



परिवेश
PARIVESH
(CPC GREEN)

पयविरण, वन और जलवायु परिवर्तन मंत्रालय

Ministry of Environment, Forest and Climate Change



Back

View Half Yearly Compliance Report at Project Proponent

Proposal Details

Proposal No

IA/BR/THE/11809/2007

Category

Thermal Projects

Name of Project

2x660 MW Barh Super Thermal Power Project (Stage-II), District Patna, Bihar by M/s NTPC Ltd

Plot / Survey/ Khasra No.

Village(s)

BARIARPUR

Sub-District(s)

Pandarak

State

BIHAR

District

PATNA

MoEF File No

No:J- 13011/29 / 2007-IA II(T)

**Name of the Entity/
Corporate Office**

NTPC Barh

Entity's PAN

*****0255D

Entity Name as per PAN

NTPC LIMITED

Entity details mentioned above is correct ?

Agree

Covering Letter

Covering Letter[Click to View](#)**Compliance Reporting Details****Reporting Year**

2025

Reporting Period

01 Jun(01 Oct - 31 Mar)

Remark(if any)

EC compliance report for the period of 1st Oct, 2024 to 31st March 2025

Details of Production and Project Area**Date of Commencement of Project/Activity**

	Project Area as per EC Granted(ha.)	Actual Project Area in Possession(ha.)
Private	1294.99	1245.22
Revenue Land	0	40.8
Forest	0	0
Others	0	0
Total	1294.99	1286.02

Land Documents

NA

Sr.No.	Name of the Product	Units	As per EC Granted	As per CTO Granted	CTO ID	Valid Up To	Production during last financial year
1	Electricity	MW	St- 2 (2X660 MW)	Unit 4 (660 MW)	2271 and 2272	05-11- 2028	4698.89
2	Electricity	MW	St- 2 (2X660 MW)	Unit 5 (660 MW)	667 and 668	20-04- 2028	4596.32

Conditions**Specific Conditions**

Sr.No.	Condition Heading	Condition Details	Status of Compliance,Remarks / Reason and Supporting Documents
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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	Total land requirement for the project is restricted to 3200 acres. Complied 06-05-2025 Attachment:NA
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	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 and SPCB server. Complied 06-05-2025 Attachment:NA

General Conditions

Sr.No.	Condition Heading	Condition Details	Status of Compliance,Remarks / Reason and Supporting Documents
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. The Ash content for the period is 40.17 percent and Sulphur content is 0.40 percent Complied 06-05-2025 Attachment:NA

2	AIR QUALITY MONITORING AND PRESERVATION	Space provision shall be made for installation of FGD of requisite efficiency of removal of SO ₂ , if required at a laterstage.	PPs Submission	Space provision was kept for FGD plant. The FGD installation work in progress. Complied 06-05-2025 Attachment:NA
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	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. Complied 06-05-2025 Attachment: Click to View
4	AIR QUALITY MONITORING AND PRESERVATION	High efficiency Electrostatic Precipitator (ESPs) shall be installed so as to ensure that particulate emissions do not exceed 100mg/Nm ³ .	PPs Submission	ESP with 99.9 percent efficiency is being operative and particulate emissions limits are being complied. The stack emission monitoring report is attached as Annexure- 1. Complied 06-05-2025 Attachment: Click to View
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	Closed Cycle Cooling system has been commissioned as stipulated and COC is being maintained above 4.

				Complied 06-05-2025 Attachment:NA
6	WATER QUALITY MONITORING AND PRESERVATION	Treated effluents conforming to the prescribed standards shall only be discharged into the Ganga river.	PPs Submission	No treated effluent is discharged outside. Report of treated effluent which is reused in plant activities is attached as Annexure-2 Complied 06-05-2025 Attachment: Click to View
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	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. A Study has been done by IIT Guwahti. As per the report, the ground water level 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. Complied 06-05-2025 Attachment:NA
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	100 percent ash utilization as per notification of MoEF and CC is being ensured. The fly ash utilization for period of April 2024 to March, 2025 is 88.79 percent. The ACR report for the FY 2024-25 is attached. Complied 06-05-2025 Attachment: Click to View
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	The aspect has been taken care in design aspect of ash dyke. Complied 06-05-2025 Attachment:NA
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	Disaster management plan of NTPC, Barh (including ash dyke breach management) has already been submitted to the regional office, MoEF and CC, Ranchi dated 02.03.2019. The Copy of revised Disaster Management Plan is submitted on 18.04.2023.

				Complied 06-05-2025 Attachment:NA
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	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. Complied 06-05-2025 Attachment: Click to View
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	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. Complied 06-05-2025 Attachment: Click to View
13	GREENBELT	A green belt of at least 100 m width all around the periphery of the project shall be developed. Besides this,	PPs Submission	Green belt as stipulated is being developed around the

		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.		project. (As on 31st March, 2025 a total of 2,25,950 trees have been planted) Complied 06-05-2025 Attachment:NA
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	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 Ambient air quality monitoring data Report is enclosed at Annexure-5. Complied 06-05-2025 Attachment: Click to View
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	Regular sprinkling is being done through water tanker to control fugitive dust generation. Dust Suppression and Extraction System has been provisioned in coal handling area for controlling Fugitive emission. Complied 06-05-2025 Attachment:NA

16	PUBLIC HEARING	<p>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.</p>	<table border="1"> <tr> <td data-bbox="869 82 1102 376">PPs Submission</td> <td data-bbox="1102 82 1335 376"> Complied: Hindustan Times and Dainik Bhaskar (dated:-02.11.2007) Complied 06-05-2025 Attachment:NA </td> </tr> </table>	PPs Submission	Complied: Hindustan Times and Dainik Bhaskar (dated:-02.11.2007) Complied 06-05-2025 Attachment:NA
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17	MISCELLANEOUS	<p>A separate environment monitoring cell with suitable qualified staff should be set up for implementation of the stipulated environmental safeguards.</p>	<table border="1"> <tr> <td data-bbox="869 978 1102 1487">PPs Submission</td> <td data-bbox="1102 978 1335 1487"> An Environmental Cell has been established at the site titled Environment Management Group (EMG). Ref Annexure -6. Complied 06-05-2025 Attachment: Click to View </td> </tr> </table>	PPs Submission	An Environmental Cell has been established at the site titled Environment Management Group (EMG). Ref Annexure -6. Complied 06-05-2025 Attachment: Click to View
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18	Statutory compliance	<p>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,</p>	<table border="1"> <tr> <td data-bbox="869 1550 1102 2148">PPs Submission</td> <td data-bbox="1102 1550 1335 2148"> 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 and CC. The last report submitted on 06.11.2024. Complied </td> </tr> </table>	PPs Submission	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 and CC. The last report submitted on 06.11.2024. Complied
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				06-05-2025 Attachment:NA
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	A complete set of Stipulated document have been resubmitted to the regional office MoEF and CC, Ranchi vide letter dated 02.03.2019. Complied 06-05-2025 Attachment:NA
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	It has been done and the details have been resubmitted to the Regional office MoEF and CC, Ranchi vide letter dated 02.03.2019. Complied 06-05-2025 Attachment:NA
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	Shall be complied with Complied 06-05-2025 Attachment:NA

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	Agreed Complied 06-05-2025 Attachment:NA
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	Agreed Complied 06-05-2025 Attachment:NA
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	Shall be complied with Complied 06-05-2025 Attachment:NA
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	Agreed Complied 06-05-2025 Attachment:NA
26	MISCELLANEOUS	Compliance with the condition stipulated in amendment of Environmental clearance of Stage- II (2x660MW) vide letter dated 08.04.2013	PPs Submission	Complied Complied 06-05-2025 Attachment:NA

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	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. Complied 06-05-2025 Attachment:NA
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	The fly ash utilization for period of April 2024 to March, 2025 is 88.79 percent. Complied 06-05-2025 Attachment:NA
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	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. The heavy metal analysis is done in coal, fly ash and bottom ash. Copy of the Report is

				attached as Annexure 7. Complied 06-05-2025 Attachment: Click to View
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	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. Complied 06-05-2025 Attachment: Click to View
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	Regular sprinkling is being done to control fugitive emissions of fly ash. No such damage of agriculture/non agriculture area have been reported. Complied 06-05-2025 Attachment:NA

Document uploaded by the PP

Last Site Visit Report (if available)

NA

Last Site Visit Report Date (if available)

Additional Attachment (if any)

NA

Additional Remarks (if any)

- I 'NTPC Barh' hereby give undertaking that the data and information given in the filed compliance and enclosures are true to be best of my knowledge and belief and I am aware that if any part of the data and information found to be false or misleading at any stage, the clearance given to the project will be revoked at our risk and cost. In addition to above, I hereby give undertaking that no activity such as change in project layout, construction, expansion, etc. has been taken up without due approval.

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