Half Yearly Compliance Report
2026
01 Dec(01 Apr - 30 Sep)

Acknowledgement

Proposal Name	2x660 MW Barh Super Thermal Power Project (Stage-II), District Patna, Bihar by M/s NTPC Ltd
Name of Entity / Corporate Office	NTPC Barh
Village(s)	BARIARPUR
District	PATNA

Proposal No.	IA/BR/THE/11809/2007
Plot / Survey / Khasra No.	
State	BIHAR
MoEF File No.	No:J- 13011/29 / 2007-IA II(T)

Category	Thermal Projects
Sub-District	Pandarak
Entity's PAN	*****0255D
Entity name as per PAN	NTPC LIMITED

Compliance Reporting Details

Reporting Year	2026
Remarks (if any)	EC compliance report for the period of 1st April, 2026 to 30 September 2026
Reporting Period	01 Dec(01 Apr - 30 Sep)

Details of Production and Project Area

Name of Entity / Corporate Office NTPC Barh

	Project Area as per EC Granted	Actual Project Area in Possession
Private	1260.59	1245.29
Revenue Land	34.398	34.398
Forest	0	0
Others	0	0
Total	1294.9879999999998	1279.6879999999999

Others Area

Sr. no	Other Name	Area Granted	Area Actual

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Electricity	MW	20/04/2028	1320 (2X660 MW)	3538.40	660 (Unit 5)
2	Electricity	MW	05/11/2028	1980 (3X660 MW)	4516.22	660 (Unit 4)

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	LAND RECLAMATION	The Land requirement for Phase-I and Phase- II put together shall be restricted to 3200 acres. No additional land shall be acquired for the project or any utilities/facilities relating to the project.

PPs Submission: Complied Total land requirement for the project is restricted to 3200 acres.	Date: 10/11/2026

2	AIR QUALITY MONITORING AND PRESERVATION	24X7 online continuous monitoring system for ambient air quality parameters SOx, NOx and PM shall be established with connected server to CPCB and SPCB

PPs Submission: Complied Three nos. of Continuous Ambient Air Quality Stations have been installed for monitoring of PM10, PM2.5, SOx and NOx. The data is being connected to CPCB server.	Date: 10/11/2026

General Conditions

Sr.No.	Condition Type	Condition Details
1	MISCELLANEOUS	Coal with ash content not exceeding 42 percent and sulfur content not exceeding 0.5 percent shall be used.

PPs Submission: Being Complied Being complied.	Date: 10/11/2026

2	AIR QUALITY MONITORING AND PRESERVATION	Space provision shall be made for installation of FGD of requisite efficiency of removal of SO2, if required at a laterstage.

PPs Submission: Complied Space provision was kept for FGD plant. The FGD installation work in progress.	Date: 10/11/2026

3	AIR QUALITY MONITORING AND PRESERVATION	A bi-flue stack of 275 m height with exit velocity of at least 23 m/s shall be provided with continuous online monitoring system.

PPs Submission: Complied A bi flue stack of 275 m has been constructed and the online continuous stack monitoring system has been commissioned. The Flue Gas monitoring data of is enclosed at Annexure-1.	Date: 10/11/2026

4	AIR QUALITY	High efficiency Electrostatic Precipitator (ESPs) shall be installed

	MONITORING AND PRESERVATION	so as to ensure that particulate emissions do not exceed 100mg/Nm3.

PPs Submission: Complied ESP with 99.97 percent efficiency is being operative and particulate emissions limits are being complied. The stack emission monitoring report is attached as Annexure- 1.	Date: 10/11/2026

5	WATER QUALITY MONITORING AND PRESERVATION	Closed Cycle Cooling system with cooling towers shall be provided. COC of at least 4 shall be adopted.

PPs Submission: Being Complied Closed Cycle Cooling system is being operative as stipulated and presently COC being maintained above 4.	Date: 10/11/2026

6	WATER QUALITY MONITORING AND PRESERVATION	Treated effluents conforming to the prescribed standards shall only be discharged into the Ganga river.

PPs Submission: Complied No treated effluent is discharged outside. Report of treated effluent which is reused in plant activities is attached as Annexure-2	Date: 10/11/2026

7	WATER QUALITY MONITORING AND PRESERVATION	Rainwater harvesting should be adopted. Central Ground Water Authority/ Board shall be consulted for finalization of appropriate rainwater harvesting technology within a period of three months from the date of clearance.

PPs Submission: Complied The matter has been taken up with Central Ground Water Board. A pilot project on service building has been recommended by Central Ground Water Authority. Pilot Rainwater harvesting structure for ground water recharging has been constructed. Further a Study has been done by IIT Guwahti. As per the report, the ground water level in the area is very high, so ground water recharging structures are not recommended although the surface storage of rainwater is recommended. Surface storage of rainwater and its utilization is being done through contingent arrangement.	Date: 10/11/2026

8	WASTE MANAGEMENT	100 percent Fly ash shall be collected in dry form and its full utilization shall be achieved within 9 years in accordance with the notification on fly ash utilization SO 763 (E) dated 14th September, 1999 and the amendments made therein from time to time.

PPs Submission: Complied 100 percent ash utilization as per notification of MoEF CC is being ensured. The fly ash utilization for period of April 2026 to Sept, 2026 is 72.4 percent.	Date: 10/11/2026

9	WASTE MANAGEMENT	The ash dyke shall be so designed and constructed so as to ensure that breaching of ash dyke does not take place.

PPs Submission: Being Complied The aspect has been taken care in design aspect of ash dyke.	Date: 10/11/2026

10	Risk Mitigation and Disaster Management	A disaster management plan shall be prepared to meet any eventuality of ash dyke getting breached. A copy of the same shall be submitted to the Ministry and its Regional Office at Bhubaneswar.

PPs Submission: Complied Disaster management plan of NTPC, Barh (including ash dyke breach management) has already been submitted to the regional office, MoEF CC, Ranchi dated 02.03.2019. The Copy of revised Disaster Management Plan is submitted on 18.04.2023.	Date: 10/11/2026

11	WATER QUALITY MONITORING AND PRESERVATION	Regular monitoring of groundwater around the ash pond shall be carried out. The location of the monitoring network and size of piezometer shall be decided in consultation with Central Ground Water Authority / State Ground Water Board.

PPs Submission: Complied Regular monitoring of groundwater at three locations around the ash pond is being carried out. Piezometers have been installed and are in operation. The ground water quality around the ash dyke is attached as Annexure -3.	Date: 10/11/2026

12	Noise Monitoring & Prevention	Noise levels shall be limited to 75 dB (A). For people working in the high noise area, protective devices such as earplugs etc. shall be provided.

PPs Submission: Complied Ambient Noise level of 75 dB (A) has been maintained at plant boundary through regular maintenance of equipment. People working in high noise areas have been provided with personal protective equipment. The Noise monitoring is attached as Annexure-4.	Date: 10/11/2026

13	GREENBELT	A green belt of at least 100 m width all around the periphery of the project shall be developed. Besides this, the green belt in the north-east side of the plant area, around the coal stock yard, shall be at least 180 m in width so as to contain the fugitive emission from reaching the neighbouring villages.

PPs Submission: Complied Green belt as stipulated is being developed around the project. As on 30 Sept, 2026 a total of 2,36,220 trees have been planted.	Date: 10/11/2026

14	AIR QUALITY MONITORING AND PRESERVATION	Regular monitoring of the air quality shall be carried out in and around the power plant and records shall be maintained. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with State Pollution Control Board. Six monthly reports shall be submitted to this Ministry.

PPs Submission: 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 Report of the current period is enclosed at Annexure-5.	Date: 10/11/2026

15	AIR QUALITY MONITORING AND PRESERVATION	For controlling fugitive dust, regular sprinkling of water in vulnerable areas on the plant shall be ensured.

PPs Submission: Complied Regular sprinkling is being done through water tanker to control fugitive dust generation. Dust Suppression and Extraction System, water sprinkling system and fog canon has been provisioned in coal handling area for controlling Fugitive emission.	Date: 10/11/2026

16	PUBLIC HEARING	The project proponent should advertise at least in two local newspapers widely circulated in the region around the project, one of which should be in the vernacular language of the locality concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letters are available with the State Pollution Control Board/Committee and may also be seen in the website of the ministry of Environment and Forests in the http://envfor.nic.in.

PPs Submission: Complied Complied: Hindustan Times and Dainik Bhaskar dated:-02.11.2007	Date:

			10/11/2026
17	MISCELLANEOUS	A separate environment monitoring cell with suitable qualified staff should be set up for implementation of the stipulated environmental safeguards.	
PPs Submission: Complied An Environmental Cell has been established at the site titled Environment Management Group. Ref Annexure -6			Date: 10/11/2026
18	Statutory compliance	Half yearly report on the status of implementation of the conditions and environmental safeguards should be submitted stipulated to this Ministry, the Regional Office, CPCB and SPCB,	
PPs Submission: Complied Half yearly report on the status of implementation of the conditions and environmental safeguards is being submitted regularly to the Ministry, the Regional Office of MoEF CC.			Date: 10/11/2026
19	MISCELLANEOUS	Regional Office of the Ministry of Environment and Forests located at Bhubaneswar will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report, Environment Management Plan and the additional information/clarifications submitted subsequently of the Ministry shall be forwarded to the Regional Office for their use during monitoring.	
PPs Submission: Complied A complete set of Stipulated document have been resubmitted to the regional office MoEF CC, Ranchi vide letter dated 02.03.2019.			Date: 10/11/2026
20	MISCELLANEOUS	Separate funds should be allocated for implementation of environmental protection measures along with item-wise break-up. These cost should be included as part of the project cost. The funds earmarked for the environment protection measures should notbe diverted for other purposed and year- wise expenditure should be reported to the Ministry.	
PPs Submission: Complied Details of fund expenditure on environment protection with breakup are attached as Annexure 9.			Date: 10/11/2026
21	MISCELLANEOUS	Full cooperation should be extended to the scientists/officers from the ministry and its regional office at Bhubaneswar e CPCB/ the SPCB during monitoring of the project.	
PPs Submission: Being Complied Shall be complied with			Date: 10/11/2026
22	Statutory compliance	The Ministry reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry.	
PPs Submission: Being Complied Noted			Date: 10/11/2026
23	Statutory compliance	The environmental clearance accorded shall be valid for a period of 5 years to the start of production operations by the power plant.	

PPs Submission: Complied Noted		Date: 10/11/2026
24	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 condition(s) imposed and to add additional environmental protection measures required, if any.
PPs Submission: Complied Noted		Date: 10/11/2026
25	Statutory compliance	The above stipulations would be enforce 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 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the Public Liability Insurance Act, 1991 and its amendments.
PPs Submission: Being Complied Noted		Date: 10/11/2026
26	MISCELLANEOUS	Compliance with the condition stipulated in amendment of Environmental clearance of Stage- II (2x660MW) vide letter dated 08.04.2013
PPs Submission: Being Complied Complied		Date: 10/11/2026
27	WASTE MANAGEMENT	Fly ash shall not be used for the agricultural purpose. No mine void filling will be undertaken as an option for ash utilization without adequate lining of mine with suitable media such that no leachate shall take place at any point of time. In case the option of mine void filling is to be adopted prior detailed study of soil characteristics of the mine area shall be undertaken from an institute of repute and adequate clay lining shall be ascertained by the State Control Board and Implementation done in close coordination with the State Pollution Control Board.
PPs Submission: Complied As stipulated, the fly ash generated from the plant is being utilized by cement manufacturing and Brick manufacturing Industries. it is also being utilized in Road Construction works. Further, fly ash is not being used in agriculture and for mine void filling.		Date: 10/11/2026
28	WASTE MANAGEMENT	Utilization of 100 percent fly ash generated shall be made from 4th year of operation. Status of implementation shall be reported to the regional office of the ministry of time to time.
PPs Submission: Being Complied The fly ash utilization for period of April 2026 to Sept, 2026 is 72.4 percent		Date: 10/11/2026
29	MISCELLANEOUS	A long term of study of Radio activity and heavy metal contents on coal to be used shall be carried out through a reputed institute. There after mechanism for a regular periodic monitoring for radio activity and heavy metals in coal and fly ash (Including bottom ash) shall be put in place

	PPs Submission: Complied The radioactivity study in coal and ash was carried out by Board of Radiation and Isotope Technology BRIT in June 2024. All the parameters are within the specified range. Copy of the Report is attached as Annexure 7. The heavy metal analysis is done in coal, fly ash and bottom ash. Copy of the Report is attached as Annexure 7.	Date: 10/11/2026
30	WATER QUALITY MONITORING AND PRESERVATION	Continuous Monitoring for heavy metals in and around the existing ash pond area shall be immediately carried out by reputed institute like IIT.
	PPs Submission: Complied Periodic Monitoring for heavy metals (such as As, Cu,Cr, Cd, Pb, Zn etc) in and around ash pond area is being carried out at 3 locations, with a periodicity of 3 months. The ground water quality around the ash dyke is attached as Annexure -3.	Date: 10/11/2026
31	WASTE MANAGEMENT	Fugitive emission of fly ash (Dry or Wet) shall be strictly controlled so that no agriculture or non-agricultural land is affected. Damage to any land, if any shall be mitigated and suitable compensation provided in consultation with the local panchayat.
	PPs Submission: Complied Regular sprinkling is being done to control fugitive emissions of fly ash. No such damage of agriculture/non agriculture area have been reported.	Date: 10/11/2026

Visit Remarks

Last Site Visit Report Date:	N/A
Additional Remarks:	

Note: 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.