JAIPRAKASH
POWER VENTURES LIMITED

JAYPEE NIGRIE SUPER THERMAL POWER PLANT
A DIVISION OF JAIPRAKASH POWER VENTURES LIMITED
ISO CERTIFIED : 9001 : 2015, 14001:2015, & 45001: 2018

QUALITY ENVIRONMENT HEALTH & SAFETY

JNSTPP/ EC/ MoEF/2025-26/31 **03rd Nov, 2025**

To
The Additional Principal Chief Conservator of Forests (C),
Ministry of Env., Forest and Climate Change, Regional Office (WZ),
E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road-3,
Ravishankar Nagar, Bhopal - 462016

Sub: Submission of Half Yearly Environmental Clearance Compliance Report of Jaypee Nigrie Super Thermal Power Plant (A Division of Jaiprakash Power Ventures Limited) , 2x660 MW Coal Based Super Critical Thermal Power Plant and 4.0 MTPA Cement Grinding Unit at Village Nigrie, Tehsil Sarai, Dist. Singrauli in Madhya Pradesh.

Sir,

With reference to the above mentioned subject, the compliance report is attached for the period (April, 2025 – September, 2025) of Jaypee Nigrie Super Thermal Power Plant, EC reference nos.:J-13012/223/2007-IA-II (T) dated 25.02.2010 and its amendment dated 13.07.2012 for the JNSTPP (2x660 MW) & JNCGU (4.0 MTPA) for your kind records please.

Thanking You
Yours Faithfully
For Jaypee Nigrie Super Thermal Power Plant
(A Division of Jaiprakash Power Ventures Ltd.)

Nadim Ahmad Khan
Vice President (Water Chem. & Env.)

Encl. – As above
CC to:

1. **The Regional Directorate (Central),** Central Pollution Control Board, 3rd Floor, Sahkar Bhawan, North T.T Nagar, Bhopal- 462003.
2. **The Chairman,** Madhya Pradesh State Pollution Control Board, Paryavaran Parisar, E-5 Arera Colony, Bhopal – 462016, Madhya Pradesh.
3. **Regional office - MP Pollution Control Board,** Bhakuar, Naugarh, Singrauli – 486887 (M.P.)

Site : Jaypee Nigrie Super Thermal Power Plant,Village & P.O. Nigrie Teh. Sarai, Distt. Singrauli (MP)
Ph: +91 (7801) 286021- 36, Fax: +(7801) 286020, Email: jpthermal.sidhi@jalindia.co.in
Corp. Office : JA House, 63, Basant Lok, Vasant Vihar, New Delhi - 110 057 (India)
Ph.: + 91 (11) 49828679, 49828642 Fax : +91 (11) 26145389
Regd.Office : Complex of Jaypee Nigrie Super Thermal Power Plant, Nigrie
Tehsil - Sarai, Distt. - Singrauli - 486669 (Madhya Pradesh)
Ph: +91 (7801) 286021- 39, Fax : +91 (7801) 286020
Website: www.jppowerventures.com, **CIN:** L40101MP1994PLC042920

JAYPEE GROUP

Half - Yearly Compliance Report
Of
Environmental Clearance
Period: April, 2025–September, 2025

Of

M/s Jaiprakash Power Ventures Ltd.

2 x 660 MW Jaypee Nigrie Super Thermal Power Plant
&
2.0 MTPA (Installed) Jaypee Nigrie Cement Grinding Unit
At
(V) Nigrie, (T) Sarai, (D) Singrauli, Madhya Pradesh

Submitted To:

Regional Office, Western Zone
Ministry of Environment, Forest & Climate Change
&
Zonal Office, Central Pollution Control Board, Bhopal &
Madhya Pradesh Pollution Control Board, Bhopal

JAIPRAKASH POWER VENTURES LIMITED
1320 MW (2x660 MW) Coal based Thermal Power Plant
30th Half Yearly Environmental Clearance Compliance statement of the stipulation of MoEF

EC Letter No.:- **J-13012/223/2007-IA.II(T)** dated 25.02.2010 and
Subsequent amendment in Environmental Clearance vide
Letter No.**J-13012/223/2007-IA.II (T)** Dated 13.07.2012

Clause No.	Terms and Conditions Description as per EC letter	Compliance Status report
i.	Environmental Clearance is subject to submission of complete details of R & R action plan (as applicable) with time schedule for implementation to the Regional Office of the Ministry and the Competent Authority in the state govt. The details shall include name of head of family wise details, the area of homestead land and other land to be acquired and the compensation paid/ proposed to be paid etc. The time schedule of implementation shall be given.	Our R&R plan has been submitted to the Regional Office of the Ministry vide our letter No. JPVL/JNSTPP/MOEF/2010 on dated 20th January, 2011. It was subsequently modified incorporating suggestions of MoEF and was further resubmitted vide letter no. - JPVL/ JNSTPP/ MOEF/2011 dated 29.06.2011.
ii.	Hydro-geological study of the area shall be **reviewed annually** and results submitted to the Ministry and concerned agency in the State Govt. In case adverse impact on ground water quantity & quality is observed, immediate mitigating steps to contain any adverse impact on ground water shall be undertaken.	Hydrogeological study of the plant and its buffer zone (10 km radius area) is being carried out every year by an independent agency, M/s Hydro-geosurvey Consultants Pvt. Ltd, Jodhpur (Rajasthan), a National Accreditation Board for Education and Training (NABET) Accredited & Quality Council of India (QCI) Accredited agency and reports are being submitted to concerned departments timely. The last study report was submitted in July, 2025 for the year 2024-2025. Water level check from the existing Piezometer wells is being regularly carried out on monthly basis. Periodic review is being done. Quality of ground water is being monitored in and around the plant premises. Ground water level in nearby villages is also being monitored to know the seasonal fluctuations. There is no adverse impact found in the quality & quantity of Ground Water.
iii.	Minimum required environmental flow suggested by the competent authority of the State Govt. shall be maintained in the Channel/ Rivers even in lean season. It shall be ensured that natural drainage in the region is not disturbed due to activities associated with	Being Complied. **The Water Resource Department and Government of Madhya Pradesh** has permitted JPVL to draw 42 MCM of water from Gopad River for Jaypee Nigrie Super Thermal Power Plant. The Minimum recommended discharge is being released in the River during lean period (i.e. from January to May).

<table>
<tr><td></td><td>operation of the plant.</td><td>Natural Drainage in the region is not being disturbed due to the activities associated with the operation of the plant.

The Project is not obstructing the flow of River Gopad, The natural drainage of the region is not being affected.</td></tr>
<tr><td>iv.</td><td>A stack of 275 m height (Bi-flue) shall be provided with continuous online monitoring equipments for SOx, NOx and PM. Exit velocity of flue gases shall not be less than 25 m/sec. Mercury emissions from stack shall also be monitored on periodic basis.</td><td>Bi-flue Stack of 275 m height is installed with Continuous Online Stack monitoring equipment's for parameters PM, SO_2, NOx & Hg.
The exit velocity of flue gases is more than 25.0 m/s as stipulated.

Mercury is also being monitored through installed online analyzers.</td></tr>
<tr><td>v.</td><td>For cement Grinding Unit two stacks of 55 m each with exit velocity not less than 10 m/s shall be installed. Emission from the Grinding Unit shall not exceed 50 mg/Nm3.</td><td><u>Cement Grinding Unit</u>
Two stacks of height 55m (each) with exit velocity not less than 10 m/s have been installed with Continuous Online Stack monitoring equipment's for parameter PM.
Further 2 nos. of Bag Houses attached to Cement Mills (Roll Press & Ball Mill) having respectively 1188 & 780 bags with guaranteed emission level less than 30 mg/Nm^3 at full load.</td></tr>
<tr><td>vi.</td><td>Fugitive emission in the Grinding Unit shall be controlled and data on fugitive emission shall be maintained in a log book and duly signed by the Head, Environment on a daily basis.</td><td>To control fugitive emissions all raw material conveying belts are covered. Cyclones followed by bag filters are provided at all transfer points. Additionally, mobile water sprinklers are deployed in Cement Grinding Unit area to suppress fugitive dust generated during movement of vehicles on haulage roads.</td></tr>
<tr><td>vii.</td><td>High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm^3.</td><td>Highly efficient BHEL make Electrostatic Precipitators (ESPs) with efficiency of 99.95% have been installed for each boiler to meet Particulate emission less than 50 mg/Nm^3.

Online Continuous Emission Monitoring System is installed to Monitor Emissions for both stacks (Unit 1 & Unit2) and data is being regularly transmitted to MPPCB & CPCB servers on real time basis and the results are within the prescribed norms.

PARTICULATE MATTER CONCENTRATION FOR STACK (UNIT-I&II) for the Period April, 2025- September, 2025
<table>
<tr><th rowspan="2">Unit No.</th><th colspan="3">Particulate Matter Concentration (mg/Nm^3)</th></tr>
<tr><th>Avg. Value</th><th>Maximum Value</th><th>Minimum Value</th></tr>
<tr><td>Unit-I</td><td>41.04</td><td>42.58</td><td>39.52</td></tr>
<tr><td>Unit-II</td><td>39.41</td><td>41.17</td><td>37.14</td></tr>
</table>
</td></tr>
<tr><td>viii.</td><td>Adequate dust extraction system such as cyclones/bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.</td><td>Adequate Air Pollution Control measures such as Dust Extraction System (Cyclone followed by Bag Filters) are installed in coal crusher house and coal transfer points.
Jet Sprinkler type Dust Suppression System in coal yard and Dry Fog type Dust Suppression System in belt conveyors have been provided.
<u>Arrangement for Dust Suppression</u>
A) Two number of Dust Extraction Systems in Crusher House are Bag house type with Capacity 46,000 m^3 and 1 number of Bag house for each Bunker (Unit 1 & 2) with Capacity 41,000 m^3.</td></tr>
</table>

		B) Dust Suppression systems are installed in Track Hopper and all 4 Paddle Feeders, for rake unloading at track hopper. Dust Suppression systems are also installed in Emergency reclaiming hopper. C) Jet Sprinkler type Dust Suppression System is installed in Coal Yard area for Bucket wheel stacker cum reclaimer. D) Dry Fog Dust Suppression system installed at all transfer points. E) Elaborate dust extraction & dust suppression system have been incorporated in the design of ash handling plant. ❖ One number of Dust extractions systems in Intermediate Silo is Bag Filter type in each unit, one number of bag filter for each Coarse Ash Surge Hopper (Unit 1 & 2) and two bag filters at Main Fly Ash Silo have been installed. ❖ Permanent Water Sprinkler arrangement is provided in Ash Pond for dust suppression.
ix.	Utilization of 100 % Fly ash generated shall be made from 4th year of operation of the plant. Status of implementation shall be reported to the regional Office of the Ministry from time to time.	111.56 % of Fly Ash (Dry Fly Ash and Pond Ash) has been utilized during Financial year April, 2024 to March, 2025 as per MoEF & CC Notification No. 763 (E) dated September 14, 1999 and its subsequent amendments on ash utilization from coal or lignite based thermal power plants. Status of Implementation is being reported to Regulatory Boards on regular basis. Fly Ash (Dry Fly Ash and Pond Ash) has been utilized during period April, 2025 – September, 2025, is 83.15 %. In addition Jaypee Nigrie Super Thermal Power Plant has achieved 111.56 % ash in the year 2024-25 to achieve 100% ash utilization in the first 3 year compliance cycle.
x.	Fly Ash shall be collected in dry form and storage facility (silos) shall be provided. 100% fly ash utilization shall be ensured from 4th year onwards. Unutilized fly ash shall be disposed off in the ash pond in the form of slurry. Mercury and other heavy metals (As, Hg, Cr, Pb etc.) will be monitored in the bottom ash as also in the effluents emanating from the existing ash pond. No ash shall be disposed off in low lying area.	Complied with. We have established 2 Intermediate silos to collect dry fly ash with each capacity of 450 MT & a fly ash bin of 400 MT capacities for utilization of dry ash in cement grinding unit and a storage silo of 20,000 MT capacities for utilization of dry ash. 111.56 % of Fly Ash has been utilized during Financial year April, 2024 to March, 2025 as per MoEF, New Delhi Notification No. 763 (E) dated September 14, 1999 and its subsequent amendments on ash utilization from coal or lignite based thermal power plants. Bottom ash is being disposed off in the ash pond in lean slurry disposal mode with ash to water ratio typical 1:2.8 with 100% recirculation of ash water. Regular Monitoring of Heavy Metals is being carried out in the bottom ash and ash pond water on Six monthly basis.

<table>
<tr><td>xi.</td><td>Ash pond shall be lined with HDP/LDP lining or any other suitable impermeable media such that no leachate takes place at any point of time. Adequate safety measures shall also be implemented to protect the ash dyke from getting breached.</td><td>The Design of an Ash Pond with two lagoons has been done by M/s Development Consultants Pvt. Ltd. (DCPL) a renowned designing agency. M/s DCPL drawing of an Ash Pond with two lagoons has been submitted to MPPCB vide letter no. JPVL/COORD/POLL/2013-14 dated 21.01.2014. The drawing No. is K6A24–DWG-C-595 Rev. 4.

The Ash Dyke has been constructed with upstream & downstream slopes (1V:2H). Ash Dyke has been constructed with HDPE lining on inner side and over that PCC (75mm) layer has been provided to protect it and eliminates any possibility of breach of embankment.

One Ash Pond with two lagoons is built over an area of 21.20 ha and equipped with 100% Ash water recirculation facility to prevent any ash mixed water discharge to outside. The Ash Dyke is situated within intact boundary wall of Power Plant.</td></tr>
<tr><td>xii.</td><td>For disposal of Bottom Ash (if proposed to be undertaken) in abandoned mines it shall be ensured that the bottom and sides of the mined out areas are adequately lined with clay before Bottom Ash is filled up. The project proponent shall inform the State Pollution Control Board well in advance before undertaking the activity.</td><td>Being Complied.</td></tr>
<tr><td>xiii.</td><td>Closed Cycle Cooling System with natural draft cooling towers shall be provided. The Effluents shall be treated as per the prescribed norms.</td><td>Recirculation type Closed Cycle Cooling Water System with Natural Draft Cooling Towers has been provided. The CT blow down is being treated adequately to meet the prescribed norms through High Rate Solid Contact Clarifier (HRSCC), Dual Media Filter (DMF), Ultra Filtration Unit (UF) and Reverse Osmosis (RO) system and reused in Cooling Tower Makeup, Service Water and HVAC system. RO reject water is used for Dust Suppression in Coal Handling Plant Areas.
TREATED EFFLUENT ANALYSIS(RO PERMEATE)
For the period of April, 2025- September, 2025
<table>
<tr><th>Month</th><th>pH</th><th>SS (mg/L)</th><th>TDS (mg/L)</th><th>COD (mg/L)</th><th>BOD (mg/L))</th><th>O&G (mg/L)</th><th>Chlorides (mg/L)</th></tr>
<tr><td>Apr -25</td><td>7.04</td><td>*BLQ (**LOQ-1.0)</td><td>13.9</td><td>13.02</td><td>*BLQ (**LOQ-2.0)</td><td>*BLQ (**LOQ-0.4)</td><td>2.40</td></tr>
<tr><td>May -25</td><td>7.15</td><td>*BLQ (**LOQ-1.0)</td><td>13.5</td><td>11.26</td><td>*BLQ (**LOQ-2.0)</td><td>*BLQ (**LOQ-0.4)</td><td>2.77</td></tr>
<tr><td>Jun -25</td><td>7.02</td><td>*BLQ (**LOQ-1.0)</td><td>11.9</td><td>10.56</td><td>*BLQ (**LOQ-2.0)</td><td>*BLQ (**LOQ-0.4)</td><td>2.21</td></tr>
<tr><td>July -25</td><td>7.06</td><td>*BLQ (**LOQ-1.0)</td><td>12.8</td><td>12.32</td><td>*BLQ (**LOQ-2.0)</td><td>*BLQ (**LOQ-0.4)</td><td>2.77</td></tr>
<tr><td>Aug -25</td><td>7.11</td><td>*BLQ (**LOQ-1.0)</td><td>13.7</td><td>10.56</td><td>*BLQ (**LOQ-2.0)</td><td>*BLQ (**LOQ-0.4)</td><td>3.13</td></tr>
<tr><td>Sep -25</td><td>7.15</td><td>*BLQ (**LOQ-1.0)</td><td>13.9</td><td>12.32</td><td>*BLQ (**LOQ-2.0)</td><td>*BLQ (**LOQ-0.4)</td><td>2.77</td></tr>
<tr><td colspan="8">*BLQ - Below Limit of Quantification,**LOQ - Limit of Quantification</td></tr>
</table></td></tr>
</table>

<table>
<tr><td>xiv.</td><td>The treated effluents conforming to the prescribed standards only shall be re-circulated and reused within the plant. There shall be no discharge outside the plant boundary except during monsoon. Arrangements shall be made that effluents and storm water do not get mixed.</td><td>All the generated effluents are being treated adequately in the WWTP. Treated water is being reused within the plant itself. The concept of “Zero Discharge Condition” is implemented.
No any mixing of storm water occurs as there is a separate drainage network established for storm water.
Upstream & Downstream water quality of Gopad River is also being monitored.</td></tr>
<tr><td>xv.</td><td>A sewage treatment plant shall be provided and the treated sewage shall be used for raising greenbelt/plantation.</td><td>Sewage Treatment Plants have been installed of capacity 1000 KLD and 100 KLD. Treated water reused suitably within the plant premises for green belt development purposes.
TREATED SEWAGE WATER ANALYSIS
(1000 KLD STP in Township Area)
For the period of April, 2025- September, 2025
<table>
<tr><th>Month</th><th>pH</th><th>SS (mg/L)</th><th>BOD (mg/L)</th><th>COD (mg/L)</th><th>O & G (mg/L)</th></tr>
<tr><td>Apr -25</td><td>7.33</td><td>18.3</td><td>17.0</td><td>96.7</td><td>2.60</td></tr>
<tr><td>May -25</td><td>7.42</td><td>21.5</td><td>19.0</td><td>104.5</td><td>2.10</td></tr>
<tr><td>Jun -25</td><td>7.27</td><td>17.8</td><td>15.0</td><td>88.0</td><td>1.90</td></tr>
<tr><td>July -25</td><td>7.36</td><td>20.2</td><td>18.0</td><td>96.2</td><td>2.10</td></tr>
<tr><td>Aug -25</td><td>7.42</td><td>23.4</td><td>19.0</td><td>105.4</td><td>2.75</td></tr>
<tr><td>Sep -25</td><td>7.35</td><td>19.7</td><td>17.0</td><td>96.4</td><td>2.11</td></tr>
</table>
TREATED SEWAGE WATER ANALYSIS
(100 KLD STP in Plant Area)
For the period of April, 2025- September, 2025
<table>
<tr><th>Month</th><th>pH</th><th>SS (mg/L)</th><th>BOD (mg/L)</th><th>COD (mg/L)</th><th>O & G (mg/L)</th></tr>
<tr><td>Apr -25</td><td>7.22</td><td>14.8</td><td>13.0</td><td>78.2</td><td>1.74</td></tr>
<tr><td>May -25</td><td>7.30</td><td>17.2</td><td>15.0</td><td>86.8</td><td>1.93</td></tr>
<tr><td>Jun -25</td><td>7.15</td><td>12.9</td><td>12.0</td><td>70.0</td><td>1.75</td></tr>
<tr><td>July -25</td><td>7.10</td><td>15.5</td><td>14.0</td><td>87.5</td><td>1.87</td></tr>
<tr><td>Aug -25</td><td>7.18</td><td>18.2</td><td>16.0</td><td>96.7</td><td>2.18</td></tr>
<tr><td>Sep -25</td><td>7.11</td><td>17.3</td><td>14.0</td><td>79.6</td><td>1.90</td></tr>
</table></td></tr>
<tr><td>xvi.</td><td>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 and details shall be furnished.</td><td>Rain Water Harvesting scheme has been prepared & submitted to obtain approval of the technology from Regional Director, Central Ground Water Board, Bhopal and also submitted the same to the MoEF along with the EC Compliance Report of June, 2013.

Rain water harvesting pit within the township area has been constructed to augment the ground water table and to recharge ground water during monsoon season.</td></tr>
<tr><td>xvii.</td><td>Adequate safety measures shall be provided in the plant area to check/ minimize spontaneous fires in coal yard, especially during summer season. Copy of these measures with full details along with location plant lay out shall be</td><td>Fire-fighting team along with requisite equipment’s is available at site & the said team is also supporting the requirements of the neighboring villages to take preventive control measures against Fire (if any) along with adequate safety measures.

Mock drills are being conducted periodically.
Fire hydrant and water jet type sprinklers are installed in the coal yard.</td></tr>
</table>

	submitted to the Ministry as well as to the Regional Office of the Ministry.	Reviewed On Site Emergency Plan of Jaypee Nigrie Super Thermal Power Plant was Submitted to The Director, Industrial Health & Safety, Indore vide OSEP No.RE18122411507294 and approval of the same was granted on dated 17.01.2025 having validity up to 16/01/2027.
xviii.	Storage facilities for auxiliary liquid fuel such as LDO and HFO/LSHS shall be made in the plant area in consultation with the Department of Explosives, Nagpur. Sulphur content in the liquid fuel will not exceed 0.5%. Disaster Management Plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of oil.	Storage facilities for auxiliary liquid fuel are made in the plant area and license obtained from Department of Explosives, Nagpur/ Bhopal. Validity of license No. P/HQ/MP/15/2876(P311713) from Jt. Chief Controller of Explosives, Bhopal, for Petroleum Class C (LDO & HFO) in bulk installation was obtained on dated 09/01/2023 having validity up to 31st December 2027. Onsite Emergency Plan (Disaster Management Plan) has been approved by Director- Industrial Health and Safety, Indore (M.P), vide. OSEP No.RE18122411507294, having validity up to 16/01/2027. This plan covers all type of emergency including storage of oil.
xix.	Regular monitoring of ground water level shall be carried out by establishing a network of existing wells and constructing new piezometers. Monitoring around the ash pond area shall be carried out particularly for heavy metals (Hg, Cr, As, Pb) and records maintained and submitted to the Regional Office of this Ministry. The data so obtained should be compared with the baseline data so as to ensure that the ground water quality is not adversely affected due to the project.	Regular monitoring of ground water level by establishing a network of 8 nos. of Piezometer wells within plant area is being carried out on monthly basis. Monitoring of ground water (Piezometer wells) for heavy metals (Hg, Cr, As, Pb) is being carried out regularly on six Monthly basis. Third Party Test Report is annexed as **Annexure – I.**
xx.	Green belt consisting of 3 tiers of plantations of native species around plant and at least 100 m width shall be raised. Wherever 100 m width is not feasible a 50 m width shall be raised and adequate justification shall be submitted to the Ministry. Tree density shall not less than 2500 per ha with survival rate not less than 70%.	Complied with. ➢ Green belt development/Plantation is being carried out inside the plant premises. An effective green belt is being developed with suitable native species as per CPCB guidelines. Efforts are further made to develop more green belt in the plant. A nursery is also established at site. ➢ Green belt & Green cover is being developed continuously. ➢ Greenbelt is being developed in a phased manner along the periphery of the Power Plant and Grinding Unit. ➢ 33% of total area has been developed as Green belt area located in and around plant including cement grinding unit i.e. around 144.21 hectares of green belt area has been developed as per the guidelines given by CPCB. Total number of saplings planted/replanted up to 30th September 2025 is approximately 6.04842 Lac.

xxi.	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	First Aid and sanitation facility provided for the drivers and contract workers during construction phase. Site sanitation and housekeeping is being maintained regularly. 10 bedded Hospital equipped with all required facilities for First Aid is available at site.
xxii.	Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 75 dBA. For people working in the high noise area, requisite personal protective equipment like ear plugs/ear muffs etc shall be provided. Workers engaged in noisy area such as turbine area, air compressors etc. shall be periodically examined to maintain audiometric record and for treatment of any hearing loss including shifting to non- noisy /less noisy areas.	Complied, the steam turbines (ST) are enclosed in the building. Acoustic enclosures are provided to minimize noise from these machines. All The equipment's are provided with acoustic hoods to control noise. The ambient noise levels are well below 75 dBA (during day time) and 70 dBA (night time) as prescribed under EPA rule, 1986. Ambient noise levels in and around the Plant area are monitored monthly. Noise levels are well under the prescribed limit. All safety equipment's like Ear muffs, Ear Plugs are provided to all the workers & employees and made mandatory. Periodic audiometric checkup is being carried out and records are being maintained. Further the Company has obtained IMS - Integrated Management System Certificate covering ISO 9001:2015 (QMS – Quality Management System), ISO 14001:2015 (EMS - Environmental Management Systems), ISO 45001:2018 (OHSAS - Occupational Health and Safety Assessment Series) & ISO 27001:2015(ISMS-Information Security Management System).
xxiii.	Regular monitoring of Ground level concentration of SO_2, NO_X, RSPM and Hg shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.	➢ Baseline monitoring was conducted during EIA study. Weekly monitoring (Manual/ Offline) during operational phase is being carried out regularly. ➢ Four Continuous Real time Ambient Air Quality Monitoring Stations are provided along the boundary considering the wind rose/wind directions and the real time data of the CAAQMS, CEMS and CEQMS is being transmitted to MPPCB server at Bhopal & CPCB server at Delhi and the same is also displayed at the main gate of the company. ➢ Compliance on EC conditions including results of monitoring data is being submitted to the concerned authority on regular basis and the same also uploaded in company website along with EC Compliance Report. ➢ Quarterly Environmental Monitoring Reports are also made available on the website of the company. ➢ Regular monitoring of PM_{10}, $PM_{2.5}$, SO_2, NO_2 and CO is being carried out as per the frequency & monitoring results are well within the prescribed norms. ➢ Offline Monitoring results are being submitted to MPPCB quarterly.

AAQMS Results
For the period of April, 2025- September, 2025

LOCATION : Near STP - Colony area					
	$PM_{2.5}$ ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)	CO (mg/m^3)
Minimum	19.3	36.8	5.7	11.4	0.43
Maximum	28.4	55.5	7.0	13.5	0.54
Average	23.7	45.6	6.3	12.4	0.47

LOCATION : Near H_2 Gas cylinder shed					
	$PM_{2.5}$ ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)	CO (mg/m^3)
Minimum	22.0	41.2	6.4	12.0	0.45
Maximum	29.1	57.6	8.0	14.1	0.58
Average	25.3	48.9	7.1	12.9	0.51

LOCATION : Near Watch tower 22 (Grinding Unit)					
	$PM_{2.5}$ ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)	CO (mg/m^3)
Minimum	22.1	41.4	6.6	12.2	0.46
Maximum	29.8	58.8	8.3	14.6	0.62
Average	25.7	49.8	7.3	13.4	0.54

LOCATION : Near Fuel storage tank					
	$PM_{2.5}$ ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)	CO (mg/m^3)
Minimum	23.5	44.4	6.9	12.7	0.49
Maximum	31.0	61.3	8.6	15.0	0.65
Average	27.3	52.6	7.7	13.8	0.56

xxiv.	A good action plan for R & R (if applicable) with package for the project affected persons be submitted and implemented as per prevalent R & R policy **within three months** from the date of issue of this letter.	The report has been submitted to MoEF& CC on 20th Jan 2011 vide our letter No. JPVL/JNSTPP/MoEF/2010. It was subsequently modified incorporating suggestions of MOEF and was resubmitted vide letter no. - JPVL /JNSTPP/ MoEF/2011 dated 29.06.2011.
xxv.	An amount of Rs. 24.0 crores shall be earmarked as one time capital cost for CSR programme. Subsequently a recurring expenditure of Rs. 4.80 Crore per annum shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be **submitted within one month** along with road map for implementation.	➢ A separate budget earmarked for CSR activities. CSR study report already submitted to the Ministry vide letter no. - JPVL/ JNSTPP/ MOEF/2010 dated 20.01.2011 and 29.06.2011. ➢ For CSR activities capital outlay of more than Rs. 24.00 crores has been made. ➢ The company is carrying out CSR activities in the vicinity of the Project as per the directions and guidance of the District Administration. ➢ Unit is also investing on CSR Activities on Rural Development Projects like maintenance of Bore well in Nigrie village.

		➢ Providing furniture & building material to govt. local office & school. ➢ Promotion of Safety/Cultural/sports activities in nearby Rural Areas/villages (Nigrie & Niwas) and providing water via water tankers to the nearby villages (Nigrie, Niwas, Katai, Papal & Belgaon) as per requirement. ➢ Promoting Education through Sardar Patel School under Jaiprakash Sewa Sansthan. ➢ Fencing with precast poles of Gaushala at Nigrie. ➢ Construction of temple in Niwas village & road in Katai village. ➢ Water provided to villagers by tanker. ➢ Provide transportation facility of school for the children's of rural areas. ➢ For promoting education through Jayprakash Seva Sansthan, extension building of Jay Jyoti School & Sardar Patel School. ➢ Promoting Social work in Nigrie, Katai, Papal & Niwas Villages. Total expenditure incurred up to September, 2025 is Rs 12.2117 Crores.
xxvi.	As part of CSR programme the company shall conduct need based assessment for the nearby villages to study economic measures with action plan which can help in upliftment of poor section of society. Income generating projects consistent with the traditional skills of the people besides development of fodder farm, fruit bearing orchards, vocational training etc. can form a part of such programme. Company shall provide separate budget for community development activities and income generating programmes. This will be in addition to vocational training for individuals imparted to take up self-employment and jobs.	Based on Need Based Assessment Study for development of nearby villages, an action plan was worked out for income generating projects for upliftment of poor section of society. **The following activities were undertaken:** ➢ Sardar Patel Uchchtar Madhyamik Vidyalaya was started up to class Vth w.e.f. July, 2011 and subsequently upgraded up to 12th class in July, 2024 session. ➢ Free Education & Free Mid-Day Meals provided to the children of affected village Nigrie & Sardar Patel School, Nigrie. ➢ Free Health Check-Up & Health cards provided to the 213 students. ➢ Free electricity supply is provided to the Street Lights in R & R Colony. ➢ Providing Mobile Hospital & Ambulance Service to affected villages (Nigrie, Niwas, Katai, Hardi, Mahuagaon, Chamrach and Joba).

		"Transform Singrauli" Project under Indian government and MP Government:- ➢ Providing free Medical Check-up facility, Ambulance facility, Free Medicines in nearby villages (Nigrie, Niwas, Katai, Hardi, Mahuagaon and Chhamrach). ➢ Established/Started Kuteer Udyog, Training Center for Stitching.
xxvii.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Labour hutments had been established & developed with all required amenities like toilet, drinking water & infrastructure, Medical health care etc.
xxviii.	The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter 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.	As mandated, We have informed the public through the local newspaper announcements in vernacular language that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with State Pollution Control Board and may also seen at website of the MoEF&CC at http:/envfor.nic.in.
xxix.	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/ Municipal corporation, Urban Local Body and the local NGO, if any from whom suggestions/ representations, if any, received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	Copy of EC accorded has been submitted to local panchayat & Zilaparishad. We have uploaded copy of EC letter in our company website.
xxx.	A separate Environment Management Cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	We have formed a separate full-fledged Environment Management Cell headed by Vice President supported by Addl. General Manager, Asst. Manager, Asst. Officer and Chemists of laboratory for implementation and compliance of the stipulated environmental safeguards.

xxxi.	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO_2, NO_x (ambient levels as well as stack emission) shall be displayed as a convenient location near the main gate of the company in the public domain.	Complied, We are regularly submitting Six Monthly EC Compliance reports to MoEF& CC Regional Office, CPCB Zonal Office and SPCB. Six Monthly Compliance Reports on EC conditions including results of monitoring data is being uploaded on company's website and we have also made available display in front of the main gate for displaying of ambient air quality data as well as stack emissions levels of both the units.
xxxii.	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	Complied, Six Monthly EC Compliance reports are being regularly submitted to MoEF, CPCB & MPPCB. Last EC Compliance report for the period October, 2024 to March, 2025 was submitted vide our letter no: **JNSTPP/ EC/ MoEF/2024-25/30** on dated 02nd May, 2025 and copy of the same is also uploaded on the company website.
xxxiii.	The environment statement of each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned state pollution control board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with status of compliance of EC conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail.	Compliance assured, Submitted Environmental Statement in Form- V for the Financial year 2024 -25 to the State Pollution Control Board authorities vide our letter no. JVPL/EC/ES/2024-25 on dated July 22nd, 2025 and the same was also uploaded on the company website.
xxxiv.	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status of compliance of the	Being complied, Six Monthly Environmental Clearance compliance status report is being regularly submitted to MoEF, CPCB and SPCB. Compliance status updated on Company's website.

<table>
<tr><td></td><td>environmental clearance conditions on their website and update the same periodically and simultaneously send the same by email to the Regional Office, Ministry of Environment and Forests.</td><td></td></tr>
<tr><td>xxxv.</td><td>Regional Office of the Ministry of Environment & Forests will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring. Project proponent will upload the compliance status in their website and update the same from time to time at least six monthly basis. Criteria pollutants levels including NOx (from stack & ambient air) shall be displayed at the main gate of the power plant.</td><td>Will be complied with, Six Monthly Environmental Clearance Compliance status report is regularly submitted to MoEF, CPCB and SPCB.
• Compliance status updated on Company’s website.
• Display board installed in front of main gate.
• Results are being displayed at Main gate of the plant.</td></tr>
<tr><td>xxxvi.</td><td>Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These cost shall be included as part of the project cost.
The funds earmarked for the environmental protection measures shall not be diverted for other purposes and year -wise expenditure should be reported to the Ministry.</td><td>Complied, Dedicated fund has already been allocated, included in Project Capital Cost and being utilized for Environmental Protection Measures i.e., Low NOx Burners, Constructions of 275m Stack with CEMS, Protection measures from Noise, Waste Water Treatment Plant, Sewage Treatment Plant, Green Belt Development.
Suppression of Fugitive Emission, Maintaining ZLD, Plantation in the periphery of the project area, constant monitoring of the pollution affects within the project area etc. are being undertaken on regular basis.
Recurring expenditures for the period April, 2025 – September, 2025 is as below:
<table>
<tr><td>Green Belt Development</td><td>Rs 18,48,000/-</td></tr>
<tr><td>Maintenance cost in CHP</td><td>Rs 65,79,298/-</td></tr>
<tr><td>Operation cost in ESP</td><td>Rs 4,35,76,832/-</td></tr>
<tr><td>Operation Cost of ETP</td><td>Rs 53,65,610/-</td></tr>
<tr><td>Operation Cost of STP</td><td>Rs 14,74,119/-</td></tr>
</table></td></tr>
</table>

xxxvii.	The project authorities shall inform the Regional Office as well as the Ministry regarding the date of financial closure and final approval of the project by the concerned authorities and the dates of start of land development work and commissioning of plant.	Complied, The project has achieved Financial Closure on **07/05/2010.** Unit- I was commissioned on 01/09/2014 & information was sent to MPPCB vide letter No. JNSTPP/PCB/2014-15 dated November 3rd, 2014. Unit- II was commissioned on 24/03/2015 & information was sent to MPPCB vide letter No. JNSTPP/PCB/2015-16 Dated May 26th, 2015. Cement Grinding Unit was commissioned on 09/10/2014 & information was sent to MPPCB vide letter No. JNSTPP/PCB/ 2015-16 Dated May 28th, 2015.
xxxviii	Full cooperation shall be extended to the Scientists/ Officers from the Ministry / Regional Office of the Ministry at Bangalore/ CPCB/ SPCB who would be monitoring the compliance of environmental status.	Company has been fully cooperating and extending full support to the concerned authorities and will also cooperate in future.
xxxix.	Bag house and dust suppression shall be installed in packing area to control the particulate and fugitive emissions.	2 nos. of Bag Houses are attached to Cement Mills (Roll Press & Ball Mill) with guaranteed emission level of <30 mg/Nm^3 at full load. Each Bag House has 1188 & 780 bags respectively. **<u>To control fugitive emissions following measures have been taken:</u>** 1. All raw material conveying belts are covered. 2. Cyclones followed by Bag Filters are provided at all transfer points. 3. Mobile water sprinklers are deployed in Grinding Unit area to suppress fugitive dust while movement of vehicles on haulage roads.

Vardan Envirolab LLP
Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (HR)
ISO 9001 | ISO 14001 | ISO 45001

Test Report

Name & Address of the Party:	**M/s Jaypee Nigrie Super Thermal Power Plant (A Division of Jaiprakash Power Ventures Limited) Village & P.O. Nigrie,Tehsil-Sarai, Distt. Singrauli (M.P.)**	**Report No.:**	**VEL/W/2507230002**
		Party Reference No.:	**NIL**
		Reporting Date:	**28/07/2025**
		Period of Analysis:	**23/07/2025-28/07/2025**
		Receipt Date:	**23/07/2025**
Sample Description:	**Piezo well water**	**Sampling Date:**	**21/07/2025**
Parameter Required	**Heavy Metals**	**Sampling Quantity:**	**2.0Ltr.**
Preservation:	**Refrigerated**	**Sampling Type:**	**--**
Sample Collected by:	**Vardan Enviro Lab Representative**	**Test Method**	**VEL/STP/ICP/W-01**
Analysis Protocol:	**VEL/STP/ICP/W-01**		

S. No.	Locations	Arsenic as As in mg/l	Mercury as Hg in mg/l	Total Chromium as Cr in mg/l	Lead as Pb in mg/l
Instrument used for analysis		ICP-MS (7800) Agilent	ICP-MS (7800) Agilent	ICP-MS (7800) Agilent	ICP-MS (7800) Agilent
1.	Near NDCT	BLQ (LOQ-0.005)	BLQ (LOQ-0.0005)	BLQ (LOQ-0.002)	BLQ (LOQ-0.002)
2.	Near Crusher	BLQ (LOQ-0.005)	BLQ (LOQ-0.0005)	BLQ (LOQ-0.002)	BLQ (LOQ-0.002)
3.	Near fruit Orchard in Colony	BLQ (LOQ-0.005)	BLQ (LOQ-0.0005)	BLQ (LOQ-0.002)	BLQ (LOQ-0.002)
4.	Near Sardar Patel School	BLQ (LOQ-0.005)	BLQ (LOQ-0.0005)	BLQ (LOQ-0.002)	BLQ (LOQ-0.002)
5.	Near Reservoir II	BLQ (LOQ-0.005)	BLQ (LOQ-0.0005)	BLQ (LOQ-0.002)	BLQ (LOQ-0.002)
6.	Near Gate No.3	BLQ (LOQ-0.005)	BLQ (LOQ-0.0005)	BLQ (LOQ-0.002)	BLQ (LOQ-0.002)
7.	Near Awas Gate	BLQ (LOQ-0.005)	BLQ (LOQ-0.0005)	BLQ (LOQ-0.002)	BLQ (LOQ-0.002)
8.	Near Wagon Tippler	BLQ (LOQ-0.005)	BLQ (LOQ-0.0005)	BLQ (LOQ-0.002)	BLQ (LOQ-0.002)
Instrument Detection Limit		0.005 mg/l	0.0005 mg/l	0.002 mg/l	0.002 mg/l
Limits as per IS 10500:2012	Requirement (Acceptable Limits)	0.01	0.001	0.05	0.01
	Permissible Limit in the Absence of Alternate Source	0.05	No Relaxation	No Relaxation	No Relaxation

*BLQ – Below Limit of Quantification, **LOQ – Limit of Quantification

(Analyzed By) (Reviewed By) (Authorized Signatory)

Terms & Conditions
- The results reported relate only to the samples tested. In case sample is not drawn the results apply to the sample as received.
- This test report in full or in part, shall not be reproduced in any court of law without prior written approval of the laboratory.
- To confirm the authenticity of this certificate of analysis, please contact us through email at environment@vardan.co.in
- Laboratory is not responsible for the authenticity of photocopied test report. The test samples will be retained only for specific period
- The report no. with Suffix-A-Amended Report.
- This test report will not be used for publicity or advertising or media purpose without prior written permission on the laboratory.
- Giving opinions does not imply endorsement of the tested sample by the lab. Under no circumstances, the lab accepts any liability caused by the use or misuse of the test report.

www.vardan.co.in
Customer Care: 8010127843, Ph: 0124-4343750, 9810355569, 9953147268 | E-mail: environment@vardan.co.in, bd@vardan.co.in