By: Regd. Post & E-Mail

Ref: JBTTPP/ENV/EC Compl./April, 21-Sep. 21/2021/ 573

Date 12/11/2021

The Chief Conservation of Forest,

Ministry of Environment & Forests

Regional Office (WZ), Kendriya Paryavaran Bhawan
E-5, Arera Colony, Link Road-3, Ravishankar Nagar
BHOPAL (MP) 462 016

Sub.: Submission of compliances Report for the period of March 2021-September 2021 regarding various conditions of the Environmental Clearance granted by MoEF vide letter No. J.13011/28/92-IA.II(T) dated 05.08.2009 for coal based M/s. Jaypee Bina Thermal Power Plant (2x250 MW) at Rajiv Nagar, near village Sirchopi, Tehsil Bina, Distt. Sagar (MP).

Respected Sir/Madam,

With reference to the cited subject, we are pleased to submit Half Yearly Compliances Report to conditions laid in the above Environmental Clearance for the period of April 2021-September 2021.

Kindly acknowledge the receipt

Thanking you.

Yours faithfully,

For JAYPREE BINA THERMAL POWER PLANT
(A Division of Jaiprakash Power Ventures Limited)

(Ramesh Chand)
Joint President (O&M)

Encl: a/a

Ref: JBTTPP/ENV/EC Compl./April, 21-Sep. 21/2021/

Copy to: 1. The Additional Director & Zonal Officer
Central Pollution Control Board
Shakar Bhawan 3rd floor, North TT Nagar,
BHOPAL (MP)-462 003

2. The Chairman,
MP Pollution Control Board,
Paryavaran Parisar, E-5, Arera Colony
BHOPAL (MP)-462 016

3. The Regional Officer,
MP Pollution Control Board,
Deen Dayal Nagar, Housing Board Colony,
SAGAR (MP)-470 001
<table>
<thead>
<tr>
<th>Status</th>
<th>Compliances Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>All the conditions stipulated by MPPCB have been complied.</td>
<td></td>
</tr>
</tbody>
</table>

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**Environmental Clearance (EC) No. T/3.130/1/92-GP-II (1) dated 23.04.1996**

**Jaypee Bina Thermal Power Plant, Bina**

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**Project Code: 17049**

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**Period of Compliance Report**

- April, 2021 to Sept, 2022

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**Clearance Letter No.**

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**Name of the Project**

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A closed cycle circulating water system with cooling towers should be incorporated in the project design and only make up water should be drawn.

8. Fly ash weekly & monthly data is also uploaded at from our TPP for filling of fly ash and pond ash.

7. There are no abandoned mines in the radius of 300 Km from our TPP but we are trying to identify of abandoned stone quarries in the radius of 300 Km.

6. Pond ash is proposed to be used for development of low lying areas within the secured land boundary.

5. Pond ash is also issued to nearby interested parties as and when required.

Road/Flyover embankments construction activities come under:


4. For use/utilization of Fly ash & Pond ash in Road/Flyover embankments

3. Fly ash has also been utilized for internal road construction and land filling.

2. A fly ash brick/block manufacturing unit has been installed in the plant.

1. "Nagrawal Singh, Manager, Jodhpur (m) - Fly ash taking for manufacture of bricks."

(xviii) "Vikram Cement Khore Neckum (m) - Fly ash taking for utilization in cement."
to treat the effluents. An Effluent Treatment Plant (ETP) along with the pond has been commissioned.

<table>
<thead>
<tr>
<th>Total</th>
<th>726 ha</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planted area</td>
<td>25 ha</td>
</tr>
<tr>
<td>Other area</td>
<td>115 ha</td>
</tr>
<tr>
<td>Pond area</td>
<td>336 ha</td>
</tr>
</tbody>
</table>

Pond requirement per 726 ha is 14.8 ha for receiving the ground water inflow which is in excess of 400 ha.

Meets the letter no. 13011/28/92-IA/II dated 4-12-1996 restricting the land continuously.

3. P.T.Z (pan tilt zoom) surveillance cameras have been installed at stack, ETP, 2, stack and CAAMS data is also transmitted to CCB as well as MPCR through online.

2. Stack and CAAMS data is also transmitted to CCB as well as MPCR through online.

<table>
<thead>
<tr>
<th></th>
<th>1.42</th>
<th>1.665</th>
<th>1.364</th>
<th>5.02</th>
<th>3.483</th>
<th>AVG</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.80</td>
<td>1.787</td>
<td>6.247</td>
<td>9.85</td>
<td>7.30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.28</td>
<td>1.506</td>
<td>1.89</td>
<td>7.30</td>
<td>7.30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CO</td>
<td>NOX</td>
<td>SO2</td>
<td>CO</td>
<td>NOX</td>
<td>SO2</td>
<td></td>
</tr>
<tr>
<td>9.02</td>
<td>0.10</td>
<td>6.8</td>
<td>6.8</td>
<td>6.8</td>
<td>6.8</td>
<td></td>
</tr>
</tbody>
</table>

The average monitoring data of CAAMS for reporting period are given below:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Standard (Unit-1)</th>
<th>Standard (Unit-2)</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOX</td>
<td>450</td>
<td>600</td>
<td>450</td>
</tr>
<tr>
<td>SO2</td>
<td>80</td>
<td>120</td>
<td>80</td>
</tr>
</tbody>
</table>

5. Continuous stack monitoring equipment for SPH, SO2 and the river banks.

6. NOX should be provided and data collected should be regularly analyzed for ascertaining the pollution levels within. No additional land acquisition is required.

7. The barrage design has been restricted to 385 m and pondage is limited within the river banks. A barrage proposal across Bejima river from where a 4 km long pipe will be drawn up so designed to restrict the pondage to 385 m and within the river banks to avoid pollution.
10. Noise levels should be maintained within 85 dB (A) by proper maintenance of equipment and isolation etc. for people working in generator hall, ear plugs should be provided.

9. Noise level should be maintained within 85 dB (A) by proper disposal area. Working in generator hall, ear plugs should be provided.

8. The filtered air is already participating in Sanwei Project of the state government for health care ofanasuoued child in the area group of 05 months to 05 years of age around the plan site in Bhan Tezal.

7. The filtered air is already participating in Sanwei Project of the state government for health care of children of 05 months to 05 years of age around the plan site in Bhan Tezal.

6. A CSC school (10+2 stream) is also running for education of children of local people and employees.

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4. The filtered air is already participating in Sanwei Project of the state government for health care of children in the area group of 05 months to 05 years of age around the plan site in Bhan Tezal.

3. A Hospital with two doctors is already established for medical support to local people and employees.

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11. Continuous monitoring of ground water should be undertaken in consultation with central ground water board. Data collection should be analyzed for ascertaining if leaching through ash pond is taking place affecting the water quality. Continuous monitoring of flue gases should also be ensured.

12. For controlling NOX emission, low NOX burners and steam injection system should be provided.

13. Project authorities must create sufficient in house capability (Environmental Cell) supported by full-fledged laboratory to monitor and implement environment related issues.

14. Adequate financial provision, item wise and year wise, must be made for implementation of above stipulated conditions. Detail on these aspects should be submitted to the ministry by 31st May 1996.

Ground water Monitoring has been done through MPPCB, Sagar. The ash pond has been lined with impervious HDPE liner and has been concreted to ensure that there is no leaching. Continuous stack emission monitoring equipments have been installed.

Secondary over fire air burner have been provided to reduce NOx emission level.

Project has established a separate Environmental Management cell with qualified and experienced executives. A full-fledged laboratory has been set-up to monitor the Environmental parameters.

Rs.265.98 crores have been provided for implementation of environmental protection measures such as ESP, ETP, dust separation and extraction system, ash effluent recycling system, on line stack monitoring and continuous AAQ monitoring equipments, plantation, etc as per details given below:

<table>
<thead>
<tr>
<th>Environment protection systems</th>
<th>Cost(Rs Crores)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESP</td>
<td>100.00</td>
</tr>
<tr>
<td>Online Stack Monitoring system for PM 2.5,PM10,SO2,CO,NOX</td>
<td>35.00</td>
</tr>
<tr>
<td>Ash handling system</td>
<td>37.00</td>
</tr>
<tr>
<td>Effluent &amp; Sewage treatment</td>
<td>12.50</td>
</tr>
<tr>
<td>Dust suppression in coal yard</td>
<td>0.23</td>
</tr>
<tr>
<td>Ash Pond</td>
<td>80.00</td>
</tr>
<tr>
<td>AAQ Monitoring Systems</td>
<td>0.25</td>
</tr>
<tr>
<td>Green belt plantation</td>
<td>1.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>265.98</strong></td>
</tr>
</tbody>
</table>

Recurring expenditure towards environmental protection measures has been included in the Operational & Maintenance budget of the plant.

Full co-operation is extended to the visiting officials.
Following CSR activities have been implemented for the plant:

1. Surplus funds have been allocated for undertaking CSR activities.
2. Adequate funds shall be allocated for undertaking CSR activities.

<table>
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<tr>
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</tr>
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<tr>
<td></td>
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**Additional Conditions:**

<table>
<thead>
<tr>
<th>SN</th>
<th>Period of Compliance Report</th>
<th>Clearance Letter No.</th>
<th>Name of the Project</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>April 2021 to Sept. 2021</td>
<td></td>
<td>Jaypee Bina Thermal Power Plant, Bina</td>
</tr>
</tbody>
</table>

Project Code: 17249
5. First aid and sanitation arrangement shall be made for the drivers and other contract workers during construction phase.

All requisite facilities for contract workers and drivers were provided during construction phase.

6. 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.

Construction is over since both the units of the plant have been commissioned. Very few construction labours are working in the premises, who have been provided with all requisite facilities.
The Concession under Water and Air Acts have been removed by WPCB through AG. 19/94. Under Air Act 1981, No. TSS/WPCB/2013 dated 04.03.2013 under Water Operation by WPCB vide letter No. TSS/WPCB/2013 dated 04.03.2013 Two units (2x25 MW) have been commissioned after obtaining Consent for the financial closure has already been achieved in November 2009.

The project authorities shall inform the Regional Office as well as

The Environmental Statement for each financial year ending 31st

The previous six months' Compliance Report of Environmental Clearance has already been uploaded on company's website along with Compliance of EC

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