

JRP/Env./2022-23

Date: 21st May 2022

The Director
Ministry of Environment Forest & Climate Change
Govt. of India, Kendriya Paryavaran Bhawan
Link Road No. 3, E-5 Ravi Shankar Nagar
Bhopal – 462016 (MP)

**Sub: Submission of Half Yearly Environmental Clearance Compliance Report for the Period
October'2021 – March'2022 of M/s Jaiprakash Associates Ltd**

Dear Sir,

Please find enclosed herewith the Half Yearly Environmental Clearance Compliance report, in hard and soft copy, for our Captive Power Plant as under:

- **Captive Thermal Power Plant - 25 MW:** EC reference nos. - F-5/7/2003/32 Bhopal Dated 14th August 2003
- **Captive Thermal Power Plant - 38.5 MW:** EC reference nos. - F-5-9/2005/32 Bhopal Dated 27th December 2005

Thanking You

Yours Faithfully
For Jaiprakash Associates Limited

(Authorized Signatory)

CC to:

- 1) **Zonal Officer** - For information please.
Central Pollution Control Board
Shankar Bhawan, 3rd Floor
North T.T Nagar, Bhopal – (M.P.) 462016
- 2) **Member Secretary** - For information please.
Madhya Pradesh Pollution Control Board
Paryavaran Parisar, E – 5, Arera Colony
Bhopal (M.P.) 462016
- 3) **Regional Officer** - For information please.
Madhya Pradesh Pollution Control Board, Rewa
HIG – 190 – 191 Nehru Nagar Rewa (M.P.) 486001

Name of the Project: Captive Thermal Power Plant, Jaypee Rewa Plant, of M/s Jaiprakash Associates Limited for generation capacity of 38.5 MW electricity at Jaypee Nagar, District Rewa, Madhya Pradesh

Project Code:

Clearance Letter no. : Housing & Environment Department, Madhya Pradesh vide letter no. F – 5 – 9 /2005 / 32 Bhopal Dated 27th December 2005

Period of Compliance Report: October'2021 – March'2022

Conditions

Condition No.	Details of Conditions	Status
1	All the conditions stipulated by the State Pollution Control Board in the NOC issued vide letter No. 946 Dated 31/10/2005 shall be strictly implemented.	All the conditions stipulated by MPPCB are implemented.
2	The industry shall provide adequate facility for proper treatment of industrial & Domestic waste effluent and shall ensure that the treated quality meets the standards prescribed by the Board and Notified in the M.P. Gazette dated 25/03/1988. No effluent shall be let out of the factory premises in any circumstances.	Waste water generated is neutralized before reused. Treated water conform the standards stipulated by the Board. Treated water is used for water sprinkling over raw Coal, quenching of Bottom ash, sprinkling on roads and plantation purpose. Sewage Treatment Plant (STP) of 1200 KLD installed for domestic waste water treatment at residential colony and treated water is used for horticulture works. Zero discharge status is maintained.
3	Industry shall install suitable air pollution control equipments at all point and non point sources. Adequate and effective pollution control equipments shall be installed for the control of pollution during the handling, transportation of raw materials and fly ash etc. the concentration of pollutants from point sources shall not exceed at any time the following limits: Particulate Matter - 100 mg/Nm ³	Installed efficient ESP at boiler stack and these are always kept in running condition. The stack emission monitored values are well within the MPPCB stipulated standard of 100 mg/Nm ³ . Note: Stack emission monitoring is not carried out for reporting period as CPP was not in operation since March 2020.
4	The industry should adopt the clean and best available technology for selection of the boiler to be installed.	Installed CFBC boilers are fuel efficient and emit less unburnt carbon emission.
5	The height of all the stacks shall be as per CPCB norm, minimum stack height shall not be less than 78 mt. or 10 mt. above from nearby structure, whichever is more and each stack shall be provided with proper port hole for stack monitoring.	The height of stack is 78 m as per CPCB norms. Porthole and platform is already provided for monitoring.
6	The quality of coal used by the industry should conform the standard prescribed by the Central Government/Central or the State Pollution Control Board.	Noted and Agreed
7	Dust suppression and dust extraction devices	Installed the dust suppression and dust extraction device

	shall be installed in the coal handling area to insure the level of dust within prescribed limit.	in coal handling area.																																			
8	Closed circuit cooling with induced draft cooling tower shall be provided.	Air cooled & Water Cooled condensers are installed for cooling of water.																																			
9	The fly ash and bottom ash generated during the process shall be collected in dry form and it shall be utilized in cement manufacture to the extent of 100%. Further it needs to be insured that the bottom ash is used in an Environmentally compatible manner like brick making instead of using it for backfilling of the mines so that it does not pose any environmental hazard. The wet collection of the fly ash is not permitted.	All Fly ash generated from captive power plant is being transferred pneumatically to cement mill for manufacturing of PPC cement in dry form. Bottom ash is also used for manufacturing of cement.																																			
10	Workers in the high noise area will be provided with ear protection devices.	Ear muff and Ear plugs are provided to workmen working in high noise area for protection. Noise level is being monitored around the plant and the measured values are well within the prescribed limits.																																			
11	Green belt of adequate width with suitably selected species should be maintained all around the power plant as also around the coal handling areas. A forestry expert may be involved in doing so to decide about the types of plants species to be planted.	Extensive tree plantation in and around the factory premises has been done in consultation with the expert agency. Good housekeeping practices are adopted. Tree plantation is being carried on continual basis.																																			
12	Regular monitoring of the air quality around the power plant may be carried out.	Regular monitoring of Ambient Air Quality & Stack emission is carried out and report submitted to SPCB on monthly basis. Ambient Air Quality, including Ambient Noise level is within the standards prescribed under the EPA State Authorities. Six monthly (October'2021 – March'2022) average monitoring report of AAQ is given below ; <table border="1" data-bbox="799 1262 1430 1507"> <thead> <tr> <th rowspan="2">Location</th> <th colspan="5">Parameters ($\mu\text{g}/\text{m}^3$)</th> </tr> <tr> <th>PM₁₀</th> <th>PM_{2.5}</th> <th>SO₂</th> <th>NO_x</th> <th>CO</th> </tr> </thead> <tbody> <tr> <td>Near Washing Ramp</td> <td>38-40</td> <td>21-23</td> <td>9-10</td> <td>19-20</td> <td>159-161</td> </tr> <tr> <td>Near Narmada Gate</td> <td>37-40</td> <td>23-25</td> <td>9-11</td> <td>19-20</td> <td>167-181</td> </tr> <tr> <td>Near E-State Office</td> <td>38-40</td> <td>22-25</td> <td>10-11</td> <td>18-19</td> <td>159-167</td> </tr> <tr> <td>Near Bhagirathi Gate</td> <td>35-39</td> <td>22-24</td> <td>9-10</td> <td>20-21</td> <td>154-174</td> </tr> </tbody> </table>	Location	Parameters ($\mu\text{g}/\text{m}^3$)					PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	Near Washing Ramp	38-40	21-23	9-10	19-20	159-161	Near Narmada Gate	37-40	23-25	9-11	19-20	167-181	Near E-State Office	38-40	22-25	10-11	18-19	159-167	Near Bhagirathi Gate	35-39	22-24	9-10	20-21	154-174
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13	Separate funds should be allocated for the implementation of environment protection measures along with item wise breakup. These cost should be included as part of the project cost. The funds arranged for environment protection measures should not be diverted for other purposes.	Environment protection fund is kept separately for implementation of environment protection works.																																			
14	The stipulated conditions will be monitored by M.P. Pollution Control Board.	Noted and Agreed																																			

15	A half yearly report on the status of the implementation of the stipulated conditions and environmental safeguards shall be submitted to this Department.	Half yearly report on the status of the implementation of the stipulated conditions and environmental safeguards shall be submitted on regular basis. The last report is submitted vide our letter no. JRP/Env./2021-22 Date: 23 rd Nov 2021.
16	An environmental clearance is not transferable. In case of change in the implementing agency, prior permission shall be obtained.	Noted and agreed
17	The condition stipulated may be varied or other added or the clearance revoked if necessary in the interest of environment protection.	Noted and Agreed
18	The stipulations will be implemented among others under the Water (Prevention and Control of Pollution) Act 1974 the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986. The public Liability insurance Act. 1991 and the amendments made therein from time to time.	Noted and Agreed
19	The environment clearance granted shall be valid for a period of five years from operation of the project.	Noted and Agreed