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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: 1st October-2024 to 31st March-2025

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 Kachnauda 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

	ground water quality is not adversely affected due to the project.	
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 Bulkers 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 supress 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 equipments for SOx, NOx and PM2.5 & PM10. Exit velocity of flue gases shall not be less than 22 m/sec. Mercury emissions from stack may also monitored on periodic basis	**Complied,** A stack of 275 meters height has been constructed for better dispersion and continuous online monitoring equipments for SOx, NOx and PM are installed. Flue gas exit velocity is maintained as ≥ 22 m/sec.
17	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm3.	**Complied,** State of the art high efficiency Electrostatic Precipitators are installed to restrict particulate emissions below 50 mg/Nm^3. Stack emission monitoring Report is enclosed as **Annexure 6.**
18	Adequate dust extraction system such as cyclones/ bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.	**Complied,** To control fugitive emission, rain gun type water sprinkling system has been installed in coal yard. Closed conveyor belts are provided. Cyclones followed by Dry fog dust suppression system are installed at each coal transfer points (JNT's). Additionally, mobile water sprinklers are deployed at CHP area to suppress fugitive dust while movement of vehicles.
19	Utilization of 100% Fly Ash generated shall be made from 4th year of operation. Status of implementation shall be reported to the Regional Office of the Ministry from time to time.	**Being complied,** 100% utilization of Fly Ash has been achieved before 4th year of the power plant operation. The ash generated is being utilize in cement manufacturing, brick/block manufacturing and utilize in construction sites.
20	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 form of slurry form. Mercury and other heavy metals (As, Hg, Cr, Pb etc.) will be monitored in the bottom ash as also in the effluents emanating from the existing ash pond. No ash shall be disposed off in low lying area.	**Being complied,** Fly ash is being collected in dry form in 6 fly ash storage silos. Unutilized fly ash along with bottom ash is being disposed off in ash pond in the form of slurry. Mercury and other heavy metals (As, Hg, Cr, Pb etc.) are being monitored in the bottom ash and effluents emanating from the existing ash pond is being recycled using Ash Water Recirculation System (AWRS). Ash is being disposed as per the recent guidelines of MoEF & CC and CPCB. Recent analysis report is enclosed as **Annexure-7.**
21	Ash pond shall be lined with HDP/LDPE lining or any other suitable impermeable media such that no lecheate takes place at any point of time. Adequate safety	**Complied,** Well-designed Ash dyke with HDPE lining have been established as per guidelines of MoEF, CEA and CPCB. The lining is also

	measures shall also be implemented to protect the ash dyke from getting breached.	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 20th May 2014 and 30th 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 3.55 lakh of saplings within the campus especially in dusty area like Coal yard, wagon Tripler, silos, FOPH, Ash dyke areas, in Township, 4.09 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	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.	**Being complying,** 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
27	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.	**Being complied** 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.
28	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	**Being complied,** The annual social audit has been conducted and report submitted. For current year, annual report is enclosed as **Annexure 9.**
29.	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	**Being complied,** We have achieved the 100% Ash utilization before 4th year of operation.

	ash utilization 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) dated21.5.2020 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 impact on agricultural or non-agricultural land.	**Complied,** 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	Coal is being transported through rail rake only

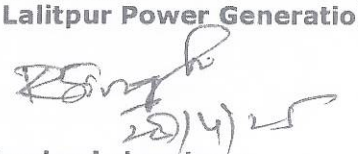
	railway siding is unavoidable, the same shall be through mechanically covered trucks to the extent feasible, else through tarpaulin covered trucks	
42.	Avenue Plantation of 2/3 rows all along the road shall be carried out by the Project Proponent at its own expenses in consultation with the state Government	Being complied
43.	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	We are not using the road transport. The coal is transported through Rail rakes only.
44.	Further the specific condition No. (xxvii) of the EC shall be amended as, "An amount of Rs. 49.10 Crores shall be earmarked as one time Capital cost for CSR Programme as committed by the Project proponent	Noted for compliance
Sl. No.	**GENERAL CONDITIONS**	
	Details	**Action Details**
1.	The treated effluents conforming to the prescribed standards only shall be re-circulated and reused within the plant. Arrangements shall be made that effluents and storm water do not get mixed.	Treated effluent is conforming to the prescribed standards and is being recycled & reused gainfully in process within the Plant. Both storm water & effluent drains are separate and there are no chances of its mixing. Recent effluent analysis report is enclosed as **annexure-15**.
2.	A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt/plantation.	An appropriate capacity sewage treatment plant has already been installed and treated sewage is being utilized in horticulture/raising greenbelt & toiletry flush. The recent analysis report is enclosed as **annexure-16.**
3.	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.	**Being Complied,** All the standard safety practices are in place apart from effective control measures. Well-designed Fire hydrant system covering entire Plant is in place. Details are : Fire extinguishers- 1230 Nos., Fire Hydrant Point- 353 Nos., Hose reel- 55 Nos., Water monitor- 69 Nos., Fire tender- 2 Nos., Jet gun (CHP)-80 Nos., MVWS & HVWS- In cable gallery, conveyors & transformer area
4.	Storage facilities for auxiliary liquid fuel	**Complied,**

	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 an accident taking place due to storage of oil.	The fuel LDO properly stored in minimum risk area & as per the norms fixed by the Chief Controller of Explosive. Disaster management plan and On-site emergency plan prepared & Mock drills are being conducted periodically to meet any eventuality in case of an accident taking place due to storage of oil.
5.	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	**Complied,** Presently the plant is under operation phase.
6.	Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 85 dBA from source. 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.	**Being complied** Noise level in the work zone is restricted to 85 dBA from source. Personnel protective equipment like earplugs/ear muffs are provided to people working in noisy area. Audiometric tests are carried out periodically and records maintained for treatment for any hearing loss apart from shifting to non noisy/less noisy areas. Analysis report attached as **Annexure-17.**
7.	Regular monitoring of ambient air ground level concentration of SOx, NOx, PM2.5 & 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 this Ministry. The data shall also be put on the website of the company.	**Being complied,** Regular monitoring of ambient air ground level concentration of SOx, NOx, PM 2.5 & PM 10 and Hg carried out in the impact zone on the locations and frequency as decided in consultation with SPCB. Reports are enclosed as **Annexure-18.**
8.	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,** Temporary housing to construction labor was provided within the site with all necessary infrastructure and facilities. Temporary housing and facilities have already been removed after the completion of the project. Presently the plant is under operation phase.

	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.	measures and have not been utilized for other purpose. Year wise expenditure details for FY 2024-25 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 environmental status.	Noted for compliance

Thanking you.

Your's faithfully
For Lalitpur Power Generation Company Ltd.



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