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**SIX MONTHLY COMPLIANCE REPORT
OF
ENVIRONMENTAL CLEARANCE**

1980 (3x660) MW THERMAL POWER PLANT

at

**MIRCHWARA, DISTRICT LALITPUR
UTTAR PRADESH**

Submitted to:

**Regional Office (Central Zone), MoEF, Lucknow
Member Secretary, UPPCB, Lucknow
RO Office, UPPCB, Jhansi (UP)**

Submitted By:

**Environment, Occupational Health & Safety Department
Lalitpur Power Generation Co. Ltd.
B-10, Bajaj Bhawan, Sector-3,
Noida- 201301, UP**

PERIOD: April- 2024 to September- 2024

Compliance status on Environmental Clearance

(3 X 660 MW Coal based Thermal Power Plant)

LETTER NO. J-13012/118/2009-IA. II (T) Dated 31.03.2011 and

Subsequent amendment in Environmental Clearance vide

LETTER NO. J-13012/118/2009-IA.II (T) Dated 20.05.2014

LETTER NO. J-13012/118/2009-IA.II (T) Dated 30.05.2016

SL. NO.	SPECIFIC CONDITIONS	
	DETAILS	ACTION DETAILS
1.	Vision document specifying prospective plan for the site shall be formulated and submitted to the Ministry within six months	Vision document specifying prospective plan for the site was formulated and submitted to ministry within due time. The Vision document is enclosed as annexure-1.
2.	Coal transportation to plant site shall be by rail. The project proponent shall take up the matter with the Railways and shall submit action taken and implementation status to the Ministry from time to time.	Being Complied, The coal is being transported to plant site through rail line only.
3.	Existing de-generated water bodies (if any) in the study area shall be regenerated at the project proponent's expenses in consultation with the state Government.	Not Applicable There are no any existing degenerated water bodies in the study area.
4.	Hydrogeology of the area shall be reviewed annually from an institute/ organization of repute to assess impact of surface water and ground regime (especially around ash dyke). In case and deterioration is observed specific mitigation measures shall be undertaken and reports/ data of water quality monitored regularly and maintained shall be submitted to the Regional Office of the Ministry.	Hydro-geological study of the area has been carried out from a reputed agency. Water quality (ground and surface) is being monitored and submitted regularly to the Regional Office of the Ministry. The Hydrogeology report is attached as annexure-2.
5.	Source of water for meeting the requirement during lean season shall be specified and submitted to the Regional Office of the Ministry within three months	We are having agreement with UP Irrigation to cater the water from Kachnuda Dam during lean season apart from Rajghat Dam. We have also constructed water reservoirs for storage of water and its further utilization in lean season.
6.	No ground water shall be extracted for use in operation of the power plant even in lean season.	Being Complied, Ground water is not being extracted, only surface water from Rajghat & Kachanuda Dam is being utilize for power plant operation. We have not installed any

		ground water extraction source in our plant premises.
7	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.	Complied, No water bodies in the area have been disturbed due to activities associated with the setting up / operation of the power plant. "Our water management with sustenance of the sanctity of ground water and rivers in and around our plants has been appreciated by Ministry of Jal Shakti Department of Water Resources, Govt. of India with Awards and cash & citation in 2020"
8.	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.	Not Applicable Minimum required environmental flow suggested by the Competent Authority of the State Govt. is being maintained in the Channel/Rivers (as applicable) even in lean season. There is no any natural drain/Canal/River inside the plant area. The water is being extracted from intake structure designed and approved from irrigation department Govt. of UP, without disturbing the flow.
9	Water requirement shall be restricted to 5000 cum/hr and COC of 5.0 shall be adopted	Being Complied, The Water requirement is less than 5000 cum/hr and COC is >5.0. We have adopted the 3 R principle i.e., Reduce, Reuse & Recycle. All the effluent generated is being treated and recycled for different uses in plant like ash quenching, ash dyke etc., We are utilizing high quality of biocides and antiscalant which helps to increase the COC and reduce the blowdowns. The water consumption details is enclosed as annexure-3
10	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	Being complied, Piezometers have been installed & quality monitoring particularly for heavy metals (Hg, Cr, As, Pb) around the ash pond is being carried out. Recent reports are enclosed as Annexure 3 . Comparison of data obtained with baseline data is also

	data so as to ensure that the ground water quality is not adversely affected due to the project.	being done and report attached as annexure-4
11.	Monitoring surface water quality in the area 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.	Being complied, Surface water quality in the area is being monitored regularly and record is also maintained. Monitoring points are located as prescribed between the plant and drainage towards the direction of flow of ground water. The reports are enclosed as Annexure 5.
12.	A well designed rainwater harvesting shall be put in place before commissioning of the plant. Central Groundwater Authority/ Board shall be consulted for finalization of appropriate rainwater harvesting technology/design within a period of three months from the date of this clearance and details shall be furnished. The design of rain water harvesting shall comprise of rain water collection from the built up and open area in the plant premises. Action plan and road map for implementation shall be submitted to the Ministry within six months.	Complied; Rain Water Harvesting system/structures within the Plant have been constructed, comprising of: Check Dam - 1 No. Pond with Bore - 1 No. Nala revival - 880 mtrs Percolation well- 5 Nos. Bore well - 24 Nos.
13	Additional soil for 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.	Compiled, During the construction phase, additional soil required for the leveling purpose had been generated within the site only to protect and improve the natural drainage system of the area.
14	Provision for installation of FGD shall be provided for future use.	Space is kept for the installation of FGD.
15	The project proponent shall undertake measures and ensure that no fugitive fly ash emissions take place at any point of time	Being complied, Fly ash silo are equipped with pneumatic chute to fill the ash in the Bulkheads as well as Silo area is isolated by the partition wall to control fugitive fly ash emission. Additionally, mobile water sprinklers are also deployed to suppress the occasional fugitive dust while movement of vehicles. The dust suppression and extraction equipment's are also installed to prevent the fugitive emission.
16	Stack of 275 m height shall be installed and provided with continuous online monitoring	Complied,

	Adequate safety measures shall also be implemented to protect the ash dyke from getting breached.	of MoEF, CEA and CPCB. The lining is also covered with PCC. Regular monitoring also is being carried out through internal and external agencies.
22	Sulphur and ash contents in the imported coal to be used in the project shall not exceed 0.7 % and 10 % respectively at any given time. In case of variation of coal quality at any point of time fresh reference shall be made to the Ministry for suitable amendments to environmental clearance condition wherever necessary.	Environmental Compliance Conditions has been amended on dated 20 th May 2014 and 30 th May 2016 through which permission granted to use domestic coal for all 3 x 660 MW units.
23	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 80 %.	Being Complied, Green belt development/ plantations are carried out extensively. Efforts are made to develop more greenery in and around plant premises. Full-fledged nursery has been developed for afforestation & horticultural activities. In last 7 years we have planted 3.60 lakh of saplings within the campus especially in dusty area like Coal yard, wagon Tripler, silos, FOPH, Ash dyke areas, in Township, 4.00 Lakh saplings distributed/planted at local villages and 50000 plants are also adopted from irrigation department & regular care being taken. Approximately 93 varieties of plants like Sisam, Kanji, Alastonia, Gulmohar, Amaltas, Kadam, Aowla, Neem, Ashok, Peepal etc have been planted in green belt area. The green belt details are enclosed as annexure-8.
24	Atleast three nearest village shall be adopted and basic amenities like development of roads, drinking water supply, primary health centre, primary school etc shall be developed in co-ordination with the district administration.	Being Complied Five nearest village viz. Burogaon, Mirchwara, Surikalan, Udaipura and Semra bhganagar have already been adopted in co-ordination with District Administration. All the basic amenities like water, roads & other infrastructure development, health camps, sanitation, trainings to community members etc. are being provided regularly.
25	The project proponent shall also adequately contribute in the development of the Neighboring villages. Special package with implementation schedule for providing potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.	Being Complied We through our CSR wing Kamalnayan Jamnalal Bajaj Foundation in collaboration with the respective Gram Panchayats are doing needful intervention towards providing potable water supply in the

		nearby villages and schools.
26	<p>CSR scheme shall be identified based on need based assessment in and around the villages within 5.0 km of the site and In constant consultation with the village Panchayat and the District Administration. As part of CSR prior identification of local employable youth and eventual employment in the project after imparting relevant training shall be also undertaken. Income generating projects consistent with the traditional skills of the people shall be undertaken. 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. Vocational training programme for possible self employment and jobs shall be imparted to identity villagers free of cost.</p>	<p>Being complying,</p> <p>We are working through Kamal Nayan Jamnalal Bajaj Foundation (KJBF) for CSR activities at LPGCL plant site. KJBF is a reputed non-profit making NGO working for the socio-economic development of the society by adopting participatory approaches. . KJBF has been actively involved in community development programmes in the nearby villages focussing on development of water resources, sustainable agriculture development, Livelihood promotion through Income Generating Activities, promotion of vegetable cultivation & fruit orchards, in partnership with local people, Govt. and development organizations like NABARD, Research Institutions etc. CSR scheme is being put within 10.0 Km of the site in consultation with the respective village Panchayat and the District Administration based on need based assessment. Vocational training for possible self employment and jobs is also being imparted to identify villagers free of cost. We have made budget provisions for community development activities and income generating programmes</p>
27	<p>An amount of Rs 49.10 Crores shall be earmarked as one time capital cost for CSR programme as committed by the project proponent. Subsequently a recurring expenditure of Rs 9.8 Crores per annum shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be submitted within six month along with road map for implementation.</p>	<p>Being complied</p> <p>Dedicated fund of Rs 49.10 Crores as one time capital cost and recurring expenditure as per the CSR policy of Government of India, is being utilized gainfully for implementation of CSR activities.</p>
28	<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> <p>The annual social audit has been conducted and report submitted. For current year, annual report is enclosed as Annexure 9.</p>
29.	<p>The source of coal has been changed from imported to domestic coal, resulting in higher generation of fly ash there by the project proponent should ensure 100% fly ash utilization</p>	<p>Being complied,</p> <p>We have achieved the 100% Ash utilization before 4th year of operation.</p>

	as per the Notification, 1999 and its amendments thereof. An action plan and its implementation status in compliance to the fly ash utilization shall be submitted to the Regional Office of MoEF on an annual basis.	
30.	The coal transportation by road shall be through tarpaulin covered trucks for a maximum period of two years and thereafter shall be only through mechanically covered trucks.	Not Applicable, All the coal is transported through Rail rakes.
31.	Avenue plantation of 2/3 rows all along the road shall be carried out by the project proponent at its own expenses in consultation with the State Government Authorities.	Not Applicable, The coal is transported through Rail rakes only.
32.	Periodic maintenance of the road shall be done by the project proponent at its own expenses and shall also facilitate the traffic control on the road in consultation with the State Government Authorities.	Not Applicable We are not using the road transport. The coal is transported through Rail rakes only.
33.	Sulphur and ash contents in the domestic coal to be used in the project shall not exceed 0.5% and 33% at any given time. In case of variation of coal quality at any point of time, fresh reference shall be made to the Ministry for suitable amendments to environmental clearance condition wherever necessary.	Being Complied Sulphur contents in coal <0.5%. Please refer notification S.O. 1561 (E) dated 21.5.2020 for use of unwashed coal irrespective of Ash content. Analysis report is attached as Annexure-10 .
34.	A long term study of radio activity and heavy metals contents on coal to be used shall be carried out through a reputed institute. Thereafter, mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal and fly ash (including bottom ash) shall be put in place.	Radioactivity in coal is being analyzed through the Laboratory of Bhabha Atomic Research Centre, Trombay, Mumbai. Thereafter, mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal and fly ash (including bottom ash) shall be put in place. The recent report is enclosed as annexure-11 .
35.	Harnessing solar power within the premises of the plant particularly at available roof tops shall be undertaken and status of implementation shall be submitted periodically to the Regional Office of the Ministry.	Solar lamps, lights & lanterns, etc. are provided to the villagers. A consultant was engaged to prepare pre-feasibility reports particularly on harnessing solar power at available roof tops. Implementation is in process. A 5.76 KW solar panel is already installed on Canteen roof. However we have commissioned total 47 KW solar power (Lakhenjer – 21 KW, Varguan – 15KW & Barai – 11 KW) in three villages under CSR drive in coordination with district administration & NEDA district officer.
36.	Fugitive emissions shall be controlled to prevent	Complied,

	impact on agricultural or non-agricultural land.	All the appropriate measures are in place to control the fugitive emissions to prevent impact on agricultural or non-agricultural land.
37.	Fly ash shall not be used for agricultural purpose. No mine void filling will be undertaken as an option for ash utilization without adequate lining of mine with suitable media such that no leachate shall take place at any point of time. In case, the option of mine void filling is to be adopted, prior detailed study of soil characteristics of the mine area shall be undertaken from an institute of repute and adequate clay lining shall be ascertained by the State PCB.	Strictly complying. The fly ash is being utilized as per the MoEF&CC office memorandum dated 28.08.2019. The Office Memorandum is enclosed as annexure-12.
38.	Green belt shall also be developed around the Ash Pond over and above the Green Belt around the plant boundary.	Being Complied, Green belt around the Ash pond and around the boundary are developed and maintained. The photographs are attached as annexure-13.
39.	The project proponent shall formulate a well laid Corporate Environment Policy and identify and designate responsible officers at all levels of its hierarchy for ensuring adherence to the policy and compliance with the conditions stipulated in this clearance letter and other applicable environmental laws and regulations.	Company has formulated a well laid corporate Environment Policy, which has been displayed at every section of plant. We have also formulated a Environmental Management Cell headed by the Chief Sustainability Officer reporting to Head of the organization for ensuring adherence to the policy and compliance with the conditions stipulated in this clearance and other applicable environmental laws and regulations. The detail of Environment Policy & Environment Management Cell has already been submitted. The details of Environment Management Cell are attached as annexure-14.
40.	The sulphur and ash content of coal shall not exceed 0.5% and 34% respectively. In case of variation of quality at any point of time, fresh reference shall be made to the ministry for suitable amendments to the environmental clearance.	Sulphur content of coal remains below the limit of 0.5%. Limitation of Ash content in coal is as not applicable as per the notification of MoEF & CC S.O. 1561(E) dated 21.05.2020
41.	The transportation of Coal shall be by rail to the extent feasible. If road transportation of coal from Pit head to railway siding is unavoidable, the same shall be through mechanically covered trucks to the extent feasible, else through tarpaulin covered trucks	Coal is being transported through rail rake only

	State Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in .	
10.	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, 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.	Complied, Copy of the Environment Clearance letter had also been sent to concerned Panchayat, Zila Parisad / Municipal Corporation, urban local Body and the Local NGO. The copy of Environment Clearance is also available on the web site of the company.
11.	An Environmental Cell comprising of atleast one expert in environmental science / engineering, occupational health and social scientist, shall be created at the project site itself and shall be headed by an officer of appropriate superior and qualification. It shall be ensured that the Head of the Cell shall directly report to the head of the organization and he shall be held responsible for implementation of environmental regulations and social impact improvement/mitigation measures.	Complied, Environmental Management Cell is already in place headed by Chief Sustainability Officer reporting to Head of the organization. The details are already enclosed as annexure-14 .
12.	The proponent shall upload the status of compliance of the stipulated environmental clearance 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} & PM ₁₀), SO _x , 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.	Being complied, Report on status of compliance of conditions of Environmental Clearance is being submitted to Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB and reports are also web hosted on company web site. SPM, RSPM (PM _{2.5} & PM ₁₀), SO _x , NO _x , (ambient levels as well as stack emissions) being arranged to be displayed at a suitable location near the main gate of the company.
13.	The environment statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State PCB 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.	Being complied, Environmental Statement for the each financial year ending 31 st March is being submitted in Form-V to State Pollution Control Board. Environmental Statement along with compliance status of Environmental Clearance is also put on company web site. Last Environmental statement compliance report was submitted in the month of Aug 2024.
14.	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the	Being Complied, Six monthly compliance status reports along with data is being submitted regularly to

	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 e-mail to the Regional Office, Ministry of Environment and Forests.	UPPCB/CPCB/MoEF and also has been made available on the Website.
15.	The 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.	Environmental Impact Assessment Report and Environment Management Plan have already been submitted to Regional office of MoEF, Lucknow. Compliance status uploaded on company web site. Criteria pollutants levels including NOx (from stack & ambient air) displayed at the main gate of the power plant.
16	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 purposes and year-wise expenditure should be reported to the Ministry.	Being Complied, Separate funds allocated for implementation of environmental protection measures are fully dedicated by utilizing for Environmental Protection measures and have not been utilized for other purpose. Year wise expenditure details for FY 2023-24 is attached as annexure -19
17	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.	Financial closure (Original) - 24.08.2011 Final approval of the project by the concerned authorities - MoU with Govt of UP was signed on 22.04.2010. Dates of start of land development work - 20.12.2010 Commissioning of plant - 01.10.2015 (Unit I) 08.01.2016 (Unit II) 01.04.2016 (Unit III)
18	Full cooperation shall be extended to the Scientists/Officers from the Ministry / Regional Office of the Ministry at Lucknow/CPCB/ SPCB who would be monitoring the compliance of	Noted for compliance

environmental status.

Thanking you.

Your's faithfully
For Lalitpur Power Generation Company Ltd.


9/11/24

Authorized signatory

CC To

- The Chief Environment Officer, Circle-2, Uttar Pradesh Pollution Control Board, Lucknow
- The Regional officer UP Pollution Control board, Jhansi

Encl: As Above