

Sone Western Link Canal H.E. Project, Dehri (4x1.65 MW)

GENERAL REPORT

- 1.01 Sone Canal System is one of the oldest canal system in the country. It is in operation since 1874. Originally anicut was constructed near Dehri on river Sone with canal off taking from either side of it.
- 1.02 The Sone Western Link Canal Hydroelectric Project is utilising exiting fall of 3.87 meters on Sone Western Link Canal (SWLC) km. 10.12(RD 33.20) near it confluence with Sone Western main canal for generation of Hydroelectric Power.

SALIENT FEATURES

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| 1. | Catchment area of Sone river
at the Sone barrage | : | 69000 sq. km. |
| 2. | Water Conductor System (S.W.L.C.) | | |
| | (a) Power Channel | : | 798 m. |
| | (b) Tail Race Channel | : | 150 m. |
| 3. | Power House
(Semi Underground with top entry) | | |
| | (a) Installed capacity | : | 4x1.65 MW. |
| | (b) Head | : | 3.87 m |
| | (c) Discharge | : | 226.24 cumec |
| | (d) Annual Energy Generation | : | 43.106 Gwh |
| | (e) Area of P.H. | : | 50 M x 29 M. |
| 4. | Turbine(s) | : | 1.8 MW, 120rpm, Bulb Type,
Semi Kaplan, horizontal shaft. |
| 5. | Generator(S) | : | 1692KW, 1880KVA, 0.9 P.f.
6.6 kv 50Hz, 120
rpm, Synchronous generator |
