

Brief Summary and Basic information of the Project:

The proposed 1600 MW (2x800MW) Godda Thermal Power Project is Coal based thermal power plant for Export of Power to Bangladesh Country at Motia, Gangta, Gaighat & other adjacent villages, Godda & Poriyahaat Tehsil, District Godda, Jharkhand by Adani Power (Jharkhand) Limited (AP(J)L).

Adani Power (Jharkhand) Limited, AP(J)L is a subsidiary company of APL, which has been formed to develop 2x800MW Thermal Power Plant in Jharkhand.

The plant location is studied with reference to availability of different inputs and other infrastructure for the station size under consideration. By evaluation of the data, a suitable configuration and layout for the station has been worked out. The study dwells upon other features viz. technical aspects, environmental issues, project implementation and finally the cost involved to implement this project.

Various sites (Motia-Godda, Paraspani-Godda and Gunihari-Sahibganj) have been evaluated in Jharkhand and accordingly Motia-Godda location was found most suitable to set up the power plant

Accordingly, Adani Power Limited (APL) on 11.08.2015 signed a MoU with Bangladesh Power Development Board (BPDB), to develop a 2X800 MW thermal power plant on BOO basis in India and supply the entire power generated to Bangladesh Power Development Board (BPDB) through a dedicated Transmission Line.

PPA for this supply is expected to be signed soon between APL and BPDB. As per terms of the MoU the power plant together with dedicated transmission line (within India) up to mutually agreed interconnection point shall be built owned and operated by APL. BPDB shall be responsible for getting the transmission line constructed by Power Grid Company of Bangladesh (PGCB) from interconnection point onwards in Bangladesh

NOC from Ministry of Power, Government of India has been obtained to set up Thermal Power Plant in Jharkhand for supplying power to Bangladesh through a dedicated 400 kV transmission line.

Coal for this Project would be imported coal. The annual requirement of Coal for the Power Plant would be about 7-9 MMTPA considering Average Gross Calorific Value of 3,500 – 5,000 kCal/kg and PLF of 85%. Imported Coal would be transported from port to proposed site through Railway wagons. The wagons shall be unloaded in the power plant by Wagon Tiplers and Track Hopper, as per requirement. The Coal shall be normally transported to Main Plant bunkers / stockyard through belt conveyor. The Coal received at the Plant Site would be stacked by Stacker Reclaimers for further conveying either to the Plant Bunkers or to the Plant Stock-yard through a series of Conveyors. Provision will be made to keep 15 days stocks at the Plant Stockyard. The coal handling system of the proposed power project will have the capacity of 2,000 – 2,200 TPH with 100% redundancy and suitable crushing, stacking, reclaiming & feeding system will be provided.

[2x800 MW Godda Thermal Power Project
Motia, Gangta, Gaighat & other adjacent villages, Godda & Poriyaat Tehsil, District Godda, Jharkhand
By Adani Power \(Jharkhand\) Limited](#)

The river water will be drawn from the River Chir by constructing a pump house inside the river and pumping the water to the plant through a dedicated pipeline. An intermediate booster pumping station shall be provided for Godda site the total make-up water requirement would be around 4,000 m³/hr (36 MCM).

Presently 860 acres land has been identified. The acquisition process is in progress. This will involve R&R for which necessary action shall be taken for R&R of displaced families as per rules.

Project Cost

The estimated costs of the project amount to Rs. INR 13,906 Cr.

Project Highlights

Plant Capacity	:	1600 MW (2x800 MW)		
Location	:	Nearest Town	:	Godda
	:	Nearest Railway Station	:	Hansdiha (45 Km)
	:	Nearest Airport	:	Patna (300 Km)
	:	Sea Port Considered	:	Dhamra, Odisha
Seismological Information	:	ZONE – IV as per IS 1893 : 2002		
Land for the Project	:	Motia, Gangta, Gaighat & other adjacent villages, Dist.: Godda, State of Jharkhand.		
Source of water	:	Water from Chir river approx. 15 km from the site.		
Water Requirement	:	36 MCM per annum		
Cooling System	:	Closed cycle cooling system		
Primary Fuel	:	Imported Coal		
Coal requirement	:	7-9 MMT per annum @ 85% PLF (GCV - 3500 to 5,000 Kcal/Kg,		
Support Fuel & Source	:	LDO/HFO/HSD from nearest refinery/oil depots by Rail/Road.		
Support fuel (HFO/LDO)	:	15,000 KL per annum @ 85% PLF (0.5 ml/kwh)		
Steam Turbine Generator	:	The Steam Turbine will be single shaft, multi-cylinders, tandem compound single reheat, regenerative, condensing unit directly coupled to AC Generator giving a continuous rated output of 800 MW at generator terminals.		
Steam Generator	:	Steam Generator will be Ultra Super-critical pressure balanced draft furnace, single reheat, radiant, dry bottom type, sliding (variable) pressure operating, suitable for outdoor installation designed for firing pulverized coal as main fuel.		
Station Operation Philosophy	:	Base Load		
Chimney	:	275 meter high Twin flue RCC chimney		
Power Evacuation	:	Through dedicated double circuit transmission line (400 kV) from plant up to Indian border in the direction of Bogra (Bangladesh)		

2x800 MW Godda Thermal Power Project
Motia, Gangta, Gaighat & other adjacent villages, Godda & Poriyaat Tehsil, District Godda, Jharkhand
By Adani Power (Jharkhand) Limited

Total Project Cost including IDC	:	INR 13,906 Cr
Project Completion Schedule from the Zero date	:	Unit-1: 44 months Unit-2: 50 months.