## 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.

7<sup>th</sup> Floor, Shakti Bhawan Extention 14-Ashok Marg, Lucknow-226001

(Period: - DEC, 2023 - MAY, 2024)

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: DEC, 2023 TO MAY, 2024

A) Specific conditions:

() Spec	ific conditions:	G 11 1 most of the compensation has
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 fisiablity 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	Of Hillgation and World 1997
iv)	Irrigation department.  Provision shall be made for storage of rain water and storm water for use in the plant to reduce further drawn from irrigation department	is completed as per pro-
v)	As committed FGD and CSR shall be installed in the proposed Thermal Power Plant.	under progress, 84% of FGD and 75% of SCR work completed.
vi)	Washed coal of <32% ash, 0.4% S shall be used Coal transport will be through railways.	
vii)	Ponds for collection of fail water in surrounding area shall be developed for rain water conservation/ harvesting for ground water	r
viii)	The pond ash shall also be utilize for PMGSY Road, National Highways, state Highways conservation/ harvesting for ground water	

	- have and use so by villages		
1	recharge and usage by villages. The PP shall explore feasibility of Air cooled	Presently water cooled condensers has	
()	condensers based on the guidelines of CFA.	been installed as per contract.	
<u> </u>	As committed, during construction phase of the	Following work have been completed	
)   4	TPP, CSR work worth Rs. 25.00 Crores shall be	under program with the approval of	
	spent exclusively in five (05) gram Panchayats	Distt. CSR committee.	
1	whose land has been acquired for the power	1. Street lights in 5 village is installed.	
	plant. Balance Rs. 8.0 crores shall be spent in	2. RO plant installation in 5 villages is	
	selected remaining villages within 10 km radius	installed.	
.	in consultation with district authorities. The CSR	3. Blankets worth 4 lakh distributed in	
	budget during operational phase shall be	these 5 villages.	
	earmarked as per the CSR policy of Govt. of	4. 3 No. Health ATM & 2 No. CVC	
	India.	Machine installed.	
	india.	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. Aganwadi work in 5 villages is under	
		progress.	
		9. Oxygen Plant installation work	
		completed.	
45		10. Oxygen Pipe line & shed construction	
		work completed at Primary Health	
		Centre, Bagwala.	
		11. 82.5 KVA Generator installed at	
		Primary Health Centre, Bagwala.	
		12. Ambulance for 5 Affected villages.	
		13. Construction of 11 NOs Rain Water	
		harvesting System in Affected Area.	
		14. 2 Ponds Modifications Work in	
		affected area Under Progress.	
		15. Smart class for 17 N0s P/U Schools i	
		affected area under progress.	
		1 Prostion of DM Etah R	
		16. As per the direction of DM Etah R	
		25.43 Cr. has been released to various	
		government organization for differen	
		welfare works.	
.,	Vision document specifying prospective plant for	or Shall be Complied	
xi)	1 -11 be formulated and sublitude to the	10	
	. 1 - CC of the Ministry Willi SIX Months		
	· color power William life Dichiises	01 1110	
xii)	I was a serioularly at available 1001 tops sin	all is included in	
	the state of the s	on compileat	
	The second generation of Solar bower sin	WII	
	be submitted along with half yearly monitoring	ng	
	be submitted along with harry		

report.  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	
metals contents on coal to be analyzed every two year and reported along with monitoring reports.  Thereafter mechanism for an in-built continuous	
year and reported along with monitoring reports.  Thereafter mechanism for an in-built continuous	
Thereafter mechanism for an in-built continuous	
Thereafter mechanism for an in-built continuous	
the state of the s	
monitoring for radio activity and heavy metals in	
coal and fly ash (including bottom ash) shall be	
put in place.	
(IV)   Offille Continuous monitoring system for simple	
emission, ambient air and effluent shall be	
installed.  High Efficiency Electrostatic Precipitators Provision has already bee	n made in the
(v) Inglies the particulate contract for installation h	igh efficiency
(ESPs) shall be installed to ensure that particulate contract for installation in emission does not exceed 30 mg/nm <sup>3</sup> or as would ESPs. ESP of Unit #1	is completed.
	een completed.
ads in coal handing and ash handling points, transfer areas and other with an environment	
transfer areas and other with an environment	
friendly sludge disposal system.  xvi) The SO <sub>2</sub> , NO <sub>x</sub> and Hg emissions shall not exceed Shall be Complied	
XVI)   The SO <sub>2</sub> , NO <sub>x</sub> and Tig chilostons share see	
2.5 m <sup>3</sup> /MWh and Zero waste water discharge	
shall be achieved.	
Adequate dust extraction system such as Shall be Complied.	
VVIII) A (Jettiale dust extraction of stem	onstruction area
dusty areas such as in cour manang	•
Hallulling politi, transfer	
vulnerable dusty areas shall be provided.  Shall be Complied	
THE OTAL PASE OF SHALL DO GROOP CO.	
NAONITOTING OF CITTAGE WALLE QUALITIES WAS TO THE TOTAL TO THE	
shall also be regularly conducted and records	
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	
designed rain water narvesting system Shan be compliced	
had a state of the place within SIX IIIOIIIIIS, WIIIOII	
of rain Water Dictilises and	
lateiled record kept of the quality of water	
1 and 1/20r and 11S USC.	
1 - Jieg inchiding lighted diameter	urhad
the area chall be distinct and the first was and	urbed.
system in the area shan be distributed activities associated with the setting up/operation	
of the nower plant.	
of the power plant.	

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	Shall be Complied. Provision of HDPE lining is already made in Ash Pond and work is under progress.
	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 Pollution control board and implementation done in close co-ordination with the State	•
	Pollution Control Board.	Shall be Complied
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.	
xxvii)	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.	
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.	proposed under CSR.

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.	District level CSR Committee under chairmanship of DM and as such Govt. orders are being completed.
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B) General Conditions:

B)	General Conditions:	
S.No. i)	only shall be re-circulated and reused within the plant.  Arrangements shall be made that effluents and storm water do	Provision has already been made with the EPC contract.
ii)	not get mixed.  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.	Olearance already obtained from concern department.
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 85 dB(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	
vii)	Regular monitoring of ambient air ground level concentration of SO <sub>2</sub> NO <sub>X</sub> , PM <sub>2.5</sub> & PM <sub>10</sub> 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.	
viii)	Utilization of 100% Fly ash generation shall be made from 4 year of operation. Status of implementation shall be reported year of operation. Status of the Ministry from time to time.	ash utilization
ix)	Provision shall be made for the housing of construction labour (as applicable) within the site with all necessary infrastructur and facilities such as fuel for cooking, mobile toilets, mobil STP, safe drinking water, medical health care, creche etc. the	e contract.

•	housing may be in the form of temporary structures to be removed after the completion of the project.	
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 Boar/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 <sub>2.5</sub> & PM <sub>10</sub> ), SO <sub>2</sub> NO <sub>x</sub> (ambient level as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain.	Shall be Complied
xiii)	The environment statement of each financial year ending 31 <sup>st</sup> 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.	
xv)	The progress of the project shall be submitted to CEA on six	
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.	Fund is allocated for
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 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.	environmental protection measure in EPC Contract of Project such as Plantation of 33% of Project area being done,, ESP, FGD, SCR and AWRS being installed for controlling SO <sub>2</sub> NO <sub>X</sub> , 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.	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.	such as SO <sub>2</sub> NO <sub>X</sub> , CO &

Nodal Officer & Poll.... (Environment & Pollution Control Unit) & Superintending Engineer, CCC-I 2X660 MW, JTPP, Malawan, Etah