

Dhelabagh Small Hydel Project (2 x 500 KW)

SALIENT FEATURES

1.01 Sone Canal System is one of the oldest canal systems in the country. It is operation since 1874.

1.02 The Dhelabagh H.E. Project envisages to utilize the existing fall of 3.2 meter on Arrah Branch Canal at 8.2 Km. Main Canal for generation of Hydro Electric Power.

1.03 Location : Block –Dehri-on-Sone, Distt –Rohtas (Sasaram).

1. Catchment area of Sone river at the barrage : 69000 sq. km.
2. Water Conductor System
 - (a) Power Channel : 106.715 meters
 - (b) Tailrace Channel : 37.00 meters
3. Power House
 - (a) Installed Capacity : 2x500 KW.
 - (b) Design Head : 3.20 M
 - (c) Design Discharge : 54.4 Cumecs.
 - (d) Annual Energy Generation : 11.92 GWH
4. Turbine(s) : Semi Kaplan, Syphon Intake, Vertical Turbine.
5. Generator (s) : Synchronous Brushless, Electronic Governor, 2 nos. vertical Generator 500 KW; 0.9 p.f. 415 voltage.
