

**Half Yearly Compliance Report  
2025  
01 Jun(01 Oct - 31 Mar)**

**Acknowledgement**

<b>Proposal Name</b>		(3x660 MW Barh Thermal Power Project near Barh town, district Patna, Bihar of M/s National Thermal Power Corporation Limited.)	
<b>Name of Entity / Corporate Office</b>		NTPC Barh	
<b>Village(s)</b>		BARIARPUR	
<b>District</b>		PATNA	
<b>Proposal No.</b>	Stage-I: IA/BR/THE/10759/2000	<b>Category</b>	Thermal Projects
<b>Plot / Survey / Khasra No.</b>		<b>Sub-District</b>	Pandarak
<b>State</b>	BIHAR	<b>Entity's PAN</b>	*****0255D
<b>MoEF File No.</b>	No.J.13012/23/98- IA.II(T)	<b>Entity name as per PAN</b>	NTPC LIMITED

**Compliance Reporting Details**

<b>Reporting Year</b>	2025
<b>Remarks (if any)</b>	EC compliance report for Period 1st Oct 2024 to 31st March 2025.
<b>Reporting Period</b>	01 Jun(01 Oct - 31 Mar)

**Details of Production and Project Area**

**Name of Entity /  
Corporate Office**      NTPC Barh

	<b>Project Area as per EC Granted</b>	<b>Actual Project Area in Possession</b>
Private	1037.61	1245.22
Revenue Land	0	40.8
Forest	0	0
Others	0	0
Total	1037.61	1286.02

**Production Capacity**

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	St-1, NTPC Barh	MW	03/06/2029	1980 (3X660 MW)	under commissioning	660 (Unit 3)
2	St-1, NTPC Barh	MW	25/11/2026	1980 (3X660 MW)	3334.66	660 (Unit 1)
3	St-1, NTPC Barh	MW	14/06/2027	1980 (3X660 MW)	4036.55	660 (Unit 2)

## Conditions

### Specific Conditions

Sr.No.	Condition Type	Condition Details
1	MISCELLANEOUS	Coal for the project from Amrapali Block of North Karanpura Coal fields should be used at rate of 35136 TPD having gross calorific value in the range of 3230-5430 Cal per kg and sulfur content not exceeding 0.54 percent. Fuel should be transported through railways over a distance of 250 km upto Barh Railway Station.

#### PPs Submission: Complied

The Railway Board vide letter dated 09.01.2001 has accorded clearance for coal movement from Amarpali block of North Karanpura area of CCL to Barh STPP. The coal is being transported through route Hazaribagh - Koderma - Tilaiya - Rajgir - Barh by Indian Railway. The calorific value and sulphur content is within the range.

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### General Conditions

Sr.No.	Condition Type	Condition Details
1	LAND RECLAMATION	The acquisition of land near Barh town should be restricted to 2564 acres with following break-up Plant area 625 acres Township 250 acres Ash disposal 1250 acres Greenbelt 225 acres Total 2564 acres

#### PPs Submission: Complied

The land requirements for Phase-I (3X660 MW) and Phase-II (2X660 MW) has been restricted to 3200 Acres by MOEF and CC vide No. J-13011/29/2007-IA-II(T) their EC of Phase-II. The total land acquisition for Phase I and II is within 3200 acres.

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2	AIR QUALITY MONITORING AND PRESERVATION	Two stacks of height 275 m (one with two flues and another with single flue) should be installed with continuous online monitoring system at the suction side of ID Fan for smooth functioning. The exit velocity should be maintained as 24m/sec along with exit temperature of 125 degree C.
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#### PPs Submission: Complied

Two stacks of 275 m (one with two flues and another with single flue) have already been constructed. The online continuous monitoring system is being installed. Flue gas parameters as stipulated shall be complied with. The Flue gas parameter report attached

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3	Statutory compliance	Electrostatic Precipitator having efficiency of not less than 99.8 percent should be installed and it should be ensured that particulate emission would not exceed the prescribed limit of 100 mg per Nm <sup>3</sup> .
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		Space should be provided for installation of FGD plant, if required in future.
<b>PPs Submission:</b> Complied ESP with 99.97 percent efficiency installed to control particulate matter emissions. Space provision has been kept for FGD plant. The Emission report is attached as Annexure 1. FGD construction work is under progress.		Date: 02/05/2025
4	WATER QUALITY MONITORING AND PRESERVATION	Make up water for the project should be drawn from river Ganga at rate of 9185 m3 per hr. The intake point should be in the downstream of the treated effluent discharge point in the river. The intake point should be selected in consultation with CWPRS. While designing the intake structure it should be ensured that proper care is taken to avoid trapping of dolphins and other important aquatic fauna.
<b>PPs Submission:</b> Complied Out of total make up water of 9185 m3/hr for phase- I (3X660 MW) Water is being drawn from the river Ganga for Unit 1 and Unit 2 (Presently Unit 1 and 2 is operational). The intake structures have been designed to avoid trapping of aquatic life including Dolphins. Presently no effluent is being discharged outside plant.		Date: 02/05/2025
5	WATER QUALITY MONITORING AND PRESERVATION	All effluents generated in various plant activities should be collected in the Central Effluent Plant/ Central Monitoring Basin and treated to ensure adherence to specified standards of usage.
<b>PPs Submission:</b> Complied Effluents generated is fully reused and no effluent is being discharged outside the plant.		Date: 02/05/2025
6	MISCELLANEOUS	Use of borrow earth for the project should be restricted to about 11 million cum for achieving the formation level of RL 46.2m for the plant area. The source of borrowed earth in the riverbed should be carefully identified for avoiding damage to habitats of aquatic fauna. Necessary permission for excavation of the fill material should be obtained from State Government as per legislation in vogue.
<b>PPs Submission:</b> Complied This activity has already been completed.		Date: 02/05/2025
7	MISCELLANEOUS	As the transportation of borrow earth will necessitate plying of large number of trucks to and from the project site, necessary transportation schedule should be drawn for avoiding traffic congestion on NH 31.
<b>PPs Submission:</b> Complied This activity has already been completed.		Date: 02/05/2025
8	Noise Monitoring & Prevention	Noise level should be limited to 75 dB (A) and regular maintenance of equipment be undertaken. For people working in the area of generator halls and other high noise areas of the plant personal protective equipment should be provided.
<b>PPs Submission:</b> Complied Ambient Noise level of 75 dB (A) is achieved at plant boundary through regular maintenance of equipment. People working in high noise areas are provided personal protective equipment. The Noise monitoring report is attached as Annexure 2		Date: 02/05/2025
9	AIR QUALITY MONITORING AND	For controlling fugitive dust, regular sprinkling of water in coal handling and other vulnerable areas of the plant should be ensured.

	PRESERVATION	
<b>PPs Submission:</b> Complied Regular sprinkling is being done through water tanker to control fugitive dust generated due to plant activities. Dust Suppression and Extraction System has been provisioned in coal handling area for controlling Fugitive emission. Additionally Water canon has also been provided to control fugitive dust emissions.		Date: 02/05/2025
10	Statutory compliance	With 45 percent average ash content in coal and at 80 percent PLF annual ash production should not exceed 4.5 million cum. As per MoEF Notification of September 1999, 100 percent ash utilization should be ensured within 9 years of commissioning of the plant. The use of ash disposal area accordingly should be restricted to only 1250 acres including 250 acres required for stocking.
<b>PPs Submission:</b> Complied The fly ash utilization for period of April 2024 to March, 2025 is 88.79 percent. Being complied.		Date: 02/05/2025
11	MISCELLANEOUS	The ash disposal area is proposed in Tal belt which has predominant agricultural activities. The fly ash management plan, therefore, should be so drawn as to avoid increase in fugitive dust and contamination of ground water by lining.
<b>PPs Submission:</b> Complied The fugitive emission from ash dyke is restricted by maintaining water cover in ash dyke. As per findings of geo- technical investigation of the ash disposal area, the possibility of ground water contamination is very rare. Ground water around the ash dyke is being monitored periodically for its contamination if any. Latest Ground Water Quality Around the Ash dyke is attached as Annexure 3.		Date: 02/05/2025
12	MISCELLANEOUS	Detailed socio-economic survey should be undertaken for the area proposed to be acquired for the project for preparation of Rehabilitation Plan. The plan should be got approved from District Collector and submitted to the Ministry within one year. As submitted in the EIA Report, there should be no displacement of people due to the acquisition of land.
<b>PPs Submission:</b> Complied A detailed socio-economic survey has been conducted through Xavier Institute of Social Sciences, Ranchi. Based upon the report, a detailed R and R Plan has been drawn in consultation with State Govt. and VDAC. The approved RAP has been submitted to MOEF and CC vide letter dated 23rd June, 2005. There is no displacement of people due to acquisition of land.		Date: 02/05/2025
13	GREENBELT	An area of 214 acres should be earmarked for creation of greenbelt of average width of 100 m along the plant boundary. In addition, extensive afforestation should be undertaken in vacant places available in other plant area, township and along ash pond. A norm of 1500-2000 trees per ha should be followed for afforestation programme. As discussed in the Expert Committee meeting, the green belt and the drainage channel should not be combined. A revised layout plan, therefore, should be submitted indicating separately the drainage and greenbelt. Financial requirement for afforestation activity should be worked out and included in the cost for the project. Detailed proposal in this regard should be submitted to the Ministry within 3 months.
<b>PPs Submission:</b> Complied Systematic Plantation has been through DFO, Patna. Total Green belt development done on 245 acre area of project land. Total 2,25,950 trees have been planted till March 2025).		Date: 02/05/2025
14	MISCELLANEOUS	A detailed Area Drainage Plan based on findings of the study

		undertaken by CWPRS, Pune should be prepared and submitted to the Ministry within 3 months. Special thrust should be given to avoid further flooding of Tal area due to construction of ash dyke over 1250 acres of land. Adequate financial provisions should be made for implementation of measures such as providing additional drainage, widening of existing drains, plant area protection etc.
<b>PPs Submission:</b> Complied Area Drainage Plan based on the study undertaken by CWPRS has been submitted to MOEF and CC on 11.12.2001. A copy of the said report has also been resubmitted to the regional office MOEF and CC, Ranchi vide letter dated 02.03.2019. This activity has already been completed.		Date: 02/05/2025
15	MISCELLANEOUS	The sensitive areas should be avoided for borrow earth and a detailed scheme of work including transportation component should be worked out and submitted to the Ministry before actually initiating excavation of borrow earth. The conditions of environmental clearance should be reflected in contractual negotiations and should be strictly monitored during the entire period.
<b>PPs Submission:</b> Complied This activity has already been completed.		Date: 02/05/2025
16	LAND RECLAMATION	NTPC should confirm after in depth study of Tal area in consultation with recognized institutions, that it will not destroy the micro-habitat of migratory birds.
<b>PPs Submission:</b> Complied A study report on migratory birds in Tal area carried by Salim Ali Center of Ornithology has been submitted to MoEF and CC on 11th Sep., 2003. A copy of the said report has been resubmitted to the regional office, MoEF and CC, Ranchi vide letter dated 02.03.2019.		Date: 02/05/2025
17	WATER QUALITY MONITORING AND PRESERVATION	The turbidity in river Ganga should not increase above the existing level due to discharge of treated effluents from the project and that NTPC should adhere to stipulated standards of treated wastewater discharge for Thermal Power Plants.
<b>PPs Submission:</b> Complied Presently, no treated effluent is discharged in the Ganga River. The Report on Ganga water quality is attached as Annexure 4.		Date: 02/05/2025
18	Corporate Environmental Responsibility	NTPC should establish special Environmental Cell at site for this project for consultation on day-to-day basis during project planning and implementation of the project.
<b>PPs Submission:</b> Complied An Environmental Cell has been constituted titled Environment Management Group (EMG). The details are attached as Annexure 5.		Date: 02/05/2025
19	AIR QUALITY MONITORING AND PRESERVATION	Regular monitoring for SPM, SO <sub>2</sub> and NO <sub>x</sub> around the power plant may be carried out and records maintained. Monitoring Stations should be established in consultation with the State Pollution Control Board.
<b>PPs Submission:</b> Complied Regular monitoring of air pollutants at 04 locations (after consultation with SPCB, Bihar) in and around the plant is being carried out, and the same being submitted to Ministry. The monitoring data of the current period is enclosed at Annexure-6.		Date: 02/05/2025
20	PUBLIC HEARING	The project proponent should advertise at least in two local

		newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned, informing that the project has been accorded environmental clearance and copies of clearance letters are available with the State Pollution Control Board or Committee and may also be seen at Website of the Ministry of Environment and Forests at <a href="http://www.envfor.nic.in">http://www.envfor.nic.in</a> . The advertisement should be made within 7 days from the date of issue of the clearance letter and a copy of the same should be forwarded to the Region Office.
<b>PPs Submission:</b> Complied Advertisement as per the requirement has been published. This activity has already been completed.		Date: 02/05/2025
21	MISCELLANEOUS	A monitoring committee should be constituted for reviewing the compliance of various safeguard measures by involving recognized local NGOs, Pollution Control Board, Institutions, Experts etc.
<b>PPs Submission:</b> Complied State Pollution Control Board officials visited plant premises with other experts.		Date: 02/05/2025
22	MISCELLANEOUS	The Project Authorities should inform the Region Office as well as the Ministry the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work
<b>PPs Submission:</b> Complied Final approval of the project and date of start of land development work has been intimated to regional office and Ministry.		Date: 02/05/2025
23	MISCELLANEOUS	Full cooperation should be extended to the Scientists / Officers from the Regional Office of the Ministry at Bhubaneswar the CPCB / the SPCB who would be monitoring the compliance of environmental status. Complete set of impact assessment report and the Management Plans should be forwarded to the Regional Office for their use during monitoring.
<b>PPs Submission:</b> Complied Full cooperation is being extended to the Scientists / Officers from the Regional Office of the Ministry and State Pollution Control Board.		Date: 02/05/2025
24	MISCELLANEOUS	The Ministry reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry.
<b>PPs Submission:</b> Complied All EC conditions are being complied		Date: 02/05/2025
25	MISCELLANEOUS	In case of any deviation or alteration in the project proposed from those submitted to this Ministry for clearance, a fresh reference should be made to the Ministry to assess the adequacy of the conditions imposed and to add additional environmental protection measures, if any.
<b>PPs Submission:</b> Complied Shall be complied if any deviation or alteration in the project is proposed.		Date: 02/05/2025
26	Statutory compliance	The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment

		(Protection) Act, 1986, Hazardous Wastes (Management and Handling) Rules, 1989, the Public Liability Insurance Act, 1991, the Impact Assessment Notification of January, 1994 and its amendments.
<b>PPs Submission:</b> Complied Agreed		Date: 02/05/2025
<div style="text-align: center;"><b>Visit Remarks</b></div>		
<b>Last Site Visit Report Date:</b>		N/A
<b>Additional Remarks:</b>		
<p><b>Note:</b> This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.</p>		