

Walidad Small Hydel Project (1x700 KW)

SALIENT FEATURES

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

1.02 The Walidad H.E. Project envisages to utilize the existing fall of 3.90 meter on Patna Branch Canal at 57.54 Km. Main Canal for generation of Hydro Electric Power.

1.03 Location : Block – Arwal

1. Catchment area of Sone river : 69000 sq. km.
at the barrage

2. Water Conductor System

(a) Power Channel : 165.M,
(b) tailrace Channel : 180 M,

3. Power House

(a) Installed capacity : 1x700 KW.
(b) Design Head : 3.9 M
(c) Design Discharge : 28.9 Cumecs.
(d) Annual Energy generation : 5.28 GWH

4. Turbine(s) : Semi Kaplan, Syphon Intake,
Vertical turbine.

5. Generator (s) : Synchronous Brushless, electronic
Governor Vertical generator.
