

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

**Acknowledgement**

<b>Proposal Name</b>		NTPC Ltd., Sipat Super Thermal Power Station (Stage-I, 3 x 660 MW)	
<b>Name of Entity / Corporate Office</b>		NTPC Ltd.,	
<b>Village(s)</b>		N/A	
<b>District</b>		BILASPUR	
<b>Proposal No.</b>	J.13011/10/96-IIA.II(T)	<b>Category</b>	Thermal Projects
<b>Plot / Survey / Khasra No.</b>	N/A	<b>Sub-District</b>	N/A
<b>State</b>	CHHATTISGARH	<b>Entity's PAN</b>	*****0255D
<b>MoEF File No.</b>	J.13011/10/96-IIA.II(T)	<b>Entity name as per PAN</b>	NTPC LIMITED

**Compliance Reporting Details**

<b>Reporting Year</b>	2025
<b>Remarks (if any)</b>	Compliance status of EC Stage-I letter dated 22.02.1999
<b>Reporting Period</b>	01 Jun(01 Oct - 31 Mar)

**Details of Production and Project Area**

<b>Name of Entity / Corporate Office</b>		NTPC Ltd.,	
	<b>Project Area as per EC Granted</b>	<b>Actual Project Area in Possession</b>	
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	30/11/2025	1980	14385.87 MU	1980

**Conditions**

**Specific Conditions**

Sr.No.	Condition Type	Condition Details
1	AIR QUALITY MONITORING AND PRESERVATION	(ii) Two stacks of height 275 m with two flues in each stack and continuous monitoring facility should be installed. Exit velocity should be maintained at 23.42 m/sec as the predictions have been based on the same.
<b>PPs Submission:</b> Complied Two stacks of height 275 m with two flues (Unit- I and II of Stage- I) are installed in stack no 1 and one flue for Unit-III of Stage-I is installed in stack no 2. Online Continuous Monitoring System CEMS is installed in all three units of Stage1. Minimum Exit velocity is being maintained at 23.42 m/sec.		Date: 10/05/2025
2	AIR QUALITY MONITORING AND PRESERVATION	(iii) Electrostatic Precipitator having efficiency of not less than 99.8% should be installed and it should be ensured that particulate emission would not exceed the prescribed limit of 100 mg/Nm <sup>3</sup> . Adequate space for Flue Gas Desulphurization Plant should be provided in the plant layout for its installation if required in future.
<b>PPs Submission:</b> Complied ESP higher than 99.9 percent efficiency are installed and particulate emission is maintained within 50 mg/Nm <sup>3</sup> . Space for Flue gas desulphurization plant has been provided in the layout for installation. Further, as per MoEF and CC notification 07.12.2015, to curb SO <sub>2</sub> emission, FGD has been commissioned in all three units of Stage-I.		Date: 10/05/2025
3	WATER QUALITY MONITORING AND PRESERVATION	(iv) Closed Circuit Cooling Device with Induced Draft should be provided and it should be ensure that only minimum water is drawn for make-up purposes.
<b>PPs Submission:</b> Complied Closed Circuit Cooling System with Induced Draft Cooling Towers are provided. Minimum water as per water balance diagram is drawn for makeup uses.		Date: 10/05/2025
4	Noise Monitoring & Prevention	(v) Noise level should be limited to 85 d(B)A and regular maintenance of equipments be undertaken. For people working in the area of generator halls and other noise areas, ear plugs should be provided.
<b>PPs Submission:</b> Complied Individual equipment has been designed with 85 dB (A) noise limits. Maintenance of equipment is carried out regularly. Ear plug/Earmuffs are provided to people working in the high noise area.		Date: 10/05/2025
5	GREENBELT	(vii) Afforestation should be undertaken covering area of 215 acres and the programme should be implemented in a phased manner. A norm of 1500-2000 trees per ha should be followed. The Afforestation plan should be submitted by 31st March 1999.
<b>PPs Submission:</b> Complied A detailed green belt plan including the species, density along with the map has been submitted to MOEF vide letter dated 19.08.1999. In addition, NTPC Sipat is undertaking extensive afforestation programme at project site, Township and surrounding areas. More than 4.6 Lakhs saplings have been planted so far in plant greenbelt area, ash dyke area, along MGR track, township and Make up water pump house.		Date: 10/05/2025
6	MISCELLANEOUS	(viii) Coal should be used @ 10 MT/ year for Stage-I with Sulphur content not exceeding 0.24%. The coal should be transported from Korba Coalfields by Captive MGR in closed wagons to avoid dust pollution.

<b>PPs Submission:</b> Complied MOEFandCC vide EC amendment letter J-13011/10/1996-IA.II (T) dated 08.09.2014 has permitted to use coal with sulphur content not exceeding 0.40 percentage. Revised condition is being complied. Moreover, FGD installation work has been completed in all three Units of Stage - I (3 x 660 MW).		Date: 10/05/2025
7	AIR QUALITY MONITORING AND PRESERVATION	(xii) Keeping in view the location of Sonthi Pahar Reserved Forest, additional Monitoring Station should be installed at the site to assess the ambient air quality. Monitoring should be initiated immediately to ascertain the project status and the scenario after commissioning of the project. A special study should be undertaken to ascertain impact of SO <sub>2</sub> on the flora in the project impact zone particularly the forest patches.
<b>PPs Submission:</b> Complied Ambient Air Quality monitoring at Sonthi Pahar reserve forest is continued since inception of the plant. SO <sub>2</sub> values at Sonthi Pahar Reserve Forest is well within permissible limit stipulated for ecologically sensitive area. Study on terrestrial ecology was completed in the year 2002 and thereafter in 2016-17. The studies concluded that effect of NTPC- Sipat plant operation on Eco system is negligible.		Date: 10/05/2025
8	MISCELLANEOUS	(xiv) Details of survey report on socio-economic impact of project affected families being carried out by Indian Institute of Technology, Kanpur should be submitted to the Ministry along with details rehabilitation plan by March 1999. Option should be extended to the habitants of Kaudia village for shifting to other suitable place, if they so desire. R&R should be undertaken in consultation with the State Government and affected population
<b>PPs Submission:</b> Complied The detailed socio-economic report by Indian Institute of Technology, Kanpur has been submitted to MOEF vide letter dated 24.08.2000. The RAP prepared in consultation with the representatives of the affected families /Sate Govt. has also been submitted to MOEF vide letter dated 24.08.2000 and concurred by MOEF. RandR activities had been completed in Feb'2007. Copy of MoM is attached.		Date: 10/05/2025
9	WATER QUALITY MONITORING AND PRESERVATION	(xv) All effluents generated in various plant activities should be collected in the Central Effluent Treatment Plant and treated to ensure adherence to specified standards of discharge before its release in Lilagarh River. The concept of zero discharge should be adapted to a maximum possible extent.
<b>PPs Submission:</b> Complied The concept of Zero Liquid Discharge (ZLD) is being maintained through recycle and reuse of treated effluent. No effluent is discharged outside the plant.		Date: 10/05/2025
10	AIR QUALITY MONITORING AND PRESERVATION	(xvi) Regular monitoring for SPM, SO <sub>2</sub> , NO <sub>x</sub> around the power plant may be carried out and records maintained. A Monitoring Station should be established near Sonthi Pahar forest in NE direction of the power plant.
<b>PPs Submission:</b> Complied Regular monitoring of AAQ is being carried out around the plant. Ambient air quality is being monitored near Sonthi Pahar forest area since inception of plant. Records are being maintained. Copy of Stack, Ambient Air Quality, Surface Water, Ground Water and noise monitoring report from October to March 2025 period are attached.		Date: 10/05/2025
11	MISCELLANEOUS	(ix) As per the proposal submitted for Ash Utilization, it should be ensured that fly ash is used in cement industry, brick making and in raising the ash dyke etc. Efforts should also be made in the area of mine filling, land development and agriculture etc. For brick making,

		about 50 acres of land with all infrastructure facilities should be earmarked. Full fly ash utilization should be ensured at the end of 9th year from the date of commissioning of the project.	
<b>PPs Submission:</b> 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 Manikpur, Bishrampur and Dugga mine voids Two fly ash brick plants of total capacity 3.2 lakhs brick per day are operational. Fly ash produced in NTPC Sipat fly ash brick plant are BIS certified. A Light Weight Aggregate pilot plant has been set up to explore a new avenue of ash utilization which may substitute natural aggregate in construction sector in future and would help in conservation of natural resources. About 19.14 acre of land area is already in use for ash based products. Further, EC exemption issued for 50 acres land condition on 24.12.2021 with the 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. Accordingly, NTPC Sipat has completed plantation of 32,000 plants through Miyawaki plantation at Uchchbatti village. 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.			Date: 10/05/2025
<b>General Conditions</b>			
Sr.No.	Condition Type	Condition Details	
1	MISCELLANEOUS	(i) All the conditions stipulated by the Madhya Pradesh State Pollution Control Board vide their letter No. 3574/TS/MPPCB/97 dated 5th March 1997 should be strictly implemented	
<b>PPs Submission:</b> Complied All the conditions stipulated in NOC issued by MPPCB are complied.			Date: 10/05/2025
2	AIR QUALITY MONITORING AND PRESERVATION	(vi) For controlling fugitive dust, regular sprinkling of water in coal handling and other vulnerable areas of the plant should be ensured.	
<b>PPs Submission:</b> Complied water sprinkling in vulnerable areas of the power plant including Coal Handling and ash dyke Area is made to control fugitive dust. Complied			Date: 10/05/2025
3	Human Health Environment	(x) Ash Pond design should be on similar lines to the one adopted for Talcher Super Thermal Power Project, Orissa. In the non-operative lagoon, the layer of earth / Bottom ash should be spread over the ash disposal area so that fugitive dust could be controlled. In addition, for dust suppression Sprinklers should also be provided. Special care should be taken to avoid any inconvenience to residents of Kaudia Village, which is near the ash disposal area.	
<b>PPs Submission:</b> Complied Ash disposal area is away from Kaudia village. There is no inconvenience to the residents of nearby villages. Sprinklers are provided in ash dyke area for dust suppression. Moreover, to enhance dust suppression various other initiatives are taken such as ponding, Beshram plantation, installation of rain guns, covering ash layer with tarpaulin, cow dung mulching, water sprinkling with water tankers are taken up extensively.			Date: 10/05/2025
4	Corporate Environmental Responsibility	(xi) Alignment of the water pipeline route and MGR for coal transportation should be so chosen as to avoid acquisition of forest land.	
<b>PPs Submission:</b> Complied			Date:



As per stipulation minimum forest land had been acquired. The Forest clearance (diversion of forest land) had been accorded by MOEF vide letter date 30.06.2004.		10/05/2025
5	Human Health Environment	(xiii) The impact on terrestrial ecology (flora and fauna) should be studied by properly estimating the number of trees to be felled in the project area and its impact on fauna. The felling of trees should be properly phased and project layout should be so designed as to ensure minimum felling.
<b>PPs Submission:</b> Complied The study had been completed. The layout of the project had been designed ensuring minimum felling of trees.		Date: 10/05/2025
6	MISCELLANEOUS	(xvii) Full cooperation should be extended to the Scientists / Officers from the Regional office of the Ministry at Bhopal / 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 extended to the Ministry/CPCB/CECB officials.		Date: 10/05/2025
7	MISCELLANEOUS	2. The proposal regarding setting up of 3000 MW Sipat Super Thermal Power Project at Sipat, Bilaspur District, Madhya Pradesh has been examined from environmental angle on the basis of information submitted by the proponents. Environmental clearance is, however, accorded for 2000 MW capacity as Stage-I subject to implementation of following terms and conditions
<b>PPs Submission:</b> Complied MOEF vide EC amendment letter dated 30th April 2002 have accorded clearance to change in unit configuration from 4 and 500 MW to 3 and 660 MW and fuel characteristics.		Date: 10/05/2025
8	MISCELLANEOUS	3. 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 Noted		Date: 10/05/2025
9	MISCELLANEOUS	4. In case of any deviation or alteration in the project proposed from those submitted to this Ministry for clearance, a fresh clearance should be made to the Ministry to assess the adequacy of the conditions imposed and to add additional environmental protection measures required, if any.
<b>PPs Submission:</b> Complied Noted		Date: 10/05/2025
10	MISCELLANEOUS	5. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environmental (Protection) Act, 1986, the Public Liability Insurance Act, the Impact Assessment Notification of January 1994 and its amendments.
<b>PPs Submission:</b> Complied		Date:

Noted

10/05/2025

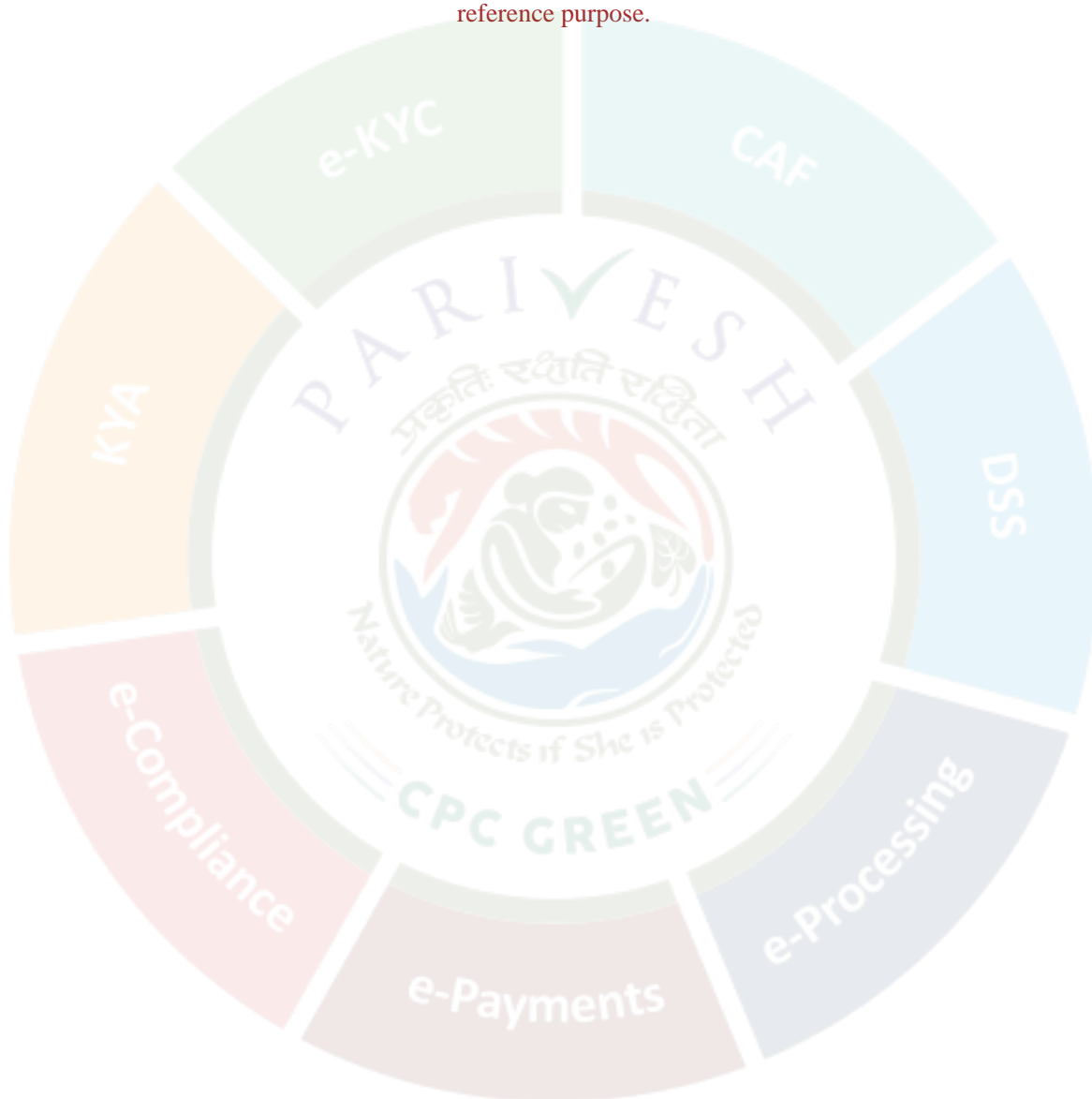
### Visit Remarks

**Last Site Visit Report Date:**

13/02/2024

**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.



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

**Acknowledgement**

<b>Proposal Name</b>		NTPC Ltd., Sipat Super Thermal Power Station, Stage-I (3 x 660 MW)	
<b>Name of Entity / Corporate Office</b>		NTPC Ltd.,	
<b>Village(s)</b>		N/A	
<b>District</b>		BILASPUR	
<b>Proposal No.</b>	J. 13011/10/96-IA.II(T)	<b>Category</b>	Thermal Projects
<b>Plot / Survey / Khasra No.</b>	N/A	<b>Sub-District</b>	N/A
<b>State</b>	CHHATTISGARH	<b>Entity's PAN</b>	*****0255D
<b>MoEF File No.</b>	J.13011/10/96-IA.II(T)	<b>Entity name as per PAN</b>	NTPC LIMITED

**Compliance Reporting Details**

**Reporting Year** 2025  
**Remarks (if any)** Second EC amendment  
30.04.2002  
**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	30/11/2025	1980	15091.45 MU	1980

**Conditions**

**Specific Conditions**

Sr.No.	Condition Type	Condition Details
--------	----------------	-------------------

1	AIR QUALITY MONITORING AND PRESERVATION	3 (i) Use of coal from Dipika Mines should be limited to 9.82 MT for Stage-I with Sulphur content not exceeding 0.36%.
<b>PPs Submission:</b> Complied MOEF vide EC amendment letter J-13011/10/1996- IA.II (T) dated 08.09.2014 has permitted to use coal with sulphur content not exceeding 0.40 percentage. Revised condition is being complied.		Date: 10/05/2025
2	AIR QUALITY MONITORING AND PRESERVATION	3 (ii) Since maximum concentration for SO <sub>2</sub> near Sonthi Pahar is likely to be close to permissible levels for sensitive area, continuous monitoring and analysis of ambient air quality in the region should be undertaken during planning, construction and operational phase of the project.
<b>PPs Submission:</b> Complied AAQM is being carried out since inception of the plant. SO <sub>2</sub> values are observed far below the stipulated limit prescribed for eco sensitive area. Regular monitoring and records are being maintained.		Date: 10/05/2025
3	AIR QUALITY MONITORING AND PRESERVATION	3 (iii) In the event of 98th percentile values for SO <sub>2</sub> exceeding prescribed permissible limits for sensitive areas, NTPC should make provision for retrofitting of desulphurization unit for which space is to be provided in the project layout plan.
<b>PPs Submission:</b> Complied Space for retrofitting of FGD has already been provided in the layout. Subsequently, in pursuance to the MoEF and CC notification dated 07.12.2015, FGD installation work has been completed in all three Units of Stage - I (3 x 660 MW).		Date: 10/05/2025
<b>General Conditions</b>		
Sr.No.	Condition Type	Condition Details
1	MISCELLANEOUS	3 (iv) Even though entire area of 4382.44 acres is proposed to be acquired for ultimate station capacity of 3000 MW, no work on Stage-II of the project with 660 MW units should be undertaken without environmental clearance.
<b>PPs Submission:</b> Complied Environmental Clearance for Stage- II (2 x 500 MW) had been obtained from MOEF vide Letter No. J- 13011/5/2002. IA-II (T) dated 08.06.2004.		Date: 10/05/2025
2	MISCELLANEOUS	3 (v) As lining of ash pond is not envisaged in the design of the project due to the soil profile of the region, no earth should be removed from the proposed ash disposal area for any project activity or construction of ash dyke.
<b>PPs Submission:</b> Complied This condition is relaxed vide letter no. J-13011/10/1996-IA-II(T)(Pt) Dt 20.07.2006 of MOEF. Copy of letter is attached.		Date: 10/05/2025
3	MISCELLANEOUS	3 (vi) All the conditions stipulated vide Ministry's letter of even number dated 22nd February 1999 should be strictly implemented.
<b>PPs Submission:</b> Complied Compliance submitted separately.		Date: 10/05/2025



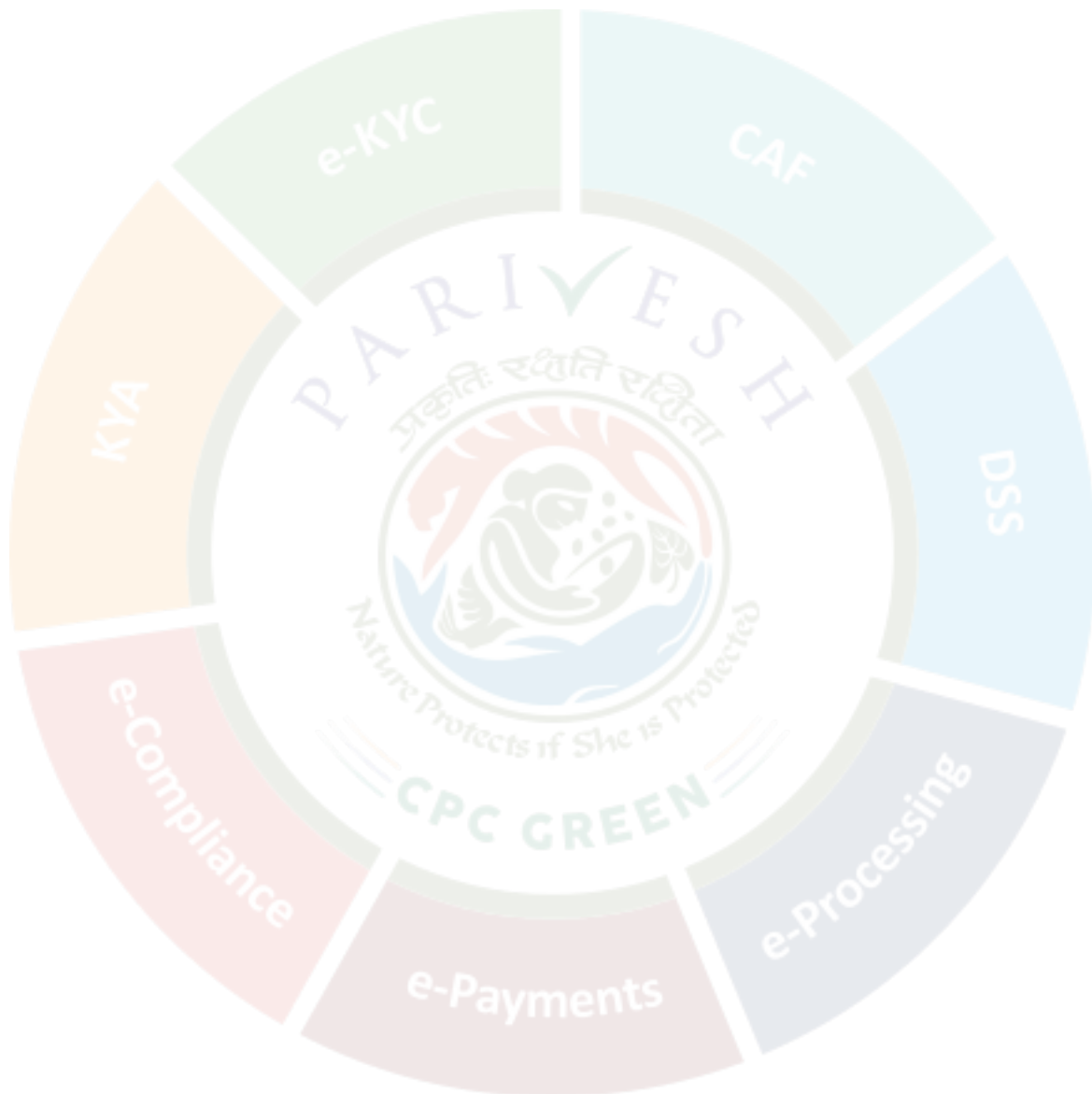
## Visit Remarks

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.



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

<b>Proposal Name</b>	NTPC Ltd., Sipat Super Thermal Power Station, Stage-I (3 x 660 MW)		
<b>Name of Entity / Corporate Office</b>	NTPC Ltd.,		
<b>Village(s)</b>	N/A		
<b>District</b>	BILASPUR		
<b>Proposal No.</b>	J-13011/10/1996-IA.II(T)	<b>Category</b>	Thermal Projects
<b>Plot / Survey / Khasra No.</b>	N/A	<b>Sub-District</b>	N/A
<b>State</b>	CHHATTISGARH	<b>Entity's PAN</b>	*****0255D
<b>MoEF File No.</b>	J-13011/10/1996-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>	Stage I Third EC amendment dt 08.09.2014
<b>Reporting Period</b>	01 Jun(01 Oct - 31 Mar)

**Details of Production and Project Area**

**Name of Entity / Corporate Office** NTPC Ltd.,

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

**Production Capacity**

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Electricity	MW	30/11/2025	1980	15091.45 MU	1980

**Conditions****Specific Conditions**

Sr.No.	Condition Type	Condition Details
1	Human Health Environment	3 (i) The transportation of coal shall be by rail only
<b>PPs Submission:</b> Complied 100 percentage coal transportation is carried out through Rail only.		Date: 10/05/2025
2	Human Health Environment	3 (iii) A long term study on radioactivity and heavy metals contents on coal to be used shall be carried out through a reputed institute. Thereafter mechanism for an in-built continuous monitoring of radioactivity and heavy metals in coal and fly ash (including bottom ash) shall be put in place.
<b>PPs Submission:</b> Complied Comprehensive Study on radioactivity had been completed by BARC Mumbai in March 2018, and it is concluded that the radiation levels in and around the Sipat Super Thermal Power Station of NTPC Ltd., is comparable with the National average values. The naturally occurring radionuclide levels in groundwater / surface water / drinking water samples is observed well below the Atomic Energy Regulatory Board (AERB) and World Health Organization (WHO) prescribed limit / guideline values. The activity concentration of naturally occurring radionuclides in soil, food matrices, flora and fauna is comparable to the national background levels. Since, there was no technology/instruments available for in built continuous monitoring of radioactivity and heavy metals in coal and fly ash (including bottom ash). EC exemption was put up before ministry. MoEF and CC had issued exemption for this condition vide EC amendment letter 24.12.2021 with regular periodic monitoring which is being complied.		Date: 10/05/2025
3	Human Health Environment	3 (iv) Mercury emission shall also be monitored on periodic basis.
<b>PPs Submission:</b> Complied Mercury emission is measured monthly and values are far below the stipulated limits.		Date: 10/05/2025
4	LAND RECLAMATION	3 (ix) Fly ash shall not be used for agriculture 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 takes place at any point of time. In case, the option of mine void filling is to be adopted, prior detail 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 pollution control board and implementation done in close co-ordination with the state pollution control board.
<b>PPs Submission:</b> Complied Vide OM Ref: F.No.22-13/2019-IA.III dated 28.08.2019, MoEF and CC, have issued fresh guidelines for use of fly ash in agriculture and in abandoned mines. Station is complying to the CPCB guidelines for reclamation of land.		Date: 10/05/2025
5	MISCELLANEOUS	(2) The matter was placed before the expert Appraisal Committee (Thermal power) in its 8th meeting held during January 9-10, 2014. In acceptance of the recommendation of the expert appraisal committee (Thermal power) and in view of the information/clarification furnished by you, with respect to the above mentioned power project, the ministry accord amendment in the said EC for sourcing coal from operating mine of SECL, with a maximum Sulphur content of 0.4% instead of sourcing from Dipika mines with Sulphur content not exceeding 0.36% and transportation of coal by open wagons with suitable measures instead of closed wagons, depending on the availability. However, permission for transportation of coal by open wagons is accorded only for one year with the stipulation that within one year, NTPC will come out with a plan of carrying coal in a cleaner way.

<p><b>PPs Submission:</b> Complied</p> <p>Coal is sourced from Dipka mines which bears sulphur content up to 0.40 percentage. Further, it is submitted that FGD installation work is in progress in all five units to curb the SO2 emission. Earlier, EC amendment issued vide letter no J-13011/10/1996-IA.II(T) on 09.10.2019 waived the condition of transportation of coal with tarpaulin covered wagons with certain conditions. Subsequently, in a matter OA No. 459/2018, Rashmi Singh V/S NTPC Sipat and Ors pending before NGT, Principal Bench New Delhi, the tribunal directed to comply the coal transportation by tarpaulin covering. NTPC Sipat challenged this order in Hon'ble Supreme Court on the ground that waiver has been granted in EC through an amendment issued by MoEF percentage CC on 09-10-2019. Hon'ble SC had ordered for tarpaulin covering of coal wagons within one month time. MOEF and CC vide notification dated 21-05-2020 also stipulated for transportation of coal by covered wagons. Complying to the order of Hon'ble Supreme Court, NTPC Sipat has started coal transportation by tarpaulin covered wagons. The following problems are being encountered. Manpower deployed for wagon covering is exposed to high level of risk as activity is manual, the workmen involved has to reach to the top of wagon and it is of round the clock activity. There is the threat of wrapping up pedestrian / cattle passing by the side of railway track, into the ripped off sheets. Other issues like theft of Tarpaulin sheets from coal wagons have been reported on regular basis on the way from Dipika mine to Sipat plant, which is really a danger to lives of miscreants involved and causing loss of material to NTPC as well. Rake Cycle time has increased by about one hour as a result of wagon covering activity which causes delay in availability of empty rake at mine end.</p>		Date: 10/05/2025						
6	Corporate Environmental Responsibility	3 (xii) For proper and periodic monitoring CSR activities, a CSR committee or a social audit committee or a suitable credible external agency shall be appointed. CSR activities shall also be evaluated by an independent external agency. This evaluation shall be both concurrent and final.						
<p><b>PPs Submission:</b> Complied</p> <p>Social Impact Assessment is carried out regularly after every three years. Last, it was carried out in 2022-23 by IRMA.</p>		Date: 10/05/2025						
7	Corporate Environmental Responsibility	3 (xi) CSR schemes should address Public Hearing issues and shall be undertaken based on need base assessment in and around the villages within 5 Km of the site and in constant consultation with the village Panchayat and the district administration. As part of CSR prior identification of local employable youth and eventual employment in the project after imparting relevant training shall be also undertaken. Development of fodder farm, fruit bearing orchard, vocational training etc. can form a part of such programmes. Company shall provide separate budget for community development activities and income generating programmes. Vocational training programmes for possible self-employment and jobs shall be important to identify villagers free of cost.						
<p><b>PPs Submission:</b> Complied</p> <p>Education, Girl Empowerment, Health, infrastructure development, pond rejuvenation, skill development are part of regular CSR activities. Separate budget is kept for CSR activities every year.</p>		Date: 10/05/2025						
<p><b>General Conditions</b></p> <table border="1"> <thead> <tr> <th>Sr.No.</th><th>Condition Type</th><th>Condition Details</th></tr> </thead> <tbody> <tr> <td>1</td><td>ENERGY PRESERVATION MEASURES</td><td>3 (ii) Harnessing solar power within the premises of the plant particularly at available roof tops shall be undertaken and status of the implementation shall be submitted periodically to the regional office of the ministry.</td></tr> </tbody> </table>			Sr.No.	Condition Type	Condition Details	1	ENERGY PRESERVATION MEASURES	3 (ii) Harnessing solar power within the premises of the plant particularly at available roof tops shall be undertaken and status of the implementation shall be submitted periodically to the regional office of the ministry.
Sr.No.	Condition Type	Condition Details						
1	ENERGY PRESERVATION MEASURES	3 (ii) Harnessing solar power within the premises of the plant particularly at available roof tops shall be undertaken and status of the implementation shall be submitted periodically to the regional office of the ministry.						



<b>PPs Submission:</b> Complied Total 1170 kW rooftop solar is installed. Contract for 26 MW floating solar project work has been awarded.		Date: 10/05/2025
2	Human Health Environment	3 (v) Fugitive emissions shall be controlled to prevent impact on agriculture or non-agriculture land.
<b>PPs Submission:</b> Complied Fugitive emission from ash dyke is taken care by maintaining adequate water level in the ash ponds. If any dry patch is formed due to operational constraints, following measures are taken like planting Ipomeia carnia (Besharam), installation of rain gun / sprinkler system, covering ash layer with tarpaulin, cow dung mulching and water sprinkling with water tankers as per actual requirement.		Date: 10/05/2025
3	WATER QUALITY MONITORING AND PRESERVATION	3 (vi) No ground water shall be extracted for use in operation of the power plant even in lean season. No water bodies including natural drainage system in the area shall be disturbed due to activities associated with the setting up/operation of the power plant.
<b>PPs Submission:</b> Complied Water is drawn from Right bank canal (RBC) of Hasdeo river as per water agreement with Water resource department -Govt. of CG. No ground water is extracted for plant operations.		Date: 10/05/2025
4	WATER QUALITY MONITORING AND PRESERVATION	3 (vii) Monitoring of surface water quantity and quality shall also be regularly conducted and records maintained. The monitored data shall be submitted to the ministry regularly. Further, monitoring point shall be located between the plant and drainage in the direction of flow of ground water and records maintained. Monitoring of heavy metals in ground water shall be undertaken.
<b>PPs Submission:</b> Complied Surface water and ground water quality are regularly monitored and communicated to CECB and MoEF and CC. Regular monitoring is carried out in surrounding 11 villages. Heavy metal monitoring also being done on monthly basis. Records are maintained. Sipat is zero liquid discharge (ZLD) Compliant plant and no water is discharged either from plant and dyke area. Air, water, stack, noise monitoring reports are attached.		Date: 24/05/2025
5	WATER QUALITY MONITORING AND PRESERVATION	3 (viii) Minimum required environmental flow suggested by the competent authority of the state Govt. shall be maintained in the channel/Rivers (as applicable) even in lean season.
<b>PPs Submission:</b> Complied Water is sourced from Hasdeo RBC, as per agreement with Water Resources Deptt, Govt of Chhattisgarh. NTPC Sipat is drawing lesser quantity of water than the allocated quantity. Station had surrendered 27 MCM water in Dec 2017 leaving present allocation 93 MCM against original allocation of 120 MCM as per water agreement with CG Water resource department.		Date: 10/05/2025
6	GREENBELT	3 (x) Green belt shall also be developed around the ash pond over and above the green belt around the plant boundary.
<b>PPs Submission:</b> Complied Plantation has been developed in available land patches around ash dyke. More than 7000 number of plantations have been completed.		Date: 10/05/2025
7	MISCELLANEOUS	3 (xiii) An Environmental cell comprising of at least one expert in environmental science/Engineering, Ecology, occupational health and social science, shall be created preferably at the project site itself and shall be headed by and officer of appropriate superiority and qualification. It shall be ensured that the head of the cell shall directly report to the head of the plant, who would be accountable for implementation of environmental regulations and social impact

		improvement/mitigation measures.
<b>PPs Submission:</b> Complied A dedicated Environmental Management Group is already set up with suitable and experienced executives as per the requirement.		<b>Date:</b> 10/05/2025
8	MISCELLANEOUS	3 (xiv) The project proponent shall formulate a well laid corporate environment policy and identify and designate responsible officers at all levels of its hierarchy for ensuring adherence to the policy and compliance with the conditions stipulated in this clearance latter and other applicable environmental laws and regulations.
<b>PPs Submission:</b> Complied NTPC as a corporate has a well laid written Environment Policy		<b>Date:</b> 10/05/2025
9	Statutory compliance	3 (xv) The environment statement for each financial year ending 31st march in form-V as is mandated to be submitted by the project proponent to the concern state pollution control board as prescribed under the Environment (protection) rule, 1986, as amended subsequently, shall also to be put on the website of the company along with the status of compliance of Environmental clearance conditions and shall also be sent to the respective regional offices of the ministry by email.
<b>PPs Submission:</b> Complied Environment Statement is submitted every year. statement for the year 2023-24 is submitted on 02.06.2024		<b>Date:</b> 10/05/2025
10	MISCELLANEOUS	4. All other conditions mentioned in this ministry's letter of even no. dated 22.02.1999 and its amendment dated 30.04.2002 shall remain the same, as applicable.
<b>PPs Submission:</b> Complied Noted and complied		<b>Date:</b> 10/05/2025
<b>Visit Remarks</b>		
<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>		

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

**Acknowledgement**

<b>Proposal Name</b>		NTPC Ltd., Sipat Super Thermal Power Station, Stage-I (3 x 660 MW)	
<b>Name of Entity / Corporate Office</b>		NTPC Ltd.,	
<b>Village(s)</b>		N/A	
<b>District</b>		BILASPUR	
<b>Proposal No.</b>	No.J-13011/10/1996-IA.II(T)	<b>Category</b>	Thermal Projects
<b>Plot / Survey / Khasra No.</b>	N/A	<b>Sub-District</b>	N/A
<b>State</b>	CHHATTISGARH	<b>Entity's PAN</b>	*****0255D
<b>MoEF File No.</b>	No.J-13011/10/1996-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>	Compliance status of Fourth, Fifth and sixth EC amendment Stage-I
<b>Reporting Period</b>	01 Jun(01 Oct - 31 Mar)

**Details of Production and Project Area**

<b>Name of Entity / Corporate Office</b> NTPC Ltd.,		
	<b>Project Area as per EC Granted</b>	<b>Actual Project Area in Possession</b>
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	30/11/2025	1980	15091.45 MU	1980

**Conditions**

## Specific Conditions

Sr.No.	Condition Type	Condition Details
1	AIR QUALITY MONITORING AND PRESERVATION	2 (i) Top surface of the coal wagons shall be completely covered with tarpaulin sheet/Cloth so that coal will not get exposed to atmosphere and becomes secondary emissions. This will avoid fugitive dust emissions during the transport. Water sprinkling shall be done on the top surface of coal at loading point before covering with tarpaulin sheet. Due safety procedures shall be followed so that the covered sheet does not open up and fly away during transport which will endanger safety of nearby people, agricultural fields, etc. Water sprinkling measures as proposed at loading and unloading point shall be continued. Progress report of implementation shall be submitted to this ministry and concerned regional office every 3 months.
<b>PPs Submission:</b> Complied NTPC Sipat has started coal transportation by tarpaulin covered wagons from August 2020.		Date: 13/05/2025
2	AIR QUALITY MONITORING AND PRESERVATION	2 (ii) AAQ monitoring within 1 km on either side of track, close proximity to nearby habitation, shall be continued once in a quarter and the progress report shall be submitted.
<b>PPs Submission:</b> Complied AAQ monitoring along MGR within 1 km at six locations by MoEF and CC approved third party is being done. Records are maintained. All average values are within limit of 24 hr average. Reports are enclosed herewith.		Date: 26/05/2025
3	Human Health Environment	2 (iii) Land use study shall be carried out by latest IRS satellite map on 500m either side along the rail line from loading point to unloading point.
<b>PPs Submission:</b> Complied Land use study has been completed by Soil and Land Use Survey of India in July 2018.		Date: 13/05/2025
4	Human Health Environment	2 (iv) Health survey study of the local people shall be carried out. The report should clearly bring out the impact on surrounding forests, agriculture/crop patterns, percentage of yield, public health due to open wagon coal transportation, etc.
<b>PPs Submission:</b> Complied A health study was completed in Nov-2017 by Chhattisgarh Institute of Medical Sciences (CIMS) Bilaspur, wherein it is observed that prevalence of COPD in study area is similar to elsewhere in the country.		Date: 13/05/2025
5	Human Health Environment	2 (v) As stipulated by the earlier EAC on 31.03.2016, PP should study alternative methodologies/technologies being utilized including abroad, to prevent coal dust blow from moving open wagons carrying coal, if any. The results of this study should be submitted within one year.
<b>PPs Submission:</b> Complied Condition modified in EC amendment issued on 09.10.2019. Status given therein.		Date: 13/05/2025
6	GREENBELT	2018 5 (ii) Dense avenue plantation shall be developed on either side of the track wherever habitations/agricultural lands exist in consultation with local forest department to minimize the dust and noise pollution.



<b>PPs Submission:</b> Complied Approximately, 73,918 No.s of plantations have been raised through Chhattisgarh Rajya Van Vikas Nigam Ltd. so far.		Date: 13/05/2025
7	AIR QUALITY MONITORING AND PRESERVATION	2018 5 (iii) AAQ monitoring within 1 km on either side of track, close proximity to nearby habitation, shall be continued once in a quarter and the progress report shall be submitted.
<b>PPs Submission:</b> Complied AAQ monitoring along MGR within 1 km at six locations by MoEFandCC approved third party is being done. Records are maintained. All average values are within limit of 24 hr average.		Date: 26/05/2025
8	MISCELLANEOUS	2018 5 (iv) Land use study shall be carried out by latest IRS satellite map on 500 m either side along the rail line from loading point to unloading point.
<b>PPs Submission:</b> Complied All three (03) season image data have been received by SLUSI from NRSA. Final Report submitted on 25.06.2018. As per recommendation of the study, large scale plantation along MGR track has already been taken up.		Date: 13/05/2025
9	Human Health Environment	2018 5 (v) Health survey study of the local people shall be carried out. The report should clearly bring out the impact on surrounding forests, agriculture/crop patterns, percentage of yield, public health due to open wagon coal transportation, etc.
<b>PPs Submission:</b> Complied A health study was completed in Nov-2017 by Chhattisgarh Institute of Medical Sciences (CIMS) Bilaspur wherein it is observed that prevalence of COPD in study area is similar to elsewhere in the country. Another study was conducted to assess the the impact of coal dust on soil, crop and trees. No significant adverse observations.		Date: 13/05/2025
10	MISCELLANEOUS	2018 5 (vi) As stipulated by the earlier EAC on 31.03.2016, PP should study alternative methodologies/technologies being utilized including abroad, to prevent coal dust blow from moving open wagons carrying coal, if any. The results of this study should be submitted within one year.
<b>PPs Submission:</b> Complied Condition modified in EC amendment issued on 09.10.2019. Status given therein.		Date: 13/05/2025
11	AIR QUALITY MONITORING AND PRESERVATION	2019 5 (i) As proposed, the water sprinkling at four points viz. loading point, unloading points, ½ km before entry, at 22 km chainage point (Mid Section) shall be carried out to keep the coal wet and to control dust generation.
<b>PPs Submission:</b> Complied NTPC Sipat has started coal transportation by tarpaulin covered wagons from August 2020.		Date: 13/05/2025

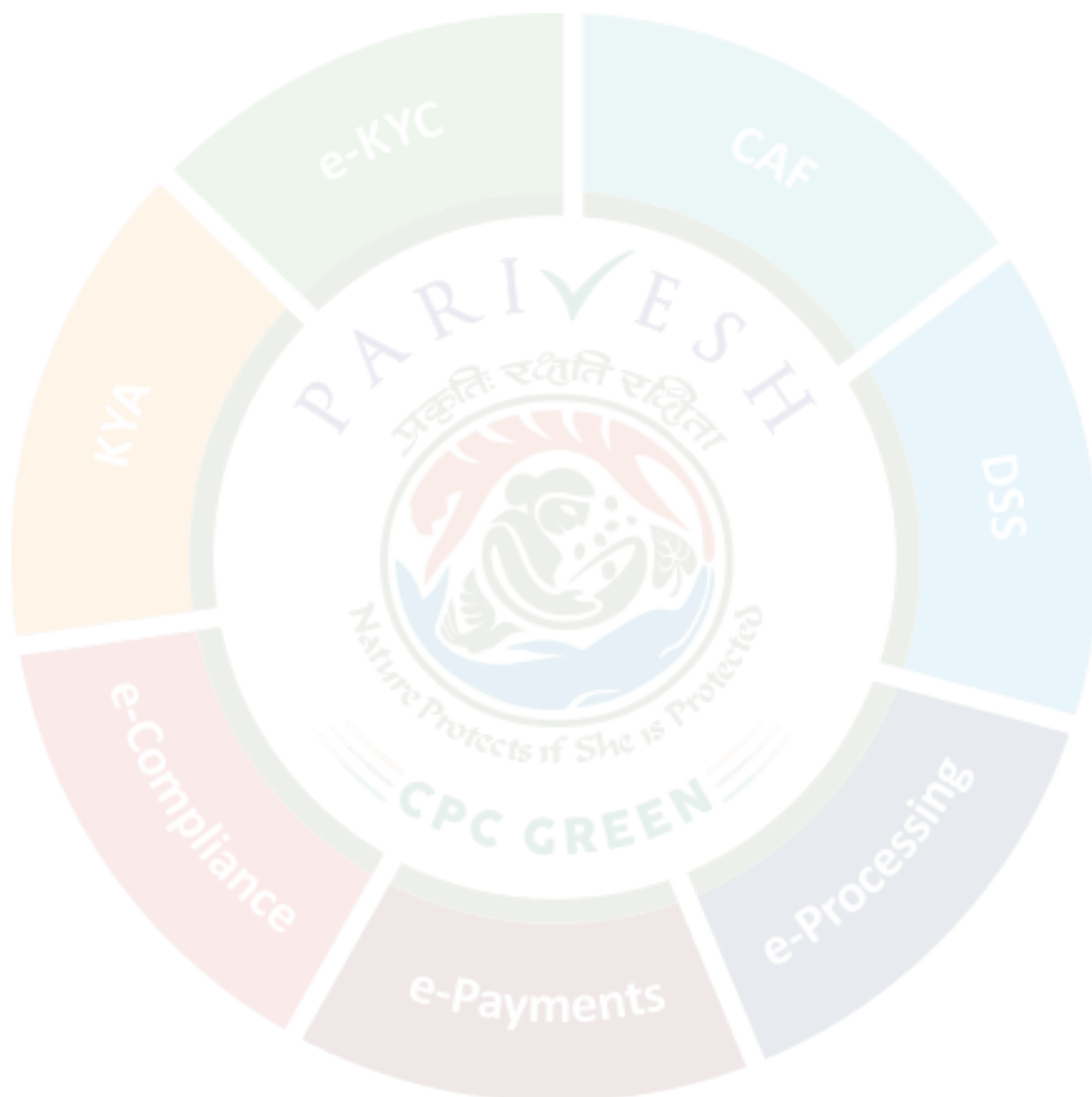
## General Conditions

Sr.No.	Condition Type	Condition Details
1	MISCELLANEOUS	2 (v) All other conditions mentioned in the Ministry's letter of even No. dated 22.02.1999 & 14.01.2000 and its, amendments dated 30.04.2002 & 08.09.2014 shall remain the same, as applicable

PPs Submission: Complied Noted		Date: 26/05/2025
2	AIR QUALITY MONITORING AND PRESERVATION	2018 5 (i) Top surface of the coal wagons shall be completely covered with tarpaulin sheet/Cloth so that coal will not get exposed to atmosphere and becomes secondary emissions. This will avoid fugitive dust emissions during the transport. Water sprinkling shall be done on the top surface of coal at loading point before covering with tarpaulin sheet. Due safety procedures shall be followed so that the covered sheet does not open up and fly away during transport which will endanger safety of nearby people, agricultural fields, etc. Water sprinkling measures as proposed at loading and unloading point shall be continued. Progress report of implementation shall be submitted to this ministry and concerned Regional office as part of Compliance report.
PPs Submission: Complied NTPC Sipat had started coal transportation by tarpaulin covered wagons from August 2020.		Date: 13/05/2025
3	MISCELLANEOUS	2018 (6) All other conditions mentioned in this Ministry's letter of even No. dated 22.02.1999, 30.04.2002, 08.09.2014, and 08.02.2017 shall remain the same, as applicable.
PPs Submission: Complied Noted		Date: 13/05/2025
4	MISCELLANEOUS	2019 5 (ii) NTPC being a large consumer of coal, should take up an R&D activity of developing a mechanical sliding of the cloth over wagon top which should be easily closed/opened with mechanical arrangement and should also not hamper loading operations. Once successful, this can be replicated in the country as best environmental practice to prevent air pollution from coal. This will also prevent oxidation.
PPs Submission: Complied 1. NTPC Sipat had approached RDSO, the wagon designing outfit of Indian Railways for developing a mechanical covering arrangement on the wagons through a consultancy contract. 2. RDSO representatives and their authorized agency demonstrated the prototype on 10th and 11th October 2021. The agency will further demonstrate the system with improvement. 3. One of the agencies of RDSO has visited the site from 02 to 05 Feb-22 and demonstrated the new mechanized arrangement but the system is not compatible with our loading unloading system. NTPC has contacted other agency of RDSO for development of the mechanized system. A letter was written to RDSO in the month of May-22 Oct-22 and on 10.01.2023 to depute the other agency for development of solution but no response received. 4. Subsequently, NTPC Sipat has published an EOI for developing mechanized covering of wagons, but no response received for developing mechanized covering in MGR Wagons.		Date: 13/05/2025
5	MISCELLANEOUS	2019 (6) All other conditions mentioned in this Ministry's letter of even No. dated 22.02.1999, 14.01.2000, 30.04.2002, 08.09.2014, and 08.02.2017 and 17.05.2018 shall remain the same, as applicable
PPs Submission: Complied Noted		Date: 26/05/2025
Visit Remarks		

<b>Last Site Visit Report Date:</b>	N/A
<b>Additional Remarks:</b>	

**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

<b>Proposal Name</b>		NTPC Ltd., Sipat Super Thermal Power Station, Stage-I (3 x 660 MW)	
<b>Name of Entity / Corporate Office</b>		NTPC Ltd.,	
<b>Village(s)</b>		N/A	
<b>District</b>		BILASPUR	
<b>Proposal No.</b>	No.J-13011/10/1996-IA.II(T)	<b>Category</b>	Thermal Projects
<b>Plot / Survey / Khasra No.</b>	N/A	<b>Sub-District</b>	N/A
<b>State</b>	CHHATTISGARH	<b>Entity's PAN</b>	*****0255D
<b>MoEF File No.</b>	No.J-13011/10/1996-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 amendment dt 24.12.2021
<b>Reporting Period</b>	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	30/11/2025	1980	15091.45 MU	1980

### Conditions

#### Specific Conditions



Sr.No.	Condition Type	Condition Details
1	MISCELLANEOUS	Dec 2021 7 (i) Fly ash utilization plan shall be adhered, and 100% Ash utilization shall be carried out strictly as per extent rule and regulations of the Ministry.
<b>PPs Submission:</b> 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 102.11percentage has been achieved in 2024-25. NTPC Sipat is continuously trying to achieve 100 percentage utilization of ash.		Date: 10/05/2025
2	GREENBELT	Dec 2021 7 (iii) 10 acres of land shall be identified outside the project boundary in the Bilaspur district (preferably within 10 km radius of the project cover area) to carry out afforestation using Miyawaki plantation technique with more than 90% survival rate as committed by PP vide letter no. CC:RSE:9518:2021:GEN Dated 23.11.2021.
<b>PPs Submission:</b> Complied 32,000 No.s of saplings have been planted through Miyawaki technique in Bhilmi village which is approximately 10 kms away from plant. Plantation Work had been completed in March 2024. Total project cost for plantation and maintenance up to two years is INR 853 lakh.		Date: 13/05/2025
<b>General Conditions</b>		
Sr.No.	Condition Type	Condition Details
1	Statutory compliance	Dec 2021 7 (ii) Backfilling in the low-lying area shall be carried out as per the CPCB guidelines.
<b>PPs Submission:</b> Complied Complied		Date: 10/05/2025
2	MISCELLANEOUS	Dec 2021 7 (iv) Other conditions of the EC letter dated 22.02.1999, 30.04.2002 and 08.09.2014 shall remain unchanged.
<b>PPs Submission:</b> Complied Noted. Status of Compliance submitted separately.		Date: 10/05/2025
<b>Visit Remarks</b>		
<b>Last Site Visit Report Date:</b>		N/A
<b>Additional Remarks:</b>		Status of CCR compliance as on 01.06.2024 submitted to IRO, Raipur is attached.
<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.		

Attachment to condition No 2(xvi) of  
EC stage I dt 22.02.1999

## ANNEXURE- I

**Table-I : Ambient Air Quality Monitoring**  
**Period of Observation 01.04.2024 to 30.09.2024**

### CAAQMS-1 (Track Hopper)

Month	PM2.5	PM10	SO <sub>2</sub>	NOx
	[µg/m <sup>3</sup> ]			
APR-2024	16.5	38.5	15.2	28.0
MAY-2024	18.0	46.4	30.5	27.9
JUN-2024	13.9	30.0	31.8	29.2
JUL-2024	7.8	17.4	25.5	25.2
AUG-2024	6.7	11.3	20.6	24.4
SEP-2024	13.7	23.2	22.2	23.8

### CAAQMS-2 (B-Type)

Month	PM2.5	PM10	SO <sub>2</sub>	NOx
	[µg/m <sup>3</sup> ]			
APR-2024	15.0	32.0	21.4	50.0
MAY-2024	17.2	37.6	22.2	44.6
JUN-2024	12.7	28.0	23.4	40.6
JULY-2024	15.0	23.3	29.7	39.9
AUG-2024	13.9	20.9	22.7	46.4
SEP-2024	14.3	26.0	23.5	32.9

### CAAQMS-3 (Switch Yard)

Month	PM2.5	PM10	SO <sub>2</sub>	NOx
	[µg/m <sup>3</sup> ]			
APR-2024	19.0	42.6	14.5	20.3
MAY-2024	19.4	43.3	15.9	23.9
JUN-2024	17.6	29.1	17.6	28.1
JUL-2024	7.6	17.7	21.1	22.9
AUG-2024	22.2	35.6	22.4	20.6
SEP-2024	12.3	30.2	22.2	20.4

**Table-II: Ambient Air Quality Monitoring around Plant area**

**Period of Observation: 01.04.2024 to 30.09.2024**

Month	Janji Village					
	PM2.5	PM10	SO <sub>2</sub>	NO <sub>x</sub>	CO	HC
	[µg/m <sup>3</sup> ]				[mg/m <sup>3</sup> ]	[ppm]
APR-2024	24.3	46.5	22.9	21.6	0.452	0.466
MAY-2024	23.8	45.9	22.1	20.6	0.453	0.461
JUN-2024	21.6	43.0	20.7	19.0	0.441	0.449
JUL-2024	20.2	27.4	22.8	19.9	0.434	0.444
AUG-2024	23.7	44.5	23.6	22.6	0.440	0.452
SEP-2024	22.5	30.4	23.6	21.9	0.438	0.451

Month	Karra Village					
	PM2.5	PM10	SO <sub>2</sub>	NO <sub>x</sub>	CO	HC
	[µg/m <sup>3</sup> ]				[mg/m <sup>3</sup> ]	[ppm]
APR-2024	26.5	43.9	23.8	22.7	0.436	0.449
MAY-2024	24.6	43.0	22.9	21.4	0.435	0.446
JUN-2024	24.7	42.1	22.3	21.3	0.435	0.443
JUL-2024	17.2	24.9	20.8	19.0	0.432	0.442
AUG-2024	22.1	40.7	16.8	15.9	0.434	0.444
SEP-2024	17.3	25.5	17.4	15.9	0.434	0.444

Month	Kaudia Village					
	PM2.5	PM10	SO <sub>2</sub>	NO <sub>x</sub>	CO	HC
	[µg/m <sup>3</sup> ]				[mg/m <sup>3</sup> ]	[ppm]
JUL-2024	19.4	27.3	22.2	19.5	0.435	0.443
AUG-2024	23.2	39.8	20.0	19.0	0.440	0.452
SEP-2024	19.5	28.4	20.1	19.1	0.443	0.450

Month	Sipat Village					
	PM2.5	PM10	SO <sub>2</sub>	NO <sub>x</sub>	CO	HC
	[µg/m <sup>3</sup> ]				[mg/m <sup>3</sup> ]	[ppm]
APR-2024	24.6	44.6	23.1	21.2	0.438	0.451
MAY-2024	26.1	46.0	24.0	21.9	0.440	0.450
JUN-2024	24.9	44.6	23.3	21.1	0.438	0.448

## ANNEXURE- II

**Table-III**

**AAQ monitoring at Sonthi Pahar Reserve Forest Area**

Month	Location – Parsapali					
	PM 2.5	PM 10	SO <sub>2</sub>	NO <sub>x</sub>	CO	HC
	[µg/m <sup>3</sup> ]				[mg/m <sup>3</sup> ]	[ppm]
APR-2024	23.50	41.12	22.09	20.81	0.425	0.498
MAY-2024	24.51	40.55	22.18	21.75	0.430	0.459
JUN-2024	22.94	41.39	22.72	22.06	0.431	0.45
JUL-2024	22.17	41.01	21.61	21.49	0.430	0.455
AUG-2024	19.86	38.88	19.17	18.12	0.527	0.573
SEP-2024	19.46	38.20	19.08	17.90	0.427	0.444





## ANNEXURE-III

**Table-IV: Stack Monitoring**

**Period of Observation: 01.04.2024 to 30.09.2024**

Month	Unit-1				Unit-2				Unit-3				Unit-4				Unit-5			
	Parameter in mg/Nm³																			
	PM	SO₂	NOx	Hg	PM	SO₂	NOx	Hg	PM	SO₂	NOx	Hg	PM	SO₂	NOx	Hg	PM	SO₂	NOx	Hg
Apr-24	44	1045	254	0.013	44	1062	260	0.011	#	#	#	#	44	1071	264	0.012	45	1047	258	0.011
May-24	45	1062	276	0.011	47	1080	271	0.013	45	1054	233	0.012	44	1051	261	0.010	45	1065	252	0.014
Jun-24	44	1041	251	0.014	44	1070	245	0.011	45	1028	250	0.013	45	1040	247	0.012	44	1040	251	0.010
Jul-24	45	1054	257	0.016	47	1068	254	0.010	45	1057	250	0.014	45	1057	261	0.015	45	1054	250	0.013
Aug-24	45	1049	245	0.016	50	1060	240	0.014	45	1038	240	0.012	47	1060	237	0.014	44	1079	264	0.010
Sep-24	43	849	199	0.013	43	991	202	0.011	29	960	225	0.015	42	1000	222	0.018	42	995	212	0.016

#.Under Shut Down

## ANNEXURE-IV

**Table-V: Ground Water Quality Monitoring**  
**Period of Observation: 01.04.2024 to 30.09.2024**

**Legend :**BDL – Below Detection Limit / BLQ- Below Limit of Quantification, LOQ-Limit of Quantification  
Minimum Detection Limit (mg/l): F:0.2

Month	Location-I (Hardadih)				
	pH	TSS	TDS	F	B
		[mg/L]			
APR-2024	7.4	03	470	0.2	<0.1
MAY-2024	7.1	02	494	0.4	<0.1
JUN-2024	7.3	04	474	0.3	<0.1
JUL-2024	7.1	04	487	0.3	<0.1
AUG-2024	7.2	02	407	BLQ	<0.1
SEP-2024	7.1	03	400	BLQ	<0.1

Month	Location-II (Sukhripali)				
	pH	TSS	TDS	F	B
		[mg/L]			
APR-2024	7.3	04	488	0.4	<0.1
MAY-2024	7.5	03	474	0.3	<0.1
JUN-2024	7.3	04	491	0.4	<0.1
JUL-2024	7.5	05	494	0.4	<0.1
AUG-2024	7.3	05	480	0.4	<0.1
SEP-2024	7.5	04	460	0.4	<0.1

Month	Location-III (Ralia)				
	pH	TSS	TDS	F	B
		[mg/L]			
APR-2024	7.2	0.2	434	0.2	<0.1
MAY-2024	7.3	02	417	BLQ	<0.1
JUN-2024	7.5	02	407	0.2	<0.1
JUL-2024	7.2	03	427	0.3	<0.1
AUG-2024	7.5	01	397	BLQ	<0.1
SEP-2024	7.3	03	427	0.2	<0.1

Location-IV (Bhilai)					
Month	pH	TSS	TDS	F	B
		[mg/L]			
APR-2024	7.1	02	420	0.2	<0.1
MAY-2024	7.4	04	407	0.3	<0.1
JUN-2024	7.7	01	387	BLQ	<0.1
JUL-2024	7.3	02	400	BLQ	<0.1
AUG-2024	7.1	01	387	BLQ	<0.1
SEP-2024	7.2	04	475	0.3	<0.1

Location-V (Gatora)					
Month	pH	TSS	TDS	F	B
		[mg/L]			
APR-2024	7.5	01	404	BLQ	<0.1
MAY-2024	7.2	02	430	0.2	<0.1
JUN-2024	7.5	01	387	0.3	<0.1
JUL-2024	7.6	02	414	0.2	<0.1
AUG-2024	7.3	03	427	0.2	<0.1
SEP-2024	7.6	05	484	0.4	<0.1

Location-VI (Rank)					
Month	pH	TSS	TDS	F	B
		[mg/L]			
APR-2024	7.6	03	478	0.3	<0.1
MAY-2024	7.2	01	440	BLQ	<0.1
JUN-2024	7.2	02	434	BLQ	<0.1
JUL-2024	7.5	01	394	BLQ	<0.1
AUG-2024	7.6	04	480	0.3	<0.1
SEP-2024	7.3	01	391	BLQ	<0.1

Location-VII (Janji)					
Month	pH	TSS	TDS	F	B
		[mg/L]			
APR-2024	7.2	02	466	0.3	<0.1
MAY-2024	7.1	03	490	0.2	<0.1
JUN-2024	7.3	03	454	0.3	<0.1
JUL-2024	7.2	02	400	BLQ	<0.1
AUG-2024	7.1	01	394	BLQ	<0.1
SEP-2024	7.2	01	388	BLQ	<0.1

Location-VIII (Kaudia)					
Month	pH	TSS	TDS	F	B
		[mg/L]			
APR-2024	7.4	01	394	BLQ	<0.1
MAY-2024	7.4	02	390	BLQ	<0.1
JUN-2024	7.2	01	394	BLQ	<0.1
JUL-2024	7.5	01	384	BLQ	<0.1
AUG-2024	7.3	03	440	0.2	<0.1
SEP-2024	7.5	05	494	0.5	<0.1

Location-IX (Darrabhata)					
Month	pH	TSS	TDS	F	B
		[mg/L]			
APR-2024	7.1	02	424	BLQ	<0.1
MAY-2024	7.3	03	395	0.2	<0.1
JUN-2024	7.7	02	410	BLQ	<0.1
JUL-2024	7.1	01	390	BLQ	<0.1
AUG-2024	7.5	04	487	0.3	<0.1
SEP-2024	7.3	03	457	0.4	<0.1

Location-X (Deori)					
Month	pH	TSS	TDS	F	B
		[mg/L]			
APR-2024	7.3	05	492	0.3	<0.1
MAY-2024	7.5	04	470	0.3	<0.1
JUN-2024	7.5	03	430	0.2	<0.1
JUL-2024	7.6	04	488	0.4	<0.1
AUG-2024	7.8	05	498	0.4	<0.1
SEP-2024	7.6	04	470	0.3	<0.1

Location-XI (Nvaadih)					
Month	pH	TSS	TDS	F	B
		[mg/L]			
APR-2024	7.5	01	414	BLQ	<0.1
MAY-2024	7.4	02	440	BLQ	<0.1
JUN-2024	7.1	04	491	BLQ	<0.1
JUL-2024	7.3	03	407	0.2	<0.1
AUG-2024	7.2	01	380	BLQ	<0.1
SEP-2024	7.2	02	400	BLQ	<0.1

**Table-VI : Heavy Metals monitoring around plant villages**

Legend: BDL – Below Detection Limit / BLQ- Below Limit of Quantification, LOQ-Limit of Quantification  
Minimum Detection Limit (mg/l): Cu: 0.002, Zn: 0.1, Cd : 0.002 Cr(Total):0.002, Pb:0.002, As : 0.002, Hg:0.0005

Month	Location-I (Hardadih)							
	Fe	Hg	Cd	Cr	Pb	Zn	As	Cu
	[mg/L]							
APR-2024	0.20	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
MAY-2024	0.19	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
JUN-2024	0.23	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
JUL-2024	0.25	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
AUG-2024	0.22	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
SEP-2024	0.23	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ

Month	Location-II (Sukhripali)							
	Fe	Hg	Cd	Cr	Pb	Zn	As	Cu
	[mg/L]							
APR-2024	0.21	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
MAY-2024	0.23	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
JUN-2024	0.20	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
JUL-2024	0.22	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
AUG-2024	0.25	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
SEP-2024	0.21	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ

Month	Location-III (Ralia)							
	Fe	Hg	Cd	Cr	Pb	Zn	As	Cu
	[mg/L]							
APR-2024	0.24	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
MAY-2024	0.22	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
JUN-2024	0.24	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
JUL-2024	0.23	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
AUG-2024	0.21	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
SEP-2024	0.25	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ

Month	Location-IV (Bhilai)							
	Fe	Hg	Cd	Cr	Pb	Zn	As	Cu
	[mg/L]							
APR-2024	0.23	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
MAY-2024	0.25	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
JUN-2024	0.23	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
JUL-2024	0.20	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
AUG-2024	0.24	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
SEP-2024	0.24	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ



	Location-V (Gatora )							
Month	Fe	Hg	Cd	Cr	Pb	Zn	As	Cu
	[mg/L]							
APR-2024	0.21	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
MAY-2024	0.20	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
JUN-2024	0.21	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
JUL-2024	0.22	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
AUG-2024	0.26	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
SEP-2024	0.22	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ

	Location-VI (Rank )							
Month	Fe	Hg	Cd	Cr	Pb	Zn	As	Cu
	[mg/L]							
APR-2024	0.25	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
MAY-2024	0.26	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
JUN-2024	0.24	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
JUL-2024	0.25	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
AUG-2024	0.23	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
SEP-2024	0.24	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ

	Location-VII (Janji )							
Month	Fe	Hg	Cd	Cr	Pb	Zn	As	Cu
	[mg/L]							
APR-2024	0.22	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
MAY-2024	0.20	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
JUN-2024	0.20	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
JUL-2024	0.22	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
AUG-2024	0.23	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
SEP-2024	0.21	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ

	Location-VII (Kaudia )							
Month	Fe	Hg	Cd	Cr	Pb	Zn	As	Cu
	[mg/L]							
APR-2024	0.21	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	
MAY-2024	0.23	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
JUN-2024	0.24	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
JUL-2024	0.21	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
AUG-2024	0.25	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
SEP-2024	0.24	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ

	Location-IX (Darrabhata )							
Month	Fe	Hg	Cd	Cr	Pb	Zn	As	Cu
	[mg/L]							
APR-2024	0.24	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
MAY-2024	0.22	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
JUN-2024	0.22	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
JUL-2024	0.25	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
AUG-2024	0.21	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
SEP-2024	0.22	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ

	Location-X (Deori )							
Month	Fe	Hg	Cd	Cr	Pb	Zn	As	Cu
	[mg/L]							
APR-2024	0.22	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
MAY-2024	0.23	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
JUN-2024	0.21	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
JUL-2024	0.24	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
AUG-2024	0.27	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
SEP-2024	0.25	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ

	Location-XI (Nvaadih )							
Month	Fe	Hg	Cd	Cr	Pb	Zn	As	Cu
	[mg/L]							
APR-2024	0.25	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
MAY-2024	0.24	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
JUN-2024	0.23	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
JUL-2024	0.20	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
AUG-2024	0.24	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
SEP-2024	0.28	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ

**Main Plant Effluent Monitoring**  
**Period of Observation: 01.04.2024 to 30.09.2024**

NTPC Sipat is complying with the requirement of zero liquid discharge. There is no discharge outside plant area from CMB. After treatment, water is being reused in ash slurry system.

**Table-VIII: Sanitary Effluent Monitoring**  
**Period of Observation 01.04.2024 to 30.09.2024**

At NTPC Sipat, there is no discharge of sanitary effluent. treated sanitary effluent is being used in horticulture.

Month	Sanitary Effluents			
	pH	TSS	BOD	COD
		[mg/L]		
APR-2024	7.4	13.5	5.7	35.2
MAY-2024	7.4	13.8	5.3	32.4
JUN-2024	7.3	12.9	5.7	30.8
JUL-2024	7.4	15.4	6.1	32.0
AUG-2024	7.2	13.9	5.7	28.5
SEP-2024	7.5	13.0	6.0	29.9

**Table-IX: Noise Monitoring**  
(Period of Observation: 01.04.2024 to 30.09.2024)

Locations	Date of Monitoring	Noise Levels in dB(A)	
		Day Time	Nighttime
Material gate	12-04-2024	56.8	46.2
CCR	12-04-2024	51.5	42.3
CHP	12-04-2024	52.6	43.3
Ralia	12-04-2024	41.6	34.3
Bhilai	12-04-2024	40.2	35.6
Hardadih	12-04-2024	51.6	39.4
Sukhripali	12-04-2024	39.5	35.6
Gataura	12-04-2024	48.2	39.7
ADM Gate	12-04-2024	51.3	47.5
Turbine Hall	12-04-2024	55.3	43.5
B-Type	12-04-2024	52.6	44.6
Material gate	13-05-2024	55.5	44.7
CCR	13-05-2024	52.3	43.3
CHP	13-05-2024	50.2	42.7
Ralia	13-05-2024	40.7	33.2
Bhilai	13-05-2024	41.6	36.4
Hardadih	13-05-2024	47.4	38.6
Sukhripali	13-05-2024	40.4	36.8
Gataura	13-05-2024	45.5	38.8
ADM Gate	13-05-2024	52.5	48.2
Turbine Hall	13-05-2024	54.6	44.8
B-Type	13-05-2024	51.3	43.3
Material gate	13-06-2024	54.7	42.6
CCR	13-06-2024	50.7	42.7

CHP	13-06-2024	53.3	41.3
Ralia	13-06-2024	38.7	34.4
Bhilai	13-06-2024	40.3	35.6
Hardadih	13-06-2024	48.4	40.4
Sukhripali	13-06-2024	41.6	35.7
Gataura	13-06-2024	43.7	37.6
ADM Gate	13-06-2024	50.7	47.2
Turbine Hall	13-06-2024	56.7	46.6
B-Type	13-06-2024	52.4	41.1
Material gate	13-07-2024	53.2	41.5
CCR	13-07-2024	49.6	41.3
CHP	13-07-2024	54.3	42.7
Ralia	13-07-2024	40.6	36.7
Bhilai	13-07-2024	38.7	32.7
Hardadih	13-07-2024	47.3	35.7
Sukhripali	13-07-2024	39.3	32.7
Gataura	13-07-2024	41.2	36.3
ADM Gate	13-07-2024	48.8	46.2
Turbine Hall	13-07-2024	54.2	43.3
B-Type	13-07-2024	50.4	39.3
Material gate	13-08-2024	51.6	40.2
CCR	13-08-2024	48.3	39.5
CHP	13-08-2024	52.2	41.7
Ralia	13-08-2024	42.7	35.3
Bhilai	13-08-2024	40.3	30.3
Hardadih	13-08-2024	43.6	32.2
Sukhripali	13-08-2024	38.7	31.2
Gataura	13-08-2024	40.7	33.3
ADM Gate	13-08-2024	50.1	42.8
Turbine Hall	13-08-2024	55.7	42.6
B-Type	13-08-2024	49.7	38.5
Material gate	13-09-2024	52.5	42.3
CCR	13-09-2024	46.3	38.5
CHP	13-09-2024	50.4	42.7
Ralia	13-09-2024	40.3	36.5
Bhilai	13-09-2024	38.5	32.6
Hardadih	13-09-2024	45.6	35.3
Sukhripali	13-09-2024	39.5	29.5
Gataura	13-09-2024	41.5	31.6



ADM Gate	13-09-2024	52.6	44.7
Turbine Hall	13-09-2024	58.2	43.6
B-Type	13-09-2024	50.7	39.6

Annexure to EC Condition  
 No 2(ii) of Stage I EC amendment dt 08.02.2017  
 No 5(iii) of stage I EC amendment dt 17.05.2018

### Sipat Super Thermal Power Station

Ambient Air Quality Around MGR												
Month	Lutra		Bitkula		Nirtu		Jhanjh		Utarda		Nevsa	
	PM10	PM2.5	PM10	PM2.5	PM10	PM2.5	PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Oct-24	36.75	23.01	38.43	23.52	39.16	23.86	37.62	22.51	38.57	23.49	38.26	23.23
Nov-24	38.09	22.27	38.56	22.13	39.07	22.83	37.8	21.92	39.03	24.05	36.82	21.38
Dec-24	38.72	22.38	38.61	22.4	39.56	23.21	39.82	22.76	40.09	24.16	38.24	22.43
Jan-25	39.91	22.91	40.52	24.45	41.24	24.01	38.62	21.93	40.77	24.5	40.06	23.05
Feb-25	39.46	22.44	40.83	22.97	41.75	23.94	39.66	21.47	40.98	23.11	39.46	21.96
Mar-25	40.62	23.74	41.38	24.30	42.67	24.81	39.25	22.41	41.71	24.89	40.92	23.47