ..... 4x1.65 MW

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Backed down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.8.2009		24.00	NIL	NIL	NIL	NIL		37700 kWh	39600 kWh
02	02.8.2009		23.14	0.46	"	"	0.46		35300	"
03	03.8.2009		16.05	NIL	07.55	NIL	7.55		19600	"
04	04.8.2009		NIL	"	NIL	"	NIL		NIL	"
05	05.8.2009		10.10	0.20	13.30	"	13.50		15600	"
06	06.8.2009		20.53	0.10	09.12	"	09.22		20400	"
07	07.8.2009		NIL	NIL	NIL	"	NIL		NIL	"
08	08.8.2009		"						"	"
09	09.8.2009		"						"	"
10	10.8.2009		"						"	"
11	11.8.2009		"						"	"
12	12.8.2009		"						"	"
13	13.8.2009		"						"	"
14	14.8.2009		"						"	"
15	15.8.2009		"						"	"
16	16.8.2009		"						"	"
17	17.8.2009		"						"	"
18	18.8.2009		"						"	"
19	19.8.2009		"						"	"
20	20.8.2009		"						"	"
21	21.8.2009		"						"	"
22	22.8.2009		"						"	"
23	23.8.2009		"						"	"
24	24.8.2009		"						"	"
25	25.8.2009		"						"	"
26	26.8.2009		"						"	"
27	27.8.2009		"						"	"
28	28.8.2009		"						"	"
29	29.8.2009		"						"	"
30	30.8.2009		"						"	"
31	31.8.2009		"						"	"



SONE WESTERN CANAL  
 HYDROELECTRIC PROJECT (P.H.R.)  
 UNIT NO. IV  
 NUMBERS OF UNITS, FOUR  
 TOTAL CAPACITY 4x1.65 MW

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clean / Discard	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.8.2009		NIL	NIL	NIL	NIL	NIL		NIL	39600 kWh
02	03.8.2009		"	"	"	"	"		"	"
03	03.8.2009		"	"	"	"	"		"	"
04	04.8.2009		13.50	"	10.10	"	16.10		81800 kWh	"
05	05.8.2009		12.43	0.17	11.00	"	11.17		80600	"
06	06.8.2009		8.18	NIL	15.42	"	15.42		14500	"
07	07.8.2009		21.56	0.44	NIL	01.20	02.04		34400	"
08	08.8.2009		20.07	02.03	NIL	01.50	05.53		26400	"
09	09.8.2009		24.00	NIL	"	NIL	NIL		23800	"
10	10.8.2009		20.40	0.45	"	02.35	03.20		23800	"
11	11.8.2009		23.50	0.10	"	NIL	0.10		33700	"
12	12.8.2009		24.00	NIL	"	"	NIL		26600	"
13	13.8.2009		24.00	"	"	"	"		26500	"
14	14.8.2009		23.52	0.08	"	"	0.08		33700	"
15	15.8.2009		24.00	NIL	"	"	NIL		31500	"
16	16.8.2009		23.25	0.35	"	"	0.35		27800	"
17	17.8.2009		21.10	1.15	"	01.35	2.50		25200	"
18	18.8.2009		23.03	NIL	"	00.57	0.57		32000	"
19	19.8.2009		23.52	0.08	"	NIL	0.08		32900	"
20	20.8.2009		24.00	NIL	"	"	NIL		31800	"
21	21.8.2009		21.16	2.44	"	"	2.44		27800	"
22	22.8.2009		21.57	02.03	"	"	2.03		27700	"
23	23.8.2009		20.30	NIL	"	3.30	3.30		23400	"
24	24.8.2009		13.15	"	"	11.45	11.45		17600	"
25	25.8.2009		24.00	NIL	"	NIL	NIL		30300	"
26	26.8.2009		23.38	0.22	"	"	0.22		27800	"
27	27.8.2009		24.00	NIL	"	"	NIL		26800	"
28	28.8.2009		23.44	0.16	"	"	0.16		26900	"
29	29.8.2009		24.00	NIL	"	"	NIL		26900	"
30	30.8.2009		24.00	NIL	"	"	"		26700	"
31	31.8.2009		15.10	8.50	"	"	8.50		16400	"



SONE WESTERN CANAL ..... HYDROELECTRIC PROJECT ..... DEHRA ..... UNIT NO. I and II  
 NUMBERS OF UNITS ..... FOUR ..... TOTAL CAPACITY ..... 4x1.65 MW

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Backed down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.9.2009		NIL						NIL	39600kwh
02	03.9.2009		"						"	"
03	03.9.2009		"						"	"
04	04.9.2009		"						"	"
05	05.9.2009		"						"	"
06	06.9.2009		"						"	"
07	07.9.2009		"						"	"
08	08.9.2009		"						"	"
09	09.9.2009		"						"	"
10	10.9.2009		"						"	"
11	11.9.2009		"						"	"
12	12.9.2009		"						"	"
13	13.9.2009		"						"	"
14	14.9.2009		"						"	"
15	15.9.2009		"						"	"
16	16.9.2009		"						"	"
17	17.9.2009		"						"	"
18	18.9.2009		"						"	"
19	19.9.2009		"						"	"
20	20.9.2009		"						"	"
21	21.9.2009		"						"	"
22	22.9.2009		"						"	"
23	23.9.2009		"						"	"
24	24.9.2009		"						"	"
25	25.9.2009		"						"	"
26	26.9.2009		"						"	"
27	27.9.2009		"						"	"
28	28.9.2009		"						"	"
29	29.9.2009		"						"	"
30	30.9.2009		"						"	"
31			"						"	"

11.11



SONE WESTERN CANAL F00R HYDROELECTRIC PROJECT TOTAL CAPACITY UNIT NO. II

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Backed down Machine	Trash rack clean/discard	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.9.2009	3408	1922	4.38	NIL	NIL	4.38	2.9	24800 kWh	39600 kWh
02	02.9.2009	3530	2157	2.03	"	"	2.03	2.9	24800	"
03	03.9.2009	3191	2400	NIL	"	"	NIL	2.9	30400	"
04	04.9.2009	3550	2304	0.56	"	"	0.56	2.9	29600	"
05	05.9.2009	3266	2400	NIL	"	"	NIL	2.9	26800	"
06	06.9.2009	3408	2205	0.55	"	"	0.55	2.8	11300	"
07	07.9.2009	3266	08.30	15.30	"	"	15.30	3.7	13800	"
08	08.9.2009	1401	10.55	NIL	"	13.05	13.05	3.9	10400	"
09	09.9.2009	1000	10.10	"	"	13.50	13.50	4.2	28000	"
10	10.9.2009	1152	21.00	0.10	"	2.50	3.00	3.7	33900	"
11	11.9.2009	3124	20.34	0.10	"	3.16	3.26	3.4	40000	"
12	12.9.2009	3761	24.00	NIL	"	NIL	NIL	2.9	33800	"
13	13.9.2009	3266	23.50	0.10	"	"	0.10	2.7	30100	"
14	14.9.2009	3208	23.50	0.10	"	"	0.10	3.1	33500	"
15	15.9.2009	3706	23.52	0.08	"	"	0.08	2.8	32300	"
16	16.9.2009	3616	22.50	NIL	"	0.10	0.10	2.8	29400	"
17	17.9.2009	3362	24.00	"	"	NIL	NIL	2.8		
18	18.9.2009	3843	24.00	"	"	"	"			
19	19.9.2009									



SONE WESTERN CANAL  
HYDROELECTRIC PROJECT  
UNIT NO. IV  
NUMBERS OF UNITS.....FOUR.....  
TOTAL CAPACITY.....4X165 MW.....

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barbed down Machine	Trash rack clean / Dirty	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.9.2009		19.83	4.37	NIL	NIL	4.37		81400 kWh	39600 kWh
02	02.9.2009		17.11	8.14	NIL	4.35	6.49		18300	"
03	03.9.2009		22.45	01.15	"	NIL	1.15		88600	"
04	04.9.2009		22.29	01.31	"	"	1.31		85000	"
05	05.9.2009		23.40	0.20	"	"	0.20		86400	"
06	06.9.2009		21.53	2.07	"	"	2.07		84100	"
07	07.9.2009		7.37	15.33	"	0.50	16.23		6700	"
08	08.9.2009		NIL	NIL	"	NIL	NIL		NIL	"
09	09.9.2009		"	"	"	"	"		NIL	"
10	10.9.2009		8.00	"	"	16.00	16.00		10800	"
11	11.9.2009		15.45	"	"	8.15	8.15		17300	"
12	12.9.2009		8.55	"	"	15.05	15.05		12300	"
13	13.9.2009		23.48	0.12	"	NIL	0.12		28400	"
14	14.9.2009		24.00	NIL	"	"	NIL		26700	"
15	15.9.2009		23.50	0.10	"	"	0.10		27800	"
16	16.9.2009		19.13	NIL	3.35	01.12	4.47		20400	"
17	17.9.2009		24.00	"	NIL	NIL	NIL		25200	"
18	18.9.2009		22.27	0.10	01.23	NIL	01.33		25300	"
19	19.9.2009		24.00	NIL	NIL	"	NIL		27200	"
20	20.9.2009		23.40	"	0.30	"	0.20		32900	"
21	21.9.2009		23.55	0.05	NIL	"	0.05		33000	"
22	22.9.2009		17.29	NIL	6.31	NIL	6.31		24300	"
23	23.9.2009		24.00	"	NIL	"	NIL		33500	"
24	24.9.2009		24.00	"	"	"	"		34800	"
25	25.9.2009		24.00	"	"	"	"		33600	"
26	26.9.2009		23.20	"	0.40	"	0.40		35200	"
27	27.9.2009		24.00	"	NIL	"	NIL		34900	"
28	28.9.2009		24.00	"	"	"	"		32800	"
29	29.9.2009		24.00	"	"	"	"		33700	"
30	30.9.2009		24.00	"	"	"	"		33100	"
31										



SONE WESTERN CANAL..... HYDROELECTRIC PROJECT..... DEHRU..... UNIT NO. I and II.....  
 NUMBERS OF UNITS..... FOUR..... TOTAL CAPACITY..... 4 x 65 MW.....

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Burked down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.10.2009		NIL						NIL	39600 KwH
02	02.10.2009		"						"	"
03	03.10.2009		"						"	"
04	04.10.2009		"						"	"
05	05.10.2009		"						"	"
06	06.10.2009		"						"	"
07	07.10.2009		"						"	"
08	08.10.2009		"						"	"
09	09.10.2009		"						"	"
10	10.10.2009		"						"	"
11	11.10.2009		"						"	"
12	12.10.2009		"						"	"
13	13.10.2009		"						"	"
14	14.10.2009		"						"	"
15	15.10.2009		"						"	"
16	16.10.2009		"						"	"
17	17.10.2009		"						"	"
18	18.10.2009		"						"	"
19	19.10.2009		"						"	"
20	20.10.2009		"						"	"
21	21.10.2009		"						"	"
22	22.10.2009		"						"	"
23	23.10.2009		"						"	"
24	24.10.2009		"						"	"
25	25.10.2009		"						"	"
26	26.10.2009		"						"	"
27	27.10.2009		"						"	"
28	28.10.2009		"						"	"
29	29.10.2009		"						"	"
30	30.10.2009		"						"	"
31	31.10.2009		"						"	"



SOME WESTERN CANALS  
 NUMBERS OF UNITS FOUR  
 HYDROELECTRIC PROJECT DEHRADUN  
 TOTAL CAPACITY 43.165 MW  
 UNIT NO II

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Burked down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.10.2009	3450	23.40	0.20	NIL	NIL	0.20	3.4	39400 kWh	39600 kWh
02	02.10.2009	3512	23.12	0.48	"	"	0.48	2.9	33100	"
03	03.10.2009	3677	24.00	NIL	"	"	NIL	2.8	31200	"
04	04.10.2009	3508	24.00	"	"	"	"	2.7	32200	"
05	05.10.2009	3677	23.09	0.51	"	"	0.51	2.9	31300	"
06	06.10.2009	3660	24.00	NIL	"	"	NIL	2.9	30900	"
07	07.10.2009	3660	23.00	"	"	01.00	01.00	2.8	29200	"
08	08.10.2009	3660	24.00	"	"	NIL	NIL	2.7	30100	"
09	09.10.2009	3660	23.55	0.05	"	"	0.05	2.8	30500	"
10	10.10.2009	3801	23.05	0.15	0.40	"	0.55	2.8	30100	"
11	11.10.2009	3801	23.55	0.05	NIL	"	0.05	2.8	30400	"
12	12.10.2009	3530	24.00	NIL	"	"	NIL	2.8	29400	"
13	13.10.2009	3530	23.55	0.05	"	"	0.05	2.7	30800	"
14	14.10.2009	3866	23.48	0.12	"	"	0.12	2.9	33100	"
15	15.10.2009	3761	23.25	0.35	"	"	0.35	3.1	35900	"
16	16.10.2009	4050	23.08	0.52	"	"	0.52	2.9	33900	"
17	17.10.2009		24.00	NIL	"	"	NIL	3.0	34000	"
18	18.10.2009		23.55	0.05	"	"	0.05	3.0	33400	"
19	19.10.2009		23.42	0.18	"	"	0.18	3.1	34200	"
20	20.10.2009	3905	24.00	NIL	"	"	"	3.0	33400	"
21	21.10.2009	3775	23.55	0.05	"	"	0.05	3.1	35800	"
22	22.10.2009	3845	22.58	0.10	"	0.52	01.02	3.3	38800	"
23	23.10.2009	4212	23.30	0.30	"	NIL	0.30	3.5	41900	"
24	24.10.2009	4228	24.00	NIL	"	"	NIL	3.5	42100	"
25	25.10.2009	3693	23.40	0.20	"	"	0.20	3.6	40600	"
26	26.10.2009	3999	23.50	0.10	"	"	0.10	3.6	42000	"
27	27.10.2009	3988	24.00	NIL	"	"	NIL	3.6	40400	"
28	28.10.2009	3609	23.15	0.45	"	"	0.45	3.8	39400	"
29	29.10.2009	3776	23.50	0.10	"	"	0.10	3.7	41400	"
30	30.10.2009	3986	23.40	0.20	"	"	0.20	3.7	40800	"
31	31.10.2009	3022	23.50	0.10	"	"	0.10	3.7	39400	"

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SONE WESTERN CANAL  
 FEOKR  
 HYDROELECTRIC PROJECT  
 DEHRADUN  
 TOTAL CAPACITY 43.65 MW  
 UNIT NO IV

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barbed down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.10.2009		24.00	NIL	NIL	NIL	NIL		35600 kWh	39600 kWh
02	02.10.2009		23.44	0.16	"	"	0.16		29300	"
03	03.10.2009		24.00	NIL	"	"	NIL		26700	"
04	04.10.2009		23.43	0.17	"	"	0.17		27500	"
05	05.10.2009		23.16	0.44	"	"	0.44		28800	"
06	06.10.2009		24.00	NIL	"	"	NIL		27100	"
07	07.10.2009		23.59	"	"	01.01	01.01		26000	"
08	08.10.2009		24.00	"	"	NIL	NIL		26600	"
09	09.10.2009		23.54	0.06	"	"	0.06		21400	"
10	10.10.2009		23.19	0.21	0.20	"	0.41		26400	"
11	11.10.2009		24.00	NIL	NIL	"	NIL		26600	"
12	12.10.2009		24.00	"	"	"	"		25300	"
13	13.10.2009		24.00	"	"	"	"		26400	"
14	14.10.2009		23.55	0.05	"	"	0.05		28200	"
15	15.10.2009		24.00	NIL	"	"	NIL		30000	"
16	16.10.2009		23.27	0.33	"	"	0.33		29300	"
17	17.10.2009		24.00	NIL	"	"	NIL		28700	"
18	18.10.2009		24.00	"	"	"	"		28000	"
19	19.10.2009		23.50	0.10	"	"	0.10		28700	"
20	20.10.2009		24.00	NIL	"	"	NIL		28400	"
21	21.10.2009		23.30	"	0.30	"	0.30		30400	"
22	22.10.2009		22.58	0.12	NIL	0.50	0.102		32700	"
23	23.10.2009		23.29	0.31	"	NIL	0.31		35100	"
24	24.10.2009		24.00	NIL	"	"	NIL		35400	"
25	25.10.2009		24.00	"	"	"	"		37600	"
26	26.10.2009		24.00	"	"	"	"		35900	"
27	27.10.2009		24.00	"	"	"	"		38200	"
28	28.10.2009		23.07	0.18	0.35	"	0.53		36400	"
29	29.10.2009		23.35	NIL	0.25	NIL	0.25		37500	"
30	30.10.2009		24.00	"	NIL	"	NIL		35500	"
31	31.10.2009		24.00	"	"	"	"		34300	"

11-A



SONE WESTERN CANAL  
 NUMBERS OF UNITS..... POWER.....  
 HYDROELECTRIC PROJECT..... DEMR.....  
 TOTAL CAPACITY..... 421.65 MW.....  
 UNIT NO. I and III.....

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.11.2009		NIL						NIL	39600 kWh
02	02.11.2009		"						"	"
03	03.11.2009		"						"	"
04	04.11.2009		"						"	"
05	05.11.2009		"						"	"
06	06.11.2009		"						"	"
07	07.11.2009		"						"	"
08	08.11.2009		"						"	"
09	09.11.2009		"						"	"
10	10.11.2009		"						"	"
11	11.11.2009		"						"	"
12	12.11.2009		"						"	"
13	13.11.2009		"						"	"
14	14.11.2009		"						"	"
15	15.11.2009		"						"	"
16	16.11.2009		"						"	"
17	17.11.2009		"						"	"
18	18.11.2009		"						"	"
19	19.11.2009		"						"	"
20	20.11.2009		"						"	"
21	21.11.2009		"						"	"
22	22.11.2009		"						"	"
23	23.11.2009		"						"	"
24	24.11.2009		"						"	"
25	25.11.2009		"						"	"
26	26.11.2009		"						"	"
27	27.11.2009		"						"	"
28	28.11.2009		"						"	"
29	29.11.2009		"						"	"
30	30.11.2009		"						"	"
31			"						"	"

2.1.12



SOME WESTERN CANAL.....HYDROELECTRIC PROJECT.....PERRA.....UNIT NO.....II  
 NUMBERS OF UNITS.....F.O.V.R.....TOTAL CAPACITY.....4-11-65 MW.....

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Burked down Machine	Trash rack clean / day	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.11.2009	3422	23.30	0.30	NIL	NIL	0.30	3.6	39000 kWh	39600 kWh
02	02.11.2009	1623	13.10	NIL	"	10.50	10.50	4.1	80600	"
03	03.11.2009	1657	7.36	"	"	16.24	16.24	4.4	10600	"
04	04.11.2009	2456	18.56	"	"	05.04	0.5	4.3	24500	"
05	05.11.2009	2349	19.50	"	"	04.10	04.10	4.3	31400	"
06	06.11.2009	2562	21.56	02.04	"	NIL	02.04	3.9	37800	"
07	07.11.2009	3449	23.48	0.12	"	"	0.12	3.8	39400	"
08	08.11.2009	3540	23.48	0.12	"	"	0.12	3.8	39000	"
09	09.11.2009	3104	24.00	NIL	"	"	NIL	4.0	41300	"
10	10.11.2009	3564	22.50	0.10	"	"	0.10	3.8	38500	"
11	11.11.2009	3005	14.34	0.16	"	9.10	9.26	3.9	24800	"
12	12.11.2009	2005	NIL	NIL	"	NIL	NIL	4.6	NIL	"
13	13.11.2009	1560	"	"	"	"	"	4.5	"	"
14	14.11.2009	1560	"	"	"	"	"	4.4	"	"
15	15.11.2009	1694	"	"	"	"	"	4.4	"	"
16	16.11.2009	1631	"	"	"	"	"	4.4	"	"
17	17.11.2009	1732	11.50	"	"	12.45	12.45	4.1	16300	"
18	18.11.2009	3363	22.55	0.16	"	0.49	0.05	3.9	31100	"
19	19.11.2009	2815	23.50	0.10	"	NIL	0.10	3.7	37800	"
20	20.11.2009	2815	17.45	NIL	"	06.15	06.15	3.9	25500	"
21	21.11.2009	2955	06.35	"	"	17.25	17.25	4.4	7000	"
22	22.11.2009	2975	20.30	0.10	"	0.2.20	03.30	3.8	29400	"
23	23.11.2009		3.15	NIL	"	20.45	20.45	3.8	2500	"
24	24.11.2009	CANAL CLOSED	NIL						NIL	"
25	25.11.2009	"	"						"	"
26	26.11.2009	"	"						"	"
27	27.11.2009	"	"						"	"
28	28.11.2009	"	"						"	"
29	29.11.2009	"	"						"	"
30	30.11.2009	"	"						"	"
31									"	"



SONE WESTERN CANAL.....HYDROELECTRIC PROJECT.....D.E.H.R.).....UNIT NO. IV  
 NUMBERS OF UNITS.....F.O.R.....TOTAL CAPACITY.....4X165 MW.....

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Backed down Machine	Trash rack clean/Disced	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.11.2009		23.40	0.20	NIL	NIL	0.20		33500	34600 kWh
02	02.11.2009		21.54	NIL	"	02.06	02.06		30400	"
03	03.11.2009		24.00	"	"	NIL	NIL		37800	"
04	04.11.2009		23.50	0.10	"	"	0.10		26900	"
05	05.11.2009		24.00	NIL	"	"	NIL		24600	"
06	06.11.2009		22.38	0.22	"	"	0.22		23400	"
07	07.11.2009		23.54	0.10	"	"	0.10		37400	"
08	08.11.2009		24.00	NIL	"	"	NIL		31600	"
09	09.11.2009		23.24	"	"	0.36	0.36		28200	"
10	10.11.2009		23.25	0.35	"	NIL	0.35		37600	"
11	11.11.2009		17.08	0.07	"	06.45	6.52		22500	"
12	12.11.2009		24.00	NIL	"	NIL	NIL		42200	"
13	13.11.2009		24.00	"	"	"	"		42600	"
14	14.11.2009		23.30	"	"	0.30	0.30		40800	"
15	15.11.2009		23.30	"	"	0.30	0.30		39200	"
16	16.11.2009		23.22	"	"	14.08	14.08		15400	"
17	17.11.2009		24.35	"	"	14.25	14.25		14500	"
18	18.11.2009		24.40	0.15	"	2.05	02.20		33500	"
19	19.11.2009		24.00	NIL	"	NIL	NIL		35900	"
20	20.11.2009		19.30	"	"	4.30	4.30		28700	"
21	21.11.2009		24.00	"	"	NIL	NIL		41500	"
22	22.11.2009		19.30	"	"	4.30	4.30		26600	"
23	23.11.2009		NIL						NIL	"
24	24.11.2009		"						"	"
25	25.11.2009		"						"	"
26	26.11.2009		"						"	"
27	27.11.2009		"						"	"
28	28.11.2009		"						"	"
29	29.11.2009		"						"	"
30	30.11.2009		"						"	"
31										



SONE WESTERN CANAL  
 NUMBERS OF UNITS.....FOUR.....HYDROELECTRIC PROJECT, DEHRADUN  
 UNIT NO. I and II  
 TOTAL CAPACITY.....4X1.65 MW

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.12.2009		N/L						N/L	39600 kWh
02	02.12.2009		"						"	"
03	03.12.2009		"						"	"
04	04.12.2009		"						"	"
05	05.12.2009		"						"	"
06	06.12.2009		"						"	"
07	07.12.2009		"						"	"
08	08.12.2009		"						"	"
09	09.12.2009		"						"	"
10	10.12.2009		"						"	"
11	11.12.2009		"						"	"
12	12.12.2009		"						"	"
13	13.12.2009		"						"	"
14	14.12.2009		"						"	"
15	15.12.2009		"						"	"
16	16.12.2009		"						"	"
17	17.12.2009		"						"	"
18	18.12.2009		"						"	"
19	19.12.2009		"						"	"
20	20.12.2009		"						"	"
21	21.12.2009		"						"	"
22	22.12.2009		"						"	"
23	23.12.2009		"						"	"
24	24.12.2009		"						"	"
25	25.12.2009		"						"	"
26	26.12.2009		"						"	"
27	27.12.2009		"						"	"
28	28.12.2009		"						"	"
29	29.12.2009		"						"	"
30	30.12.2009		"						"	"
31	31.12.2009		"						"	"



SOME WESTERN CANAL  
 NUMBERS OF UNITS FOUR  
 HYDROELECTRIC PROJECT, DENALI  
 UNIT NO. III  
 TOTAL CAPACITY 431.65 MW

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clean / Loss / Accd	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.12.2009	CANAL CLOSED	NIL						NIL	39600 kWh
02	02.12.2009	"	"						"	"
03	03.12.2009	"	"						"	"
04	04.12.2009	"	"						"	"
05	05.12.2009	"	"						"	"
06	06.12.2009	"	"						"	"
07	07.12.2009	"	"						"	"
08	08.12.2009	"	"						"	"
09	09.12.2009	"	"						"	"
10	10.12.2009	"	"						"	"
11	11.12.2009	"	"						"	"
12	12.12.2009	"	"						"	"
13	13.12.2009	"	"						"	"
14	14.12.2009	"	"						"	"
15	15.12.2009	"	"						"	"
16	16.12.2009	"	"						"	"
17	17.12.2009	"	"						"	"
18	18.12.2009	"	"						"	"
19	19.12.2009	"	"						"	"
20	20.12.2009	"	"						"	"
21	21.12.2009	"	"						"	"
22	22.12.2009	"	"						"	"
23	23.12.2009	"	"						"	"
24	24.12.2009	"	"						"	"
25	25.12.2009	8384	01.50	NIL	NIL	82.10	82.10	3.9	8200 kWh	"
26	26.12.2009	8324	06.00	0.15	"	17.45	18.45	4.0	8600	"
27	27.12.2009	1780	NIL	NIL	"	NIL	NIL	3.7	NIL	"
28	28.12.2009	1594	"	"	"	"	"	4.5	"	"
29	29.12.2009	"	"	"	"	"	"	4.3	"	"
30	30.12.2009	3718	8.55	NIL	NIL	15.05	15.05	3.9	13400 kWh	"
31	31.12.2009	1668	8.35	0.15	"	81.10	81.85	4.0	3600 kWh	"



SONE WESTERN CANAL  
 NUMBERS OF UNITS FOUR  
 HYDROELECTRIC PROJECT DEHRA  
 UNIT NO. IV

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clean/stop Hrs.	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.12.2009	CANAL CLOSED	NIL						NIL	39600 kwh
02	02.12.2009	"	"						"	"
03	03.12.2009	"	"						"	"
04	04.12.2009	"	"						"	"
05	05.12.2009	"	"						"	"
06	06.12.2009	"	"						"	"
07	07.12.2009	"	"						"	"
08	08.12.2009	"	"						"	"
09	09.12.2009	"	"						"	"
10	10.12.2009	"	"						"	"
11	11.12.2009	"	"						"	"
12	12.12.2009	"	"						"	"
13	13.12.2009	"	"						"	"
14	14.12.2009	"	"						"	"
15	15.12.2009	"	"						"	"
16	16.12.2009	"	"						"	"
17	17.12.2009	"	"						"	"
18	18.12.2009	"	"						"	"
19	19.12.2009	"	"						"	"
20	20.12.2009	"	"						"	"
21	21.12.2009	"	"						"	"
22	22.12.2009	"	"						"	"
23	23.12.2009	"	"						"	"
24	24.12.2009	"	"						"	"
25	25.12.2009		13.17	NIL	NIL	10.43	10.43		20800	"
26	26.12.2009		23.53	0.07	"	NIL	0.07		36500	"
27	27.12.2009		18.05	NIL	"	5.55	5.55		28500	"
28	28.12.2009		21.40	"	"	2.80	2.80		31400	"
29	29.12.2009		18.55	0.10	"	4.55	05.05		27800	"
30	30.12.2009		16.35	NIL	"	7.25	7.25		22800	"
31	31.12.2009		19.10	4.50	"	NIL	4.50		27000	"

TOTAL CAPACITY 4 x 1.65 MW



SONE WESTERN CANAL  
 NUMBERS OF UNITS..... FOUR  
 HYDROELECTRIC PROJECT..... DERRI  
 UNIT NO..... I

TOTAL CAPACITY..... 4X1.65 MW

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.1.2010		NIL						NIL	39600 kWh
02	02.1.2010		"						"	"
03	03.1.2010		"						"	"
04	04.1.2010		"						"	"
05	05.1.2010		"						"	"
06	06.1.2010		"						"	"
07	07.1.2010		"						"	"
08	08.1.2010		"						"	"
09	09.1.2010		"						"	"
10	10.1.2010		"						"	"
11	11.1.2010		"						"	"
12	12.1.2010		"						"	"
13	13.1.2010		"						"	"
14	14.1.2010		"						"	"
15	15.1.2010		"						"	"
16	16.1.2010		"						"	"
17	17.1.2010		"						"	"
18	18.1.2010		"						"	"
19	19.1.2010		"						"	"
20	20.1.2010		"						"	"
21	21.1.2010		"						"	"
22	22.1.2010		"						"	"
23	23.1.2010		"						"	"
24	24.1.2010		"						"	"
25	25.1.2010		"						"	"
26	26.1.2010		"						"	"
27	27.1.2010		"						"	"
28	28.1.2010		"						"	"
29	29.1.2010		"						"	"
30	30.1.2010		"						"	"
31	31.1.2010		"						"	"

0.5



SOME WESTERN CANAL  
NUMBERS OF UNITS FOUR

HYDROELECTRIC PROJECT (DHR)

TOTAL CAPACITY

UNIT NO. II

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Burked down Machine	Trash rack clean	Total Outage Hrs. / days	Head	Daily Generation	As per design Generation
01	01.1.2010		NIL						NIL	39600 kWh
02	02.1.2010		"						"	"
03	03.1.2010		"						"	"
04	04.1.2010		"						"	"
05	05.1.2010		"						"	"
06	06.1.2010		"						"	"
07	07.1.2010		"						"	"
08	08.1.2010		"						"	"
09	09.1.2010		"						"	"
10	10.1.2010		"						"	"
11	11.1.2010		"						"	"
12	12.1.2010		"						"	"
13	13.1.2010		"						"	"
14	14.1.2010		"						"	"
15	15.1.2010		"						"	"
16	16.1.2010		"						"	"
17	17.1.2010		"						"	"
18	18.1.2010		"						"	"
19	19.1.2010		"						"	"
20	20.1.2010		"						"	"
21	21.1.2010		"						"	"
22	22.1.2010		"						"	"
23	23.1.2010		"	NIL	NIL	NIL	NIL		13300	"
24	24.1.2010		07.40	0.10	"	16.10	16.10		40400	"
25	25.1.2010		24.00	NIL	"	NIL	NIL		39800	"
26	26.1.2010		23.45	0.15	"	"	0.15		37800	"
27	27.1.2010		23.55	0.05	"	"	0.05		38500	"
28	28.1.2010		23.46	0.14	"	"	0.14		40400	"
29	29.1.2010		23.15	0.45	"	"	0.45		37400	"
30	30.1.2010		21.18	0.22	2.20	"	02.42		NIL	"
31	31.1.2010		NIL	NIL	NIL	"	NIL		NIL	"



SOME WESTERN CANAL  
 NUMBERS OF UNITS FOUR  
 HYDROELECTRIC PROJECT, DENR  
 TOTAL CAPACITY 4X1.65 MW  
 UNIT NO. III

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clean/low discy	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.1.2010	1537	NIL					4.4	NIL	39600 kWh
02	02.1.2010	1711	3.50	NIL	NIL	20.10	20.10	4.1	4700	"
03	03.1.2010	1537	NIL					3.5	NIL	"
04	04.1.2010	1395	5.40	NIL	NIL	18.20	18.20	4.1	7600	"
05	05.1.2010	1796	NIL					4.0	NIL	"
06	06.1.2010	1009	"					3.9	"	"
07	07.1.2010	920	"					4.0	"	"
08	08.1.2010	1427	4.55	NIL	NIL	19.05	19.05	3.5	4400	"
09	09.1.2010	1859	13.35	NIL	NIL	10.25	10.25	3.4	19300	"
10	10.1.2010	3432	19.25	0.10	"	4.25	4.35	3.4	8800	"
11	11.1.2010	2666	8.25	NIL	"	15.35	15.35	3.7	10500	"
12	12.1.2010	1852	9.35	"	"	14.25	14.25	4.1	10200	"
13	13.1.2010	2606	13.42	0.10	"	10.08	10.18	4.1	16700	"
14	14.1.2010	1772	14.06	NIL	"	9.54	9.54	4.3	15900	"
15	15.1.2010		2.01	"	"	21.59	21.59	3.3	1900	"
16	16.1.2010		NIL	"	"	NIL	NIL	4.6	NIL	"
17	17.1.2010		2.03	"	"	21.57	21.57	4.2	1700	"
18	18.1.2010	3251	9.47	"	"	14.13	14.13	3.9	13700	"
19	19.1.2010		22.41	1.19	"	NIL	0.19	3.1	30100	"
20	20.1.2010		23.32	0.88	"	"	0.28	3.3	33300	"
21	21.1.2010		23.52	0.08	"	"	0.08	3.4	34000	"
22	22.1.2010		24.00	NIL	"	"	NIL	3.1	34500	"
23	23.1.2010	3884	23.45	0.15	"	"	0.15	3.2	35600	"
24	24.1.2010	3618	10.40	NIL	13.20	NIL	13.20	3.4	13500	"
25	25.1.2010	3801	NIL					4.0	NIL	"
26	26.1.2010	2986	"					4.0	"	"
27	27.1.2010	2844	"					4.0	"	"
28	28.1.2010	3172	"					3.5	"	"
29	29.1.2010	3766	"					3.5	"	"
30	30.1.2010	3950	"					3.4	"	"
31	31.1.2010	1993	"					3.7	"	"



SONE WESTERN CANAL  
 NUMBERS OF UNITS FOUR  
 HYDROELECTRIC PROJECT DENAL  
 UNIT NO IV

TOTAL CAPACITY 4X1.65 MW

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clean / Day	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.1.2010		81.00	0.20	NIL	2.40	03.00		30100	39600 kWh
02	02.1.2010		80.00	4.00	"	NIL	04.00		31200	"
03	03.1.2010		81.40	NIL	"	03.20	03.20		25800	"
04	04.1.2010		18.58	"	"	5.02	05.02		30000	"
05	05.1.2010		81.11	2.49	"	NIL	2.49		28400	"
06	06.1.2010		81.34	01.01	"	01.25	2.26		19100	"
07	07.1.2010		12.14	0.05	"	06.41	6.46		16800	"
08	08.1.2010		19.08	0.10	"	4.42	4.52		26200	"
09	09.1.2010		24.00	NIL	"	NIL	NIL		34000	"
10	10.1.2010		24.00	"	"	"	"		31200	"
11	11.1.2010		23.39	0.21	"	"	0.21		33400	"
12	12.1.2010		24.00	NIL	"	"	NIL		39000	"
13	13.1.2010		22.30	"	"	01.30	01.30		33500	"
14	14.1.2010		24.00	"	"	NIL	NIL		34200	"
15	15.1.2010		24.00	"	"	"	"		40200	"
16	16.1.2010		23.40	0.20	"	"	0.20		33400	"
17	17.1.2010		23.22	0.38	"	"	0.38		28800	"
18	18.1.2010		23.35	0.25	"	"	0.25		21400	"
19	19.1.2010		22.52	1.08	"	"	1.08		32500	"
20	20.1.2010		23.36	0.24	"	"	0.24		31500	"
21	21.1.2010		24.00	NIL	"	"	NIL		32200	"
22	22.1.2010		24.00	"	"	"	"		35000	"
23	23.1.2010		23.40	0.20	"	"	0.20		35000	"
24	24.1.2010		23.55	0.05	"	"	0.05		34900	"
25	25.1.2010		24.00	NIL	"	"	NIL		39000	"
26	26.1.2010		23.37	0.23	"	"	0.23		25000	"
27	27.1.2010		24.00	NIL	"	"	NIL		32500	"
28	28.1.2010		23.47	0.13	"	"	0.13		34200	"
29	29.1.2010		23.11	0.49	"	"	0.49		30800	"
30	30.1.2010		23.41	0.19	"	"	0.19		36400	"
31	31.1.2010		24.00	NIL	"	"	NIL		40300	"



SONE WESTERN CANAL  
 NUMBERS OF UNITS FOUR  
 HYDROELECTRIC PROJECT D.E.H.R.  
 UNIT NO. I, II and III

TOTAL CAPACITY 4 X 1.65 MW

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clear	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.2.2010		NIL						NIL	39600000
02	02.2.2010		"						"	"
03	03.2.2010		"						"	"
04	04.2.2010		"						"	"
05	05.2.2010		"						"	"
06	06.2.2010		"						"	"
07	07.2.2010		"						"	"
08	08.2.2010		"						"	"
09	09.2.2010		"						"	"
10	10.2.2010		"						"	"
11	11.2.2010		"						"	"
12	12.2.2010		"						"	"
13	13.2.2010		"						"	"
14	14.2.2010		"						"	"
15	15.2.2010		"						"	"
16	16.2.2010		"						"	"
17	17.2.2010		"						"	"
18	18.2.2010		"						"	"
19	19.2.2010		"						"	"
20	20.2.2010		"						"	"
21	21.2.2010		"						"	"
22	22.2.2010		"						"	"
23	23.2.2010		"						"	"
24	24.2.2010		"						"	"
25	25.2.2010		"						"	"
26	26.2.2010		"						"	"
27	27.2.2010		"						"	"
28	28.2.2010		"						"	"
29									"	"
30									"	"
31									"	"

*Sh*



SONE WESTERN CANAL  
NUMBERS OF UNITS

FOUR

HYDROELECTRIC PROJECT (DEMR)

TOTAL CAPACITY 4.21.65 MW

UNIT NO. IV

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Backed down Machine	Trash rack clean/Block	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.2.2010	2117	23.43	0.17	NIL	NIL	0.17	3.6	39400	39600 kw
02	02.2.2010	1939	22.57	0.40	NIL	NIL	0.40	3.7	39000	"
03	03.2.2010	2260	24.00	NIL	NIL	"	NIL	3.7	42700	"
04	04.2.2010	2181	23.50	0.10	"	"	0.10	4.3	43900	"
05	05.2.2010	1859	23.40	0.20	"	"	0.20	4.3	41400	"
06	06.2.2010	1571	23.42	0.18	"	"	0.18	4.6	42700	"
07	07.2.2010	1717	23.50	NIL	"	"	0.10	4.3	41500	"
08	08.2.2010	1921	23.20	"	"	"	0.40	4.3	42300	"
09	09.2.2010	1755	24.00	"	"	"	NIL	4.3	43100	"
10	10.2.2010	2018	24.00	"	"	"	NIL	4.2	42200	"
11	11.2.2010	1859	24.00	"	"	"	NIL	4.3	42200	"
12	12.2.2010	1732	24.00	"	"	"	NIL	4.3	42200	"
13	13.2.2010	1753	24.00	"	"	"	NIL	4.3	42200	"
14	14.2.2010	1909	24.00	"	"	"	NIL	4.3	42200	"
15	15.2.2010	1043	24.00	"	"	"	NIL	4.3	42200	"
16	16.2.2010	1356	24.00	"	"	"	NIL	4.3	42200	"
17	17.2.2010	1130	24.00	"	"	"	NIL	4.3	42200	"
18	18.2.2010	1063	23.55	0.05	"	"	0.05	4.2	43800	"
19	19.2.2010	1068	23.39	0.15	"	"	0.15	4.3	43800	"
20	20.2.2010	854	18.08	0.04	"	"	0.04	4.2	12600	"
21	21.2.2010	826	19.02	"	"	"	4.58	3.9	13400	"
22	22.2.2010	785	17.50	"	"	"	6.10	4.2	14400	"
23	23.2.2010	848	20.10	"	"	"	3.85	4.1	19600	"
24	24.2.2010	1264	23.01	"	"	"	0.154	4.1	21000	"
25	25.2.2010	1261	23.59	"	"	"	8.01	4.0	39500	"
26	26.2.2010	984	24.00	"	"	"	NIL	"	"	"
27	27.2.2010	1395	"	"	"	"	"	"	"	"
28	28.2.2010	1395	"	"	"	"	"	"	"	"
29	29.2.2010	1395	"	"	"	"	"	"	"	"
30										
31										



.....SOME WESTERN CANAL.....HYDROELECTRIC PROJECT.....DEHRA.....UNIT NO.....I and II.....  
 NUMBERS OF UNITS.....E.O.Y.R.....

TOTAL CAPACITY.....43.1.65 MW

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clean	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.3.2010		NIL						NIL	39600 kWh
02	03.3.2010		"						"	"
03	03.3.2010		"						"	"
04	04.3.2010		"						"	"
05	05.3.2010		"						"	"
06	06.3.2010		"						"	"
07	07.3.2010		"						"	"
08	08.3.2010		"						"	"
09	09.3.2010		"						"	"
10	10.3.2010		"						"	"
11	11.3.2010		"						"	"
12	12.3.2010		"						"	"
13	13.3.2010		"						"	"
14	14.3.2010		"						"	"
15	15.3.2010		"						"	"
16	16.3.2010		"						"	"
17	17.3.2010		"						"	"
18	18.3.2010		"						"	"
19	19.3.2010		"						"	"
20	20.3.2010		"						"	"
21	21.3.2010		"						"	"
22	22.3.2010		"						"	"
23	23.3.2010		"						"	"
24	24.3.2010		"						"	"
25	25.3.2010		"						"	"
26	26.3.2010		"						"	"
27	27.3.2010		"						"	"
28	28.3.2010		"						"	"
29	29.3.2010		"						"	"
30	30.3.2010		"						"	"
31	31.3.2010		"						"	"



SONE WESTERN CANAL  
 NUMBERS OF UNITS FOUR  
 HYDROELECTRIC PROJECT  
 DENR  
 UNIT NO. III

TOTAL CAPACITY 4 x 1.65 MW

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barbed down Machine	Trash rack clean / hrs	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.3.2010	1641	NIL					4.0	NIL	39600 kWh
02	02.3.2010	1750	NIL					4.5	"	"
03	03.3.2010	1657	6.55	NIL	NIL	17.05	17.05	4.0	6300	"
04	04.3.2010	1682	9.20			4445	14.40	4.3	11500	"
05	05.3.2010		NIL						NIL	"
06	06.3.2010		"						"	"
07	07.3.2010		"						"	"
08	08.3.2010		"						"	"
09	09.3.2010		"						"	"
10	10.3.2010		"						"	"
11	11.3.2010		"						"	"
12	12.3.2010		"						"	"
13	13.3.2010		"						"	"
14	14.3.2010		"						"	"
15	15.3.2010		"						"	"
16	16.3.2010		"						"	"
17	17.3.2010		"						"	"
18	18.3.2010		"						"	"
19	19.3.2010		"						"	"
20	20.3.2010		"						"	"
21	21.3.2010		"						"	"
22	22.3.2010		"						"	"
23	23.3.2010		"						"	"
24	24.3.2010		"						"	"
25	25.3.2010		"						"	"
26	26.3.2010		"						"	"
27	27.3.2010		"						"	"
28	28.3.2010		"						"	"
29	29.3.2010		"						"	"
30	30.3.2010		"						"	"
31	31.3.2010		"						"	"



SONE WESTERN CANAL  
 NUMBERS OF UNITS  
 FOU R  
 HYDROELECTRIC PROJECT  
 DERRA  
 TOTAL CAPACITY  
 4x1.65 MW  
 UNIT NO  
 TV

Sl. No.	Date	Discharge from Power House	Running Hrs.	Grid Fail	Barked down Machine	Trash rack clean/Leaky	Total Outage Hrs.	Head	Daily Generation	As per design Generation
01	01.3.2010	1641	23.38	0.22	NIL	NIL	0.22	4.0	37300	39600 kWh
02	02.3.2010	1750	24.00	NIL	"	"	NIL	4.5	35300	"
03	03.3.2010	1652	23.20	"	"	0.40	0.40	4.0	33700	"
04	04.3.2010	1682	10.12	0.20	"	13.28	13.48	4.3	14400	"
05	05.3.2010	1622	18.55	0.05	"	05.00	05.05	4.5	24600	"
06	06.3.2010		NIL			NIL	NIL		NIL	"
07	07.3.2010	1835	15.34	0.06	NIL	2.20	2.26	4.9	11500	"
08	08.3.2010	1022	23.53	0.07	"	NIL	0.07	4.5	28800	"
09	09.3.2010	1494	23.20	0.05	0.35	"	0.40	4.4	33000	"
10	10.3.2010	1494	24.00	NIL	NIL	"	NIL	4.4	33700	"
11	11.3.2010	1451	24.00	"	"	"	"	4.8	35200	"
12	12.3.2010	1450	24.00	"	"	"	"	4.8	32500	"
13	13.3.2010	1373	24.00	"	"	"	"	4.7	36700	"
14	14.3.2010	1431	23.50	0.10	"	"	0.10	4.7	33500	"
15	15.3.2010	1203	23.54	0.06	"	"	0.06	4.8	31700	"
16	16.3.2010	1364	24.00	NIL	"	"	NIL	4.8	36500	"
17	17.3.2010	1588	24.00	"	"	"	"	4.3	34500	"
18	18.3.2010	1531	23.54	0.06	"	"	0.06	4.2	32600	"
19	19.3.2010	1460	24.00	NIL	"	"	NIL	4.3	31300	"
20	20.3.2010	1457	24.00	"	"	"	"	4.0	29600	"
21	21.3.2010	1380	24.00	"	"	"	"	4.2	32900	"
22	22.3.2010	1395	24.00	"	"	"	"	4.3	32100	"
23	23.3.2010	1422	23.15	0.45	"	"	0.45	4.1	30200	"
24	24.3.2010	1416	24.00	NIL	"	"	NIL	3.9	29100	"
25	25.3.2010	1422	23.30	0.30	"	"	0.30	4.1	28000	"
26	26.3.2010	1359	13.26	NIL	"	10.34	10.34	3.7	2000	"
27	27.3.2010	208	12.40	0.35	"	10.45	11.20	4.0	6800	"
28	28.3.2010	269	18.55	NIL	"	05.05	5.05	4.2	13700	"
29	29.3.2010	1495	24.00	"	"	NIL	NIL	4.6	30500	"
30	30.3.2010	1462	23.50	0.10	"	"	0.10	4.4	32200	"
31	31.3.2010		20.42	0.06	"	3.12	3.18	4.3	20500	"

1.0m





Secretary

Memo No - 691

21-12-3-2001

To:-

The Secretary,  
Institutional Finance & Programme Implementation Deptt.,  
Lalit Bhawan Patna.

Sub: Posing of Hydro Electric Power Scheme for obtaining loan under RIDF  
Programme of NABARD

Sir,

At the empowered committee meeting held on 23.2.2000 it was decided that there will be no allocation for BHPC for the year 2000-2001 due to paucity of fund. It was decided that small hydro electric schemes of BHPC may be posed to NABARD for obtaining loan under its RIDF VI Programme.

Bihar State Hydro Electric Power Corporation is an undertaking of Bihar Govt. which was established in 1982 as a Company Act, 1965, for the development of hydro electric potential in combined Bihar. Since then BHPC is engaged in identification of potential for hydro electric schemes in this State and preparing detailed project reports for such schemes. BHPC has successfully commissioned the following hydro electric projects in this State.

Sl.	Name of Scheme	District	Installed Capacity (MW)	Estimated Cost (Rs. in lakh)	Year of Commissioning
1	Sone Western Dehri-on-Sone	Rohtas	4x1.65	3420.0	1993
2	Eastern Gandak, Valmikinagar	W. Champaran	3x5	6600.0	1995
3	Sone Eastern, Barun	Aurangabad	2x1.65	1589.0	1996
4	Nindighagh Demo-Project	Gumla	2x0.01	40.0	1997
5	Jalimghagh Demo-Project	Gumla	2x0.01	40.0	1997
6	Gautam ghagh Demo-Project	Palamu	1x0.01	20.0	1999



(2)

Power is being supplied to the Grid of Bihar State Electricity Board from the schemes listed at sl. no. 1 to sl. No. 3, above. Power generated at sl. no. 4 to sl. No. 6 above is being sold to the villagers directly by the BHPC for which Govt. of Bihar has given them license also.

At present BHPC is executing nine hydro electric schemes in Bihar and Jharkhand. important among them being Chandil Dam Project (8MW). Tenu Bokaro Canal H.E. Project (11MW) and North Koel H.E. Project (24MW).

BHPC is capable of preparation and execution of hydro electric schemes for which it has a sound infrastructure both at its headquarters and at its field levels. BHPC is supplying hydel power from its three power stations and earning revenue from sale of power since 1993.

The Government of Bihar now proposes to pose the following Hydro Electric Schemes of BHPC amounting Rs. 131.37 crores for sanction under RIDF. - VI.

Sl. No.	Name of Scheme	District	Installed Capacity (KW)	Estimated Cost (Rs. in lakh)
1	Agnoor	Jehanabad	2x500	797.0
2	Triveni	W. Champaran	2x1500	1785.0
3	Dehra	Aurangabad	2x500	584
4	Tejpur	-do-	2x750	675
5	Rampur	Rohtas	1x250	222
6	Amethi	-do-	1x500	324
7	Sipaha	Aurangabad	2x500	543
8	Belsar	Jehanabad	2x500	570
9	Walidat	-do-	1x700	372
10	Arwal	-do-	1x500	318
11	Dhelabagh	Rohtas	2x750	688
12	Nasriganj	-do-	2x500	544
13	Paharna	-do-	2x500	555
14	Sebari	-do-	2x500	568
15	Jainagara	-do-	2x500	531
16	Shirakhinda	-do-	2x350	487
17	Natwar	-do-	400	214
18	Rajapur	Supaul	1x700	347
19	Gandak Canal at RD-33	W. Champaran	2x1000	830
20	Gandak Canal at RD-79	-do-	2x1000	977
21	Gandak Canal at RD-124	-do-	2x1000	826
22	Gandak Canal at RD-311.5	-do-	2x1000	987
				664
				800
				546
			Total	131.37 crores

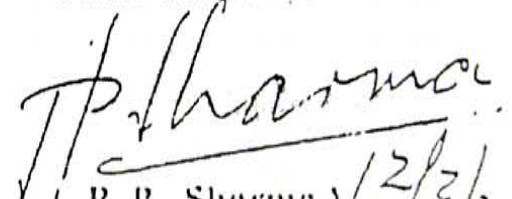
Synopsis of these scheme containing the following details are enclosed for your reference. Further details of these schemes can be furnished during discussion and scrutiny of these schemes at the level of NABARD.

- A. Salient feature
- B. Hydrology
- C. Power House
- D. Tail Race
- E. Power Generation
- F. Switchyard
- G. Cost Estimate of the scheme
- H. Estimated cost of Generation
- I. Rate of return & benefit cost of ratio.

It is, therefore, requested that these scheme may be posed to NABARD for inclusion under its RIDF VI Programme so that the execution of these schemes may not defer as it would be detrimental in the light of Bihar Reorganisation Bill 2000 owing to which all the major generating power plants have now gone to Jharkhand.

Encl. i) Synopsis of 22 SHP Projects in two copies.

Yours faithfully,

  
( P. P. Sharma )  
Secretary. 12/3/20





**BIHAR STATE HYDROELECTRIC POWER CORPORATION LTD.**  
(A GOVERNMENT OF BIHAR ENTERPRISE)

CIN: U40100BR1982SG001627

Registered Office: "Sone Bhawan", (2<sup>nd</sup> Floor), Birchand Patel Marg, Patna – 800 001

Tel: +91-612-2227692 E-mail: [bshpcltd@gmail.com](mailto:bshpcltd@gmail.com),

Website: [www.bshpcltd.com](http://www.bshpcltd.com)

No. 654 / Patna

Dated, the 06 / 10 / 2020

To,

**The Secretary,**  
Bihar Electricity Regulatory Commission,  
Vidyut Bhawan II,  
Bailey Road, Patna – 800014.

**Sub: Response to the deficiencies/clarifications found during Technical Validation held on 29.06.2020 and 30.06.2020 on the tariff petition filed by BHPCL for true up of FY 2009-10.**

**Ref: Your letter no. BERC-Case No.-27/2019/620 dated 07.08.2020**

Sir,

With the aforementioned reference, we are hereby submitting the reply of deficiencies/clarifications found during technical validation, which are attached herewith for your kind consideration.

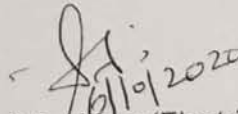
BHPC has tried its best to gather the information asked by Hon'ble Commission as per the available records in the office. It is therefore requested to Hon'ble Commission that based upon initial petition filed and other additional information thereto including this submission, commission may kindly consider it to finalize the tariff.

We are also submitting the revised true-up petition and formats (Appendix-B as per BERC Tariff Regulations, 2007) with it.

Encl:

1. Reply of deficiencies/clarifications found during technical validation (6 copies)
2. Revised True-up petition for FY 2009-10 (6 copies)
3. Formats as Appendix-B as per BERC Tariff Regulations, 2007 (6 copies)
4. All annexure (I to X) as mentioned in the reply (6 copies)

Yours faithfully,

  
Chief Engineer (Electrical)

Reply of deficiencies/clarifications found during technical validation

1. Additional information submitted with respect to COD of plant is not substantive; representatives of the company agree to validate the bills against plant CoD, stating the fact that arranging of bill will take some further time. Also, documentary evidence for CoD validation is to be furnished.

Response:

We would like to submit to Hon'ble Commission that we have validated the bills and shown the revised CoD as arrived in the 'E' column whereas 'D' column highlights the previously submitted CoD. The documentary evidence to validate the revised CoD (Column E) is attached as Annexure-I.

CoD verification from first bill available with BHPC					
S. No. (A)	Plant name (B)	Installed Cap (MW) (C)	CoD (D)	CoD as per bills (E)	Remark (F)
1	Agnoor	1	Unit 1-June-2006 Unit 2-June-2006	Jan-2006	Based on Logbook
2	Barun	3.3	Unit 1-June-96 Unit 2-Mar-96	Unit 1-July-96 Unit 2-Mar-96	Based on Logbook
3	Dehri-on-sone	6.6	Unit 1-Jan-93 Unit 2-Mar-93 Unit 3-Aug-93 Unit 4-Apr-93	Unit 1-Jan-93 Unit 2-Mar-93 Unit 3-Aug-93 Unit 4-Apr-93	
4	Dhelabagh	1	Unit 1-Aug-2006 Unit 2-Aug-2006	Unit 1-Aug-2006 Unit 2-Aug-2006	
5	Jainagara	1	Unit 1-Dec-2008 Unit 2-Dec-2008	Mar-09	Based on Logbook
6	Koshi-Kataiya	19.2	1970-75	Unit 1 - Nov 70 Unit 2 - Mar 71 Unit 3 - Oct 73 Unit 4 - Oct 78	
7	Nasriganj	1	Unit 1-July-2007 Unit 2-July-2007	Unit 1-July-2007 Unit 2-July-2007	
8	Triveni	3	Feb-09		



CoD verification from first bill available with BHPC					
S. No. (A)	Plant name (B)	Installed Cap (MW) (C)	CoD (D)	CoD as per bills (E)	Remark (F)
9	Valmikinagar	15	Unit 1- Sep-95 Unit 2- Jun-96 Unit 3- Nov-97	Unit 1- Aug - 95 Unit 2- July - 96 Unit 3- Nov-97	Based on Logbook
	Total	51.1			

**2. Regarding unjustifiable higher project cost of the plant, representative of the company stated that it would take some further time**

- i. To arrange project closure report that needs to be submitted (revised estimate cost was taken from Bihar govt. letter as submitted in Annexure – XV)

**Response:**

We would like to submit to the Hon'ble Commission that all the available documents with respect to projects has been submitted. Hon'ble Commission may consider figures available in annual reports and CoD from the date of invoicing raised to erstwhile BSEB.

- ii. To furnish detail cost break up and the workwise/element-wise cost comparison as approved and finally incurred for each project citing the reason of incremental cost of each project/element of each project correlating with the audited accounts.

**Response:**

The element-wise cost break-up of plant is tabulated below. It contains the following values in it –

S. No.	Column no. in Table-1	Value denoted
1.	D, E, F & G	Initial value as approved in Detailed Project Report (DPR) and the copy of cost related pages of DPR is attached as Annexure – II.
2.	H	Value as given in the Bihar government loan vide Memo No. 691 dated 12.03.2001 which doesn't have element-wise break up available and only net project cost is given. The letter is attached as Annexure-III.
3.	I, J, K & L	Final value is the audited figure as per the audited annual accounts of BHPC for FY 2009-10 which is already submitted.

The cost is further segregated into electrical and civil cost elements.

- Table 1 is the summary sheéthhighlighting the plant-wise cost breakup along with the increment in cost and the reason behind it.
- Table 2 contains the detailed break-up of cost elements as per DPR
- Table 3 contains detailed break-up of cost elements as per Audited account for FY 2009-10
- Table 4 contains the agreement cost at which work was awarded and its documentary evidence is attached as Annexure – IV.

### Table 1 - Summary table of cost break-up

5



S. No.	Plant name	Capacity	Initial DPR cost (INR Lakhs)				Cost as per Bihar loan letter (INR Lakhs)	Audited accounts (INR Lakhs)				Reason of incremental cost
			Electrical component	Civil components	Other	Total		Electrical component	Civil components	Other	Total	
												finalisation of the design and drawing quantities have got increased substantially. c) Heavy dewatering during construction also affected the cost and time.
2	Barun		277.11	389		666.11	1589	1288.05	165.04	49.01	1502.11	d) The project was to be funded by Govt. of Bihar, however during execution of project the flow of fund stopped. BHPC took loan from PFC to complete the project.
3	Dehri-on-Sone (Sone Western Link)		608.43	644.03		1252.46	3420	3120.64	183.62	24.92	3329.17	a) The requirement of land was met through two sources. Small portion of the land was provided by the Irrigation department while major portion of the land was acquired through government department from land owners which resulted in ordinate delay. b) Central Water Commission was consultant for designing and preparation of drawing which took considerable time for furnishing the same. c) Heavy Dewatering during construction also affected the cost and time.
4	Dhelabagh		263.49	424		687.49	688	1118.85	0.00	0.00	1118.85	a) The final design and drawing for construction of the project were prepared by AHEC Roorkee which took considerable time. After finalisation of the design and drawing quantities have been increased substantially which resulted in cost overrun. b) Heavy dewatering during

S. No.	Plant name	Capacity	Initial DPR cost (INR Lakhs)			Cost as per Bihar loan letter (INR Lakhs)	Audited accounts (INR Lakhs)			Reason of incremental cost
			Electrical component	Civil components	Other		Electrical component	Civil components	Other	
										construction also affected the cost and c) The plant lies in the Naxal belt. Very frequently there have been disturbances in construction and theft of materials which resulted in delayed completion of the project.
5	Jainagara		202.49	328.24		531	1056.24	7.16	0.00	a) The final design and drawing for construction of the project were prepared by AHEC Roorkee which took considerable time. After finalisation of the design and drawing quantities have been increased substantially which resulted in cost overrun. b) Heavy dewatering during construction also affected the cost and c) The plant lies in the Naxal belt which resulted in delayed completion of the project. Due to time overrun, cost overrun accrued. d) There was substantial delay in release of loan from NABARD.
6	Nasriganj		237.93	306		544	986.43	0.00	0.07	a) The said plant falls under Naxal belt. Due to continuous interruptions from the Naxals, the project was stalled various times, which resulted in time and cost overrun. b) The final design and drawing for construction of the project were prepared by AHEC Roorkee which took considerable time. After



S. No.	Plant name	Capacity	Initial DPR cost (INR Lakhs)			Cost as per Bihar loan letter (INR Lakhs)	Audited accounts (INR Lakhs)			Reason of incremental cost
			Electrical component	Civil components	Other		Electrical component	Civil components	Other	
										finalisation of the design and drawing quantities have been increased substantially which resulted in cost overrun. c) Dewatering during construction also affected the cost and time. d) There was substantial delay in release of loan from NABARD.
7	Triveni		360	555	915	1785	2344.06	61.06	0.00	2405.12 a) The site lies very close to the river due to which heavy dewatering cost were incurred. b) The final design and drawing for construction of the project were prepared by AHEC Roorkee which took considerable time. c) After finalisation of the design and drawing quantities have been increased manifolds which resulted in cost overrun. d) Acquisition of land done by the BHPC for construction of project which also took considerable time and affected the cost. e) The turn key contractor M/s Parikh Power Private Limited went into severe financial crunch which resulted in delay of supply of equipment. The BHPC took steps to settle the issue with Equipment manufacturer.

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S. No.	Plant name	Capacity	Initial DPR cost (INR Lakhs)				Cost as per Bihar loan letter (INR Lakhs)	Audited accounts (INR Lakhs)			Reason of incremental cost
			Electrical component	Civil components	Other	Total		Electrical component	Civil components	Other	
											finalisation of the design and drawing quantities have been increased substantially which resulted in cost overrun. c) Dewatering during construction also affected the cost and time. d) There was substantial delay in release of loan from NABARD.
7	Triveni		360	555		915	1785	2344.06	61.06	0.00	2405.12 a) The site lies very close to the river due to which heavy dewatering cost were incurred. b) The final design and drawing for construction of the project were prepared by AHEC Roorkee which took considerable time. c) After finalisation of the design and drawing quantities have been increased manifolds which resulted in cost overrun. d) Acquisition of land done by the BHPC for construction of project which also took considerable time and affected the cost. e) The turn key contractor M/s Parikh Power Private Limited went into severe financial crunch which resulted in delay of supply of equipment. The BHPC took steps to settle the issue with Equipment manufacturer.



S. No.	Plant name	Capacity	Initial DPR cost (INR Lakhs)			Cost as per Bihar loan letter (INR Lakhs)	Audited accounts (INR Lakhs)			Reason of incremental cost
			Electrical component	Civil components	Other		Electrical component	Civil components	Other	
8	Valmikinagar (Eastern Gandak)		759.33	979.73	1739.06	6600	5128.44	537.45	62.44	<p>a) Land acquisition was a big issue. Money was deposited to the Land Acquisition department. The BSHPCL waited for more than two years, but only some portions of the land were handed over. BSHPCL had to acquire the land directly which resulted in the delay of two more years. Certain cases are still pending in the court of Law.</p> <p>b) Central Water Commission was consultant for designing and preparation of drawing which took considerable time for furnishing the same.</p> <p>c) The contractor for the Installation and Commissioning of the project was Sumitomo Corporation, Japan. All the major equipment was imported from Japan. Transportation of heavy equipment to the site was a big issue. There were virtually no roads for bringing this equipment to site. There were no suitable culverts/bridges in between Bettiah to work site as such separate path ways were constructed for transportation of heavy equipment which resulted in considerable time over run.</p> <p>d) The project was to be funded by Govt. of Bihar, however during execution of project the flow of fund stopped. BHPC took loan</p>





S. No.	Plant	Grand	Items	Cost (INR Lakh)	Component type (E for Electrical or C for Civil)	Civil (INR Lakh)	Electrical (INR Lakh)
			Overhead construction	34.66	C		
			Physical contingency	14.83	C		
2	Jainagara	530.73	Preliminary	5.11	C	202.49	328.24
			Temporary construction & building	20.6	C		
			Land	7.73	C		
			All other Civil works	120.65	C		
			Electrical/mechanical work	297.24	E		
			Associated Transmission system	30	E		
			Trial & commissioning	1	E		
			Overhead construction	33.93	C		
			Physical contingency	14.47	C		
3	Valmikinagar (Eastern Gandak)	1739.06	Civil work	759.33	C	759.33	979.73
			Electrical & mechanical work	974.73	E		
			Transmission line	5	E		
4	Dehri-on-sone (Sone Western Link)	1252.46	Civil work	608.43	C	608.43	644.03
			Electrical & mechanical work	644.03	E		
5	Barun	666.11	Civil work	277.11	C	277.11	389
			Electrical & mechanical work	389	E		
6	Agnoor	244.99	Civil work	89.33	C	89.33	155.66
			Electrical work	155.66	E		
7	Dhelabagh	687.49	Preliminary	5.11	C	263.49	424
			Temporary construction & building	20.6	C		
			Land	7.73	C		
			All other Civil works	168.71	C		

S. No.	Plant	Grand	Items	Cost (INR Lakh)	Component type (E for Electrical or C for Civil)	Civil (INR Lakh)	Electrical (INR Lakh)
			Electrical/mechanical work	392.5	E		
			Associated Transmission system	30	E		
			Trial & commissioning	1.5	E		
			Overhead construction	42.56	C		
			Physical contingency	18.78	C		
8	Triveni	915	Civil work	360	C	360	555
			Electrical work	555	E		

Table 3 - Detailed break-up of cost elements as per Audited account for FY 2009-10

S. No.	Plant	Grand (INR Lakhs)	Items	GFA as on 31.03.10 (INR)	GFA as on 31.03.10 (INR Lakhs)	Component type (E/C/O)	Civil (C)	Electrical (E)	Other (O)
1	Nasriganj	986.50	Plant & machinery	5,93,04,691.71	593.05	E	-	986.43	0.07
			Powerhouse	3,93,38,639.00	393.39	E			
			Office equipments	6,995.00	0.07	O			
2	Jainagara	1063.40	Road & Bridges	7,15,835.00	7.16	C	7.16	1,056.24	-
			Plant & machinery	6,13,04,576.00	613.05	E			
			Powerhouse	4,43,19,102.93	443.19	E			
3	Valmikinagar (Eastern Gandak)	5728.34	Land	76,46,020.54	76.46	C	537.45	5,128.44	62.44
			Lease Hold Land	1,85,800.00	1.86	C			
			Building - Residential	57,98,867.22	57.99	C			
			Building - Non- residential	38,51,150.73	38.51	C			
			Road & Bridges	3,58,12,372.65	358.12	C			
			Water supply installation	1,879.07	0.02	C			



S. No.	Plant	Grand (INR Lakhs)	Items	GFA as on 31.03.10 (INR)	GFA as on 31.03.10 (INR Lakhs)	Component type (E/C/O)	Civil (C)	Electrical (E)	Other (O)
4	Dehri-on-sone (Sone Western Link)	3329.17	Electric installation	11,78,43,827.63	1,178.44	E			
			Plant & machinery	23,70,13,163.94	2,370.13	E			
			Powerhouse	15,79,87,470.26	1,579.87	E			
			Furniture & Fixture	4,48,978.55	4.49	C			
			Office equipments	1,89,145.41	1.89	O			
			Other equipments	60,15,943.93	60.16	O			
			Books	2,892.40	0.03	O			
			Vehicles	35,500.00	0.36	O			
			Bicycles	623.00	0.01	O			
			Land	53,50,756.57	53.51	C	183.62	3,120.64	24.92
5	Barun	1502.11	Building - Residential	49,30,434.64	49.30	C			
			Building - Non- residential	57,25,327.60	57.25	C			
			Road & Bridges	17,90,528.07	17.91	C			
			Water supply installation	1,07,895.96	1.08	C			
			Electric installation	1,80,15,250.00	180.15	E			
			Plant & machinery	16,14,80,691.60	1,614.81	E			
			Powerhouse	13,25,67,762.66	1,325.68	E			
			Furniture & Fixture	4,56,801.74	4.57	C			
			Office equipments	3,86,554.97	3.87	O			
			Other equipments	20,67,060.50	20.67	O			
			Books	477.50	0.00	O			
			Vehicles	37,430.00	0.37	O			
			Bicycles	487.13	0.00	O			
			Land	13,86,996.02	13.87	C	165.04	1,288.05	49.01

S. No.	Plant	Grand (INR Lakhs)	Items	GFA as on 31.03.10 (INR)	GFA as on 31.03.10 (INR Lakhs)	Component type (E/C/O)	Civil (C)	Electrical (E)	Other (O)
			Building - Residential	75,74,155.81	75.74	C			
			Building - Non- residential	29,70,821.76	29.71	C			
			Road & Bridges	44,91,815.35	44.92	C			
			Water supply installation	80,505.33	0.81	C			
			Electric installation	1,21,30,471.93	121.30	E			
			Plant & machinery	3,40,36,250.67	340.36	E			
			Powerhouse	8,26,38,735.56	826.39	E			
			Furniture & Fixture	71,690.00	0.72	O			
			Office equipments	18,117.00	0.18	O			
			Other equipments	48,11,029.00	48.11	O			
6	Agnoor	1961.10	Land	2,81,926.00	2.82	C	2.82	1,958.28	-
			Plant & machinery	8,22,63,117.49	822.63	E			
			Powerhouse	11,35,65,326.00	1,135.65	E			
7	Dhelabagh	1118.85	Plant & machinery	6,63,38,830.71	663.39	E	-	1,118.85	-
			Powerhouse	4,55,45,733.00	455.46	E			
8	Triveni	2405.12	Land	52,45,290.00	52.45	C	61.06	2,344.06	-
			Road & Bridges	8,60,466.00	8.60	C			
			Plant & machinery	3,12,27,931.00	312.28	E			
			Powerhouse	20,31,77,903.74	2,031.78	E			



**Table 4 – Agreement cost (Electrical & Civil works)**

S. No.	Plant name	Civil (INR Cr)	Electrical (INR Cr)
1	Agnoor	7.97 (on Turnkey basis)	
2	Barun	Not traceable	323.8
3	Dehri-on-sona (Sone Western Link)	Not traceable	647.61
4	Dhelabagh	6.7 (on Turnkey basis)	
5	Jainagara	5.31 (on Turnkey basis)	
6	Koshi-Kataiya	Plant handed over to BHPC in 2003	
7	Nasriganj	5.68 (on Turnkey basis)	
8	Triveni	13.47 (on Turnkey basis)	
9	Valmikinagar (Eastern Gandak)**	Not traceable	2,45,36,59,200.00 (In Japanese Yen)

\* All costs are excluding taxes & duties

iii. To furnish detailed justification with break-up details of abnormal Cost escalation of plants like Agnoor plant whose cost gets revised to triple (INR 19.61 crores) from estimated (INR 7.91 crores)

**Response:**

The initial DPR cost of INR 2.45 cr and final cost of INR 19.61 cr is tabulated above against the answer of 2 (ii). It contains the detailed escalation and the reason for it. The estimated cost of INR 2.45 cr was further increased to INR 7.91 cr and was approved by Govt. of Bihar vide memo no. 691 dated 12.03.2001. The breakup of INR 7.91 cr is not available.

iv. To submit document along with loss in terms of monetary value occurred due to Naxalite effect on Agnoor.

**Response:**

We would like to inform Hon'ble Commission that documentary evidence is not available for furnishing.

v. To submit DPR showing component-wise cost.

**Response:**

We are submitting the cost related pages of the DPR of projects as Annexure-II.

vi. To submit the segregation of the Electrical & Civil works components (detailed break-up as much as possible).

Response:

It is already submitted and tabulated above against the answer of 2 (ii).

vii.

Justification required on the below mentioned observation as this related Auditors' involvement:

- The auditor has commented that asset addition at Dehri comprises cost of pump of INR 0.28 crore and payment to consult (BHEL) as INR 1.03 crore for supervision of repair work which shall be considered as revenue expenses. It may be clarified as to why these charges shall not be reduced from the capital cost of the assets of Dehri project.

Response:

We would like to submit to the Hon'ble Commission that BHPC has capitalised the abovementioned cost. Hence, we have considered it as capital expenditure though the view of Statutory auditor was to consider it as revenue expense.

- The auditor has also commented that due to capitalization of INR 2.99 crore of EM Jainagara against available INR 1.95 crore resulting in excess capitalization shall also be explained and why such cost shall not be reduced from the capital cost of Jainagara project.

Response:

We would like to submit to the Hon'ble Commission that BHPC has capitalised the abovementioned cost. Hence, we have considered it as capital expenditure though the view of Statutory auditor was to consider it as revenue expense.

- It has been stated that due to mistake the non-tariff income has been omitted to be incorporated in the petition.

Response:

The details of plant-wise non-tariff income is tabulated below as taken from the audited accounts of FY 2009-10.

S. No.	Particulars for		Agnoo r	Barun	Dehri-on- sone	Dhelabag h	Jainagar a	Nasrigan j	Triveni	Valmikimaga r	Total
	FY 10	OTHER INCOME (In INR)									
1	Sale of Tender Paper/BOQ		0.00	5,750.00						19,150.00	24,900.00
2	Interest on short term			0.00							0.00



S. No.	Particulars for FY 10	Aghoo r	Barun	Dehri-on-sone	Dhelabag h	Jainagar a	Nasrigan j	Triveni	Valmikimaga r	Total
	OTHER INCOME (In INR)									
	deposit/FD									
3	Recovery of Electricity							9,600.00	31,579.00	41,179.00
4	Recovery of House Rent		88,200.00	10,520.00				24,000.00	2,300.00	1,25,020.00
5	Insurance Claim									0.00
6	Interest on House Building		52,000.00						86,702.00	1,38,702.00
7	Interest on marriage advance									0.00
8	Interest on Motorcycle Advance		185.00	4,000.00					4,978.00	9,163.00
9	Interest - Contractor/SD								11,600.00	11,600.00
10	Recovery for Materials									0.00
11	Miscellaneous Income		0.00	880.00				0.00	10,090.00	10,970.00
			1,40,385.00	21,150.00				33,600.00	1,56,399.00	3,61,534.00
	<b>Total</b>	0.00	0	0	0.00	0.00	0.00	0		0

S. No.	Particulars for FY 10	Agnoo r	Barun	Dehri-on- sone	Dhelabag h	Jainagar a	Nasrigan j	Triveni	Valmikimaga r	Total
	OTHER INCOME (In INR)									
	deposit/FD									
3	Recovery of Electricity							9,600.00	31,579.00	41,179.00
4	Recovery of House Rent		88,200.00	10,520.00				24,000.00	2,300.00	1,25,020.00
5	Insurance Claim									0.00
6	Interest on House Building		52,000.00						86,702.00	1,38,702.00
7	Interest on marriage advance									0.00
8	Interest on Motorcycle Advance		185.00	4,000.00					4,978.00	9,163.00
9	Interest - Contractor/SD								11,600.00	11,600.00
10	Recovery for Materials									0.00
11	Miscellaneous Income		0.00	880.00				0.00	10,090.00	10,970.00
			1,40,385.00	21,150.00				33,600.00	1,66,399.00	3,61,534.00
	<b>Total</b>	0.00	0	0	0.00	0.00	0.00	0		0



4. With reference to truing of actual O&M expenses for FY 09-10: It has been stated that O&M expenses shown in petition are not actual ones and audited for FY 09-10, but they are estimation based on the past year expenses. It has been stated that O&M expenses would be revised and claimed as actual O&M expenses incurred and audited for FY 09-10.

**Response:**

We are submitting the revised value of O&M expenses as given in the audited accounts of FY 2009-10. It is tabulated below.

S. No.	Particulars (INR)	Agnoor	Barun	Dehri-on-sone	Dhelabagh	Jainagara	Nasriganj	Koshi-Kataliya	Triveni	Valmikinagar	Total
	<b>EXPENDITURE</b>										
1	Operation & Maintenance of P.H.	12,57,865.00	28,64,662.00	40,17,129.00	19,88,352.00	0.00	5,58,306.00	30,74,333.00	27,00,000.00	51,60,000.00	2,16,20,647.00
2	Repair & Maintenance of Powerhouse	3,84,982.00	4,91,159.00	11,95,204.00	1,33,987.00		1,05,370.00	6,96,017.00		42,70,160.00	72,76,879.00
3	<b>Administrative &amp; Management</b>										
	Salary & Allowance - Managing Director/Chairman										
	Salary & Allowance	18,59,078.00	37,22,708.00	68,30,373.00	1,07,289.00	66,248.00	5,86,633.00	47,02,540.00	2,34,290.00	46,47,178.00	2,27,56,337.00
	Gratuity Premium under L.I.C. Scheme										0.00
	Provident Fund administrative Charges										0.00
	Uniform & Liveries		4,728.00	-1,906.00						0.00	2,822.00
	Reimbursement of Medical & Edu. Exps.	9,825.00	11,662.00	1,33,296.00				2,400.00		0.00	1,57,183.00
	Account Computerisation										0.00
	Rent			25,000.00			39,000.00	39,000.00		30,000.00	1,33,000.00
	Electricity	0.00	24,024.00	2,89,350.00				1,492.00		4,76,278.00	7,91,144.00
	Travelling & Conveyance	39,808.00	39,759.00	1,17,382.00				1,28,476.00	0.00	94,718.00	4,20,143.00
	Petrol, Oil & Lubricants	2,37,636.00	3,32,160.60	6,00,984.88	1,03,950.00	1,50,000.00	1,127.00	1,92,512.00		3,93,903.00	20,12,273.48
	Insurance										0.00

S. No.	Particulars (INR)	Agnoor	Barun	Dehri-on-sone	Dhelabagh	Jainagara	Nasriganj	Koshi-Kataiya	Triveni	Valmikinagar	Total
	Advertisement for Tender/other		0.00	1,05,200.00	2,75,000.00			0.00		14,480.00	3,94,680.00
	Telephone & Telex Charges	4,971.00	6,638.00	58,172.00	0.00		0.00	23,823.00		33,677.00	1,27,281.00
	Internet Expenses										0.00
	Printing & Stationary	1,805.00	5,219.00	50,052.00			105.00	7,397.00		13,158.00	77,736.00
	Postage		0.00	258.00			30.00	564.00		2,612.00	3,464.00
	Conference and Seminar										0.00
	Bank Charge		8,796.00	28,467.00	0.00		0.00	4,061.00	2,783.00	20,350.00	64,457.00
	Repairs - Vehicle	0.00	0.00	6,298.00	0.00		0.00	0.00	0.00	11,729.00	18,027.00
	Repairs - Building	13,045.00	1,63,900.00	1,85,447.75	0.00		0.00	9,33,354.00	0.00	13,86,431.00	26,82,177.75
	Repairs - Plant	0.00	53,112.00	1,02,377.00	0.00		1,03,950.00	2,43,744.00	0.00	0.00	5,03,183.00
	Repairs - Other	0.00	31,449.00	37,631.00	0.00		1,027.00	13,292.00	0.00	10,247.00	93,646.00
	Road Tax										0.00
	Hire & Rental Charges	1,26,050.00	1,44,212.00	5,67,852.00				1,51,220.00	2,55,500.00	17,460.00	12,62,294.00
	Licence & Registration Fee	0.00	4500.00	5,500.00	0.00		0.00	7,500.00	0.00		17,500.00
	Consultancy Charges/ Legal Expenses	2,60,512.00	0.00	18,000.00	26,250.00	1,03,460.00	48,310.00	5,36,698.00	6,96,662.00	4,79,806.00	21,69,698.00
	D.P.R Expenses							0.00			0.00
	Statutory Auditors Fee										0.00
	Internal Auditors Fee										0.00
	Tax Audit Fees										0.00
	Entertainment	1,140.00	41,754.00	1,08,519.00	900.00		3,640.00	9,065.00		1,15,707.00	2,80,725.00
	Survey & Investigation										0.00
	News Paper	3,253.00	2,842.00	826.00			228.00	1,752.00		1,710.00	10,611.00
	Transportation Charges		1,920.00	6,802.00		4,812.00	16,406.00	16,830.00			46,770.00
	Grant for Purchase of Computer										0.00



S. No.	Particulars (INR)	Agnoor	Barun	Dehri-on-sona	Dhelabagh	Jainagara	Nasriganj	Koshi-Kataiya	Triveni	Valmikinagar	Total
	Donation & Contribution							81,909.00		10,000.00	91,909.00
	Capital Maintenance of Powerhouse w/o										0.00
	Plantation			13,750.00				0.00		7,000.00	20,750.00
	Testing & Commissioning					2,87,178.00			6,61,800.00		9,48,978.00
	Miscellaneous Expenses	39,488.00	35,065.00	1,31,801.00		1,610.00	34,431.00	49,029.00		32,567.00	3,23,991.00
	FBT										0.00
	Total A&M cost	25,96,611.00	46,34,448.60	94,21,432.63	5,13,389.00	6,13,308.00	8,34,887.00	71,46,658.00	18,51,035.00	77,99,011.00	3,54,10,780.23
	Grand total (1+2+3)	42,39,458.00	79,90,269.60	1,46,33,765.63	26,35,728.00	6,13,308.00	14,98,563.00	1,09,17,008.00	45,51,035.00	1,72,29,171.00	6,43,08,306.23

5. With reference to Interest on Loan, Grant & Equity:

- i. It has been stated that Interest on Loan will be revised, keeping concern of opening loan + addition of loan – depreciation (Read with clause 55 (2) (a) (iv) of BERC (Terms & condition for determination of Tariff, 2007).

Response:

As suggested, we have done the calculation of Interest on Loan as attached.

Interest calculation includes the following components –

- 'Opening loan' which is taken from the column of 'Loan fund & interest' in the Table submitted against query 5 (ii).
- Loans during year is kept as null as no addition was there
- Repayment is considered to be equal to depreciation on normative basis whereas 'depreciation' is considered on actual basis as arrived in Audited accounts of FY 2009-10.
- Interest rate is calculated on average basis of all the loans

The calculation of interest on loan considering above mentioned parameters is tabulated below.

S. No.	Plant name	Opening loan	(+) Loans during year	(-) Repayment	Net closing balance (F) = (C) + (D) - (E)	Average (G) = (C + F)/2	Interest rate (H)	Interest expense (I) = (G) X (H)
(A)	(B)	(C)	(D)	(E)				
1	Agnoor	996.98	0	70.15	926.82	961.90	12%	115.43
2	Barun	261.27	0	53.71	207.56	234.41	12%	28.13
3	Dehri-on-Sone	2,310.40	0	120.58	2,189.82	2,250.11	12%	270.01
4	Dhelabagh	996.98	0	38.04	958.93	977.96	12%	117.35
5	Jainagara	940.90	0	36.13	904.77	922.83	12%	110.74
6	Koshi-Kataiya	0.00	0	0.00	0.00	0.00	12%	0.00
7	Nasriganj	874.00	0	33.54	840.46	857.23	12%	102.87
8	Triveni	2,255.12	0	79.96	2,175.16	2,215.14	12%	265.82
9	Valmikinagar	415.78	0	234.04	181.73	298.75	12%	35.85
	<b>Total</b>	<b>9,051.41</b>	<b>0</b>	<b>666.16</b>	<b>8,385.25</b>	<b>8,718.33</b>		<b>1,046.20</b>

\*All values are in INR Lakhs

We request the Hon'ble Commission to approve Interest on loan of INR 1,046.20 Lakhs.

- ii. Project-wise loan details and its allocation to different project will be furnished ensuring its reconciliation with audited accounts and project cost (i.e. Gross Loan + Gross Grant + Equity = GFA).  
Response:

Sl. No.	Name of projects	Equity fund (INR)	Grant fund (INR)	Loan fund and Interest (INR)	Total (INR)	GFA (In Lakhs)
1	Dhelabagh		1,21,87,000.00	9,96,97,563.71	11,18,84,563.7	1,118.84
2	Nasriganj		1,12,50,000.00	8,74,00,325.71	9,86,50,325.71	986.5
3	Triveni		1,50,00,000.00	22,55,11,590.7	24,05,11,590.7	2,405.12
4	Jainagara		1,22,50,000.00	9,40,89,513.93	10,63,39,513.9	1,063.40
5	Barun	12,40,84,000.00		2,61,26,588.43	15,02,10,588.4	1,502.10
6	KosiKataiya				0	



7	Valmikinagar	53,12,56,000.00		41577635.33	57,28,33,635.3	5,728.33
8	Dehri-on-sone	10,18,77,231.00		23,10,40,227.00	33,29,17,458	3,329.17
9	Agnoor			19,61,10,369.50	19,61,10,369.50	1,961.10

The loan was received by BHPC on consolidated basis and hence no project-wise detail is available. But it is available year-wise and the details of which is being submitted. It is attached as Annexure-V.

- iii. **Document with respect to terms & conditions of loan will be submitted i.e. Loan sheet break-up with loan agreements and its detailed working in excel (loan amount, reference letter details)**

Response:

The loan was received by BHPC on consolidated basis and hence no project-wise detail is available. But it is available year-wise and the details of which is being submitted. It is attached as Annexure-V.

- iv. **Confirm the value of Government Grant project-wise (need to be in line with Schedule-2 from Audited Account). Grant supporting letter to be provided. BHPC must have demand for Grant letter which can be submitted.**

Response:

The grant was received by BHPC on consolidated basis and hence no project-wise detail is available. But it is available year-wise and the details of which is being submitted. It is being furnished as Annexure - VI.

- v. **Letters of year-wise equity to be submitted. Even for consolidated letter for INR 99 cr equity, it is observed that amount of equity is being allocated to plants even after their CoD (example – plant Dehri-on-Sone) still needs to be clarified.**

Response:

Corrected.

Year-wise equity details and its allocation is being furnished as Annexure - VII.

## 6. Depreciation

Depreciation has not been considered from audited accounts. It has been stated that Depreciation will be revised showing separately as per Audited Accounts the depreciation charged on GFA and proportionate depreciation on assets created out of grant.

Response:

The depreciation charged on GFA is given in the table below.

S. No.	Plant name	Depreciation (INR) for FY 10
1	Agnoor	70,15,276.00
2	Barun	53,71,028.76
3	Dehri	1,20,57,792.72
4	Dhelbag	38,04,075.00
5	Jainagra	36,12,823.00
6	Nasriganj	33,54,422.00
7	Koshi	0
8	Triveni	79,95,784.00
9	Valmiki	2,34,04,450.47
	Total	6,66,15,651.95

**7. Infirm power**

It has been discussed that sale of Infirm power needs to be subtracted from revenue from sale of power. That sale needs to be deducted from the Capital cost as per Clause 36 of BERC (Terms & conditions for determination of tariff, 2007).

Sale generated from it needs to be considered. We need to look at billed unit & revenue generate from it. Applicable tariff required will be as per prevailing tariff.

**Response:**

We would like to submit that no any records indicating infirm power is available. As per provision, Hon'ble Commission may subtract the sale of infirm power from revenue from sale of power.

**8. Generation**

Since the documentary evidence given for Plant-wise generation (MU) is not matched with the submitted revised petition. Hence, Joint Meter reading document and detailed summation sheet for plant-wise generation needs to be resubmitted.

**Response:**

As asked by the Hon'ble Commission, we have validated the bills. The summary sheet is tabulated below. Joint meter reading document is attached at Annexure-VIII.



Monthly generation data for FY 2009-10 (all values in kWh)										
S. No.	Month/Plant name	Valmiki Nagar	Triveni	Jainagara	Kosi-Kataiya	Dehri On-Sone	Barun	Nasariganj	Agnoor	Dhelabagh
1	Apr-09	81,868	1,66,600			1,74,770	6,550	35,338	-287	38,924
2	May-09									
3	Jun-09	18,11,572	2,62,500			8,11,790	60,880		686	
4	Jul-09	22,65,600				18,07,800	12,75,840	1,50,644	63,633	1,75,339
5	Aug-09	20,47,800		28,883		16,92,950	9,81,180	76,922	73,764	17,904
6	Sep-09	19,97,600	4,82,495				12,71,710	1,56,634	82,558	2,03,916
7	Oct-09	20,51,700	3,42,406			20,20,710	12,86,480	1,33,893	91,577	2,07,291
8	Nov-09					11,39,800	2,34,450	19,444	29,761	32,390
9	Dec-09					2,22,060	90,900	283	7,124	17,913
10	Jan-10			6,147		15,32,600	6,64,680	65,215	45,900	3,41,533
11	Feb-10			21,254		8,29,860	2,82,700	42,812	31,535	2,17,626
12	Mar-10					8,36,910	2,91,760	25,583	10,437	41,204
Total		1,03,62,640	12,54,001	56,284	-	1,10,69,250	64,47,130	7,06,768	4,36,688	12,94,040
Grand total (kWh)		3,16,26,801								
Grand total (MU)		31.63								

#### 9. Head & generation data

Calculation of plant-wise generation with help of canal water discharge data and Head data submitted are not matched with the revised petition. Hence, kindly furnish the calculation of plant-wise generation with help of canal water discharge data and Head data and their comparison with actual daily generation. Also Log sheet to be submitted showing per day generation data.

#### Response:

It is being submitted as Annexure – IX.

#### 10. PPA: It is yet to be clarified that Power Purchase Agreement (PPA) doesn't have plant names in it.

**Response:**

As per the PPA clause –

*"Whereas BSHPC is a power generating company of Government of Bihar and whereas BSPHCL has agreed to purchase all the power generated by BSHPC at its generating stations in the State of Bihar."*

It is mentioned that the whole power generated by BSHPC will be purchased by BSPCL and hence no plant name is given in PPA.

- 11. Since Koshi-Kataiya plant has completed its 35 years of operation, a justification is required on why this project should be considered in the revised petition.**

**Response:**

Koshi-Kataiya plant was commissioned on 1970-75. The plant was handed over to BHPC in the year 2003 which also marked the ending of useful life of plant (i.e. 35 years of operation). Hence, the work of residual life assessment was assigned to AHEC, Roorkee of Koshi-Kataiya plant on July 2005 by BHPC. AHEC, Roorkee submitted the report on Dec 2006 with the recommendation for major R&M works of units to increase the useful life of plant. On the basis of the recommendation of AHEC, Roorkee, the matter was placed before the Govt. of Bihar and government sanctioned INR 35 crores and released INR 32.84 crores for R&M work in the year 2007 (letter is attached as Annexure – X). Based on the recommendation, BHPC invited the tender for R&M work which was awarded in the year November 2010.

Considering increased useful life of plant due to R&M work, this project should be considered in the revised petition.