SIX MONTHLY COMPLIANCE REPORT OF ENVIRONMENTAL CLEARANCE



2X660 MW JAWAHARPUR THERMAL POWER PROJECT MALAWAN, DISTRICT-ETAH

Submitted to:-

MoEF&CC, New Delhi
Regional office of MoEF&CC, Lucknow
Central Pollution Control Board (CPCB), New Delhi
Regional office of the CPCB, Lucknow.
UP Pollution Control Board,Lucknow.

Submitted by:-

Chief Engineer (Civil-New Projects)
U.P. Rajya Vidyut Utpadan Nigam Ltd.
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(Period: - January, 2025 – June,2025)

NAME OF THE PROJECT: - 2X660MW COAL BASED SUPER CRITICAL, JAWAHARPUR THERMAL POWER PROJECT AT MALAWAN, DIST – ETAH. UTTAR PRADESH BY U.P. RAJYA VIDYUT UTPADAN NIGAM LTD.

Reference: Environmental Clearance vide no. J- 13012/17/2015-IA.I(T) Date:-20.10.16

Period of compliance Report: January, 2025 to June, 2025

A) Specific conditions:

Sl.No.	Subject of compliance	Update status for period of January, 2025 to June, 2025
i)	The PP shall take up the matter regarding compensation to the remaining land oustees with the District Administration and ensure that the Etah town & its nearby areas for the proposed TPP.	Complied most of the compensation has been paid
ii)	The PP shall carry out detailed/feasibility study to treat and utilize sewage water from the Etah town & its nearby areas for the proposed TPP.	As per policy of Government, the project proponent has to appointed consultant M/s Blue stream infrastructure development consultant Pvt. Ltd. Ltd for providing consultancy services for feasibility study, DPR preparation, Transaction advisory, Bid Process, Management for treatment of STP effluent & reuse of treated STP Effluent in Thermal Power Plant Vide Letter No. 147/CMD-II/ELML/ETPS/HTPS Dated 03/04/24. At present time PFR is Under review of PP.
iii)	The PP shall optimize the use of consumptive water by utilizing appropriate technology, as per CEA/ MoEF&CC Norms, approximately 38 cusecs and surrender remaining 15 cusecs to UP Irrigation department.	As per CEA/ MoEF&CC norms for 38 cusecs water work was awarded to UP Irrigation and work is completed.
iv)	Provision shall be made for storage of rain water and storm water for use in the plant to reduce further drawn from irrigation department.	Rain water Harvesting pond construction is completed as per provision.
v)	As committed FGD and SCR shall be installed in the proposed Thermal Power Plant.	Provision has already been made with the EPC Contract and accordingly work is under progress, 93% of FGD and 95% of SCR work completed.
vi)	Washed coal of <32% ash, 0.4% S shall be used. Coal transport will be through railways.	Shall be Complied
vii)	Ponds for collection of rain water in the surrounding area shall be developed for rain water conservation/ harvesting for	As per the provision of EPC Contract work is completed.

	ground water recharge and usage by villages.	
viii)	The pond ash shall also be utilize for PMGSY Road, National Highways, state Highways, conservation/ harvesting for ground water recharge and usage by villages.	Shall be Complied
ix)	The PP shall explore feasibility of Air cooled condensers based on the guidelines of CFA.	Presently water cooled condensers has been installed as per contract.
x)	As committed, during construction phase of the TPP, CSR work worth Rs. 25.00 Crores shall be spent exclusively in five (05) gram Panchayats whose land has been acquired for the power plant. Balance Rs. 8.0 crores shall be spent in selected remaining villages within 10 Km radius in consultation with district authorities. The CSR budget during operational phase shall be earmarked as per the CSR policy of Govt. of India.	Following work have been completed under program with the approval of Distt. CSR committee. 1. Street lights in 5 villages are installed. 2. RO plant installation in 5 villages is installed. 3. Blankets worth 4 lakh distributed in these 5 villages. 4. 3 No. Health ATM & 2 No. CVC Machine installed. 5. Machines for OT and NICU at PHC malawan are Install and operational. 6. Work of solar plant and solar steel line completed at PMC Nigohhasanpur. 7. Work of solar plant and solar steel line is under progress at PMC Malawan. 8. 100 nos. of motorized tricycle distributed to beneficiary. 9. Aganwadi work in 5 villages is under progress. 10. Oxygen Plant installation work completed. 11. Oxygen Pipe line & shed construction work completed at Primary Health Centre, Bagwala. 12. 82.5 KVA Generator installed at Primary Health Centre, Bagwala. 13. Ambulance for 5 Affected villages. 14. Construction of 11 N0s Rain Water harvesting System in Affected Area. 15. 2 Ponds Modifications Work in affected area Under Progress. 16. Smart class for 17 N0s P/U Schools in affected area under progress. 17. Construction of community centre in village Malawan & Babrauti, Ayar, Birsinghpur, Nigoh Hasanpur are under progress. 18. RSETI Canara Bankis in 5 effected

		villages (Training work). 19. At present Rs 26.15Cr. have been released to various government organization for different welfare works under CER works and balance amount works are under progress.
xi)	Vision document specifying prospective plant for the site shall be formulated and submitted to the Regional office of the Ministry with six Months.	Shall be Complied
xii)	Harnessing solar power within the premises of the plant particularly at available roof tops shall be carried out and status of implementation including actual generation of solar power shall be submitted along with half yearly monitoring report.	Installation of 1500 KV solar power plant is under progress.
xiii)	A long term study of radio activity and heavy metals contents on coal to be analyzed every two year and reported along with monitoring reports. 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.	Shall be Complied
xiv)	Online continuous monitoring system for stack emission, ambient air and effluent shall be installed.	Installation of Online continuous monitoring system is under progress.
xv)	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 30 mg/nm^3 or as would be notified by the Ministry such as cyclones/bag filters and water spray system in dusty areas such ads in coal handing and ash handling points, transfer areas and other with an environment friendly sludge disposal system.	Provision has already been made in the contract for installation high efficiency ESPs. ESP of Unit #1 is completed. ESP of Unit#2 93% of work has been completed and work is under progress.
xvi)	The SO_2, NO_x and Hg emissions shall not exceed 100mg/Nm^3, 100$mg/Nm^3$and 0.03mg/Nm^3 respectively.	Shall be Complied.
xvii)	The specific water consumption shall not exceed 2.5 m^3/MWh and zero waste water discharge shall be achieved.	Shall be Complied.
xviii)	Adequate dust extraction system such as cyclones/bag filters and water spray	Shall be Complied. Sprinkling of water in construction area

	system in dusty areas such as in coal handing and ash handling point; transfer areas and other vulnerable dusty areas shall be provided.	being done regularly.
xix)	COC of at least 5.0 shall be adopted.	Shall be Complied.
xx)	Monitoring of surface water quantity and quality shall also be regularly conducted and records maintained. The monitored date shall be submitted to the Ministry regularly. Further, monitoring points shall be located between the plant and drainage in the drainage in the direction of flow of ground water and records maintained. Monitoring for heavy metals in ground water shall also be undertaken and results/findings submitted along with half yearly monitoring report.	Shall be Complied.
xxi)	A well designed rain water harvesting system shall be put in place within six months, which shall comprise of rain water premises and detailed record kept of the quantity of water harvested every year and its use.	Shall be Complied.
xxii)	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.	No water bodies are disturbed.
xxiii)	Additional soil for leveling of the proposed site shall be generated with the sites (to the extent possible) so the natural drainage system of the area is protected and improved.	Natural drainage system of the area is not disturbed.
xxiv)	Fly ash shall be collected in dry form and storage facility (soils) shall be provided. Mercury and other heavy metals (As. Hg. Cr. Pb etc.) shall be monitored in the bottom ash. No ash shall be disposed of in low lying area.	Shall be Complied. Fly Ash Disposal System work is under progress.
xxv)	No mine void filling will be undertaken and an option for ash utilization without adequate lining of mines 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	Shall be Complied. Provision of HDPE lining is already made in Ash Pond and work is under progress.

	ascertained by the state Pollution control board and implementation done in close co-ordination with the State Pollution Control Board.	
xxvi)	Fugitive emission of fly ash (dry or wet) shall be controlled such that no agricultural or non-agricultural land is affected. Damage to any land shall be mitigated and suitable compensation provided in consultation with the local Panchayat.	Shall be Complied
xxvii)	Green belt Consisting of three tiers of plantations of native species all around plant and at least 50 m width shall be raised. Where ever 50 m width is not feasible a 20 m width shall be raised and adequate justification shall be submitted to the Ministry. The tree density shall not be lesser than 2500 per ha with survival rate not less than 80%.	Shall be Complied
xxviii)	Green belt shall also he developed around the Ash Pond over and above the Green Belt around the plant boundary.	Provision already made and shall be complied.
xxix)	The project proponent shall formulate a well laid Corporate Environment Policy and indentify and designate responsible officers at all levels of its hierarchy for ensuring adherence to the policy and compliance with the condition stipulated in this clearance letter and other applicable environmental laws and regulations.	Shall be Complied
xxx)	CSR schemes indentified based on need based assessment shall be implemented in consultation with the village Panchayat and the District Administration starting from the development of project itself. As part of CSR project after imparting relevant training shall be also undertaken. Company shall provide separate budget for community development activities and income generating program.	Training in 06 trades (Silai, Agarbatti, Dairy, Vermi Compost, Candle) of 35nos in each batches are being provided through Rural Self Employed Training Institute (RSETI).
xxxi	For proper and periodic monitoring of CSR activities, a CSR committee or a Social Audit committee or a suitable credible external agency shall be appointed. CSR activities shall also be evaluated by an independent external agency. This evaluation shall be both concurrent and final.	As per the govt. Policy CSR work are being executed and monitored through District level CSR Committee under chairmanship of DM and as such Govt. orders are being completed.

B) General Conditions:

i)	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.	Provision has already been made with the EPC contract.
ii)	A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt/plantation.	Provision has already been made with the EPC contract. Construction work is in Progress.
iii)	Adequate safety measures shall be provide 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.	Shall be Complied. Work under progress.
iv)	Storage facilities for auxiliary liquid fuel such as LDO/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.	Clearance already obtained from concern department. Disaster Management Plan is Prepared.
v)	First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	Provision has already been made with the EPC contract. Being Complied.
vi)	Noise levels emitting from turbines shall be so controlled such that the noise in the work zone shall be limited to 85dB(A) 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 compressor etc. shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non-noisy/less noisy areas.	Shall be Complied
vii)	Regular monitoring of ambient air 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	Shall be Complied

	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.	
viii)	Utilization of 100% Fly ash generation 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.	Shall be Complied. LOI issued for 100% dry fly ash utilization.
ix)	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.	Provision has already been made with the EPC contract. Being Complied.
x)	The project proponent shall advertise in at least two local newspaper widely circulation 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 the website of MoEF & CC at http://envfor.nic.in	Complied
xi)	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 Body and the Local NGO, if any from whom suggestions/representation, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by proponent.	Complied
xii)	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 pollution levels namely: SPM, RSPM ($PM_{2.5}$ & PM_{10}), SO_2 NO_x (ambient level as well as	Shall be Complied

	stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain.	
xiii)	The environment statement of each financial year ending 31st March 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 Officers of the Ministry by e-mail.	Shall be Complied
xiv)	The Project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to MoEF&CC, its Regional Office, Central Pollution Control Board and State Pollution Control Board. The Project proponent shall uploaded the status of compliance of the environmental clearance conditions on their website and update the same periodically and simultaneously sent the same by e-mail to the Regional Office. MoEF&CC.	Being Complied
xv)	The progress of the project shall be submitted to CEA on six monthly basis.	Being complied
xvi)	Regional office of the MoEF & CC will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental impact Assessment Report and Environment Management 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 bases. Criteria Pollutants levels including NOx (from stack & ambient air) shall be displayed at the main gate of the Power plant.	Shall be Complied
xvii)	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	Fund is allocated for environmental protection measure in EPC Contract of Project such as Plantation of 33% of Project area being done,, ESP, FGD, SCR

	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.	and AWRS being installed for controlling SO_2 NO_X, CO & PM etc .
xviii)	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 date of start of land development work and commissioning of plant.	Shall be Complied
xix)	Full cooperation shall be extended to the Scientists/Officers from the Ministry/Regional Office of the Ministry/CPCB/SPCB who would be monitoring the compliance of environmental status.	Full co-operation shall be extended.
c)	An as built or as completed report on EMP to be submitted stating the scope/extent of work envisaged in the EIA along with estimated cost vis-à-vis the actual completed works and cost incurred. A certificate/completion certificate accordingly, shall have to be submitted before commissioning of the TPP.	For air quality monitoring, pollutant such as SO_2 NO_X, CO & PM etc and parameter of waste water effluent such as pH, Temp and TDS shall be monitored and Data shall be transmitted online to CPCB Server.

18/08/2025

Nodal Officer
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2X660 MW, JTPP, Malawan, Etah