


	MEJA URJA NIGAM (P) LIMITED (A JV of NTPC Ltd & UPRVUN Ltd)		
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Name of the Project: 2 x 660MW Meja Thermal Power Project

Project Code: F.No. IV/ENV/UP/TH-41/319/2010

Clearance Letter No.: J-13012/03/2008- IA II (T) dated 21/07/2011

Period of Compliance Report: 01 October 2021 to 31 March 2022

Specific conditions:

Dated 01.06.2022

Sl.	Item Description	Status as on 01.06.2022
i)	Primary survey of flora and fauna in the study area shall be carried out and report submitted to the ministry within six months.	Complied and report submitted.
ii)	A wildlife conservation plan (especially with regard to Black buck) shall be prepared in consultation with the office of the chief wildlife concerned and reputed wildlife expert/ institute and submitted to the ministry within six months along with a road map for implementation. The plan shall specify budget earmarked for activities to be undertaken. The conservation plans shall be implemented prior to the commissioning of the power plant and the status of implementation shall be submitted to the regional office of the ministry from time to time.	Complied & submitted.
iii)	Land requirement shall be restricted to 1100 acres (including ash pond)	1118.6 Hectare land acquired including ash dyke, reservoir and township.
iv)	Provision for installing of FGD shall be provided for the future use.	FGD construction is under progress, Completion by Feb'23.
v)	High efficiency Electrostatic precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm ³ . Adequate dust extraction system such as cyclones/bag filters and water spray system in dusty areas such as coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided	Electrostatic precipitators (ESP) of 99.98% efficiency have been provided and operational to limit SPM emission to 30 Mg/NM ³ . An adequate dust extraction system and water spray system has been provided in CHP and ash handling areas to control fugitive emission.
vi)	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 point of time fresh reference shall be made to MOEF for suitable amendments to environmental clearance condition wherever necessary	Shall always be complied with.

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vii)	Stack height of 275 m height shall be installed and provided with continuous online monitoring equipment for SO _x , NO _x and PM _{2.5} & PM ₁₀ . Exit velocity of flue gases shall not be less than 22 m/sec. Mercury emissions from stack may also be monitored on periodic basis.	275 high Stack is provided with continuous online monitoring for Sox, NO _x , SPM. Exit velocity of Flue gas shall be maintained more than 22m/sec and monitoring of Hg emission is being carried out quarterly.
viii)	Existing degenerated water bodies (if any) in the study area shall be regenerated at the project proponent's expenses in consultation with the state government.	Shall be complied with. 04 nos. of check dam constructed in surrounding areas and pond in salaiya kala village renovated. .
ix)	Detailed hydro-geological study shall be conducted (including sustainability of water resource study) by an institute of repute and report submitted to regional office of the ministry. Further hydro-geological study shall be reviewed annually from an institute/ organization of repute to assess the impact of the surface water and ground regime (especially around ash dyke). In case any deterioration is observed, specific mitigation measures shall be undertaken and reports /data of water quality monitored regularly and maintained shall be submitted to the RO of the ministry.	Hydro-geological study for sustainability of water resource has been carried out by MNIT, Prayagraj and report submitted. Presently hydro-geological study is being carried out by the National institute of Hydrology, Roorkee to assess impact of surface water and ground regime. Ground water and surface water monitoring is being carried out by IITR, Lucknow and report being submitted to UPPCB regularly.
x)	Source of water for meeting requirement during lean season shall be specified and submitted to RO of ministry within 3 months.	Complied
xi)	No ground water shall be extracted for the use in operation of the power plant even in lean season.	Shall be Complied with
xii)	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
xiii)	Minimum required environmental flow suggested by the competent authority of state government shall be maintained in the channel/ river (as applicable) even in lean season.	Shall always be complied with.
xiv)	COC of 5.0 shall be adopted. The treated effluent 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. A sewage	COC 5.0 is being maintained. Effluents are being treated & recycled for further reuse. There is no discharge from plant premises. Drain separation scheme is under implementation. The Sewerage treatment plant has been provided and treated STP effluents are being reused in horticulture, green belt development & afforestation.

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	Treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising green belt and plantation.	
xv)	Additional soil for leveling of the proposed site shall be generated within the site (to the extent possible) so that natural drainage system of the area is protected and improved.	Complied.
xvi)	Utilization of 100% fly ash generated shall be made from 4 th year of operation. Status of implementation shall be reported to the regional office of the ministry from time to time.	100% ash utilisation as per direction shall be carried out and report of ash utilisation is being submitted to all Statutory authorities as per requirement & direction.
xvii)	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.	DAES with 04 nos. dry fly ash silo is under construction. 2 nos. HCSD silos are operational. Heavy metal analysis is being monitored in bottom ash. There is no discharge from ash pond. Ash shall not be disposed in low lying areas.
xviii)	Ash pond shall be lined with HDP/LDPE lining or any 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.	Bentonite layer has been applied in Bottom ash lagoons and HCSD slurry layering in other lagoons.
xix)	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.	Currently Not Applicable for MUNPL. In case of disposal of Bottom ash in abandoned mines in future, it shall be complied and ensured.
xx)	Green Belt consisting of 3 tiers of plantations of native species around plant and at least 100 m width shall be raised. Wherever 100 width is not possible a 50 m 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%.	Green belt is being developed in the available space earmarked for afforestation and more than 290000 plantations have already been carried out in available areas. Fresh proposal has been submitted to Social Forestry Department, Allahabad further plantation of 40000 nos. of tree sapling. Plantation shall be carried out on continual basis and in mission mode.

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xxi)	<p>The project proponent shall also adequately contribute in the development of the neighboring villages. Special package with implementation schedule for potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.</p>	<p>111 hand pumps have been installed in project affected villages. Drinking water distribution system through pipe along with storage facility in overhead tank in 2 self-resettlement colonies in villages, New Basti Salaiya kala & New Basti Jhariyahi, has been made operational. Drinking water has been supplied through tankers to all project affected villages and some nearby villages to provide relief during summer season. Construction of one Blast Well completed in village Salaiya kala. In addition Water Filters were distributed to Home Stead Oustees (HSOs) of village Salaiya kala and other affected villages. Solar powered RO water systems have been installed in 07 primary schools of the associated villages to ensure clean drinking water facility. Solar Powered Mini water scheme has been started in Phase 1 in 06 nos. project affected villages namely, Mai Khurd, Mai Kala, Patai Dandi, Esauta, Salaiya Khurd and Bijoura and will be extended to other associated villages in Phase 2.</p>
xxii)	<p>Further an amount of Rs 37.10 Crores shall be earmarked as one time capital cost for CSR programme as committed by the project's proponent. Subsequently a recurring expenditure of Rs 7.40 Crores per annum shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be submitted within six months along with roadmap for implementation.</p>	<p>Rehabilitation Action Plan(RAP) of main plant for the value Rs. 5208 lakhs has been finalized and approved on 28.05.10(submitted to MoEF on 01.10.12). Supplementary RAP for the value Rs. 234 Lakhs for Bijoura Pump House has also been approved and finalized. For CD works, as per RAP I (main plant) and RAP II (supplementary RAP), Rs. 3672 lakhs were approved and till 31.03.2022, Rs. 3337 lakhs have been utilized for the various Community Developmental works at the associated villages. For FY 2022-23, Proposals for need based CD activities have been approved for the balance amount of Rs. 334 lakhs (out of 3672 lakhs).</p>

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xxiii

While identifying CSR activities it shall be ensured that need based assessment for the nearby Villages within study area shall be conducted to study economic 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 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 identify villagers free of cost.

Need based assessment survey has been completed and report submitted.

However, Status of R&R activities completed and being undertaken is as follows:

(Boundary wall constructed at Primary School, Mai Kala, Salaiya Khurd and Jhariyahi. Tools/ Equipment/ Furniture worth 30 Lakhs provided to Govt ITI, Naini. Electrification work of self-resettlement areas of Jhariyahi New Basti and Salaiya Kala New Basti facilitated. One 100KVA and one 20KVA DG sets provided at Govt ITI, Naini. Internal/ approach roads constructed at Govt. ITI, Naini and World Bank ITI, Katra. 5 classrooms and 5 workshops have been constructed at Govt. ITI, Naini.

Construction of approach and internal roads has been completed in villages Salaiya Kala & Jhariyahi.

Three numbers of community centers have been constructed in Salaiya Khurd, Salaiya Kala & Jhariyahi villages.

Construction of approach/ internal roads is being undertaken in project surrounding villages on a regular basis.

Distribution of saplings of fruit bearing trees is being carried out regularly. To improve the water retention in villages, three nos. of check dams have been constructed.

22 nos. of rain- sheds have been constructed. 02 nos. of ponds have been restored and deepened.

Through MOU with the state Govt. of UP, 20 % seats in 8 trades have been reserved for PAPs/ their wards at Govt. ITI, Naini since session 2010-11. Income generating activities like deployment of vehicle with the company on hire basis have been provided to PAPs.

Welfare activities like Medical Camps, Cataract operation camps, Veterinary camps, Distribution of relief material to people affected by natural calamities like flood, fire etc. are being taken up regularly. 150 solar lighting provided in nearby and associated

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		<p>villages. Skill development trainings for youth (males and females) of the nearby villages have been conducted on:</p> <ol style="list-style-type: none"> 1. Mobile-repairing, 2. Assembly of CFL lights 3. Training on LED lighting & solar electrical system 4. Plumbing, 5. Repairing of automobiles (two- wheelers) 6. Basic Beauty & Hairdressing <p>Distribution of Artificial limbs to the 08 nos. 'Specially abled individuals' of the associated villages of MUNPL. Distribution of Aids and assistive devices like hearing aids, walking sticks, crutches to 18 nos. needy individuals of the associated villages.</p> <p>Conducted 'GIRL EMPOWERMENT MISSION- RESIDENTIAL WORKSHOP- 2022' for 40 girls studying in the primary schools of the associated villages. This 04 weeks Residential Workshop is conducted annually and focuses on overall personality development/ empowerment of the girls.</p>
xxiv	<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>A separate department (R&R) headed by an executive at the level of DGM is monitoring R&R works. R&R works are further reviewed and monitored at different levels of Management, periodically.</p> <p>First Socio Economic Survey (SES study was conducted in 2009. First social audit of surrounding villages was completed and report already submitted. Second social audit by GB Pant Social Science Institute, Jhunsi (GBPSSI) for the period Nov-12 to Mar-14 has also been completed and final report has been submitted. Third Social Audit for activities undertaken during April 2014- Mar 2016 has been completed and final report has been submitted by GBPSSI.</p> <p>Social Impact Evaluation Study (SIES) is going to start from 01 July to assess the impact of the CD activities implemented in the associated villages and identifying the gap and suggesting further activities to improve the social indicators. SIES will be conducted by GBPSSI, Jhunsi.</p>

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General Conditions

Sl.	Item Description	Status as on 01.06.2022
i)	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.	There are two Rainwater water harvesting pit and two rainwater recharge pits have been commissioned at the designated place. For final RWH scheme & design a study project has been assigned to NIH Roorkee and RWH scheme as suggested by NIH shall be submitted to CGWB for final vetting and subsequent implementation at site.
ii)	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.	Complied.
iii)	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 eventuality in case of an accident taking place due to storage of oil.	Complied.
iv)	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.	Complied. Total 18 nos. piezometers to be installed in Ash dykes Monitoring around the ash pond area is being carried out at three locations and analysis report is being submitted to Regulatory authorities regularly. (report attached as annexure I)

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v)	Monitoring surface water quantity and quality 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 the ground water shall be undertaken.	Complied. Regular monitoring being conducted by CSIR-IITR quarterly and reports is being submitted to regulatory authorities regularly (attached as annexure II).
vi)	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	Complied
vii)	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/earmuffs 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.	Complied.
viii)	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 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.	4 Nos. AAQMS stations have been commissioned and online data is being transmitted to CPCB. Regular monitoring of ambient air ground level concentration of SO ₂ , NO _x , PM _{2.5} & PM ₁₀ and Hg is being carried out and report is submitted to regulatory authorities regularly (attached as annexure III) Shall be complied
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, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Complied

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x)	<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>	Complied
xi)	<p>A copy of the clearance letter shall be sent by the proponent to concerned panchayat, Zila parishad/ 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>	Complied.
xii)	<p>An Environmental 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 shall directly report to the head of the organization</p>	Complied.
xiii)	<p>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} & 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>	Being complied
xiv)	<p>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 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>	Being Complied.

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xv)	<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>	Being Complied.
xvi)	<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 upload 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.</p>	Being complied
xvii)	<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 measure shall not be diverted for other purposes and year wise expenditure shall be reported to ministry.</p>	Complied.
xviii)	<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>	Complied.
xix)	<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>	Shall always complied with

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Name of the Project: 2 x 660MW Meja Thermal Power Project

Project Code: F.No. IV/ENV/UP/TH-41/319/2010




Clearance Letter No.: J-13012/03/2008- IA II (T) dated 21/07/2011

The following seven specific conditions were being added in the Environmental Clearance amendment Letter no. J-13012/03/2008/IA.II(T) dated: 21/07/2017. These conditions are after condition no. xxiv of this Ministry Letter no. J-13012/03/2008/IA.II(T) dated: 10/01/2011

Specific Condition:

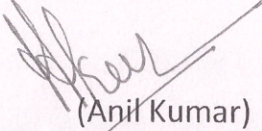
Sl.	ITEM DESCRIPTION	STATUS AS ON 01.06.2022
xxv)	Air and water quality shall be set up for periodic environment monitoring	Being Complied (latest report attached as annexure IV)
xxvi)	Global positioning system (GPS) to be installed on all the trucks carrying coal	Coal is being supplied through rail rakes.
xxvii)	Conditions stipulated in the MOEF Notification dated 07.12.2015 And committed to follow the subsequent notifications issued time to time with respect to specific water consumption. Zero liquid discharge and emission standards.	Specific water consumption is within the limit and being complied. Zero liquid discharge has been envisaged and is under implementation.
xxviii)	Trucks shall be covered with tarpaulin and properly stamped to ensure that tarpaulin is properly tied with the help of rope and truck is pulling covered so that there is no spillage of coal and /or emission of dust during transportation	Transportation of Coal through railway rake only.
xxix)	Water sprinkler to be carried out throughout the road for control of fugitive dust emission.	Being complied as per requirement

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xxx)	Railway sidling shall be constructed before the expiry of validity EC i.e. before 09.1.2018	complied
xxxi)	Treated Sewage water shall be used if there is any sewage treatment plant (STP) located within 50 kmdistance from project	The study is underway to source water from STP Naini.

Pankaj Kumar
 28.06.22
 (PANKAJ KUMAR)
 AGM (EMG)


 (Anil Kumar)

Chief Executive Officer
 Meja Urja Nigam Pvt Ltd.

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 (एनटीपीसी लिमिटेड एवं ए.ए.ए.ए. लि. का संयुक्त उद्यम)
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