

Brief Summary of the Project

1. Introduction

Haldia Energy Limited (HEL) has proposed to extend the 2 X 300 MW existing capacity by adding another unit of 1 X 350 MW Super critical unit at Haldia, West Bengal. Govt of West Bengal supports this project. In-Principle approval received from CEA/MoP for the entire project. Environmental Clearance for the existing project was accorded on 01.10.2008 and subsequently transferred in the name of Haldia Energy Limited on 18.01.2010.

2. Site Location

The site is located near Jhikurkhali, Village of Banewarchak about 4 km North-East of Durgachak and 3 km South-East of Sutahata. The proposed site falls under toposheet no. 79 B/4 of Survey of India. The approximate Latitude & Longitude of the corners of the site are:

22° 6'20.51"N, 88°10'28.44"E
22° 6'20.46"N, 88°10'32.36"E
22° 6'10.97"N, 88°10'31.79"E
22° 6'10.93"N, 88°10'28.02"E

The site is nearly 3 km from the Basuliya-Sutahata Railway Station in the Haldia-Panskura section of South Eastern Railways. The site is approachable by both State & National Highways.

3. Environmental Setting

No wildlife sanctuaries/ national parks/ ecologically sensitive areas/ Archaeological monuments of national importance/ Defense Installations exist within 10 Km radius of the plant boundary.

The existing plant as well as the proposed additional unit doesn't involve any CRZ issues.

4. Land

The land area required of about 19 acres for the proposed unit is available inside the existing plant premises of HEL TPP and the same shall be used for this proposed extension unit.

5. Land Filling

The average Existing Ground Level (EGL) at the proposed site is 3 m above MSL. The FGL for this plant has been set at 4.5m above MSL.

6. Water

Closed Condenser Cooling Water System using Cooling Tower (CT) is proposed for carrying away the heat from Steam Turbine Condenser.

Water required for the additional unit has been estimated to about 1133 m³/hr. Total water requirement for the plant after the proposed project will be 3171 m³/hr. The additional water shall be sourced from the present allocation from Hooghly River.

7. Coal

Requirement of coal for the proposed TPS has been estimated as 1.55 MTPA at 85% PLF based on GCV of 3500 kCal/ Kg and 34% ash. Any shortfall will be made by using imported/High GCV Domestic coal (GCV 5000 Kcal/kg). However, HEL shall take initiative for allocation of suitable Coal Mine for supplying fuel for this project.

8. Project Cost

This Project is proposed to be financed with 25% Equity and 75% Debt. Based on the above assumptions and available data, the estimated Project Cost excluding IDC and Financing Cost works out to Rs.2835.3 Crores.

9. Power Evacuation

Entire Power Purchasing will be done by CESC Limited, a DISCOM for its licensee area. The power generated is essential for the power security of the State.

10. Statutory Clearances

Necessary Permits & Clearances have already been obtained prior to installation of the presently installed 2 X 300 MW Units.

With the steadily growing demand for electricity in CESC area of power distribution network, installation of this extension 1x350 MW power generation unit will definitely be of help. Considering the aforesaid, the project proponent request to accord ToR for carrying of EIA/EMP Studies.