

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

Acknowledgement

Proposal Name	NTPC Ltd., Sipat Super Thermal Power Station (Stage-II, 2 x 500 MW)		
Name of Entity / Corporate Office	NTPC Ltd.,		
Village(s)	N/A		
District	BILASPUR		
Proposal No.	J-13011/5/2002.IA-II(T)	Category	Thermal Projects
Plot / Survey / Khasra No.	N/A	Sub-District	N/A
State	CHHATTISGARH	Entity's PAN	*****0255D
MoEF File No.	J-13011/5/2002.IA-II(T)	Entity name as per PAN	NTPC LIMITED

Compliance Reporting Details

Reporting Year 2025

Remarks (if any) Compliance of EC Stage-II, letter dated 08.06.2004.

Reporting Period 01 Jun(01 Oct - 31 Mar)

Details of Production and Project Area

Name of Entity / Corporate Office NTPC Ltd.,

	Project Area as per EC Granted	Actual Project Area in Possession
Private	0	938.51
Revenue Land	0	801.22
Forest	0	28.47
Others	1773.51	0
Total	1773.51	1768.2

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Electricity	MW	30/04/2026	1000	7895.26 MU	1000

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
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1	MISCELLANEOUS	3 (ii) Utilization of land for Stages I & II of the project shall be restricted to 4382.44 acres, which is already in possession of the project authorities. 70 acres of additional land will be acquired by M/s. NTPC for ash based units.
PPs Submission: Complied All steps had been taken to restrict the land for Stage-I and II of Sipat STPP to 4382.44 acres. NTPC pursued with district administration for acquisition of 70 acres of land but could not get. Subsequently, EC exemption was put up before Ministry. MoEF and CC issued EC amendment on 24.12.2021 with stipulation that Afforestation through Miyawaki technique shall be carried out in 10 acres of land in Bilaspur district, preferably within 10 km from plant boundary. Land identified at Bhilmi Village which is approx. 10 kms away from Sipat plant. 32,000 No.s of saplings have been planted through Miyawaki technique. Total project cost for plantation and maintenance for up to two years is INR 853 lakh. Plantation Work is completed in March 2024.		Date: 13/05/2025
2	AIR QUALITY MONITORING AND PRESERVATION	3 (iii) A twin flue stack of 275 m height shall be provided with continuous on-line monitoring equipment, and the data collected should be analyzed and submitted regularly.
PPs Submission: Complied A twin flue stack of 275 m height with continuous on-line monitoring equipment is provided. Online monitoring is continuous, and data is accessible to CPCB and State PCB. Records are being maintained.		Date: 13/05/2025
3	AIR QUALITY MONITORING AND PRESERVATION	3 (iv) High efficiency Electrostatic Precipitator (ESP) having efficiency of 99.8% should be installed to limit outlet SPM emission of 100 mg/Nm ³ .
PPs Submission: Complied High efficiency Electrostatic Precipitator (ESP) having efficiency of 99.9 percentage has been installed to limit outlet SPM emission within 50 mg/Nm ³		Date: 13/05/2025
4	MISCELLANEOUS	3 (v) Coal will be sourced from the nearby Deepika (Extension) mine block of Korba coalfields, located at a distance of about 40 km. The coal will be transported from the mine by captive MGR rakes. The annual requirement of coal will be 760 T/hr @ 100% PLF.
PPs Submission: Complied Coal is sourced from Dipka mines of SECL. The coal is transported from mine end to Power Station by NTPC owned rakes through captive MGR. Coal consumption FY 2024-25 for stage - II Units is within the stipulated quantity.		Date: 13/05/2025
5	WATER QUALITY MONITORING AND PRESERVATION	3 (vii) Re-circulating type cooling water system with cooling towers shall be provided. Water requirement shall be met from the Right Bank Canal of Hasdeo barrage.
PPs Submission: Complied Cooling water system is designed with induced draught Cooling Towers. Make up water is taken from Hasdeo Right Bank canal.		Date: 13/05/2025
6	Statutory compliance	3 (ix) Ash generated to the tune of 2.15 million tones per year shall be used in a phased manner as per the provisions of the Fly Ash Utilization Notification of September, 1999 and its subsequent amendments. By the end of ninth year, full fly ash utilization should be ensured. The cost of ash utilization measures proposed in the total project cost should be intimated.
PPs Submission: Complied Fly ash is supplied to fly ash brick industries, Cement Industries. Pond ash is supplied in NHAI highway projects, Low lying area development. NTPC Sipat is also carrying out backfilling of		Date: 13/05/2025

Manikpur, Bishrampur and Dugga mine voids Fly ash utilization is being complied as per MoEF and CC notification dated 31.12.2021 and its amendment 30.12.2022. Ash Utilization 101.26 in 20223-24 and 102.13 percentage in FY 2024-25 achieved.		
7	MISCELLANEOUS	3 (x) A study on utilization of ash for soil enrichment to be got done by Agricultural University with the terms of Reference approved by the Indian Council of Agricultural Research. (To be done within two months of grant of environmental clearance.)
PPs Submission: Complied Agricultural related studies and applications have been carried out by fly ash mission, Technology Information, Forecasting and assessment council (TIFAC). TIFAC is an autonomous institution under the Ministry of Science and Technology, Govt of India. For recommendations to the farmers of the nearby villages of Sipat site, study on use of fly ash in Agriculture has been completed by TCB college of Agriculture, Bilaspur (under Indira Gandhi Agriculture University, Raipur)		Date: 13/05/2025
8	WATER QUALITY MONITORING AND PRESERVATION	3 (xi) Rainwater harvesting should be adopted and plan be submitted to MOEF after approval from Central Ground Water Board (CGWB) within three months of environmental clearance.
PPs Submission: Complied Ground water table in the project area is shallow, hence recharge to ground water is not feasible. NOC issued by Central Ground Water Authority; Ministry of Water Resources (Govt. of India) vide letter No 32-5/CGWA/RWH/OTH/08-905 dated 30.06.2008. Subsequently, a study Rainwater harvesting potential assessment and design of Rainwater harvesting structure was conducted through National Institute of Hydrology Roorkee, in 2022-23 wherein ground water table in plant area is observed up to 4 meter below ground level. Hence, recharge to ground water is not feasible. However, NTPC Sipat has installed four RWH facility to capture surface run off in plant area. Harvested water is used as make up cooling water. A Ground water recharge pond is made in township where storm water is channelized.		Date: 24/05/2025
9	MISCELLANEOUS	3 (xii) Details of the plan to develop ash utilizing industrial units in the 70 acre plot proposed by the project proponent should be worked out in consultation with the State Government and the draft plan in this regard should be submitted to MOEF within 6 months of environmental clearance. 70 acres of land will only be utilized for setting up ash based industries.
PPs Submission: Complied NTPC pursued with district administration for acquisition of 70 acres of land but could not get. Subsequently, an EC exemption was put up before Ministry. MoEF and CC issued EC amendment on 24.12.2021 with stipulation that Afforestation through Miyawaki technique shall be carried out in 10 acres of land in Bilaspur district, preferably within 10 km from plant boundary. Land was identified at Bhilmi Village. 32,000 numbers of saplings have been planted through Miyawaki technique and is under maintenance. Total project cost for plantation and maintenance up to two years is INR 853 lakh.		Date: 13/05/2025
10	MISCELLANEOUS	3 (xiii) If any displacement/rehabilitation is involved while acquiring 70 acres of additional land for ash based units, R&R policy should be prepared. If the R & R policy of the State Govt. regulations is more stringent, the same will be followed. Issues such as affected families, self-employment etc. may be worked out in consultation with State Govt. and village development advisory committee and local people.
PPs Submission: Complied EC exemption issued for acquisition of 70 acres of land vide EC amendment letter dated 24.12.2021. Hence, condition gets obsolete.		Date: 13/05/2025
11	AIR QUALITY	3 (xiv) Ambient air quality data monitoring stations should be set

	MONITORING AND PRESERVATION	up at the boundary of Sonthi Reserved Forest before the commissioning of the project.
PPs Submission: Complied Ambient air quality monitoring at Sonthi Pahar Reserve Forest is continued since inception of the project. Records are being maintained.		Date: 13/05/2025
12	WATER QUALITY MONITORING AND PRESERVATION	3 (xv) Water requirement for Stage II of the project should not exceed 3480 m ³ /hr with ash water recirculation system.
PPs Submission: Complied Water requirement for Stage-II is within the stipulated limits. Ash Water Recirculation System is in place.		Date: 13/05/2025
13	Noise Monitoring & Prevention	3 (xvi) Noise level should be limited to 75 Leq and regular maintenance of equipment is undertaken. For people working in the area of generator and other high noise area, earplug should be provided.
PPs Submission: Complied Regular maintenance of equipment will be undertaken for limiting the noise level to 75 Leq. at the plant boundary. Ear plug/ Earmuffs are provided to people working in the high noise area.		Date: 13/05/2025
14	GREENBELT	3 (xvii) A green belt covering a minimum area of 215 acres for the stages I & II of the project shall be developed. The green belt shall have a density of 1500-2000 trees per ha. Necessary financial provision shall be made in the budget for the purpose.
PPs Submission: Complied Greenbelt area is more than 215 acres. So far more than 4.6 lakhs trees have been planted in the green belt area which includes plant boundary, Ash dyke, along MGR and Make up water pump house.		Date: 13/05/2025
15	AIR QUALITY MONITORING AND PRESERVATION	3 (xviii) Continuous monitoring of ambient air quality shall be undertaken for a period of one year at the same locations where it was monitored for the EIA report subsequent to commencement of work for Stage - I, and data furnished to the Ministry.
PPs Submission: Complied Complied		Date: 13/05/2025
General Conditions		
Sr.No.	Condition Type	Condition Details
1	MISCELLANEOUS	3 (i) All conditions stipulated by Chhattisgarh Environment Conservation Board vide their letter no. 87/TS/CECB/2004 dated 06.01.2004 should be strictly implemented.
PPs Submission: Complied All the condition stipulated by CECB have been implemented.		Date: 13/05/2025
2	MISCELLANEOUS	3 (vi) Space should be provided for retrofitting of Flue Gas Desulphurization (FGD) Unit, if required in future.
PPs Submission: Complied		Date:

Space is already available for retrofitting of flue Gas Desulphurization (FGD) unit. Civil construction and mechanical equipment erection works for FGD installation are in progress.		13/05/2025
3	WATER QUALITY MONITORING AND PRESERVATION	3 (viii) Efforts shall be made to maximize the recycling/reuse of effluents. Parts of treated wastewater conforming to prescribed standards shall be used for greenbelt development.
PPs Submission: Complied The effluent treatment schemes have been designed to optimize, recycle and reuse of all the treated wastewater. Process waste water is treated in ETP and used in process. STP treated water is used in horticulture. Concept of ZLD is complied. No effluent is discharged from Plant.		Date: 13/05/2025
4	AIR QUALITY MONITORING AND PRESERVATION	3 (xix) For controlling fugitive dust, regular sprinkling of water in vulnerable areas of the plant should be ensured.
5	AIR QUALITY MONITORING AND PRESERVATION	3 (xx) Regular monitoring of the air quality should be carried out in and around the power plant and records be maintained. Periodic six-monthly reports should be submitted to this Ministry.
PPs Submission: Complied Ambient air quality is monitored continuously through CAAQMS installed in plant premises and manual monitoring outside the plant. Reports are submitted to Ministry, CPCB and CECB as well. Six monthly report is submitted at PARIVESH 2.0 portal. Ambient Air Quality and other monitoring reports are submitted in Annexure.		Date: 13/05/2025
6	MISCELLANEOUS	3 (xxi) 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, 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 at Website of the Ministry of Environment and forests at http://envfor.nic.in .
PPs Submission: Complied Information about Environmental Clearance was made available through a press release. Advertisement also issued in two local newspapers.		Date: 13/05/2025
7	MISCELLANEOUS	3 (xxii) A separate environment monitoring cell with suitable qualified staff should be set up for implementation of the stipulated environmental safeguards.
PPs Submission: Complied A dedicated Environmental Management Group has been set up with suitable qualified and experienced executives as per the requirement.		Date: 13/05/2025
8	MISCELLANEOUS	3 (xxiii) Half-yearly report on the status of implementation of the stipulated conditions and environmental safeguards should be submitted to this Ministry/Regional Office/CPCB/ SPCB.
PPs Submission: Complied Half yearly report is submitted on the Ministrys PARIVESH 2.0 portal regularly.		Date: 13/05/2025
9	MISCELLANEOUS	3 (xxiv) Regional Office of the Ministry of Environment & Forests located at Bhopal will monitor the implementation of the stipulated conditions. Complete set of Environmental Impact Assessment Report and Environment Management plan should be forwarded to the Regional Office for their use during monitoring.

PPs Submission: Complied Submitted as per stipulation.		Date: 13/05/2025
10	MISCELLANEOUS	3 (xxv) 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 not be diverted for other purposes and year-wise expenditure should be submitted to the Ministry.
PPs Submission: Complied Separate funds had been allocated for implementation of environmental protection measures. The funds so allocated are not diverted for other purposes. Environmental protection systems are in place.		Date: 13/05/2025
11	MISCELLANEOUS	3 (xxvi) Full cooperation should be extended to the Scientists/Officers from the Ministry/Regional Office of the Ministry at Bhopal/the CPCB/the SPCB who would be monitoring the compliance of environmental status.
PPs Submission: Complied Noted.		Date: 13/05/2025
12	MISCELLANEOUS	4. The Ministry reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry.
PPs Submission: Complied Noted		Date: 13/05/2025
13	MISCELLANEOUS	5. The environmental clearance accorded shall be valid for a period of 5 years for construction/operation of the power plant. In case, if the project authorities fails to do so within this stipulated period, this environmental clearance shall stand lapsed automatically.
PPs Submission: Complied Noted		Date: 13/05/2025
14	MISCELLANEOUS	6. 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: 13/05/2025
15	Statutory compliance	7. 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 Waste (Management and handling) Rules, 1989 and its amendments, the Public Liability Insurance Act, 1991 and its amendments, the Environment Impact Assessment Notification of January, 1994 and its amendments.
PPs Submission: Complied		Date:

Noted

13/05/2025

Visit Remarks

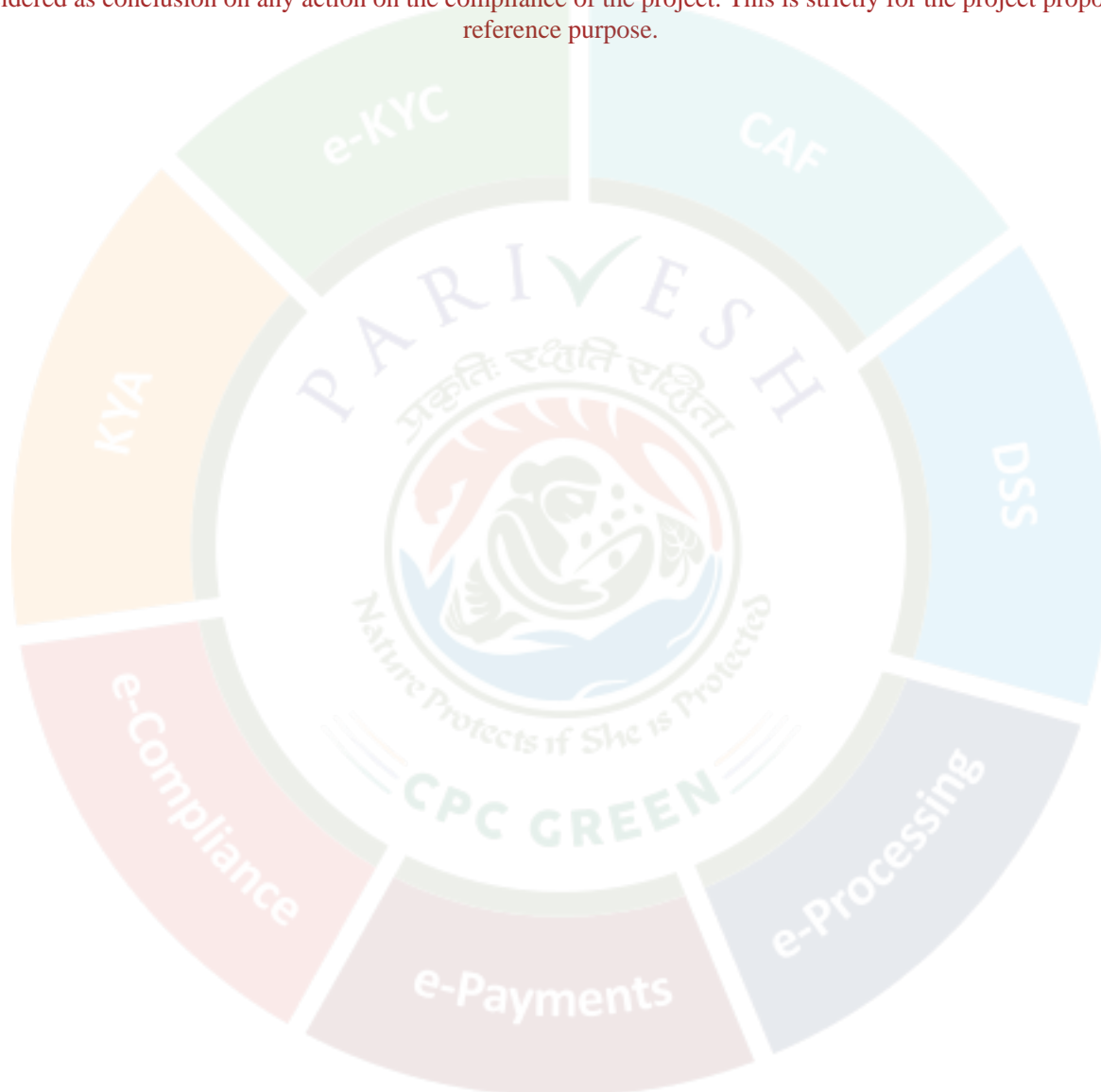
Last Site Visit Report Date:

N/A

Additional Remarks:

Status of CCR compliance as on 01.06.2024 submitted to IRO, Raipur is attached.

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.



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

Acknowledgement

Proposal Name	NTPC Ltd., Sipat Super Thermal Power Station, Stage-II (2 x 500 MW) (First Amendment)		
Name of Entity / Corporate Office	NTPC Ltd.,		
Village(s)	N/A		
District	BILASPUR		
Proposal No.	No. J-13011/05/2002-IA.II(T)	Category	Thermal Projects
Plot / Survey / Khasra No.	N/A	Sub-District	N/A
State	CHHATTISGARH	Entity's PAN	*****0255D
MoEF File No.	No.J-13011/10/1996-IA.II(T)	Entity name as per PAN	NTPC LIMITED

Compliance Reporting Details

Reporting Year	2025
Remarks (if any)	Compliance to EC conditions of stage II amendment dt 24.12.2021
Reporting Period	01 Jun(01 Oct - 31 Mar)

Details of Production and Project Area

Name of Entity / Corporate Office	NTPC Ltd.,	
	Project Area as per EC Granted	Actual Project Area in Possession
Private	0	938.51
Revenue Land	0	801.22
Forest	0	28.47
Others	1773.51	0
Total	1773.51	1768.2

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Electricity	MW	30/04/2026	1000	7895.26 MU	1000

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	MISCELLANEOUS	2021 6 (i) Fly ash utilization plan shall be adhered, and 100% Ash utilization shall be carried out strictly as per extent rules and regulations of the Ministry in this regard. Backfilling in the low-lying area shall be carried out as per the CPCB guidelines.
PPs Submission: Complied Ash utilization is being complied in pursuance to MoEF and CC notification dated 31.12.2021 and its amendment dated 30.12.2022. 101.26 percentage ash utilization is achieved in FY 2023-24. Ash utilization of 102.11 percentage has been achieved in 2024-25. NTPC Sipat is continuously trying to achieve 100 percentage utilization of ash.		Date: 13/05/2025
2	GREENBELT	2021 6 (ii) 10 acres of land shall be identified outside the project boundary in the Bilaspur district (Preferably within 10 km radius of project cover area) to carry out afforestation using Miyawaki plantation technique with more than 90% survival rate as committed by the PP vide letter No.CC:ESE:9518:2021:GEN Dated 23.11.2021.
PPs Submission: Complied Land identified at Bhilmi Village which is approx. 10 kms away from Sipat Plant. 32,000 No.s of saplings have been planted through Miyawaki technique. Work have been completed in March 2024. Total project cost for plantation and maintenance up to two years is INR 853 lakh. Copy of site photograph is attached.		Date: 13/05/2025
3	GREENBELT	2021 6 (iii) Other conditions of the EC letter dated 08.06.2004 shall remain unchanged.
PPs Submission: Complied Noted. Status of Compliance submitted separately.		Date: 13/05/2025
Visit Remarks		
Last Site Visit Report Date:		N/A
Additional Remarks:		Status of CCR compliance as on 01.06.2024 submitted to IRO, Raipur is attached.
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.		

RAIN WATER HARVESTING MEASURES AT NTPC SIPAT

Rain Water harvesting structure installed at four locations inside the plant area



RWH Structure near Cooling Tower 1B



RWH Structure near Cooling Tower 2B



RWH Structure near Cooling Tower 3B

(Water is lifted from Storm water drain and used after filtration through Gravity /pressure sand Filter)

Pressure Sand Filter
(Near Stage-I CW Foreway)



(Water is lifted from Storm water drain and used after Pressure sand Filter)



32,000 Numbers of Trees planted at Bhilmi, Bilaspur district



Plantation Progress Photographs of Bhilmi Village





