JNSTPP/ EC/ MoEF/ 2016-17/12A

August 09th, 2016

The Director
Ministry of Environment, Forest & CC
Govt. of India
Regional Office, Western Region
Bhopal – 462016 (M.P.)

Sub: Submission of Six Monthly Environmental Compliance Report with explanatory responses of Jaypee Nigrie Super Thermal Power Project (A Division of Jaiprakash Power Ventures Limited) of 2x660 MW Coal Based Thermal Power Plant and 2.0 MTPA Cement Grinding Unit at village Nigrie, Tehsil Sarai, Singrauli Dist. in Madhya Pradesh.

Ref: No.: 4-9/2010/ENV/692 Dated: 28.06.16

Sir,
With reference to the above mentioned subject and letter No.: 4-9/2010/ENV/692 Dated: 28.06.16 from your office we are submitting the compliance report to Stipulated conditions of E.C. in adequate clarity in hard and soft copy for the period (October 2015–March 2016) of Jaypee Nigrie Super Thermal Power Project, 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) & 2.0 MTPA Cement Grinding Unit for your kind record please.

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

(Vinod Sharma)
President (O & M)

Encl. – As above
CC to:
1) **Zonal Office**
Central Pollution Control Board
Bhopal – (M.P.) 462016 - **For information please.**

2) **Member Secretary**
Madhya Pradesh Pollution Control Board
Bhopal (M.P.) 462016 - **For information please.**

3) **Regional Officer**
Madhya Pradesh Pollution Control, Singrauli - For information please.

JAYPEE GROUP

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Corp. Office : Sector - 128, Noida - 201304, Uttar Pradesh (India) Ph. : +91 (120) 4609000, 2470800 Fax : +91 (120) 4609464, 4609496
Head Office : 'JA House', 63, Basant Lok, Vasant Vihar, New Delhi - 110 057 (India) Ph. : +91 (11) 26141540, 26147411 Fax : +91 (11) 26145389, 26143591
Regd. Office : JUIT Complex, Waknaghat, P.O. Dumehar Bani, Kandaghat-173215, Distt. Solan (H.P.) Ph. : +91 (1792) 257999, 245367 Fax : +91 (1792) 245362
Website : www.jalindia.co.in CIN : L40101HP1994PLC015483

Name of Project: Jaypee Nigrie Super Thermal Power Plant of 2x660 MW capacity and Jaypee Nigrie Cement Grinding Unit with 2.00 MTPA capacity.
Clearance Letter No: J-13012/223/2007-IA.II dated 25.02.2010 **Project Code:** PCB ID - 26876
and amendment dated 13.07.2012.
Period of Compliance Report: Oct. 2015 to March 2016

No.	Conditions	Status of Compliance
i.	Environmental Clearance is subject 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 and other land to be acquired and the compensation paid/proposed to be paid etc. The time schedule of implementation shall be given.	Details of R&R plan with time bound schedule was submitted to MoEF vide our letter no. - JPVL/JNSTPP/MOEF/2010 dated 20.01.2011. It was subsequently modified incorporating suggestions of MOEF and was 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.	The hydro-geological study of the area is being carried out regularly by M/s. Hydro-Geosurvey Consultants Pvt. Ltd, Jodhpur and summary of report in respect of hydro-Geological studies carried out are being submitted regularly. Report of the Hydro-geological study carried out during 2014-15 is already submitted with EC compliance report of May 2015. As per the hydro-geological study carried out, there is no adverse impact on ground water quality & quantity. Hydro-geological study & Lean Flow of Gopad River study done in July 2015.
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 operation of the plant.	A water reservoir for storage of water for 60 days at full load operation on the land having area of 80 ha has been constructed in two compartments. Minimum required environmental flow of 0.50 cusecs suggested by the Office of Chief Engineer (BODHI), Water Resources Department, Bhopal, Government of Madhya Pradesh is maintained in the River even in lean season. It is ensured that natural drainage of area is not disturbed, the drainage scheme of the project is so designed to route adjoining area rain/ drainage water via plant storm water drainage system and finally to follow the path of natural drainage.
iv.	A stack of 275 m height (Bi-flue) shall be provided with continuous online monitoring equipments for SO2, NOx and PM. Exit velocity of flue gases shall not be less than 25 m/sec. Mercury emission from stack shall also be monitored on periodic basis.	The 275 m height bi-flue chimney has been constructed. On-line monitoring equipment for SO2, NOx, Particulate Matter and Mercury emission has been installed & commissioned on the stack. The designed velocity of flue gas from stack is much higher (29 m/sec) against minimum requirement of 25 m/sec. Mercury emissions are also monitored continuously through Online Analyzers.

v.	For cement Grinding Unit two stacks of 55 m each with exit velocity not less than 10 m /s shall be installed. mission from the Grinding Unit shall not exceed 50 mg/Nm3.	Two stacks of 55m each with exit velocity not less than 10 m /s have been installed for Cement Grinding Unit. Thermax India Ltd. has supplied and erected 2 nos. of Bag Houses attached to cement mills(Ball & Roll Press Mill) with guaranteed emission level of <50 mg/Nm3 at full load. Each Bag House has 780 & 1188 bags respectively. For Roller Press Stack the average concentration of PM is 20.90 mg/Nm3, maximum concentration is 30.15 mg/Nm3 & the minimum concentration is 12.13 mg/Nm3. For Cement Mill Stack the average concentration of PM is 20.98 mg/Nm3, maximum concentration is 31.24 mg/Nm3 & the minimum concentration is 8.80 mg/Nm3.
vi.	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.	Being complied. We have installed 34 no. of Bag Filters at various source points to control the fugitive emission as per CPCB guidelines. Regular monitoring of Fugitive Dust Concentrations in the Cement Grinding Unit is being carried and Record on the data is maintained.
vii.	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm3.	The High Efficiency ESP installed by M/s. BHEL (A Govt. of India Undertaking), with guaranteed emission level of less than 50 mg/Nm3 with one field out of service at full load with worst coal. Each ESP has six passes and each pass, having 16 fields (i.e. total 96 fields) in the ESP. For Stack U-I maximum concentration of PM is 39.98 mg/Nm3, minimum concentration is 21.24 mg/Nm3 & the average concentration is 30.61 mg/Nm3. For Stack U-II maximum concentration of PM is 46.05 mg/Nm3, minimum concentration is 29.17 mg/Nm3 & the average concentration is 37.61 mg/Nm3.
viii	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.	Adequate dust extraction & dust suppression systems such as bag filters and water sprinkling system have been installed, in dusty area like coal handling, ash handling, transfer points and other dust generation areas of the plant. We have installed 7 nos. of bag filters at various point source emissions to control the fugitive emission. **<u>Fly ash Handling Plant:</u>** Intermediate Silo - 02 No. Coarse Surge Hopper - 02 No. **<u>Coal Handling Plant:</u>** Coal Bunker - 02 No. Crusher House - 01 No.

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.	On full load of power generation, it requires to fire coal up to 5.7 Million Ton per annum with maximum ash content of 28.80% in the coal from the dedicated blocks, the annual fly ash generation shall be 1.177 MTPA. Total Ash Generation- 1.477 MTPA (Fly ash - 1.177 MTPA & Bottom Ash - 0.30 MTPA). • Consumption in adjacent Cement Grinding Unit- 1.20 MTPA • Consumption of Fly ash in nearby Cement Plants (Jaypee Rewa, Bela & Sidhi) - 0.588 MTPA • 100% utilization of Fly ash in cement manufacturing since inception. **Fly Ash Generation & Usage details for the period Oct 2015 to March 2016 is as follows:** Fly Ash generated : 516247.7 Metric Tonne Usage of Fly Ash : 461407.32 Metric Tonne
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.	Fly ash is collected in dry form only. TPP discharges Fly ash into day Silo and from day Silo it is pneumatically conveyed to a large Fly ash storage Silo (20,000 MT) within Cement Grinding Unit. 100% utilization of Fly ash from since inception. Bottom ash is being carried in slurry form to the ash dyke situated inside the plant premises. Ash dyke is lined with fine sand then HDPE (1 mm thickness) lining and over that PCC. Bottom Ash will also be suitably utilized after drying to meet the stipulation of Fly ash Notification. Heavy metals i.e. As, Hg, Cr, Pb etc. are being monitored periodically.
xi	Ash pond shall be lined with HDPE/LDPE 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.	The HDPE lining of 1.00 mm is provided to prevent any leaching. Ash Dyke embankment has been constructed with a layer of fine sand then HDPE lining 1 mm thickness & over that PCC to protect the possibility of any breach on embankment.
xii	For disposal of Bottom Ash (if proposed to be undertaken) in abandoned mines 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.	Not applicable, as the disposal of bottom ash is not envisaged in any abandoned mines. Bottom ash is being carried in slurry form to the ash dyke situated inside the plant premises.
xiii	Closed cycle cooling system with natural draft cooling towers shall be provided. The Effluents shall be treated as per the prescribed norms.	Cooling Water is in close circuit loop system. The Cooling Tower 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 RO system and reused in Cooling Tower makeup, service water and HVAC system.

<table>
<tr><td></td><td></td><td>Treated water Analysis results are:

<table><tr><th rowspan="2">Sr. No.</th><th rowspan="2">Testing Parameters</th><th colspan="3">Observed value</th></tr><tr><th>Min</th><th>Max</th><th>Average</th></tr><tr><td>1</td><td>pH</td><td>7.1</td><td>7.6</td><td>7.4</td></tr><tr><td>2</td><td>TSS (mg/l)</td><td>38.0</td><td>51.0</td><td>44.9</td></tr><tr><td>3</td><td>TS (mg/l)</td><td>421.0</td><td>524.0</td><td>482.7</td></tr><tr><td>4</td><td>COD (mg/l)</td><td>36.0</td><td>74.0</td><td>56.2</td></tr><tr><td>5</td><td>BOD (mg/l)</td><td>3.0</td><td>8.0</td><td>5.1</td></tr><tr><td>6</td><td>Oil & Grease (mg/l)</td><td>3.9</td><td>6.0</td><td>5.2</td></tr></table>
The RO reject water is used in Dust Suppression in Coal Handling Plant areas.</td></tr>
<tr><td>xiv</td><td>The treated effluents conforming to the prescribed standards only shall be recirculated 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>The treated effluent conforming to the prescribed standards is recirculated and reused within the plant. There shall be no discharge outside the plant boundary except during monsoon. Arrangements have been made that effluent and storm water does not get mixed. The storm water drainage scheme within the plant has been so prepared that it does not mix with effluent. Based on Zero discharge principle the ETP system/Waste Water Treatment Plant (WWTP) comprising of collocation, clarification, filtration, ultra filtration (UF) and Reverse Osmosis (RO) system is installed and the treated water is recycled and used in system again.</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>STP of 1000 KLD has been installed & under operation. The treated sewage water is utilized for green belt/plantation. Solid residue of STP is used as manure. The treated effluent analysis results are as follows.

<table><tr><td rowspan="2">Sr. No.</td><td rowspan="2">Testing Parameters</td><td colspan="3">Observed value</td></tr><tr><td>Min</td><td>Max</td><td>Average</td></tr><tr><td>1</td><td>pH</td><td>7.5</td><td>7.7</td><td>7.6</td></tr><tr><td>2</td><td>BOD (mg/l)</td><td>5.0</td><td>16.0</td><td>8.6</td></tr><tr><td>3</td><td>COD (mg/l)</td><td>48.0</td><td>77.4</td><td>59.2</td></tr><tr><td>4</td><td>S.S (mg/l)</td><td>6.0</td><td>40.4</td><td>23.3</td></tr></table></td></tr>
<tr><td>xvi</td><td>Rainwater harvesting should be adopted. Central Groundwater 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>A scheme for Rain Water harvesting within the plant has been prepared and forwarded with compliance report of June, 2013. The same is also sent to Central Ground Water Authority/Board for their approval before implementation A surface water body is constructed in the township area for rain water harvesting.</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 submitted to the Ministry as well as to the Regional Office of the Ministry.</td><td>Adequate safety measures including the water sprinkler (Jet) system and other provision are provided to minimize spontaneous fire in coal yard. The duly approved Onsite and Offsite Disaster Management Plan was already submitted vide letter No. 05 /4 0 /A- 2/MHC/V1/12/6175 dated 04/10/2014</td></tr>
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<table>
<tr><td>xviii</td><td>Storage facilities for auxiliary liquid fuel such as LDO and HFO/LSHSA 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 eventually in case of an accident taking place due to storage of oil.</td><td>Storage facilities for auxiliary liquid fuel such as LDO and HFO have been installed in the plant area with approval of Department of Explosives, Nagpur, vide letter no. A /P /H Q /M p / 15/3023 (P311713) and letter no. A /P /H Q /M P /1 5 /3 0 2 4 (P311712) dated 5.02.2013.

While procuring LDO/HFO, it is checked that limit of sulphur content shall not be more than 0.5%.

Disaster management plan is prepared to take care of any eventuality of accident during storage of oil.</td></tr>
<tr><td>xix</td><td>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 adverse affected due to the projects.</td><td>Eight Peizometer locations are identified at down and upstream of Ash ponds. As this is a new project, the presence of heavy metals can be monitored after accumulation to a reasonable level, we have initiated action to assess and monitor heavy metals and results are expected to a reasonable level of accuracy in about 6 - 8 months after that the comparison will be done and the report will be submitted to RO, MoEF and RO, MPPCB.</td></tr>
<tr><td>xx</td><td>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 the survival rate not less than 70%.</td><td>Planted 45,000 saplings till 31.03.2016 in open area of the project. The tree density of 2500 per ha with more than 70% survival rate will be maintained. A consultant M/s Nature Forever Organization has been engaged for Greenbelt Development.</td></tr>
<tr><td>xxi</td><td>First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.</td><td>Already complied during construction phase.</td></tr>
<tr><td>xxii</td><td>Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 75 dB (A). 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.</td><td>The noise level from turbine is controlled suitably and noise level within work zone is maintained within the specified noise level. For people working in the high noise area, requisite personal protective equipment like earplugs/ear muffs are provided.

<table>
<tr><th colspan="8">SOURCE NOISE LEVELS AT VARIOUS LOCATIONS in dB(A)</th></tr>
<tr><th>Month</th><th>Time</th><th>Turbine - I</th><th>Turbine - II</th><th>CT - I</th><th>CT - II</th><th>Boiler - I</th><th>Boiler - II</th></tr>
<tr><td rowspan="2">Oct-15</td><td>Day</td><td>71.2</td><td>70.7</td><td>74.2</td><td>74.6</td><td>77.8</td><td>75.1</td></tr>
<tr><td>Nt.</td><td>79</td><td>68.9</td><td>75.3</td><td>76.7</td><td>75.6</td><td>73.7</td></tr>
<tr><td rowspan="2">Nov-15</td><td>Day</td><td>78.5</td><td>76.5</td><td>74.7</td><td>74.4</td><td>76.6</td><td>77.1</td></tr>
<tr><td>Nt.</td><td>75.9</td><td>75.6</td><td>74.0</td><td>68.5</td><td>78.9</td><td>78.9</td></tr>
<tr><td rowspan="2">Dec-15</td><td>Day</td><td>75.9</td><td>71.6</td><td>74.6</td><td>74.5</td><td>78.8</td><td>78.3</td></tr>
<tr><td>Nt.</td><td>72.3</td><td>66.9</td><td>67.6</td><td>67.2</td><td>69.7</td><td>76.9</td></tr>
<tr><td rowspan="2">Jan-16</td><td>Day</td><td>76.7</td><td>71.9</td><td>74.4</td><td>74.7</td><td>78.9</td><td>75.4</td></tr>
<tr><td>Nt.</td><td>73.1</td><td>75.7</td><td>73.3</td><td>75.3</td><td>77.8</td><td>77.2</td></tr>
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</td></tr>
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Feb-16	**Day**	70.4	76.7	74.1	74.3	75.2	78.6
	Nt.	68.0	68.3	74.1	79.3	67.2	66.9
Mar-16	**Day**	79.3	77.3	74.9	74.4	77.8	77.2
	Nt.	69.9	73.9	66.9	68.2	76.9	71.8

SOURCE NOISE LEVELS AT VARIOUS LOCATIONS

Month	**Time**	**Compressor house**	**Raw water pump house**	**Clarified Pump House**	**CW Pump House**
Oct-15	**Day**	72.6	75.7	71.9	74.6
	Nt.	74.2	67.1	77.0	69.4
Nov-15	**Day**	70.3	76.8	74.3	75.0
	Nt.	79.2	69.6	77.9	77.0
Dec-15	**Day**	72.1	76.0	70.2	76.8
	Nt.	69.2	68.0	71.2	72.1
Jan-16	**Day**	67.9	76.1	72.7	76.9
	Nt.	73.0	72.0	68.6	76.4
Feb-16	**Day**	66.7	76.0	74.4	75.4
	Nt.	76.3	74.9	69.7	67.9
Mar-16	**Day**	69.2	77.4	74.7	75.4
	Nt.	69.9	77.3	77.4	69.0

xxiii

Regular monitoring of Ground level concentration of SO2, NOX. 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 the Ministry. The data shall also be put on the website of the company.

Regular monitoring of ground level concentration of SO2, NOx and RSPM is being carried out. All necessary mitigation measures are taken. Monitoring data is being submitted to RO on quarterly basis & up loaded on website of the company on six monthly basis along with EC Compliance Report.

LOCATION : Near STP - Colony area					
	PM2.5 (µg/m3)	PM10 (µg/m3)	SO2 (µg/m3)	NOX (µg/m3)	CO (µg/m3)
Minimum	17.50	39.01	5.49	10.95	111.89
Maximum	37.00	62.50	17.77	21.85	221.78
Average	27.93	48.31	11.67	15.51	169.49
LOCATION : Near H2 Gas cylinder shed					
	PM2.5 (µg/m3)	PM10 (µg/m3)	SO2 (µg/m3)	NOX (µg/m3)	CO (µg/m3)
Minimum	18.50	40.10	5.50	11.81	83.92
Maximum	38.00	60.00	19.07	28.75	227.78
Average	27.11	48.89	12.26	16.51	171.47
LOCATION : Near Watch tower 22 (Grinding Unit)					
	PM2.5 (µg/m3)	PM10 (µg/m3)	SO2 (µg/m3)	NOX (µg/m3)	CO (µg/m3)
Minimum	17.50	35.00	3.90	8.62	107.39
Maximum	35.50	54.23	17.75	23.20	215.09
Average	27.38	46.69	11.57	14.70	163.36

<table>
<tr><td></td><td></td><td>
<table>
<tr><td colspan="6">LOCATION : Near fuel storage tank</td></tr>
<tr><td></td><td>PM2.5 (µg/m3)</td><td>PM10 (µg/m3)</td><td>SO2 (µg/m3)</td><td>NOX (µg/m3)</td><td>CO (µg/m3)</td></tr>
<tr><td>Minimum</td><td>19.50</td><td>34.20</td><td>7.20</td><td>10.90</td><td>94.41</td></tr>
<tr><td>Maximum</td><td>36.00</td><td>56.00</td><td>18.14</td><td>22.80</td><td>233.50</td></tr>
<tr><td>Average</td><td>28.46</td><td>47.53</td><td>11.69</td><td>15.44</td><td>158.27</td></tr>
</table>
</td></tr>
<tr><td>xxiv</td><td>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.</td><td>Detailed R & R plan already submitted vide letter no. - JPVL/JNSTPP/MOEF/2010 dated 20.01.2011. It was subsequently modified incorporating suggestions of MOEF and was resubmitted vide letter no. - JPVL /JNSTPP/MOEF/2011 dated 29.06.2011.</td></tr>
<tr><td>xxv</td><td>An amount of Rs. 24 crores shall be earmarked as one time capital cost for CSR programme. Subsequently a recurring expenditure of Rs. 4.8 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.</td><td>Details of the CSR activities to be undertaken have been submitted to MOEF vide letter no. - JPVL/JNSTPP/MOEF/2010 dated 20.01.2011 and 29.06.2011. The capital fund of Rs 24 Crores is earmarked for CSR activities and Rs. 4.8 Crores per annum fund kept for recurring expenditure. Total expenditure incurred up to March 2016 is RS. 1,10,39,974.00/-</td></tr>
<tr><td>xxvi</td><td>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 individuals imparted to take up self employment and jobs</td><td>Based on the need based assessment of nearby villages, an action plan was worked out for income generating projects for up-liftment of poor section of society. The following activities were undertaken:

Sardar Patel Uchchtar Madhyamik Vidyalaya was started functioning up to class five w.e.f. July, 2011 and subsequently upgraded up to 10th class in July’2016 session.

Annapurna mess is serving the free mid day meal to students.
An ITI institute is being constructed for development of skilled man power in nearby areas of project.

Other CSR activities include Stipend for secondary school students, Paying tribute to Old Age Persons, Vocational Training for students, Drinking Water facility to local habitants, Veterinary Service within the adopted villages.

District Administration has taken initiative to give training through skill development programme at ITI Waidhan; the company has contributed Rs. 12, 000, 00 against this programme. About 100 persons of nearby villages have been identified and sent for this training.</td></tr>
<tr><td>xxvii</td><td>Provision shall be made for the housing of construction labor within the site with all necessary infrastructure and facilities such as
fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care etc. The housing may be in the form of temporary structures to be removed after the completion of the project.</td><td>Construction phase has been completed, hence not applicable.</td></tr>
</table>

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 as Website of the Ministry of Environment and Forests at http: / /envfornic.in	Already complied. Grant of EC was advertised in two local news papers in vernacular language.
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.	Already complied. The copy of EC was sent to all the concerned departments and local panchayat and acknowledgement was taken. The clearance letter is put on the website of the company.
xxx	A separate Environment Managements Cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	Environmental Management Cell, with full fledged laboratory has been setup and working. Environment cell has been strengthening by appointing senior executives under Director in charge (DIC) for implementation 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, SO2, NOX (ambient levels as well as stack) shall be displayed as a convenient location near the main gate of the company in the public domain.	Previous EC Compliance reports including results of monitored data are uploaded on company's website http://jppowerventures.com/. The EC compliance reports including results of monitored data are also submitted to RO, MoEF, the Zonal office of CPCB and SPCB. The criteria pollutant levels are being displayed in front of the main gate of the plant on a manual board.
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.	Six monthly compliance reports on the status of compliance of stipulated EC conditions including results of monitoring data both in hard copy as well as by e-mail are submitted regularly. Last report was submitted vide letter no. JNSTPP/ EC/ MoEF/ 2015-16 dated Nov 27, 2015

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.	Environment Statement for the year 2014-15 is submitted vide letter no. JVPL/EC/ES/2015-16 dated September 22nd, 2015. It is forwarded to RO, MoEF by e-mail and put on the website of the company.
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 environment of the 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.	Six monthly compliance reports on the status of the implementation are submitted regularly. Last report was submitted vide letter no. JNSTPP/ EC/ MoEF/ 2015-16 dated Nov 27, 2015 and sent by e-mail to RO-MoEF. The status of compliance is also uploaded on company's website.
xxxv	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 up-load the compliance status in their website and up-date 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.	Noted and agreed. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan and CEIA Report have been forwarded to Regional Officer, MoEF & CC Previous EC Compliance reports including environmental data are uploaded on company's website http://jppowerventures.com/. The criteria pollutant levels are being displayed in front of the main gate of the plant on a manual board.
xxxvi.	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	Funds for recurring & non- recurring activities have been earmarked for environment protection measures. The money spent for Major pollution control devices and Environment protection measures including recurring expenditures for the period October'15- March'16 is as below. ✓ O&M cost Of Bag Houses & Bag Filters in CGU - Rs 4,30,140/- ✓ Operation Cost of STP - Rs 6,20,850 / - ✓ Maintenance Cost of WWTP - Rs 1,20,00,000/- ✓ Operation cost in ESP - Rs 2,19,09,445 / -

	should be reported to the Ministry.	✓ Operation cost in CHP - Rs 31,18,341/ - ✓ Green Belt Development - Rs 6,12,000/-
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.	The date of financial closure is 7 May 2010 with ICICI as lead Bank. The land development started from November, 2010 after grant of consent to establishment by MPPCB vide letter No. 9881/TS/MPPCB/2010 dt 23.10.2010. Unit – I Commissioned on 03.09.2014, Unit –II Commissioned on 24.03.2015.
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.	Full co-operation will be extended to the visiting officials of MoEF, CPCB and MPPCB.
xxxix	Bag house and dust suppression shall be installed in packing area to control the particulate and fugitive emissions.	Two nos. of Bag Houses installed to cement mills(Ball & Roll Press Mill) with guaranteed emission level of <50 mg/Nm3 at full load. Each Bag House has 780 & 1188 bags respectively. We have installed 34 no. of Bag Filters at various source points in Cement Grinding Unit to control the fugitive emission.