

MB POWER (MADHYA PRADESH) LIMITED

Corporate Office: 239, Okhla Industrial Estate, Phase-III, New Delhi- 110020
Tel: +91 11 47624100 Fax: +91 11 47624229

MBPMPL/APR/ENV/2017-18/ 375

Date 01/06/2018

To

The Additional Principal Chief Conservator of Forest

Ministry of Environment, Forest & Climate Change
Kendriya Paryavaran Bhawan, Inlk road -3
Ravishankar, Bhopal MP -462016I

Sub: Submission of half yearly EC compliance report. 2X600 MW MB Power (Madhya Pradesh) Ltd,
Anuppur

Ref: 1- EC letter no- Your letter no. J-1301299/2008- IA. II (T) GOI MOEF& CC, dated 28/05/2010.
2- Corrigendum to Environment Clearance letter no- J-1301299/2008- IA. II (T) GOI MOEF& CC,
dated 01/09/2010

Dear Sir

With reference to the above, please find attached herewith half yearly environment clearance compliance report of our 2X 600 MW thermal power plant, Jaithari, Anuppur for Sep 2017 with following Annexures, for your kind information and record please.

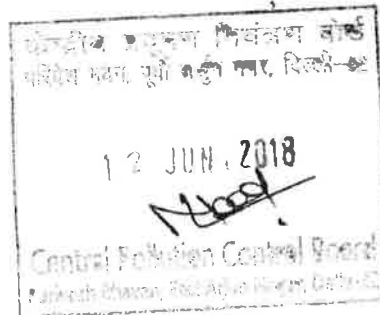
- Annexure 1 - EC Compliance report
- Annexure 2 - Stack emission monitoring report
- Annexure 3 - Ambient air monitoring report
- Annexure 4 - Hydrological study review report
- Annexure 5 - Ground water test t report
- Annexure 6- Surface water test report
- Annaxure 7 – CSR Report
- Annuxure 8 – TDP Report
- Annuxure 9- Drinking water test Report
- Annuxure 10 – Social audit report

Thanking You

MB Power (Madhya Pradesh) Ltd.

Authorised Signatory

Kishor Bhardwaj
Head – Corporate EHS



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Encl : As above

- CC :-
1. The Director, Ministry of Environment, Forest and Climate Change, Third Floor
Vayu Block, Indira Paryavaran Bhawan, Jor Bagh Road, Aliganj, New Delhi-110003.
 2. The Member Secretary
MP Pollution control Board Bhopal
E-5, Arera Colony, Bhopal
Madhya Pradesh
 3. Regional Officer
Regional Office, MPPCB
Shahdol, Madhya Pradesh
 4. The member secretary
Central Pollution Control Board
Parivesh Bhawan CBD cum office
East Arjun nagar Delhi

श्री. या. प्र. द्वारा प्राप्त किया
The Director
Ministry of Environment, Forests & Climate Change
Govt. of India
Indira Paryavaran Bhawan
Jor Bagh Road, Aliganj

12/11/18

HALF YEARLY EC COMPLIANCE REPORT MAY-2018

Ref.: Letter No. J-13012/99/2008-IA. II (T), GOI, MoEF&CC on dated 28/05/2010

SPECIFIC CONDITION

SN	Condition	Status
i	<p>Environment clearance is subject to the condition that no forest land involved in the thermal power project area as well as in the coal mine from which coal is to be sourced.</p> <p>As per corrigendum dated 01.09.2010, above condition (i) shall now be replaced by the following; "Environmental clearance is subject to obtaining clearance under Forest (Conservation) Act, 1980 for diversion of 93.6 acres of forest land."</p>	Complied.
ii	<p>Company shall pay compensation for acquisition of private land and displacement of homestead as per the Central/State Government norms. The compensation to be paid to the land loser and displacement of the families shall not be less than norms/package as per the policy on National Resettlement & Rehabilitation Rules, 2007. Action Plan for R & R with package for the project affected shall be submitted within three month from the date of issue of this letter.</p>	Complied.
iii	<p>Sulphur and ash contents in the coal to be used in the project shall not exceed 0.5% and 34% respectively at any given time. In case of variation of coal quality at any point of time fresh reference shall be made to MoEF for suitable amendment to Environmental clearance condition wherever necessary.</p>	Complied.
iv	<p>A bi-flue stack of 275 m height shall be provided with continuous online monitoring equipment for SO_x, NO_x and particulate matter, exit velocity of flues gases shall not be less then 22 m/sec. Mercury emission from stack may also monitored on periodic basis.</p>	Complied.

v	Provision of installation of FGD shall be provided for future use. High efficiency electrostatic precipitator(ESP) shall be installed to ensure that the particulate emission does not exceed 50 mg/Nm ³ . Adequate dust extraction system such as cyclone/Bag filter and water spray system in dusty area such as in a coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.	Being complied.
vi	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of the monitored data on their website and shall upload the same periodically. It shall simultaneously be sent to the regional office of MOEF, the respective Zonal Office of the CPCB And the SPCB. The criteria pollutant level namely; SPM, RSPM, (PM _{2.5} , PM ₁₀), SO ₂ , NO _x (ambient levels as well as Stack emission) shall be displayed at a convenient location near the main gate of the company in the public domain.	Complied.
vii	Detailed hydro-geological study shall be conducted and submitted within six months from an institute/organization of repute to assess impact on surface water regime. Specific mitigation measure shall be spelt out and action plan for implementation of the same shall be provided .It shall be ensured that the area drainage is not disturbed due to the proposed power plant. Hydro-geological study of the area shall be also reviewed annually and result submitted to the ministry and concerned agency in the state Govt. in case adverse impact on ground water quantity and quality is observed at any stage, immediate mitigating steps to contain any adverse impact on ground water shall be under taken.	Complied.
viii	Source of water for meeting the requirement during lean season shall be specified and submitted to the Regional Office of the Ministry within the three months.	Complied.
ix	No ground water shall be extracted for use in operation in the power plant even in lean season.	
x	COC of 5.0 shall be adopted. The treated effluent conforming to the prescribed standards only shall be re-circulated and reused within the plant. There shall be no discharge outside the company boundary except during monsoon. Arrangement shall be made that the effluent and storm water do not do get mixed. A sewage	Complied.

	treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising green belt/plantation.	
xi	Regular monitoring of ground water level shall be carried out by establishing a network of existing well and constructing new piezometers. Monitoring around the ash pond area shall be carried out particularly for heavy metals (Hg, Cr, As, Pb) and record maintained and submitted to the Regional Office of this Ministry. The data so obtained should be compared with baseline data so as to ensure that the ground water quality is not adversely affected due to the project.	Complied.
xii	Monitoring of surface water quantity shall also be regularly conducted and records maintained. The monitored data shall be submitted to the Ministry regularly. Further, monitoring points shall be located between the plant and drainage in the direction of flow of ground water and records maintained. Monitoring for heavy metals in ground water shall be undertaken.	Complied.
xiii	Measures for rain water harvesting shall be undertaken. Central Ground water Authority/Board shall be consulted for finalization of appropriate rain water harvesting technology within a period of three months from the date of clearance and details shall be furnished.	Complied.
xiv	Additional soil for leveling of the proposed site shall be generated within the site (to the extent possible) so that natural drainage system of the area is protected and improved.	Complied.
xv	Utilization of 100% Fly ash generated shall be made from 4th Year of operation of the plant. Implementation of status shall be reported to the Regional office of this ministry from time to time.	Being complied.
xvi	Fly ash shall be collected in dry form and storage facilities (silo) shall be provided. Unutilized fly ash shall be disposed off in the ash pond in the form of slurry form. Mercury and other heavy metal (As, Hg, Cr, Pb, etc) shall be monitored in the bottom ash as also in the effluents emanating from the existing ash pond. No ash shall be disposed off in the low lying area.	Complied.
xvii	Ash pond shall be lined with HDP/LDP lining or any other suitable impermeable media so that no leachate takes place at any point of time. Adequate safety measure shall also be implemented to protect the ash dyke from getting breached.	Being complied.

xviii	For disposal of bottom ash in abandoned mines (if proposed to be under taken), 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 proposed proponent shall inform the State Pollution Control Board well in advance before undertaking the activity.	Complied.
xix	Green Belt consisting of 3 tiers of plantation 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 75%.	Complied.
xx	Two nearest villages shall be adopted and basic amenities like development of roads, drinking water supply, primary health center, primary school, etc. shall be developed in co-ordination with the district administration.	Complied.
xxi	For tribal families affected directly or indirectly by the proposed project, specific scheme for up-liftment of their sustainable livelihood shall be prepared with time bound implementation and in-built monitoring program. This shall be submitted within the six months to the ministry.	Complied.
xxii	The project proponent shall also adequately contribute in the development of the neighboring villages. Special package with implementation schedule for providing fluoride free potable drinking water supply in the near by villages and schools shall be undertaken in a time bound manner.	Complied.
xxiii	An amount of Rs. 5.0 Crores shall be specially earmarked for development activities for tribal of the nearby villages. Specific scheme for upliftment of tribal families mentioning sustainable livelihood schemes shall be submitted to the ministry within three months with time bound implementation and in-built monitoring programme. The above amount shall be over and above the fund earmarked for CSR activities.	Complied.
xxiv	Further an amount of Rs. 22.80 Crores shall be earmarked as one time capital cost for CSR programme as committed by the project proponent vide its letter dated 23.03.2010. Subsequently a recurring expenditure of Rs. 4.6 Crores per annum shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be submitted within one	Complied.

	month along with road map for implementation.	
xxv	While identifying 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 generation programmes. This will be in addition to vocational training for individuals to take up self-employment and jobs.	Complied.
xxvi	Local employable youth shall be trained in skills relevant to the project for eventual employment in the project itself. The action taken report and details thereof to this effect shall be submitted to the Regional Office of the Ministry and the State Govt. Dept. concerned from time to time.	Complied.
xxvii	It shall be ensured that in-built monitoring mechanism for the schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time.	Complied.
<u>GENERAL CONDITION</u>		
i	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 layout shall be submitted to the Ministry as well as to the Regional Office of the Ministry	Complied.

ii	Storage facilities for auxiliary liquid fuel such as LDO and /HFO/LSHS shall be made in the plant area in consultation with 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 and accident taking place due to storage or oil.	Complied.
iii	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	Complied.
iv	Noise levels emanation 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 earplugs/earmuffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc. shall be periodically examined to maintain audiometric records and for treatment for any hearing loss including shifting to non-noisy/less noisy areas.	Complied.
v	Regular monitoring of ground level concentration of SO ₂ , NO _x , PM _{2.5} & PM ₁₀ 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.	Complied.
vi	Provision shall be made for the housing of construction labour (as applicable) 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.	Complied.
vii	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	Complied.

	project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution of Environment and Forest at http://envfor.nic.in	
viii	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, Urban Local Body and the Local NGO, if any form 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.	Complied.