

HS 000 1201493-10



1283 Date 03/10/2020

AFFIDAVIT

I, Sarweshwar Katiyar, aged about 47 years, son of Late Ved Prakash Arya, resident of Flat no. 202, Sheela Dev Enclave, Road No. 2, East Patel Nagar, Patna, do hereby solemnly affirm and state as follows:-

1. That I am presently posted as Chief Engineer (Electrical) in the Bihar State Hydroelectric Power Corporation Limited.
2. That I have been duly authorized to swear this affidavit by the Bihar State Hydroelectric Power Corporation Limited, Patna.
3. That I have read the contents of submission in the context of revised True Up petition of the Bihar State Hydroelectric Power Corporation Limited for the year 2009-10 which is true and correct to the best of my knowledge.
4. That content of this affidavit are true and correct to the best of my knowledge.

Sri/Smt. *Sarweshwar Katiyar*
who is identified by Sri.....
Advocate solemnly affirmed and
declared before me.

Dharmendra Kumar
Notary Public (Patna)



Sarweshwar Katiyar
03-10-20
Signature of Applicant

Identify the Deponent signature/L.T.I.
who has signed in my presence
03-10-2020
Advocate

0001201493



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SARVESHWAR KATIYAR

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REVISED TRUE-UP PETITION FOR THE YEAR 2009-10

Hon'ble

BIHAR ELECTRICITY REGULATORY COMMISSION

6th October 2020

BIHAR STATE HYDROELECTRIC POWER CORPORATION LTD.

Sone Bhawan, Patna

Chief Engineer (Elect.)
Bihar State Hydroelectric
Power Corporation Ltd.
Sone Bhawan, Patna

BEFORE THE BIHAR ELECTRICITY REGULATORY COMMISSION

VIDYUT BHAWAN- II, BAILEY ROAD PATNA- 800001

In the matter of

Application for approval of truing-up of Annual Revenue Requirement (ARR) and determination of tariff for sale of energy generated by various small hydro-electric power stations of Bihar State Hydroelectric Power Corporation Ltd. for the financial year 2009-10 in terms of section 62 read along with section 86 (e) of the electricity act 2003.

AND

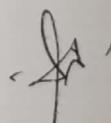
in the matter of

Bihar State Hydroelectric Power Corporation Ltd.

Regd office: 2nd floor, Sone Bhawan, Birchand Patel Marg,
Patna 800001.

THE HUMBLE APPLICANT ABOVE NAMED

Most respectfully sheweth the petition as follows:-



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A. Introduction

1. Brief

1.1. Bihar State Hydroelectric Power Corporation Limited (BHPC) is a company of Government of Bihar registered under Companies Act 1956. It is responsible for exploring all possibilities of hydroelectric potential and its development in the Bihar state.

2. BHPC responsibilities

2.1. It is engaged in following activities to explore hydro potential.

- ➤ To plan, promote, organize, co-ordinate, finance, establish, develop and engage in the business of setting up electrical power projects particularly hydroelectric power in all its aspect including planning, investigation, research, design and preparation of preliminary feasibility and detailed project report, construction, generation, operation and maintenance of Hydroelectric Power stations and other projects, transmission, distribution and sale of power and to carry on all activities connected with power projects such as manufacture, inspection, supply, erection commissioning, running and maintaining the hydro power projects.
- To carry out the business of purchasing, selling, importing, producing, Trading, manufacturing and otherwise dealing in all aspects of planning, investigation, research, design and preparation of preliminary feasibility and detailed project report, construction, generation, operation and maintenance of Hydroelectric Power stations and other projects, transmission, distribution and sale of power, hydroelectric power development, ancillary and other allied industries and for that purpose to install, operate and manage all necessary plants establishments and works.
- To undertake and render services of all and every kind of buying, selling, exchanging, alternating, importing, exporting, producing and trading any equipment for establishing Hydroelectric Power and other projects required for civil, commercial and military purposes.
- To operate and maintain economically and efficiently the generating stations, tie lines, sub stations and main transmission lines, assigned to it by the State Government in accordance with the provision of section 39 of the Electricity (Supply) Act, 1948 and Electricity Act 2003.
- To take-up connection with power projects multipurpose programme like construction of embankments, dams, canals, sub canals, distributaries, reservoirs, facilities, drinking water and take all necessary steps for soil conservation, afforestation and rehabilitation of displaced persons.

3. BERC roles as per the Electricity Act, 2003

3.1. Bihar Electricity Regulatory Commission (BERC) has been established by the Government of Bihar under Section 17 of the Electricity Regulatory Commissions Act, 1998 vide Government of Bihar Notification no. 1284 dated 15th April 2002. And the first proviso of Section 82 (1) which ensured the continuity of the Commission along with that of State Electricity Regulatory Commissions under Section 17 of Electricity Regulatory Commissions Act, 1998, and functioning as such immediately before the appointed date

shall be the State Commission for the purpose of the Electricity Act, 2003.

3.2. Functions of the State Commission

The State Commission, having the powers under Section 61 and 62 of the Electricity Act 2003 and the powers entitled under Bihar State Electricity Commission (Determination of Tariff) Regulation 2007 and amendments issued from time to time shall discharge the following functions, namely:

- a. Determine the tariff for generation, supply, transmission and wheeling of electricity, wholesale, bulk or retail, as the case may be, within that State: Provided that where open access has been permitted to a category of consumers under section 42, the State Commission shall determine only the wheeling charges and surcharge thereon, if any, for the said category of consumers;
- b. Regulate electricity purchase and procurement process of distribution licensees including the price at which electricity shall be procured from the generating companies or licensees or from other sources through agreements for purchase of power for distribution and supply within the State;
- c. Facilitate intra-state transmission and wheeling of electricity;
- d. Issue licences to persons seeking to act as transmission licensees, distribution licensees and electricity traders with respect to their operations within the State;
- e. Promote co-generation and generation of electricity from renewable sources of energy by providing suitable measures for connectivity with the grid and sale of electricity to any person, and also specify, for purchase of electricity from such sources, a percentage of the total consumption of electricity in the area of a distribution licence;
- f. Adjudicate upon the disputes between the licensees, and generating companies and to refer any dispute for arbitration;
- g. Levy fee for the purposes of this Act;
- h. Specify State Grid Code consistent with the Indian Electricity Grid Code specified with regard to grid standards;
- i. Specify or enforce standards with respect to quality, continuity and reliability of service by licensees;
- j. Fix the trading margin in the intra-State trading of electricity, if considered, necessary; and
- k. discharge such other functions as may be assigned to it under this Act.
- l. The State Commission shall advise the State Government on all or any of the following matters, namely:
 - (1) Promotion of competition, efficiency and economy in activities of the electricity industry;
 - (2) Promotion of investment in electricity industry;
 - (3) Reorganization and restructuring of electricity industry in the State;
 - (4) Matters concerning generation, transmission, distribution and trading of electricity or any other matter referred to the State Commission by State Government.

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 - (3) Reorganization and restructuring of electricity industry in the State;
 - (4) Matters concerning generation, transmission, distribution and trading of electricity or any other matter referred to the State Commission by State Government.

4. Regulatory provision for filing of True-up petition
 - 4.1. Clause 22 Para (4) of BERC (Terms and conditions for determination of Tariff) Regulations, 2007 deals with the true-up and review mechanism and in this regard provides as follows-

"The Commission shall undertake a review along with next Tariff Order, of the expenses and revenues approved by the Commission in the current year Tariff Order. While doing so, the Commission shall consider variations between approvals and revised estimates / pre-actuals of the sale of electricity, income and expenditure for the relevant year and permit necessary adjustments / changes in case such variations are for adequate and justifiable reasons. Such an exercise shall be called 'Review'.

After audited accounts of the year are made available, the Commission shall undertake a similar exercise as in sub-clause (1) above based on the final actual figures as per the audited accounts. This exercise based on the audited accounts shall be called 'Truing up'. The truing up exercise for any year shall not ordinarily be considered after more than one-year gap after 'Review'."
 - 4.2. It is evident from the above that maximum time period allowed for truing up exercise is one year from the review exercise. Herein the petitioner would like to request the Hon'ble Commission to take note of the following in admitting this true up petition.
 - 4.3. While the regulations as mentioned above allow for a maximum time period, they also mention that 'The truing up exercise for any year shall not ordinarily be considered after more than one-year gap after 'Review''. It is an agreed position that BHPC was not able to file any review or tariff petition for want of Audited Accounts which could not be completed for a long period of time i.e. more than 10 years. The petitioner would hence like to submit that it was not in an ordinary situation and the same could only be rectified very recently with the initiation of audit process of the Company's Accounts. As soon as audited accounts were available for FY 2009-10, the petitioner has filed up this true-up petition for FY 2009-10.
 - 4.4. In light of the above, petitioner requests the Hon'ble Commission to kindly consider and admit the current true-up petition.

5. Prayers to the Hon'ble Commission (BERC)

- 5.1. In the light of submission here by made, BHPC pleads before the Hon'ble Commission to:
 - a. Approve the True-up of Annual Revenue Requirement for the financial year 2009-10 for the Bihar State Hydro Electric Power Corporation
 - b. Approve the proposed tariff for sale of power by Bihar Hydro Electric Power Corporation based on revised ARR for FY 2009-10 considering this True-up Petition
 - c. Approve the revenue gap as estimated in the petition and pass suitable order for recovery of the same

B. History of Tariff methodology

6. Before FY 2010

For the determination of tariff before FY 2009-10, Energy Department, Government of

Bihar (GoB) used to organize a committee which was entrusted with the task of tariff fixation. There was a provision of regular review of such fixed tariff as well.

7. For FY 2010

7.1. Before separation of Jharkhand & Bihar, tariff setting of plants were done on cumulative basis. No order was received by BSHPCL from Govt. of Bihar / Govt. of Jharkhand regarding transfer of assets as on 31.03.2010. In due course of time, Hon'ble High Court of Jharkhand vide case no. WP(PIL-3118/2014) dated 28.08.2017 ordered for transfer of assets. In receipt of the order, Energy Department, Govt. Of Bihar, accorded approval of transfer of 8 projects on as is where is basis vide letter No. 456 dated 13.02.2018. Subsequently, the assets were handed over in FY 2019-20 due to which it continued to be a part of BSHPCL balance sheet till then. In this true-up petition, plants with Jharkhand are excluded and are not considered in it.

C. BHPC plants

8. Overview

8.1. The petitioner had considered 9 plants in its tariff petition filed on 31st March 2009 for FY 2009-10. The details of all the 9 plants are as follows:

Table 1: Plant overview

S. No.	Plant name	Installed Cap (MW)	Date of Commissioning (CoD)	CoD as per bills
1	Agnoor	1	Unit 1- June-2006 Unit 2- June-2006	Jan-2006
2	Barun	3.3	Unit 1- June-96 Unit 2- Mar-96	Unit 1- July-96 Unit 2- Mar-96
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
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	

S. No.	Plant name	Installed Cap (MW)	Date of Commissioning (CoD)	CoD as per bills
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
	Total	51.1		

8.2. We would like to submit to Hon'ble Commission that the actual expenditure as on CoD along with cost overrun and time overrun is as furnished below for the reference.

8.3. The requisite details are presented in the table below for the kind consideration of the Hon'ble Commission. In the above regard; we would like to further submit the following –

Note:

In the table below-

- Date of Commissioning- This is as per the actuals.
- Scheduled Date of Commissioning - This is arrived on the basis of project agreements (Civil & Electrical) which are available at the moment. Date of signing of the agreement has been taken as a reference date and a time period of 1 year have been taken on estimated basis for the work to actually commence in the Project. The tenor of the Agreement is then added to this one-year period to arrive at SCOD.

Table 2: Cost & time overrun details of plants

S. No.	Plant	Agreement on (Tenure)	Estimated Cost (in Cr)	Actual Expenditure (in Cr) as per audited accounts	SCOD	Contract Period (months)	Date of Commissioning	Time overrun (in Years)	Reason of Cost over-run time over-run
1	Agnoor	May 1999 (18)	7.97	19.48	18-11-2001	18	June 2006	4.5	a) The plant construction was in full swing. Almost all the equipment had arrived at the site. However, the Naxalites attacked the project site in 2001-02 and burnt and ransacked certain equipment and site. The construction work remains suspended for about 2 years. After normalisation of situation, the re-erection started after refurbishing / repairing/ procuring new equipment. Virtually, the installation work had to be reinitiated which resulted in cost and time over-run. b) The final design and drawing for construction of the project were prepared by AHEC Roorkee which also took considerable

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2	Dhelabagh	April 2002 (24)	6.88	11.19	08-04-2005	24	August 2006	1.3	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 time. 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

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3	Jainagara	April 2002 (24)	5.31	10.63	02-04- 2005	24	December 2008	4.4	<p>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.</p> <p>b) Heavy dewatering during construction also affected the cost and time.</p> <p>c) The plant lies in the Naxal belt which resulted in delayed completion of the project. Due to time overrun cost overrun accrued.</p> <p>d) There was substantial delay in release of loan from NABARD.</p>

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4	Nasriganj	April 2002 (24)	5.44	9.87	08-04-2005	24	July 2007	2.2	<p>a) The said plant falls under Naxal belt. Due to continuous interruptions from the Naxals, the project was stalled on various occasion, which resulted in time and cost overrun.</p> <p>b) 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.</p> <p>c) Dewatering during construction also affected the cost and time.</p> <p>d) There was substantial delay in release of loan from NABARD.</p>

S. No.	Plant	Agreement on (Tenure)	Estimated Cost (in Cr)	Actual Expenditure (in Cr) as per audited accounts	SCOD	Contract Period (months)	Date of Commissioning	Time overrun (in Years)	Reason of Cost over-run time over-run
5	Triveni	June 2001 (48)	17.85	23.94	48	06-06-2006	February 2009	2.7	<p>a) The site lies very close to the river due to which heavy dewatering cost was incurred.</p> <p>b) The final design and drawing for construction of the project were prepared by AHEC Roorkee which took considerable time.</p> <p>c) After finalisation of the design and drawing, quantities have been increased manifolds which resulted in cost overrun.</p> <p>d) Acquisition of land done by the BHPC for construction of project took considerable time and affected the cost.</p> <p>e) The turnkey contractor M/s Parikh Power Private Limited went into severe financial crunch which resulted in delay of supply of equipment. BHPC took steps to settle the issue with Equipment manufacturer.</p>

S. No.	Plant	Agreement on (Tenure)	Estimated Cost (in Cr)	Actual Expenditure (in Cr) as per audited accounts	SCOD	Contract Period (months)	Date of Commissioning	Time overrun (in Years)	Reason of Cost over-run time over-run
6	Dehri	April 1986 (36)	34.20	33.39	20-10-1988	36	28-08-1993	4.9	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 landowners which resulted in 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.
7	Barun	April 1986 (36)	15.80	15.26	20-10-1988	36	June 1996	7.6	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

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8	Valmiki Nagar	May 1985	66.00	57.28		Sep 1995 – Nov 1997			a) Land acquisition was a big issue. Money was deposited to the Land Acquisition department. 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. b) Central Water Commission was consultant for designing and preparation of drawing which took considerable time for furnishing the same. c) The contractor for the Installation and Commissioning of the project was Sumitomo

S. No.	Plant	Agreement on (Tenure)	Estimated Cost (in Cr)	Actual Expenditure (in Cr) as per audited accounts	SCOD	Contract Period (months)	Date of Commissioning	Time overrun (in Years)	Reason of Cost over-run time over-run
									<p>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 these equipments to site. There were no suitable culverts/bridges in between Bettiah to work site as such separate pathways 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. BHPCL took loan from PFC to complete the project.</p>

- 8.4. The cost per MW of 5 plants (Agnoor, Dhelabagh, Jainagara, Nasriganj & Triveni) is comparatively high owing to cost overrun, low capacity (in the range of 1-3 MW) whereas for the 3 plants (Valmikinagar, Dehri On Sone & Barun) have a comparatively high capacity range (range of 3 to 15 MW) and hence have a comparatively lower cost per MW.
- 8.5. The average cost of the first five plants is also higher because these plants faced cost overrun.
- 8.6. The detailed cost break-up is given in Annexure.

9. Case of KosiKataiya plant

- 9.1. 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. 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, we have included this project in our revised petition.
- 9.2. The claim for Interest on loan and O&M expense is made because operation & maintenance was done. O&M is required even if the plant is in shutdown mode for safety reasons along with regular maintenance which is critical for its future performance.

10. Cost breakup

- 10.1. The cost breakup of each project is tabulated below. It defines the sources of fund in the construction of plants.
- 10.2. This table also justify the equation of –

$$\text{Gross Fixed Assets (GFA)} = \text{Equity} + \text{Grant} + \text{Loan \& Interest}$$

Table 3: Cost break-up of BHPC plants

Sl. No.	Name of projects	Equity	Grant	Loan and Interest	GFA
1	Dhelabagh	0	121.87	996.98	1,118.84
2	Nasriganj	0	112.50	874.00	986.5
3	Triveni	0	150.00	2,255.12	2,405.12
4	Jainagara	0	122.50	940.90	1,063.40
5	Barun	1,240.84	0	261.27	1,502.10
6	KosiKataiya	0	0	0	0
7	Valmikinagar	5,312.56	0	415.78	5,728.33
8	Dehri-On-sone	1,018.77	0	2,310.40	3,329.17
9	Agnoor	0	0	1,961.10	1,961.10
	Total	7,572.17	506.87	10,015.54	18,094.56

*All values are in INR Lakhs

- 10.3. As mentioned in the table above, funds sources are NABARD loan, PFC loan and MNRE Grant and GoB loan. GoB loan was received on consolidated basis (not plant-wise) and hence plant-wise segregation is not given in above table.

D. Scope of the present petition

11. Scope

- 11.1. This petition is for truing-up of ARR and finalization of provisional tariff as approved by the Hon'ble Commission vide its order dated 22nd Dec 2009 for the year 2009-10.

- 11.2. This petition has been filed considering: -

- a. BERC (Terms and conditions for determination of Tariff) Regulations, 2007
- b. Provisional Tariff order for FY 2009-10 issued by Hon'ble Commission passed on 22nd Dec 2009 in reference to case no. TP-01 of 2009, and
- c. Statutory Audited annual accounts up to FY 2009-10.

E. True-up for FY 2009-10

12. Regulatory context

- 12.1. The true-up exercise is to be adopted as per the clause 22 – 'Review and Truing up' of Tariff regulation, 2007. Hon'ble Commission shall undertake this exercise based on final actual figures as per the audited accounts.

- 12.2. The following section covers the calculation of all the parameter of annual fixed charge. As per clause 54 of Tariff regulation, 2007, it comprises of –

- a. Return on equity
- b. Interest on capital/loan
- c. Depreciation, including Advance Against Depreciation
- d. Operation & Maintenance expenses
- e. Interest on Working capital

13. Return on Equity (RoE)

- 13.1. As per clause no. 55 (3) of Tariff regulation, 2007, RoE shall be computed on the equity base @14% per annum.

- 13.2. The petitioner would like to submit that it didn't claim any RoE in the last submitted ARR for FY 2009-10 and hence the same was not considered by the Hon'ble Commission in its order of the same which needs to be revised.

- 13.3. For the calculation of equity proportion, it is considered as 30% of GFA value (as given in Table-3). Then, RoE is calculated by considering @14% return.

Table 4: Plant-wise RoE calculation

S. No.	Plants name	GFA	Equity base (@30% of GFA)	RoE (@14% of Equity)
1	Agnoor	1961.10	588.33	82.37
2	Barun	1502.11	450.63	63.09

S. No.	Plants name	GFA	Equity base (@30% of GFA)	RoE (@14% of Equity)
3	Dehri-on-Sone	3329.17	998.75	139.83
4	Dhelabagh	1118.85	335.66	46.99
5	Jainagara	1063.40	319.02	44.66
6	Koshi-Kataiya	0.00	0.00	0.00
7	Nasriganj	986.50	295.95	41.43
8	Triveni	2405.12	721.54	101.02
9	Valmikinagar	5728.34	1718.50	240.59
	Total	18094.59	5428.38	759.97

*All values are in INR Lakhs

13.4. We request the hon'ble Commission to approve the RoE of INR 759.97 Lakhs.

14. Interest on capital/loans

14.1. Interest calculation includes the following components –

- a. ‘Opening loan’ which is taken from the column of ‘Interest & loan’ of Table-3
- b. Loans during year is kept as null as no addition was there
- c. 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.
- d. Interest rate is calculated on average basis of all the loans

14.2. The calculation of interest on loan considering abovementioned parameters is tabulated below.

Table 5: Interest on loan calculation

S. No.	Plant name	Opening loan	(+) Loans during year	(-) Repayment	Net closing balance	Average	Interest rate	Interest expense
(A)	(B)	(C)	(D)	(E)	$(F) = (C) + (D) - (E)$	$(G) = (C + F)/2$	(H)	$(I) = (G) \times (H)$
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
	Total	9,051.41	0	666.16	8,385.25	8,718.33		1,046.20

*All values are in INR Lakhs

14.3. We request the Hon'ble Commission to approve Interest on loan of INR 1,046.20 Lakhs.

15. Depreciation

15.1. The value of depreciation is considered on actual basis and taken from Annual Audited accounts of FY 2009-10. It is tabulated below for reference.

Table 6: Depreciation value for plants

S. No.	Plant name	Depreciation
1	Agnoor	70.15
2	Barun	53.71
3	Dehri-on-Sone	120.58
4	Dhelabagh	38.04
5	Jainagara	36.13
6	Koshi-Kataiya	0.00
7	Nasriganj	33.54
8	Triveni	79.96
9	Valmikinagar	234.04
	Total	666.16

*All values are in INR Lakhs

15.2. We request the Hon'ble Commission to approve depreciation of INR 666.16 Lakhs.

16. Operation & Maintenance (O&M) expenses

16.1. The value of O&M expense is considered on actual basis and taken from Annual Audited accounts of FY 2009-10. It is tabulated below for reference.

Table 7: O&M expenses of plants

S. No.	Plants name	O&M expense
1	Agnoor	42.39
2	Barun	79.90
3	Dehri-on-Sone	146.34
4	Dhelabagh	26.36
5	Jainagara	6.13
6	Koshi-Kataiya	109.17
7	Nasriganj	14.99
8	Triveni	45.51
9	Valmikinagar	172.29
	Total	643.08

*All values are in INR Lakhs

16.2. The detailed break-up of O&M expense is given below.

Table 8: O&M expense break-up

S. No.	Particulars	Agnor	Barun	Dehri-on-sone	Dhelabagh	Jainagara	Nasriganj	Koshi-Kataiya	Triveni	Valmikinagar	Total
1	Operation & Maintenance of P.H.	12,57,865	28,64,662	40,17,129	19,88,352	0	5,58,306	30,74,333	27,00,000	51,60,000	2,16,20,647
2	Maintenance of Powerhouse	3,84,982	4,91,159	11,95,204	1,33,987		1,05,370	6,96,017		42,70,160	72,76,879
3	Administrative & Management										
	Salary & Allowance - Managing Director/Chairman										0
	Salary & Allowance	18,59,078	37,22,708	68,30,373	1,07,289	66,248	5,86,633	47,02,540	2,34,290	46,47,178	2,27,56,337
	Gratuity Premium under L.I.C. Scheme										0
	Provident Fund administrative Charges										0
	Uniform & Liveries	4,728	-1,906								
	Reimbursement of Medical & Edu. Exps.	9,825	11,662	1,33,296			2,400		0	2,822	1,57,183
	Account Computerisation										0

S. No.	Particulars	Agnor	Barun	Dehri-on-sone	Dhelabagh	Jainagara	Nasriganj	Koshi-Kataiya	Triveni	Valmikinagar	Total
Rent			25,000			39,000	39,000		30,000	1,33,000	
Electricity	0	24,024	2,89,350				1,492		4,76,278	7,91,144	
Travelling & Conveyance	39,808	39,759	1,17,382					1,28,476	0	94,718	4,20,143
Petrol, Oil & Lubricants	2,37,636	3,32,161	6,00,985	1,03,950	1,50,000	1,127	1,92,512		3,93,903	20,12,273	
Insurance										0	
Advertisement for Tender/other	0	1,05,200	2,75,000			0			14,480	3,94,680	
Telephone & Telex Charges	4,971	6,638	58,172	0		0	23,823		33,677	1,27,281	
Internet Expenses										0	
Printing & Stationary	1,805	5,219	50,052			105	7,397		13,158	77,736	
Postage	.0	258				30	564		2,612	3,464	
Conference and Seminar										0	
Bank Charge	8,796	28,467	0			0	4,061	2,783	20,350	64,457	
Repairs - Vehicle	0	0	6,298	0		0	0	0	11,729	18,027	
Repairs - Building	13,045	1,63,900	1,85,448	0		0	9,33,354	0	13,86,431	26,82,178	
Repairs - Plant	0	53,112	1,02,377	0		1,03,950	2,43,744	0	0	5,03,183°	
Repairs - Other	0	31,449	37,631	0		1,027	13,292	0	10,247	93,646	
Road Tax										0	
Hire & Rental Charges	1,26,050	1,44,212	5,67,852				1,51,220	2,55,500	17,460	12,62,294	
Licence & Registration Fee	0	4,500	5,500	0		0	7,500	0		17,500	

S. No.	Particulars	Agnoor	Barun	Dehri-on-sone	Dhelabagh	Jainagara	Nasriganj	Koshi-Kataiya	Triveni	Valmikinagar	Total
Consultancy Charges/ Legal Expenses	2,60,512	0	18,000	26,250	1,03,460	48,310	5,36,698	6,96,662	4,79,806	21,69,698	
D.P.R Expenses								0		0	
Statutory Auditors Fee										0	
Internal Auditors Fee										0	
Tax Audit Fees										0	
Entertainment	1,140	41,754	1,08,519	900		3,640	9,065		1,15,707	2,80,725	
Survey & Investigation										0	
News Paper	3,253	2,842	826			228	1,752		1,710	10,611	
Transportation Charges		1,920	6,802		4,812	16,406	16,830			46,770	
Grant for Purchase of Computer								81,909		10,000	91,909
Donation & Contribution										0	
Capital Maintenance of Powerhouse w/o										0	
Plantation		13,750				0					
Testing & Commissioning					2,87,178				7,000	20,750	
Miscellaneous Expenses	39,488	35,065	1,31,801		1,610	34,431	49,029		6,61,800	9,48,978	
									32,567	3,23,991 [*]	

S. No.	Particulars	Agnor	Barun	Dehri-on-sone	Dhelabagh	Jainagara	Nasriganj	Koshi-Kataiya	Triveni	Valmikinagar	Total
FBT											0
Total A&M cost	25,96,611	46,34,449	94,21,433	5,13,389	6,13,308	8,34,887	71,46,658	18,51,035	77,99,011	3,54,10,780	
Grand total (1+2+3)	42,39,458	79,90,270	1,46,33,766	26,35,728	6,13,308	14,98,563	1,09,17,008	45,51,035	1,72,29,171	6,43,08,306	

* All values are in INR

17. Interest on working capital

17.1. As per clause no. 55 (5) of BERC Tariff regulation, 2007, interest on working capital cover following elements-

- a. Operation and Maintenance expenses for one month which is calculated by dividing O&M expenses by 12,
- b. Maintenance spares @ 1% of the historical cost escalated @ 6% per annum from the date of commercial operation and its detailed calculation is given in table 10.
- c. Receivables equivalent to two months of fixed charges for sale of energy, calculated on normative capacity index.

17.2. Rate of interest on working capital shall be the short-term prime lending rate of State Bank of India as on 1st April of the year in which the generation unit/station is declared under commercial operation.

17.3. The following table shows the figure of elements as described in clause 17.1.

Table 9: Elements of Interest on Working Capital

S. No.	Plant	O&M exp for 1 month	Maintenance spares @1%	Receivables equivalent to 2 months of fixed charge	Interest on Working Capital
1	Agnoor	3.53	23.36	67.45	94.34
2	Barun	6.66	32.04	52.71	91.40
3	Dehri-on-Sone	12.19	84.57	154.70	251.47
4	Dhelabagh	2.20	13.33	48.85	64.38
5	Jainagara	0.51	11.27	41.89	53.67
6	Koshi-Kataiya	9.10	0.00	3.25	4.50
7	Nasriganj	1.25	11.08	61.44	81.62
8	Triveni	3.79	24.05	104.03	131.87
9	Valmikinagar	14.36	115.27	162.48	292.10
Total		53.59	314.97	696.79	1065.35

* All values are in INR Lakhs

Table 10: Detailed calculation of Maintenance spares

S. No.	Plant	GFA	CoD	Maintenanc e spares @1% escalated at 6% per annum from COD	Before FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12
1	Agnor	1961.10	Unit 1- 06/2006 Unit 2- 06/2006	NA 23.36											
2	Barun	1502.11	Unit 1- 6/96 Unit 2- 3/96	32.04	18.96	20.10	21.31	22.59	23.94	25.38	26.90	28.51	30.23	32.04	33.96
3	Dehri-on- Sone	3329.17	Unit 1- 19/01/93 Unit 2- 06/03/93 Unit 3- 28/08/93 Unit 4- 11/04/93	84.57	50.06	53.06	56.25	59.62	63.20	66.99	71.01	75.27	79.79	84.57	89.65
4	Dhelabagh	1118.85	Unit 1- 8/2006 Unit 2- 8/2006	13.33	NA								11.19	11.86	12.57
5	Jainagara	1063.40	Unit 1- 12/2008 Unit 2- 12/2008	11.27	NA								10.63	11.27	11.95
6	Koshi-	0.00	1970-75	0.00	0								0	0	0

S. No.	Plant	GFA	CoD	Maintenance spares @1% escalated at 6% per annum from COD	Before FY 02	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12
	Kataiya															
7	Nasriganj	986.50	Unit 1-07/2007 Unit 2-07/2007	11.08	NA											
8	Triveni	2405.12	Feb-09	24.05	NA											
9	Valmikinagar	5728.34	Unit 1-13/09/95 Unit 2-28/06/96 Unit 3-12/11/97	115.27	68.23	72.32	76.66	81.26	86.13	91.30	96.78	102.59	108.74	115.27	122.18	129.51

18. Revenue from other sources

18.1. Non-tariff income or revenue from other sources needs to be deducted from the aggregate revenue requirement to arrive at net revenue requirement. The following table gives the plant-wise detailed revenue from other sources.

Table 11: Break-up of Revenue from other income

S. No.	Particulars for FY 10 OTHER INCOME (In INR)	Agnoor	Barun	Dehri-on-Sone	Dhelabagh	Jainagara	Koshi	Nasriganj	Triveni	Valmikimagar	Total
1	Sale of Tender Paper/BOQ	0	5,750						19,150		24,900
2	Interest on short term deposit/FD		0							0	
3	Recovery of Electricity		-								
4	Recovery of House Rent	88,200	10,520					9,600	31,579	41,179	
5	Insurance Claim							24,000	2,300	1,25,020	
6	Interest on House Building	52,000								0	
7	Interest on marriage advance								86,702	1,38,702	
8	Interest on Motorcycle Advance	185	4,000							0	
9	Interest - Contractor/SD							4,978	9,163		
10	Recovery for Materials							11,600	11,600		
11	Miscellaneous Income	0	880						0	0	
	Total	0	1,40,385	21,150	0	0	0	33,600	1,66,399	3,61,534	

*All values are in INR

19. Aggregate Revenue Requirement (ARR)

19.1. The summary of ARR as per the current true-up petition is as follows.

Table 12: ARR summary

S. No.	Parameters	Value
1	Return on Equity	759.97
2	Interest on capital/loan	1,046.10
3	Depreciation	666.16
4	Operation and Maintenance expenses	643.08
5	Interest on working capital	1,065.35
6	Gross ARR	4,180.76
7	Non-tariff income	3.62
8	Net ARR	4,177.15

*All values are in INR Lakhs

19.2. The petitioner requests the Hon'ble Commission to approve net ARR of INR 4,177.15 Lakhs.

20. Saleable Energy

- 20.1. The Hon'ble Commission had in its order dated 22nd Dec 2009 allowed saleable energy of 70.30 MUs for recovery of the ARR.
- 20.2. The petitioner would also like to request to consider the same energy in this true-up petition also for finalisation of provisional tariff.
- 20.3. However, the petitioner would also like to submit before the Hon'ble Commission that its actual generation and hence the actual saleable energy for the year FY 2009-10 is substantially lower than the allowed figure of by the Hon'ble Commission as detailed in the following table.
- 20.4. The reason for less saleable on generation than the designed generation is that all the concerned plants for which True-up petition has been filed are Canal Based plants. Hence, the generation from such plants are based on the discharge of water to the canal depending on irrigation requirement and availability of BSEB network for evacuating power. However, low discharge and Unstable Grid/GSS/PSS system are the main reasons for low generation.

Table 13: Monthly generation data for FY 2009-10

S. No.	Month/Plant name	Valmiki Nagar	Triveni	Jainagra	KosiKataiya	Dehri On-Sone	Barun	Nasariganj	Agnoor	Dhelabagh
1	Apr-09	81,868	1,66,600			1,74,770	6,550		-287	
2	May-09						35,338			38,924
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		9,81,180	76,922	73,764	17,904	
6	Sep-09	19,97,600	4,82,495			16,92,950	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								

*All values in kWh

[Signature]

21. Infirm power

21.1. 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.

22. Calculation of Trued-up Tariff for FY 2009-10

22.1. Considering the calculated ARR in this petition and the MUs as allowed by the Hon'ble Commission, the petitioner requests the Hon'ble Commission to kindly true-up the provisional tariff of INR 2.49/kWh to INR 5.94/kWh as per the following:

Table 14: Tariff determination

S. No.	Parameters	Value
1	Net ARR as per this true-up petition (INR Lakhs) - A	4,177.15
2	Actual saleable energy (MUs) - B	70.33
3	Trued-up tariff (INR/kWh) - C = A/B	5.94

23. Revenue gap and the proposed treatment

23.1. The petitioner would like to submit that the Hon'ble Commission had in its order dated 22nd Dec 2009 provisionally approved the ARR for the entire financial year FY 2009-10 but had directed to make the tariff applicable only from 1st Dec 2009 onwards. Since it was a provisional tariff, the petitioner at that point of time did not request for its applicability for the entire year.

23.2. The petitioner would however as part of this current true-up exercise request the Hon'ble Commission to kindly consider the entire financial year and hence the revenue gap has accordingly been computed.

S. No.	Parameters	Value
1	Revenue as per Audited Accounts for FY 2009-10 (INR Lakhs) - A	678.55
2	Actual saleable energy (MUs) - B	31.63
3	Trued-up ARR (INR Lakhs) - C	4,177.15
4	Saleable energy allowed by the Hon'ble Commission (MUs) - D	70.33
5	Trued-up tariff (Rs/kWh) - E = C/D	5.94
6	Revenue as per Trued-up tariff (INR Lakhs) - F = E*B	1878.82
7	Revenue Gap (INR Lakhs) - G = F-A	1,200.27

23.3. The petitioner requests the Hon'ble Commission to kindly approve the revenue gap for FY 2009-10 as estimated above and pass due order for recovery of the same. Lastly, the petitioner would like to most humbly submit that due cognisance may be given to the fact that the petitioner has lost hugely in revenue on account of actual generation and hence the corresponding actual saleable energy being substantially lower than that allowed by the Hon'ble commission. The plant wise reasons for the same has been detailed earlier in the petition.

F. Annexure

24. Annexure – A: Summary Table of cost break-up

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		Civil components	Other	Total			
A	B	C	D	E	F	G = D+E+F	H	I	J	K	L = I + J + K	M
1	Agnoor	89.33	244.99	797	1958.28	2.82	0.00	1961.10				a) The plant construction was in full swing. Almost all the equipment had arrived at the site. However, the Naxalites attacked the project site in 2001-02 and burnt and ransacked certain equipment and site. The construction work remains suspended for about 2 years. After normalisation of situation, the re-erection started after refurbishing / repairing. Virtually, the installation work had to be reinitiated which resulted in cost and time over-run.
												b) The final design and

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		Civil components	Other	Total	
										drawing for construction of the project were prepared by AHEC Roorkee which also took considerable time.
2	Barun	277.11	389	666.11	1589	1288.05	165.04	49.01	1502.11	a) After finalisation of the design and drawing quantities have got increased substantially. c) Heavy dewatering during construction also affected the cost and time. 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.

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		Civil components	Other	Total		
3	Dehri-on-Sone (Sone Western Link)					1252.46	3420	3120.64	183.62	24.92	3329.17
						608.43	644.03				

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		Civil components	Other	Total	
4	Dhelabagh	424	687.49	688	0.00	1118.85	0.00	1118.85	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 construction also affected the cost and time. 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.

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		Civil components	Electrical component	Other	
5	Jainagara	202.49	328.24	530.73	531	1056.24	7.16	0.00	1063.40	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 time. 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.

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		Civil components	Other	Total	
6	Nastiganj					237.93	306	543.93	986.43	a) The said plant falls under Naxal belt. Due to interruptions from the Naxals, the project was stalled various times, which resulted in time and cost overrun.
							0.00	0.07	986.50	b) 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.

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		Civil components	Other	Total	
7	Triveni	360	555	1785	2344.06	915	61.06	0.00	2405.12	<p>a) The site lies very close to the river due to which heavy dewatering cost were incurred.</p> <p>b) The final design and drawing for construction of the project were prepared by AHEC Roorkee which took considerable time.</p> <p>c) After finalisation of the design and drawing quantities have been increased manifold which resulted in cost overrun.</p> <p>d) Acquisition of land done by the BHPC for</p>

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		Civil components	Other	Total	
										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		Civil components	Other	Total		
9	Valmikinagar (Eastern Gandak)					1739.06	6600	5128.44	537.45	62.44	5728.34

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.

b) Central Water Commission was consultant for designing and preparation of drawing which took considerable time for furnishing the same.

c) The contractor for the Installation and Commissioning of the project was Sumitomo

S. No.	Plant name	Capacity	Initial DPR cost (INR Lakhs)			Audited accounts (INR Lakhs)			Reason of Incremental cost	
			Electrical component	Civil components	Other	Total	Electrical component	Civil components	Other	
										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.

25. Detailed break-up of cost elements as per DPR

S. No.	Plant	Grand	Items	Cost (INR Lakh)	Component type (E for Electrical or C for Civil)	Civil (INR Lakh)	Electrical (INR Lakh)
1	Nasirganj	543.93	Preliminary	5.11	C	237.93	306
			Temporary construction & building	20.6	C		
			Land	7.73	C		
			All other Civil works	155	C		
			Electrical/mechanical work	303	E		
			Associated Transmission system	2	E		
			Trial & commissioning	1	E		
			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		

S. No.	Plant	Grand	Items	Cost (INR Lakh)	Component type (E for Electrical or C for Civil)	Civil (INR Lakh)	Electrical (INR Lakh)
5	Barun	666.11	Civil work	277.11	C	277.11	389
6	Agnor	244.99	Electrical & mechanical work Civil work	389	E		
7	Dhelabagh	687.49	Electrical work Preliminary	89.33	C	89.33	155.66
			Temporary construction & building	155.66	E		
			Land	5.11	C	263.49	424
			All other Civil works	20.6	C		
				7.73	C		
				168.71	C		
			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		

26. 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 (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			
			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			

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	Land	53,50,756.57	53.51	C	183.62	3,120.64	24.92
			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
5	Barun	1502.11	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			

S. No.	Plant	Grand (INR Lakhs)	Items	GFA as on 31.03.10 (INR)	GFA as on 31.03.10 (INR (INR Lakhs)	Component type (E/C/O)	Civil (C)	Electrical (E)	Other (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			
			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			

27. Agreement cost of work allotted

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-sone (Sone Western Link)	Not traceable	647.61
4	Dhelabagh		
5	Jainagara	6.7 (on Turnkey basis)	
6	Koshi-Kataiya	5.31 (on Turnkey basis)	
7	Nasriganj	Plant handed over to BHPC in 2003	
8	Triveni	5.68 (on Turnkey basis)	
9	Valmikinagar (Eastern Gandak)	13.47 (on Turnkey basis)	
		Not traceable	2,45,36,59,200.00 (in Japanese Yen)

* All costs are excluding taxes & duties