

## **Rupsha 800 Megawatt Combined Power Plant**

### **Frequently Asked Questions (FAQ)**

#### **Key features of the Project:**

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- Name of the Project: Rupsha 800 Megawatt Combined Cycle Power Plant
- Location of the Project: Khalishpur, Khulna
- Implementing authority: North-West Power Generation Company Ltd. (NWPGL)
- EPC Contractor for Construction of Power Plant: Consortium of Shanghai Electric Company, China and Ansaldo Energia, Italy
- Owner's Engineer: Minconsult Sdn Bhd.
- Financed by: Government of Bangladesh, Asian Development Bank
- Project Cost: 8498.64 Crore Taka
- Production Capacity of the Plant: 880 MW
- Implementation Period: 1 July 2018 – 30 June 2023 (The proposal to extend the project till June 2025 is currently being reviewed by the Planning Commission)

#### **Frequently Asked Questions (FAQs):**

##### **1. Why was this Project undertaken?**

###### **Answer:**

The Project was undertaken to meet to following purposes:

- (A) To contribute to meet the electricity demand of the country and increase the reliability of electricity by minimizing load-shedding;
- (B) To contribute in the reduction of the ever-increasing gap between the demand and supply of electricity throughout the country;
- (C) To contribute to accelerating the economic development of the country through adequate and reliable power generation;
- (D) To enhance the stability and reliability of the National Grid System and reduce the system loss by local generation.
- (E) To improve power supply facilities by reducing system loss.
- (F) To develop Human Resources (HR) by Technology Transfer.

##### **2. How many components are there in the Project and what are their brief descriptions?**

###### **Answer:**

The major components of the projects as follows.

- (i) Gas Turbine (2x280 MW)

- (ii) Steam Turbine (2X140MW)
- (iii) Gas Turbine Generator (300 MW)
- (iv) Steam Turbine Generator (150 MW)
- (v) Heat Recovery Steam Generator
- (vi) Water Treatment System
- (viii) Power Transformer (16/230 kV, 400MVA, 11/230kV, 200MVA)

### 3. What are the main Packages of the Project?

**Answer:**

There are 3 main packages under the project.

- Construction of 880 MW Combined Cycle Power Plant
- Construction of 29 Km Power Transmission Infrastructure
- Construction of Gas Supply Infrastructure

### 4. How can I know the tender notice/information of the Project?

**Answer:**

Please visit <https://nwpzgl.gov.bd/site/view/tenders/> to know more about the tender notice/information of the Project.

### 5. What is the expected commissioning date of the Power Plant?

**Answer:**

Expected 1<sup>st</sup> Unit COD: September 2024

Expected 2<sup>nd</sup> Unit COD: March 2025

### 6. What is unique about the project?

**Answer:**

The project will be implementing ZLD (Zero Liquid Discharge) Technology for the 1<sup>st</sup> time in Bangladesh, which will ensure the minimization of the environmental impacts of the project.

### 7. Will the project pose any environmental risks?

**Answer:**

The project attempted to minimize any environmental risks by taking proper measures. The plant is located at a corner of Khulna City beside Rupsha River. The company has taken proper care by isolating the area from the locality. The riverside is kept at a safe distance to conserve the river. There was no change in the course of the river. Waste management is taken care of so that there is no deposition in the river.

The project's impact is an improvement in energy security and increased electricity supply. The outcome is the increased availability of efficient and cleaner energy.

**8. What type of initiative has been taken by the authority to avoid environmental risks?**

**Answer:**

The Environmental Management Plan (EMP) includes several plans for implementing mitigation and enhancement measures, emergency response, occupational health and safety, and the Environmental Code of Practices. Generally, the impacts, which are minor or moderate, are to be mitigated by adopting applicable IFC HES general and also HES thermal guidelines, including GOB regulations, whichever is stringent for sustainable environmental management during project implementation. On the other hand, impacts and risks which are critical or major are mitigated or prevented by adopting mitigation measures. The contractor implements the mitigation measures, which are supervised by the EHS (Environment Health and Safety) Officer of the NWPGCL. The environmental measures are also supervised by the local and international experts of the Owner's Engineer. A Semi-annual Environmental Monitoring Report is prepared and submitted twice every year by the OE. NWPGCL and ADB then review the report to make sure environmental compliance.

**9. Will the project compensate affected people, if any?**

**Answer:**

The project has taken the initiative to compensate affected people, if any. The project's executing agency is the North-West Power Generation Company Limited (NWPGCL). A Project Management Unit (PMU) within NWPGCL is responsible for project planning, implementation, procurement, and managing social and environmental issues.

Five Affected persons', who had already been redeployed by BICI (and were disbursed with relocation allowance in terms SPS of ADB on 29.06.2020), livelihood status analysis in terms of long-term monitoring plan was assessed during this monitoring period.

The New School Building construction with infrastructures was handed over on 18.07.2021 to the school authorities.

Six affected persons were compensated in terms of the directives of Khulna City Corporation (KCC) towards the displacement of Six (6) unauthorized structures near the Project gate for laying of the gas pipeline and their Livelihood status was assessed and monitored in terms of long-term monitoring Plan of affected persons. The Land compensation of BDT2,03,36,580 was deposited by NWPGCL on 30.03.2022 for the Transmission Tower erected lands in terms of GOB notification. District Authorities disbursed land compensation to 15 land owners on 17th August 22 and 1st September 22 (two occasions for 13 Tower locations) 88 affected persons

(Crop) were disbursed with crop compensation of BDT 11,30,427 during the monitoring period.

During the monitoring period M/s Practical Action reported about conducting of Six School Outreach programs, Eight Science and IT Laboratory Training Programs, Five Basic Tailoring programs, Two Dairy Rearing Programs and One Poultry Rearing Program towards socially inclusive development for better livelihood of communities including the project affected households of Component 1,2 and 3.

**10. What type of initiative has been taken to avoid traffic, noise, and dust pollution by vehicles during the construction phase of the Project?**

**Answer:**

The area was isolated from the locality to avoid traffic congestion. Bypass roads were constructed to facilitate traffic movement in the adjacent area. The environmental site clearance has been obtained. EIA study of the project has been completed. Environmental clearance under ECA 1995 will be obtained before COD of the Plant.

**11. What social development works are covered under the Project?**

**Answer:**

Following Social Development activities were conducted under the project:

- a. Livelihood trainings of basic tailoring, dairy rearing and poultry rearing were given to vulnerable households and communities around project site. A total of 203 people were trained out of whom 89% were women. Some women participants started small business after completing the training course.
- b. Students of KNM school, Darul Quran Dakhil Madrasha, and Newsprint Madrasha were given Science Lab and IT Lab Training. A total of 445 students received training with 47% female students.
- c. 18 teachers from KNM High School were trained on how to utilize IT technology to improve education and information access.
- d. Six outreach events were organized to encourage male and female students to consider a career in the technical sector.

**12. How to get more information about the Project?**

**Answer:**

Please visit <https://nwpgcl.gov.bd/> to know more about the project.