



DB POWER (MADHYA PRADESH) LIMITED

CIN: U40100MP2008PLC020903

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Ref. DB Power/MP/07

Date: 30th May 2020

The Director
Ministry of Environment & Forest
Regional Office, Western Region
Kendriya Paryavaran Bhavan
Link Road No.3, E-5, Ravi Shankar Nagar
Bhopal, Madhya Pradesh-462016

Subject: Six Monthly Compliance Report for the period October 2019-March 2020

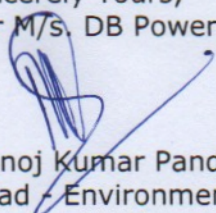
Ref: EC granted vide MoEF letter no. J-13012/156/2008-IA.II (T) dated 9th September 2010 and 4th March 2016 & 30th May 2018 for 1X 660MW Thermal Power Plant

Dear Sir,

We are pleased to enclose herewith six monthly Compliance Status Report for the conditions stipulated in the subject EC granted to our Thermal power plant located at Village Gorgi, Taluk-Deosar, District-Singrauli, Madhya Pradesh of M/S DB Power (Madhya Pradesh) Limited.

Thanking you

Sincerely Yours,
For M/s. DB Power (MP) Limited


Manoj Kumar Panda
Head - Environment

Registered Office:

Office Block 1A, 5TH Floor, Corporate Block, DB City Park, DB City Arera Mills, Opposite M. P.
Nagar Zone – I, Bhopal – 462016 (M. P.)

Six Monthly Compliance Status of conditions stipulated in EC granted vide MOEF Letter No: J-13012/156/2008-IA.II (T) dated: 9th September 2010 and dated 4th March 2016 & 30th May 2018 to M/s DB Power (MP) Limited for its 1x660 MW project located at Village Gorgi, Tehsil- Deosar, Dist-Singrauli, Madhya Pradesh for the period October 2019 to March 2020

- **Specific Conditions**

	Condition	Compliance Status
	Environmental clearance shall be applicable for 1x660 MW. However, at a later stage when firm coal linkage for second unit of 660 MW is also available, the project proponent may request the Ministry for inclusion of second unit of 660MW, which the Ministry shall consider appropriately.	Agreed.
	Vision document specifying prospective plan for the site shall be formulated and submitted to the Ministry within six months.	Complied. Vision document submitted to MoEF Regional office at Bhopal vide our letter dated 15 th April 2011 and resubmitted 23 rd May 2019.
	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 given time fresh reference shall be made to MOEF for suitable amendments to environmental clearance condition wherever necessary.	Plant is still under construction.
	A bi-flue stack of 275 m height shall be provided with continuous online monitoring equipments for SO _x , NO _x and Particulate Matter. Exit velocity of flue gases shall not be less than 22 m/sec. Mercury emissions from stack may also be monitored on periodic basis.	Noted and will be complied
	Water requirement shall be restricted to 40 MCM/annum for two units of 660 MW. No ground water shall be extracted for use in operation of the power plant even in lean season.	Agreed. Presently no water withdrawal for the project. Water requirement shall be restricted to 40 MCM/annum for two units of 660 MW and shall be complied specific water consumption >3.5 m ³ /MW as per MOEF & CC Notification dated 7 th Dec. 2015.

	<p>Source sustainability study of water requirement shall be carried out by an institute of repute. The study shall also specify the source of water for meeting the requirement during lean season. The report shall be submitted to the Regional Office of the Ministry within six months.</p>	<p>Complied. Source sustainability study of water requirement had been completed. It was submitted to MOEF Regional office at Bhopal vide our letter dated 27.04.2011.</p>
	<p>Hydro geological study of the area shall be reviewed annually and report submitted to the Ministry. No water bodies including natural drainage system in the area shall be disturbed due to activities associated with the setting up / operation of the power plant.</p>	<p>No ground water extraction for the project is envisaged.</p>
	<p>Minimum required environmental flow suggested by the competent Authority of the State Govt. shall be maintained in the Channel/ Rivers (as applicable) even in lean season.</p>	<p>Agreed</p>
	<p>COC of 5.0 shall be adopted.</p>	<p>Agreed.</p>
	<p>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. Department concerned from time to time.</p>	<p>DB Power had adopted two Industrial Training Institutes in Singrauli district for skill development of the local people. One is Construction Skill Training Centre (CSTC),ITI, Waidhan, Singrauli. 330 people had been given employment from among the locals. Economically poor meritorious students are awarded scholarship for higher studies under Urjaanchal Scheme. The people from Project affected population are given preference for the employment. Other CSR activities are also being undertaken by DB Power Ltd in the area.</p>
	<p>Additional soil for the leveling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.</p>	<p>Agreed.</p>
	<p>Provision for installation of FGD shall be provided for future use. High efficiency Electrostatic Precipitators (ESPs) shall be installed to insure the particulate emission does not exceed 50 mg/Nm³.</p>	<p>Space provision for FGD has been made in the plot plan. ESP is being designed such that particulate emission does not exceed 50 mg/Nm³.</p>

	Adequate dust extraction system such as cyclones/ bag filters and water spray system in the dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.	Agreed.
	Utilization of 100% Fly ash generated shall be made from 4 th year of operation of the plant. Status of implementation shall be reported to the Regional Office of the Ministry from time to time.	Plant is still under construction, the Fly ash utilization plan will be implemented as per the MoEF notifications 2009 and amendments thereon. We will submit a plan for utilization of fly ash before commencement of operation.
	Fly ash shall be collected in dry form and storage facility (silos) shall be provided. Unutilized fly ash shall be disposed off in the ash pond in the slurry form. Mercury and other heavy metals (As, Hg, Cr, Pb, etc.) will be monitored in the bottom ash as also in the effluents coming from the existing ash pond. No ash shall be disposed off in low lying area.	Agreed.
	Ash pond shall be lined with HDPE/LDPE lining or 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.	HDPE/LDPE lining besides adequate safety measures are being incorporated in construction of design of Ash pond.
	For disposal of Bottom Ash in abandoned mines (If proposed to be undertaken) 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.	Will be complied as specified, in support with mining authorities.
	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 75%.	The green belt development has already begun with the construction phase. We have planted >34, 900 no of saplings in 35 acres of land.

	<p>Two nearest village shall be adopted and basic like development of roads, drinking water supply, primary health centre, primary school etc. shall be developed in co-ordination with the district administration.</p>	<p>The two nearest villages namely Papal and Niwas had been adopted as required. Drinking water supply and other basic support to primary health centre and school have been extended. The villages are being developed in co-ordination with the district administration.</p>
	<p>For the tribal families (if any) affected directly or indirectly by the proposed project, specific schemes for upliftment of their sustainable livelihood shall be prepared with time bound implementation and inbuilt monitoring programme. The status of implementation shall be submitted to the Regional Office of the Ministry from time to time.</p>	<p>Not applicable as there is no tribal family affected by proposed project.</p>
	<p>The project proponent shall also adequately contribute in the development of the neighboring villages. Special package with implementation schedule for free portable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.</p>	<p>DBMPL is contributing in the development of the neighboring villages by supplying free potable water etc in nearby Papal, Niwas and Mahuagaon villages.</p>
	<p>Action plan for R&R (as applicable) with package for the project affected persons be submitted and implemented as per prevalent R&R policy within 3 months from the date of issue of this letter.</p>	<p>Complied. Action plan already submitted to MoEF vide our letter dated 25thJanuary 2011. The agreement has been done with the Collector, Singrauli by M/S DB Power (MP) Ltd for R&R and an amount of Rs.5,78,76,848.00 has been deposited with the Collectorate. The implementation is being done as per the policy of government of India and the government of Madhya Pradesh. Details submitted vide our letter dated 23rdMay 2019.</p>

	<p>An amount of Rs 25.0 Crores shall be earmarked as one time capital cost for CSR programme. Subsequently a recurring expenditure of Rs 5.0 Crores 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.</p>	<p>Complied. Detail of CSR activities being undertaken has been submitted to MoEF vide our letter dated 9th October 2010 and resubmitted vide our letter dated 23rdMay 2019.</p>
	<p>While identifying CSR programme the company shall conduct need based assessment for the nearby villages to study economics 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 the 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.</p>	<p>The CSR program has been designed on the basis of need based assessment and submitted to MoEF vide letter dated 9thOctober 2010. The various CSR activities are in progress accordingly. The local youths have been trained in income generating traditional skills such as Plumbing (40 youths), Tailoring (62) and other income generating activities (66)as Masonry, Hand pump repair etc by company. Initiatives have also been taken in developing skills as fodder farm and fruit bearing orchards.</p>
	<p>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.</p>	<p>Being complied.</p>

B) General Conditions:

	<p style="text-align: center;">Condition</p>	<p style="text-align: center;">Compliance Status</p>
	<p>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.</p>	<p>The plant is designed based on zero discharge concepts. The layout of the plant has been designed such that effluents and the storm water do not mix.</p>

	A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt/plantation.	Agreed
	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 issue of clearance and details shall be furnished to the Regional Office of the Ministry.	The report had been submitted on 17 th March 2011. Hydro geological investigation &rain water harvesting system scheme already submitted vide our letter dated 23 rd May 2019.
	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.	Will be complied as applicable. Risk assessment and safety measures mentioned in the EIA report already submitted vide our letter dated 23 rd May 2019.
	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 eventually in case of an accident taking place due to storage of oil.	Shall be complied as required.
	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.	Will be Complied as required.
	Monitoring surface water quality and 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.	Regular Monitoring of Surface and ground water is under progress. The results of analysis are attached Annexure #3.

	<p>First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.</p>	<p>First Aid facility is made available to workers at site. Separate sanitation facilities for Female and male workers have been provided at the construction site.</p>
	<p>Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 75 dB. For people working in the high noise area, requisite personal protective equipment like earplugs/ ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non noisy/less noisy areas.</p>	<p>Shall be complied as required. The results of Periodical monitoring of Ambient noise Quality is enclosed as Annexure # 1.</p>
	<p>Regular monitoring of ground level concentration of SO_x, NO_x, PM_{2.5} & PM₁₀ 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.</p>	<p>The results of periodical monitoring of Ambient Air Quality is enclosed as Annexure # 1.</p>
	<p>Provision shall be made for the housing of construction labor (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.</p>	<p>The necessary facilities are being provided by the Proponent for construction workers.</p>

<p>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.</p>	<p>Complied.</p>
<p>A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, ZilaParisad/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.</p>	<p>Complied.</p>
<p>An Environment cell shall be created at the project site itself and shall be headed by an officer of appropriate seniority and qualification. It shall be ensured that the head of the Cell directly report to the head of the organization.</p>	<p>A separate EMC has been established. It is headed by a Senior officer. Same is suitably staffed. He reports directly to Station head.</p>
<p>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 of MOEF, the respective Zonal office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM (PM_{2.5} &PM₁₀), SO₂, NO_x(ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain.</p>	<p>Being Complied. https://diliigentpower.com/html/safety.html</p>

<p>The environment statement for each financial year ending 31stMarch 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 the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail.</p>	<p>Will be complied as applicable.</p>
<p>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 environmental clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, Ministry of Environment and forests.</p>	<p>Complied.</p>
<p>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 NO_x(from stack & ambient air) shall be displayed at the main gate of the power plant.</p>	<p>Complied.</p>
<p>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 environment protection measures shall not be diverted for other purpose and year-wise expenditure should be reported to the Ministry.</p>	<p>Being complied.</p>

	<p>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.</p>	<ul style="list-style-type: none"> • Date of financial Closure- 20.04.2012 • Land development work started from October 2010.
	<p>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.</p>	<p>Full cooperation is extended to the Scientists / Officers from the Ministry / Regional Office of the Ministry at Bhopal / CPCB / SPCB as and when required.</p>

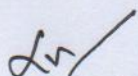
Environment Lab

Monitoring Report : Ambient Noise Level Monitoring Report

Plant Location : DB Power (MP) Limited, Vill. Gorgi, Singrauli (M.P.)

Period : October 2019 - March 2020

Unit of Measurement : dB(A)Leq					
Location	Unit	Result		Limit (Residential Area)	
		Day Time	Night Time	Day Time	Night Time
Papal Site	dB(A)	45.8	37.4	55	45
Gorgi Site	dB(A)	46.8	40.2		
Niwas Village	dB(A)	50.2	45.1		
Gorgi Village	dB(A)	48.7	43.2		



Incharge, Environment Laboratory
DB Power Limited, Badadarha, CG

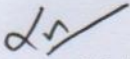
Environment Lab

Analysis Report : Ambient Air Quality Monitoring Report

Plant Location : DB Power (MP) Limited, Vill. Gorgi, Singrauli (M.P.)

Period : October 2019 - March 2020

Parameter	Unit	Village office Gorgi	Gorgi	Papal	Niwas Village	NAAQM Standard
PM10	$\mu\text{g}/\text{m}^3$	52.8	48.6	55.8	50.7	100
PM2.5	$\mu\text{g}/\text{m}^3$	31.6	23.8	26.9	30.5	60
SO ₂	$\mu\text{g}/\text{m}^3$	12.8	12.4	10.3	9.8	80
NO ₂	$\mu\text{g}/\text{m}^3$	15.3	17.0	14.7	12.3	80
CO	mg/m^3	1.0	1.2	1.0	1.3	4.0



Incharge, Environment Laboratory
DB Power Limited, Badadarha, CG

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Analysis Report :

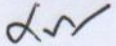
Surface Water Quality Monitoring Report

Plant Location :

DB Power (MP) Limited, Vill. Gorgi, Singrauli (M.P.)

Period : January 2020

S. No.	Parameter	Unit	Gopad River	Village Gorgi Pond
1	Colour	Hazan	2	3
2	odour	-	Aggreable	Aggreable
3	Turbidity	NTU	12	9.2
4	pH	-	7.25	6.9
5	Conductivity	uS/cm	274	281
6	TDS	mg/l	164.4	168.6
7	Alakalinity as CaCo3	mg/l	82.2	84.3
8	Total Hardness as CaCO3	mg/l	98.64	101.16
9	Ca Hardness as CaCO3	mg/l	24.66	25.29
10	Mg Hardness as CaCO3	mg/l	9.864	10.116
11	Sodium	mg/l	7	10
12	Potassioum	mg/l	11	12
13	Chloride as Cl	mg/l	24	26
14	Sulphate as SO4	mg/l	8	11
15	Nitrate as NO3	mg/l	3	4



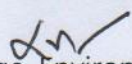
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Environment Lab

Analysis Report : Village Ground Water Quality Monitoring Report
Plant Location : DB Power (MP) Limited, Vill. Gorgi, Singrauli (M.P.)

Period : January 2020

S. No.	Parameter	Unit	Hardi Handpump	Mahugaon Handpump	Mahugaon East Handpump	Niwas Handpump
1	Colour	Hazan	<1	<1	<1	<1
2	odour	-	Aggreable	Aggreable	Aggreable	Aggreable
3	Turbidity	NTU	0.85	1.0	0.8	0.7
4	pH	-	7.3	7.3	7.5	7.2
5	Conductivity	uS/cm	390	410	365	475
6	TDS	mg/l	374	378	405	350
7	Alakalinity as CaCo3	mg/l	187	189	202.5	175
8	Total Hardness as CaCO3	mg/l	224.4	226.8	243	210
9	Ca Hardness as CaCO3	mg/l	56.1	56.7	60.75	52.5
10	Mg Hardness as CaCO3	mg/l	22.44	22.68	24.30	21.00
11	Sodium	mg/l	12	10	14	16
12	Potassium	mg/l	8	9	11	10
13	Chloride as Cl	mg/l	26	21	25	20
14	Sulphate as SO4	mg/l	10	13	18	19
15	Nitrate as NO3	mg/l	6	4	3	5


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