



मेजाऊर्जा निगम (पी) लिमिटेड
(एनटीपीसी लिमिटेड और यूपीआर वीयूएन लिमिटेड का एक संयुक्त उद्यम)
MEJA URJA NIGAM (P) LIMITED
(A Joint Venture of NTPC Ltd. & UPRVUN Limited)



प्रयागराज
Prayagraj

MUNPL/EMG/ECCR/letter/2024-25/40

Date :29/06/2024

To,

Regional Officer
MOEF & CC, Kendriya Bhawan
Sector – H, Sector A,
Ali Ganj, Lucknow-226010

Subject: Submission of Half Yearly EC Compliance report for the period 1st Oct'2023 to 31st March'2024.

Dear Sir,

Please find enclosed herewith the half yearly Environment clearance compliance report for the period 1st Oct'2023 to 31st March'2024 of Meja Thermal Power Project.

Thanking You

Yours Faithfully,

Anil Kumar

AGM (P&S /EMG & FES)

अनिल कुमार / ANIL KUMAR
अपर महाप्रबंधक (प्रचालन) / A.G.M. (Operation)
मेजा ऊर्जा निगम (प्रा.) लि., इलाहाबाद
Meja Urja Nigam (P) Ltd. Allahabad
(एनटीपीसी लि. एवं उ.प्र.रा.वि.उ.नि.लि. का संयुक्त उपक्रम)
(A Joint Venture of NTPC Ltd. & UPRVUN Ltd.)

Attachment: 1. Half yearly Environment clearance compliance report for the period 1st Oct'2023 to 31st March'2024 of Meja Thermal Power Project.

Corporate Identity No. U74900DL2008PTC176247

पंजीकृत कार्यालय: एनटीपीसी भवन, कोर -7, स्कोप कॉम्प्लेक्स, इंस्टीट्यूशनल एरिया, लोधी रोड, नई दिल्ली -110 003
Regd. Office: NTPC Bhawan, Core-7, SCOPE Complex, Institutional Area, Lodhi Road, New Delhi-110 003
यूनिट: मेजा थर्मल पावर प्रोजेक्ट, पी.ओ.कोहदार, तहसील-मेजा, डिस्ट.प्रयागराज-212301
Unit: Meja Thermal Power Project, P.O.Kohdar, Tehsil-Meja, Distt.Prayagraj-212301
Phone Nos. 0532-2693300 / 2693333, Fax – 0532-2693178

ENVIRONMENT CLEARANCE COMPLIANCE REPORT (ECCR)

of

MEJA URJA NIGAM (P) LTD.

(A Joint Venture of NTPC Limited & U.P.R.V.U N. Ltd.)

For the period 1st Oct 2023 to 31st March 2024.



By

Environment Management Group

MEJA THERMAL POWER PROJECT

P.O- Kohdar, Tehsil- Meja , Distt-Prayagraj (UP)-212301



MEJA URJA NIGAM (P) LIMITED
(A JV of NTPC Ltd & UPRVUN Ltd)



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: 01st Oct 2023 to 31st March 2024

Specific conditions:

Dated 29.06.2024

Sl.	Item Description	Status as on 31.03.2024
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 plan 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 & report 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.	Erection & commissioning works of FGD is completed. The utility will be put in regular service from Oct'24 against cut off date of Dec'26 inline with MOEF & CC gazette notification GSR 628(E) dated 5 th Dec2022.
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	Complied. Electrostatic precipitators (ESP) have been provided and made operational. PM emission is maintained within 30 Mg/NM ³ . Adequate dust extraction system and water spray system has also been provided in CHP and ash handling areas to control fugitive emission.



MEJA URJA NIGAM (P) LIMITED
(A JV of NTPC Ltd & UPRVUN Ltd)



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.	Noted for compliance.
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 meter high Stack is provided with continuous online monitoring for Sox, NOx, PM. Exit velocity of Flue gas is being maintained more than 22m/sec and monitoring of Hg emission is carried out quarterly. Amendment regarding PM2.5 taken and mentioned in condition no. (iv) of EC Amendment dated 08.08.2019.
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.	Complied. 04 nos. of check dams had been constructed in surrounding villages namely Jhariyahi, Isauta, Patai Dandi & Kohdar and Ponds had been restored in Salaiya Kala & Mai Kala villages.
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 IIITR, Lucknow and report being submitted to UPPCB on quarterly basis. The copy of latest report of ground water and surface water monitoring is attached as annexure I .
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.	Complied



MEJA URJA NIGAM (P) LIMITED
(A JV of NTPC Ltd & UPRVUN Ltd)



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.	Noted for compliance.
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 Treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising green belt and plantation.	Closed cycle cooling system is designed for 5.0 COC (Cycle of Concentration). However, on partial load operation, maintaining of 5.0 COC is not feasible. Effluents are being treated & recycled for further reuse. There is no discharge from plant premises except during monsoon period. Arrangements has been made that effluents and storm water do not get mixed. The Sewerage treatment plant (MBBR-2200KLD) has been provided and treated STP effluents are being reused in horticulture, green belt development & afforestation.
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. Monthly report of ash utilisation is being submitted to statutory authority 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 Commissioned. 2 nos. HCSD silos are also operational. Heavy metal analysis is being monitored in bottom ash. There is no discharge from ash pond and also ash is not disposed in low lying areas. Heavy metal analysis of ash decanted water is attached as annexure II.



MEJA URJA NIGAM (P) LIMITED
(A JV of NTPC Ltd & UPRVUN Ltd)



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 m 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 developed in an area 163.1 Ha earmarked for afforestation and more than 3,73,750 plantations have already been carried out in available areas. Plantation shall be carried out on continual basis.



MEJA URJA NIGAM (P) LIMITED
(A JV of NTPC Ltd & UPRVUN Ltd)



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>Being Complied.</p> <p>MUNPL, Meja is Constantly engaged in providing safe drinking water facilities to the villages in the vicinity. Some of the activities under this domain are mentioned below:</p> <ul style="list-style-type: none">• More than 130 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 from time to time 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 09 primary schools of the associated villages to ensure clean drinking water facility to the young students. <p>Solar Powered Mini water scheme has been implemented at the neighboring villages. Out of the total 18 allocated units, 18 units have been made operational till date. 01 unit is expected to benefit around 25-30 families.</p>
------	---	---



MEJA URJA NIGAM (P) LIMITED
(A JV of NTPC Ltd & UPRVUN Ltd)



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.</p> <p>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>For CD works, as per RAP I (main plant) and RAP II (supplementary RAP), Rs. 3672 lakhs were approved and till 31.03.2024, Rs. 3399 lakhs have been utilized for the various Community Developmental works at the associated villages. For FY 2024-25, Proposals for need based CD activities have been approved for the balance amount of Rs. 273 lakhs (out of 3672 lakhs).</p> <p>Recurring expenditure condition, amended in amendment dated 08.08.2019 and mentioned in additional condition no. vii mentioned below in this compliance report</p>
xxiii)	<p>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 programmes. Company shall provide separate budget for community development activities and income generating programmes. Vocational training programmes for possible self-employment and jobs shall be imparted to identify villagers free of cost.</p>	<ul style="list-style-type: none">• Need based assessment survey along with Social Economic survey and Socio Impact Evaluation Study were undertaken in the year 2022. Based on the reports submitted by the external agency, CD/CSR plans are devised.• Under the approved CD Budget as well as annual CSR budget, CSR/CD activities had been undertaken focusing on infrastructure building, increasing employability & to overall uplift the standard of living of the villages in the vicinity. Some of the activities undertaken under CD/CSR phase are as follows:<ol style="list-style-type: none">1. Boundary wall constructed at Primary School, Mai Kala, Salaiya Khurd and Jhariyahi.2. 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



MEJA URJA NIGAM (P) LIMITED
(A JV of NTPC Ltd & UPRVUN Ltd)



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.

3. 05 numbers of community centers have been constructed in Salaiya Khurd, Salaiya Kala, Jhariyahi, Kohdar and Bijaura villages.
4. approximately 15 km construction of approach/ internal roads is being undertaken in project surrounding villages.
5. 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.
6. 06 nos. of rain- sheds have been constructed. 02 nos. of ponds have been restored and deepened.
7. 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.
8. 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 villages.
9. Skill development trainings for youth (males and females) of the nearby villages have been conducted on:
 - a. Mobile repairing,
 - b. Assembly of CFL lights, c. Training on LED lighting & solar electrical system d. Plumbing, e. Repairing of automobiles (two-wheelers) f. Basic Beauty & Hairdressing, g. Jute bag designing, h. Tailoring and stitching, i. Machine operator plastic processing training to 25 youths with 100% placement.



MEJA URJA NIGAM (P) LIMITED
(A JV of NTPC Ltd & UPRVUN Ltd)



		<p>10. 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>11. Conducted 'GIRL EMPOWERMENT MISSION- RESIDENTIAL WORKSHOP- 2022, 2023 & 2024' for total 117 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> <p>12. Distributed 500 benches in Rural schools.</p> <p>13. Implementation of 2 smart classes in rural schools.</p> <p>14. Chain fencing of Goushalas in 2 locations.</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 SM 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, Jhansi (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) has been undertaken by M/s GBPSSI, Jhansi for the period of July-19 to Mar-21 & report has been submitted.</p>



MEJA URJA NIGAM (P) LIMITED
(A JV of NTPC Ltd & UPRVUN Ltd)



General Conditions:

Sl.	Item Description	Status as on 31.03.2024
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.	Water Reservoir is spread over an area of 75Ha and has a rainwater harvesting potential of 6865Lakh.Ltrs/annum. In addition, there are two Rainwater water harvesting pit and two rainwater recharge pits. Further a study is being carried through NIH Roorkee for potential assessment of rainwater harvesting of plant and township. Draft report submitted by NIH, Roorkee. After submission of final report by NIH, Roorkee, it shall be submitted to CGWB for vetting and according implementation shall be carried out 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. Garland of water sprinklers is installed to quench spontaneous fires in coal yard especially during summer season.
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	Complied. Total 18 nos. piezometers are installed in Ash dykes Monitoring around the ash pond area is being carried out at three locations by CSIR- IITR, Lucknow and analysis report is being submitted to Regulatory authorities regularly. A copy of latest report is attached as annexure I .



MEJA URJA NIGAM (P) LIMITED
(A JV of NTPC Ltd & UPRVUN Ltd)



	the baseline data so as to ensure that the ground water quality is not adversely affected due to the project.	
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. A copy of latest report is attached is as annexure IV .
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. Workers engaged in noisy areas are provided with earplugs/earmuffs. For such workers, periodical audiometric examination is carried.
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. A copy of report is attached as annexure III . Shall always be complied.



MEJA URJA NIGAM (P) LIMITED
(A JV of NTPC Ltd & UPRVUN Ltd)



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
x)	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 .	Complied.
xi)	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.	Complied.
xii)	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	Complied.
xiii)	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	Being complied



MEJA URJA NIGAM (P) LIMITED
(A JV of NTPC Ltd & UPRVUN Ltd)



	levels namely, SPM, RSPM (PM2.5 & PM 10), SO ₂ , 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.	
xiv)	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.	Being Complied.
xv)	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.	Being Complied.
xvi)	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 update the same from time to time at least six monthly basis. Criteria pollutants levels	Being complied



MEJA URJA NIGAM (P) LIMITED
(A JV of NTPC Ltd & UPRVUN Ltd)



	including NOx (from stack & ambient air) shall be displayed at the main gate of the power plant.	
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 measure shall not be diverted for other purposes and year wise expenditure shall be reported to ministry.	Complied.
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 dates of start of land development work and commissioning of plant.	Complied.
xix)	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.	Shall always be complied with

Additional EC conditions added in EC amendments:

EC conditions added vide letter dt 21.07.2017		
xxv	Air and water quality equipment shall be set up for periodic environment monitoring	There are 4 Ambient air monitoring station and 01 Effluent quality station are installed and online data are being transmitted to pollution control board.
xxvi	Global Positioning System GPS positioning system to be installed on all the truck carrying coal	Complied. Presently coal is being transported through railway rakes.
xxvii	MOEF & CC notification S.O. 3305(E) dated 7.12.2015 and subsequent notification issued time to time shall be implemented with respect to specific water consumption zero liquid discharge and emission standards.	Electrostatic precipitators (ESP) have been provided and made operational. PM emission is maintained within 30 Mg/NM3. Erection & commissioning works of FGD is completed. The utility will be put in regular service from Oct'24 against cut off date of Dec'26 inline with MOEF & CC gazette notification GSR 628(E) dated 5 th Dec2022. Low Nox burner are installed and in use. Specific water consumption for FY 23-24 is 2.56



MEJA URJA NIGAM (P) LIMITED
(A JV of NTPC Ltd & UPRVUN Ltd)



		(Std. 3.0 m ³ /KwHr). All effluents are treated & recycled for further reuse. There is no discharge from plant premises except during monsoon period.
xxviii	Trucks shall be covered with tarpaulin and properly stamped to ensure that tarpaulin is property tied with help of rope and truck is fully covered so that there is no slippage of coal and/or emission of dust during transportation.	Complied. Presently coal is being transported through railway rakes.
xxix	Water sprinkling to be carried through out the route for control of fugitive dust emissions.	Complied. Presently coal is being transported through railway rakes.
xxx	Railway siding shall be constructed before the expiry of validity of EC that is before 09.01.2018	Complied. Amendment in this EC condition was granted vide 21.07.2017 and further extended in 24.09.2018 till 31.03.2019. Railway side was completed within the timelines provided.
xxxi	Treated sewage water shall be used if there are any sewage treatment plants located within 50-kilometre distance from this project	In Naini there are 2 STP's (42MLD & 80MLD) which are located within 50 km radius of Meja TPP. As per preliminary study conducted for use of treated sewage water of Naini STP in Meja TPS, Ministry of Power in the office memorandum dated 10.01.2023 recommended that "Meja TPS may be exempted from linking with the STP" based on the fact that Naini STP water would be used in Bara TPS which is located closer to Naini STP than Meja and further Meja TPS is located across the river from Naini STP. Whereas Bara TPS and Naini STP are on same side of the River. The copy of Office Memorandum of meeting chaired by Secretary (Power) is attached as annexure VI .



MEJA URJA NIGAM (P) LIMITED
(A JV of NTPC Ltd & UPRVUN Ltd)



EC Amendment dated 08.01.2018

i.	Once the units will achieve COD the revised emission standards as per ministry is notification date 07.12.2015 and subsequent amendment notified from time to time shall be complied in case plant is ready for commissioning and not meeting revision revised emission norms operation shall be stopped.	Electrostatic precipitators (ESP) have been provided and made operational. PM emission is maintained within 30 Mg/NM3. Erection & commissioning works of FGD is completed. The utility will be put in regular service from Oct'24 against cut off date of Dec'26 inline with MOEF &CC gazette notification GSR 628(E) dated 5 th Dec2022. Low Nox burner are installed and in use.
----	---	--

EC Amendment dated 28.03.2019

i.	Regular sweeping and water sprinkling is to be carried out by the project proponent. The cost of these activities shall be borne by the project proponent.	Complied
ii.	Ambient air quality and Noise monitoring at project site Rampur and Naini villages is to be carried out once in a month to assess the incremental impacts due to transportation, if any.	Complied
iii.	The trucks used for transportation of coal shall be in compliance with the latest vehicular emission norms.	Complied. Coal are being transported through railway rakes.

EC Amendment dated 08.08.2019

i	The extension of environment clearance is only for continuing the construction activities of the unit 2. however, the operation of both units shall be started only when new pollution control equipment is installed and made ready to meet the revised emission norms issued vide dated 7.12.2015. Otherwise an extension from the CPCB shall be obtained and submitted to the Ministry	Complied. New pollution control equipment's are installed to meet the revised emission norms. Electrostatic precipitators (ESP) have been provided and made operational. PM emission is maintained within 30 Mg/NM3. Erection & commissioning works of FGD is completed. The utility will be put in regular service from Oct'24 against cut off date of Dec'26 inline with MOEF &CC gazette notification GSR 628(E) dated 5 th Dec2022. Low Nox burner are installed and in use.
---	---	---



MEJA URJA NIGAM (P) LIMITED
(A JV of NTPC Ltd & UPRVUN Ltd)



ii	The average weekly emissions of flue gas for PM SO ₂ and NO _x shall be submitted as a part of the compliance report. Further the mercury emission report shall also be submitted.	Complied. Average emission of flue gas is attached as annexure V.
iii.	The progress of the installation of FGD, De-Nox systems along with financial expenditure shall be submitted along with six monthly compliance report.	The FGD system commissioning expected by Oct'24 against cut off date of Dec'26 inline with MOEF &CC gazette notification GSR 628(E) dated 5 th Dec2022. Low Nox burner are installed and in use. . Total financial expenditure of amount Rs.519Cr made till date for installation of FGD system.
iv	Specific condition no. (xii): Bi-flue stack of 275 m height with flue gas velocity not than 22 metre per second shall be installed and provided with continuous online monitoring equipment for Sox, Nox and PM.	Complied. 275 high Stack is provided with continuous online monitoring for Sox, NO _x , PM. Exit velocity of Flue gas shall be maintained more than 22m/sec.
v	While commissioning the proposed unit the compliance of revised emission norms issued wide notification dated 07.12.2015 shall be achieved along with specific water consumption as per notification dated 28.06.2018. The FGD system and NO _x control measures such as SCR/SCNR/De-Nox burner shall be installed to achieve the revised emission norms.	Electrostatic precipitators (ESP) have been provided and made operational. PM emission is maintained within 30 Mg/NM ³ . Erection & commissioning works of FGD is completed. The utility will be put in regular service from Oct'24 against cut off date of Dec'26 inline with MOEF &CC gazette notification GSR 628(E) dated 5 th Dec2022. Low Nox burner are installed and in use. Specific water consumption for FY 23-24 is 2.56 (Std. 3.0 m ³ /KwHr). All effluents are treated & recycled for further reuse. There is no discharge from plant premises except during monsoon period.
vi	As per revised tariff policy notified by ministry of power vide dated 28.01.2016, project proponent shall explore the use of treated sewage water from the sewage treatment plant of Municipality/Local bodies/ similar organization located within 50 km radius of the proposed power project to minimise the water source from surface water bodies. The detail of sewage treatment plants located within 50	In Naini there are 2 STP's (42MLD & 80MLD) which are located within 50 km radius of Meja TPP. As per preliminary study conducted for use of treated sewage water of Naini STP in Meja TPS, Ministry of Power in the office memorandum dated 10.01.2023 recommended that "Meja TPS may be exempted from linking with the STP" based on the fact that Naini STP water would be



MEJA URJA NIGAM (P) LIMITED
(A JV of NTPC Ltd & UPRVUN Ltd)



	kilometres along with the capacities shall be submitted.	used in Bara TPS which is located closer to Naini STP than Meja and further Meja TPS is located across the river from Naini STP. Whereas Bara TPS and Naini STP are on same side of the River. The copy of Office Memorandum of meeting chaired by Secretary (Power) is attached as annexure VI .
vii	With respect to the capital expenditure on CER/CSR activities as one time amount should be in-line with the ministry circular dated 01.05 2018 or the amount stipulated in the EC whichever is higher project proponent has to submit the revised/latest project cost, calculate the one-time CER expenditure based on the revised project cost compare with the stipulated in the EC and adopt the highest amount. The detail in this regard along with an undertaking to adopt the highest amount shall be submitted within three months.	Complied
vii	with respect to the recurring CSR expenditure any condition stipulating the recurring amount per annum in the EC may be made redundant. The recurring amount shall be in line with section 135 of companies act, 2013 which states that companies shall spend (in every financial year) at least 2% of the average net profit of the company made during the 3 immediately preceding financial years, in pursuance of its corporate social responsibility policy	Complied. In compliance with Section 135 of Companies Act, 2013, the total amount allocated for CSR for FY 2024-25 is Rs. 4.63 crores (2% of the average net profit of 03 preceding FYs). Implementation of the activities planned is under progress.



MEJA URJA NIGAM (P) LIMITED
(A JV of NTPC Ltd & UPRVUN Ltd)



ix	The details of average net profit made during the last 3 years to be submitted including the amount earmarked for CSR activities at least 2 %) from this project and the detail of various activities undertaken along with expenditure, extent of village covered, benefitted population, the proximity to the project area etc. as a part of EC compliance report (October to March on 1 st June and April to September on 1 st dec) on the ministry and its regional office	Year	Net profit (In Lacs)
		2021-22	27901.46
		2022-23	9181.18
		2023-24	32400.00
		CSR Budget (2% avg of the 03 FY)	463.21
		Details of the activities- Attached as annexure VII	

Avijit Chatterjee

CGM (Technical Services)

अविजित चटर्जी / Avijit Chatterjee
मुख्य महाप्रबंधक (तकनीकी सेवाएं) / Chief General Manager (TS)
मेजा ऊर्जा निगम (प्रा) लि., प्रयागराज
Meja Urja Nigam (P) Ltd., Prayagraj
(एनटीपीसी लिमिटेड एवं उ.प्र.रा.वि.ऊ.नि.लि.का संयुक्त उपक्रम)
(A Joint Venture of NTPC Ltd. & UPRVUN Ltd.)

Annexure - I

Ground water quality

i. Physio-Chemical Analysis

S. No	Parameter	Unit	Kohdar Village	Sonbarsi Village	Mai Kalan Village	Esauta	Township	Near Ash Dyke I	Near Ash Dyke II	Near Ash Dyke III
1	pH	-	6.9	7.2	7.3	7.0	7.6	7.0	8.0	7.5
2	Conductivity	µmhos/cm	702	942	614	653	314	372	369	409
3	Temperature	C	28	27	28	27	29	27	29	28
4	TSS	mg/l	22	31	25	34	26	28	22	19
5	TDS	mg/l	374	500	383	369	167	198	220	218
6	Dissolve Phosphate	mg/l	0.08	0.05	0.10	0.05	0.05	0.09	0.07	0.05
7	Dissolve Oxygen	mg/l	1.8	2.0	1.8	1.3	1.8	2.2	1.9	1.7
8	BOD at 27 deg C	mg/l	0.8	1.1	1.3	0.7	1.2	1.6	1.0	1.1
9	COD	mg/l	12	16	10	12	12	20	16	12
10	Total hardness	mg/l	156	166	142	122	132	142	128	104
11	Total Coliform MPN	Coliform/100 ml	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8

ii. Metal Concentration

S. No	Parameter	Unit	Kohdar Village	Sonbarsi Village	Mai Kalan Village	Esauta	Township	Near Ash Dyke I	Near Ash Dyke II	Near Ash Dyke III
1	Iron as Fe	mg/l	0.410	0.264	0.605	0.487	0.055	0.186	0.163	0.141
2	Zinc as Zn	mg/l	0.067	0.049	0.073	0.042	0.040	0.128	0.071	0.053
3	Copper as Cu	mg/l	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
4	Lead as Pb	mg/l	<0.025	<0.025	<0.025	<0.025	<0.025	0.029	<0.025	<0.025
5	Total Chromium as Cr	mg/l	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
6	Cadmium as Cd	mg/l	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
7	Arsenic as As	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8	Mercury as Hg	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

The above consolidated report is based on quarterly environmental monitoring carried out through CSIR-Indian institute of toxicology research, Lucknow.

Annexure - I

Surface water quality

i. Physio-Chemical Analysis

S. No	Parameter	Unit	Reservoir-I	Reservoir-II	Natural drain
1	pH	-	8.0	7.9	7.6
2	Conductivity	µmhos/cm	248	374	422
3	Temperature	C	19	19	18
4	TSS	mg/l	54	63	72
5	TDS	mg/l	132	200	221
6	Dissolve Phosphate	mg/l	0.14	0.12	0.09
7	Oil & Grease	mg/l	1.6	1.8	2.0
8	D.O	mg/l	4.7	4.5	5.2
9	BOD at 27 deg C	mg/l	5.3	5.1	6.0
10	COD	mg/l	32	36	48
11	Total hardness	mg/l	112	116	124

ii. Metal Concentration

S. No	Parameter	Unit	Reservoir-I	Reservoir-II	Natural drain
1	Iron as Fe	mg/l	0.130	0.188	0.295
2	Zinc as Zn	mg/l	0.073	0.048	0.050
3	Copper as Cu	mg/l	<0.025	<0.025	<0.025
4	Lead as Pb	mg/l	<0.025	<0.025	<0.025
5	Total Cromium as Cr	mg/l	<0.025	<0.025	<0.025
6	Cadmium as Cd	mg/l	<0.020	<0.020	<0.020
7	Arsenic as As	mg/l	<0.005	<0.005	<0.005
8	Mercury as Hg	mg/l	<0.001	<0.001	<0.001

The above consolidated report is based on quarterly environmental monitoring carried out through CSIR-Indian institute of toxicology research, Lucknow.

Annexure II

Effluent Report (ETP, STP and Ash Pond)

i. Physio-Chemical Analysis

S. No	Parameter	Unit	ETP*	STP*	Ash pond*
1	pH	-	7.5	7.2	7.5
2	Conductivity	µmhos/cm	987	536	701
3	Temperature	C	23	19	24
4	TSS	mg/l	36	37	45
5	TDS	mg/l	529	385	379
6	Dissolve Phosphate	mg/l	*	0.10	0.07
7	Oil & Grease	mg/l	5.3	7.1	4.7
8	BOD at 27 deg C	mg/l	14.5	20.2	12.2
9	COD	mg/l	32	56	46
10	Dissolve Oxygen	mg/l	5.2	4.2	4.0

*All Effluents are being treated and treated effluents are being recycled & reused. Domestic effluents after being treated in STP are being used in horticulture. Industrial effluent after being treated in ETP and treated effluent are completely utilised within plant premises. Ash pond water is taken back through AWRS system and reutilized within the plant.

ii. Metal Concentration

S. No	Parameter	Unit	ETP*	STP*	Ash pond*
1	Iron as Fe	mg/l	0.558	0.229	0.432
2	Zinc as Zn	mg/l	0.130	0.045	0.029
3	Copper as Cu	mg/l	<0.025	<0.025	<0.025
4	Lead as Pb	mg/l	0.031	0.069	0.072
5	Total Cromium as Cr	mg/l	<0.025	<0.025	<0.025
6	Cadmium as Cd	mg/l	<0.020	<0.020	<0.020
7	Arsenic as As	mg/l	<0.005	<0.005	<0.005
8	Mercury as Hg	mg/l	<0.001	<0.001	<0.001

The above consolidated report is based on quarterly environmental monitoring carried out through CSIR-Indian institute of toxicology research, Lucknow.

Annexure III

AMBIENT AIR QUALITY

Parameter	LOCATION			
	Township	Kohdar Village	Mai Kalan Village	Sonbarsi Village
PM10 ($\mu\text{g}/\text{m}^3$)	84.7	86.5	67.2	75.4
SO2 ($\mu\text{g}/\text{m}^3$)	9.1	7.2	6.5	6.8
NO2 ($\mu\text{g}/\text{m}^3$)	16.1	15.3	13.7	16.7
PM2.5 ($\mu\text{g}/\text{m}^3$)	53.7	52.1	39.9	46.6
Mercury Hg ($\mu\text{g}/\text{m}^3$)	ND	ND	ND	ND

The above consolidated report is based on quarterly environmental monitoring carried out through CSIR-Indian institute of toxicology research, Lucknow.

Annexure - IV

Ground water quality

i. Physio-Chemical Analysis

S. No	Parameter	Unit	Kohdar Village	Sonbarsi Village	Mai Kalan Village	Esauta	Township	Near Ash Dyke I	Near Ash Dyke II	Near Ash Dyke III
1	pH	-	6.9	7.2	7.3	7.0	7.6	7.0	8.0	7.5
2	Conductivity	µmhos/cm	702	942	614	653	314	372	369	409
3	Temperature	C	28	27	28	27	29	27	29	28
4	TSS	mg/l	22	31	25	34	26	28	22	19
5	TDS	mg/l	374	500	383	369	167	198	220	218
6	Dissolve Phosphate	mg/l	0.08	0.05	0.10	0.05	0.05	0.09	0.07	0.05
7	Dissolve Oxygen	mg/l	1.8	2.0	1.8	1.3	1.8	2.2	1.9	1.7
8	BOD at 27 deg C	mg/l	0.8	1.1	1.3	0.7	1.2	1.6	1.0	1.1
9	COD	mg/l	12	16	10	12	12	20	16	12
10	Total hardness	mg/l	156	166	142	122	132	142	128	104
11	Total Coliform MPN	Coliform/100 ml	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8

ii. Metal Concentration

S. No	Parameter	Unit	Kohdar Village	Sonbarsi Village	Mai Kalan Village	Esauta	Township	Near Ash Dyke I	Near Ash Dyke II	Near Ash Dyke III
1	Iron as Fe	mg/l	0.410	0.264	0.605	0.487	0.055	0.186	0.163	0.141
2	Zinc as Zn	mg/l	0.067	0.049	0.073	0.042	0.040	0.128	0.071	0.053
3	Copper as Cu	mg/l	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
4	Lead as Pb	mg/l	<0.025	<0.025	<0.025	<0.025	<0.025	0.029	<0.025	<0.025
5	Total Chromium as Cr	mg/l	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
6	Cadmium as Cd	mg/l	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
7	Arsenic as As	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8	Mercury as Hg	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

The above consolidated report is based on quarterly environmental monitoring carried out through CSIR-Indian institute of toxicology research, Lucknow.

Annexure - IV

Surface water quality

i. Physio-Chemical Analysis

S. No	Parameter	Unit	Reservoir-I	Reservoir-II	Natural drain
1	pH	-	8.0	7.9	7.6
2	Conductivity	µmhos/cm	248	374	422
3	Temperature	C	19	19	18
4	TSS	mg/l	54	63	72
5	TDS	mg/l	132	200	221
6	Dissolve Phosphate	mg/l	0.14	0.12	0.09
7	Oil & Grease	mg/l	1.6	1.8	2.0
8	D.O	mg/l	4.7	4.5	5.2
9	BOD at 27 deg C	mg/l	5.3	5.1	6.0
10	COD	mg/l	32	36	48
11	Total hardness	mg/l	112	116	124

ii. Metal Concentration

S. No	Parameter	Unit	Reservoir-I	Reservoir-II	Natural drain
1	Iron as Fe	mg/l	0.130	0.188	0.295
2	Zinc as Zn	mg/l	0.073	0.048	0.050
3	Copper as Cu	mg/l	<0.025	<0.025	<0.025
4	Lead as Pb	mg/l	<0.025	<0.025	<0.025
5	Total Cromium as Cr	mg/l	<0.025	<0.025	<0.025
6	Cadmium as Cd	mg/l	<0.020	<0.020	<0.020
7	Arsenic as As	mg/l	<0.005	<0.005	<0.005
8	Mercury as Hg	mg/l	<0.001	<0.001	<0.001

The above consolidated report is based on quarterly environmental monitoring carried out through CSIR-Indian institute of toxicology research, Lucknow.

Annexure V

STACK EMISSION (UNIT WISE)

Month: Oct'23

UNIT_NO	Installed Capacity (MW)	PM (mg/Nm ³)			SO ₂ (mg/Nm ³)			NOx (mg/Nm ³)			Mercury(Hg) Emission(mg/Nm ³)		
		Applicable Norm *	Actual Value		Applicable Norm *	Actual Value		Applicable Norm *	Actual Value		Applicable Norm *	Actual Value	
			Average Value for the month	Max. Value for the month		Average Value for the month	Max. Value for the month		Average Value for the month	Max. Value for the month		Average Value for the month	Max. Value for the month
1	660	30	*	*	100	*	*	100	*	*	0.03	*	
2	660	30	10.68	24.97	100	740.57	1175.25	100	311.73	529.71	0.03	0.000241**	

* Unit no. -1 under Shutdown for Overhauling works

Month: Nov'23

UNIT_NO	Installed Capacity (MW)	PM (mg/Nm ³)			SO ₂ (mg/Nm ³)			NOx (mg/Nm ³)			Mercury(Hg) Emission(mg/Nm ³)		
		Applicable Norm *	Actual Value		Applicable Norm *	Actual Value		Applicable Norm *	Actual Value		Applicable Norm *	Actual Value	
			Average Value for the month	Max. Value for the month		Average Value for the month	Max. Value for the month		Average Value for the month	Max. Value for the month		Average Value for the month	Max. Value for the month
1	660	30	*	*	100	*	*	100	*	*	0.03	*	
2	660	30	17	27.61	100	750	1311.35	100	331	519.25	0.03	0.000512**	

* Unit no. -1 under Shutdown for Overhauling works

Month: Dec'23

UNIT_NO	Installed Capacity (MW)	PM (mg/Nm ³)			SO ₂ (mg/Nm ³)			NOx (mg/Nm ³)			Mercury(Hg) Emission(mg/Nm ³)		
		Applicable Norm *	Actual Value		Applicable Norm *	Actual Value		Applicable Norm *	Actual Value		Applicable Norm *	Actual Value	
			Average Value for the month	Max. Value for the month		Average Value for the month	Max. Value for the month		Average Value for the month	Max. Value for the month		Average Value for the month	Max. Value for the month
1	660	30	18.81	28.43	100	1113.52	1422.21	100	382.86	563.09	0.03	0.000329**	
2	660	30	15.01	22.46	100	1098.66	1258.67	100	471.88	519.25	0.03	0.000512**	

* Unit no. -1 under Shutdown for Overhauling works

Month: Jan'24

UNIT_NO	Installed Capacity (MW)	PM (mg/Nm ³)			SO ₂ (mg/Nm ³)			NOx (mg/Nm ³)			Mercury(Hg) Emission(mg/Nm ³)		
		Applicable Norm *	Actual Value		Applicable Norm *	Actual Value		Applicable Norm *	Actual Value		Applicable Norm *	Actual Value	
			Average Value for the month	Max. Value for the month		Average Value for the month	Max. Value for the month		Average Value for the month	Max. Value for the month		Average Value for the month	Max. Value for the month
1	660	30	14.84	23.91	100	759.23	1100.83	100	289.59	456.18	0.03	0.000329**	
2	660	30	11.85	22.15	100	1016.93	1338.56	100	215.2	393.04	0.03	0.000512**	

Month: Feb'24

UNIT_NO	Installed Capacity (MW)	PM (mg/Nm ³)			SO ₂ (mg/Nm ³)			NOx (mg/Nm ³)			Mercury(Hg) Emission(mg/Nm ³)		
		Applicable Norm *	Actual Value		Applicable Norm *	Actual Value		Applicable Norm *	Actual Value		Applicable Norm *	Actual Value	
			Average Value for the month	Max. Value for the month		Average Value for the month	Max. Value for the month		Average Value for the month	Max. Value for the month		Average Value for the month	Max. Value for the month
1	660	30	19.3	23.39	100	746.61	1011.7	100	284.64	363.56	0.03	0.000329**	
2	660	30	18.37	28.53	100	1014.09	1218.06	100	321.18	414.83	0.03	0.000512**	

Month: March'24

UNIT_NO	Installed Capacity (MW)	PM (mg/Nm ³)			SO ₂ (mg/Nm ³)			NOx (mg/Nm ³)			Mercury(Hg) Emission(mg/Nm ³)		
		Applicable Norm *	Actual Value		Applicable Norm *	Actual Value		Applicable Norm *	Actual Value		Applicable Norm *	Actual Value	
			Average Value for the month	Max. Value for the month		Average Value for the month	Max. Value for the month		Average Value for the month	Max. Value for the month		Average Value for the month	Max. Value for the month
1	660	30	19.3	23.39	100	746.61	1011.7	100	284.64	363.56	0.03	0.000329**	
2	660	30	18.37	28.53	100	1014.09	1218.06	100	321.18	414.83	0.03	0.000512**	

**Based on the report of third party testing



No. 11/24/2022-Th.II
Government of India
Ministry of Power

Shram Shakti Bhawan, Rafi Marg,
New Delhi, dated 10th January, 2023

OFFICE MEMORANDUM

Subject: Minutes of Meeting chaired by Secretary (Power) on 28.12.2022 at 11:00 AM in Shram Shakti Bhawan, Ministry of Power in Hybrid mode on use of STP water in Thermal Power Plants -reg

The undersigned is directed to forward herewith Minutes of Meeting held under the Chairmanship of Secretary, Ministry of Power on 28.12.2022 at 11:00 AM to discuss the use of Sewage Treated Water by Thermal Power Plants for information and further necessary action.

J. Misra
10/1/23

(J. Misra)

Under Secretary to Govt. of India
Tele: 23063746

To,

1. Chairperson, CEA [chair@nic.in]
2. CMD, NTPC [cmd@ntpc.co.in]
3. DG, NMCG [dg@nmcg.nic.in]
4. Principal Secretary (Energy), Govt. of Haryana [powersecy-hp@nic.in]
5. Principal Secretary (Energy), Govt. of UP [psenergyup@gmail.com]
6. Principal Secretary (Energy), Govt. of Jharkhand
[psec.energy@gmail.com]
7. Principal Secretary (Energy), Delhi [pcpower@nic.in]
8. Principal Secretary (Energy), Bihar [energy@bihar.gov.in]
9. Principal Secretary (Energy), West Bengal [powersecy@wb.gov.in]
10. Principal Secretary (Energy), Govt. of Chhatisgarh [secy-energy.cg@gov.in]
11. Principal Secretary (Water Resources), Govt. of Haryana
[fciwrd@gmail.com]
12. Principal Secretary (Water Resources), Govt. of UP [psecup.irrig@nic.in]

J. Misra

13. Principal Secretary (Water Resources), Govt. of Jharkhand
[sec_wrd_jhr@nic.in]
14. Principal Secretary (Water Resources), Delhi [ceodelhi.djb@nic.in]
15. Principal Secretary (Water Resources), Bihar [wrd-bih@bih.nic.in]
16. Principal Secretary (Water Resources), West Bengal [psecy.wridd-
wb@gov.in]
17. Principal Secretary (Water Resources), Govt. of Chhatisgarh [secy-
 wrd.cg@gov.in]
18. CMD, IPGCL (For Pragati CCGP and Pragati-III CCGP), Delhi
[mukeshipj@yahoo.co.in]
19. CMD, HPGCL, Haryana [md@hpgcl.org.in]
20. CMD, THDC [cmd@thdc.co.in]
21. CMD, UPRUVNL, UP [cmd@upruvnl.org]
22. CMD, NUPPL, UP (For Ghatampur TPP)[cmd@nlc.india.in,
ceo.nuppl@nlcindia.in]
23. CMD, CESC, West Bengal [bhaskar.ganguly@rpsg.in]
24. CMD, Aparva-CLP, Haryana (For Mahatma Gandhi TPS)
[jaya.sharma@clpindia.in]
25. CMD, RVUNL, Rajasthan (For Kota TPS) [fmzktps@rediffmail.com]
26. Chairman, DVC, Kolkata (For Bokaro B TPS) [chairman@dvc.gov.in]
27. CMD, WBPDC, West Bengal (For Sargadighi, Bandel, Kolaghat and
Southern Repl. TPS)[s.maity@wbpdcl.co.in]
28. CMD, Reliance Power (For Rosa TPS, UP)
[jatinder.uppal@relianceada.com]
29. CMD, Adhunik Power (For Mahadev Prasad TPS), Jharkhand
[subhashjetly@gmail.com]
30. CMD, SJVNL (For Buxar TPP, Bihar) [sectt.cmd@sjvn.nic.in]
31. Tata Power JV (For Prajyagraj Bara, TPS),
UP [brajesh.singh@tatapower.com]
32. MD, Uttar Pradesh Jal Nigam [mdupjn@yahoo.co.in]
33. JMD, Uttar Pradesh Jal Nigam [jmdnagarupjn@gmail.com]
34. PS, Namami Gange & Rural Water Supply, Department, UP
[psrd.up@gmail.com]
35. ED, Namami Gange and Rural Water Supply, Department, UP
[ed.swsmup@rediffmail.com]
36. MD, BUIDCO, Bihar [mdbuidco@gmail.com]
37. MD, JUIDCO [juidcolimited@gmail.com]
38. PD (Technical), JUIDCO [pdt.juidco@gmail.com]
39. CEO, KMDA [ceokmda@gmail.com]
40. Chief Engineer, PHED, Haryana [eicphed@phedharyana.gov.in]

Copy to:

Sr. PPS to Secretary (Power)/ PS to JS (Thermal)/ DS (DVC/Th.)

Minutes of Meeting chaired by Secretary (Power) on 28.12.2022 at 11:00 AM in Shram Shakti Bhawan, Ministry of Power in Hybrid mode on use of STP water in Thermal Power Plants

List of participants is **annexed**.

2. Secretary (Power) welcomed the participants. At the outset, Secretary (Power) mentioned that as per National Tariff Policy, all Thermal Power Plants were mandated to use STP water if located within 50 KM radius of STP. Any exemption could be considered only on the basis of technical constraint or exorbitantly high cost making tariff unsustainable. He further emphasized that Clean Ganga is a National Mission and Thermal Power Plants should actively play their part in making river Ganga cleaner. He also briefed that the Hon'ble Prime Minister shall be reviewing the progress on the matter on 30th December 2022.

3. Sewage Treatment Plant (STP) and Thermal Power Station (TPS)-wise discussions were held as follows:

i) **Name of TPS:** Barh TPS St-II (NTPC Ltd)

Name of STP: Barh STP

Status and Recommendation:

It was informed that STP was being renovated by BUIDCO to increase the capacity from present 4MLD to 8 MLD (Cap 11MLD after 15 years) to meet NGT guidelines. BUIDCO prepared and submitted the DPR to link STP and TPP to NTPC. NTPC had some observations on DPR w.r.t. Opex.

Secretary (P) directed NTPC to use the available water from STP. Further, it was directed that senior officials of NTPC must visit BUIDCO and **finalize the DPR and sign MoU by 15th Jan 2023**. NTPC can then make payment to BUIDCO to initiate construction activities for the 4 km linkage between STP and TPP. **Targeted work completion date is 1st April 2025**.

BUIDCO mentioned that there were two more STPs within 50 km at Mokama and Bakhtiyarpur which could also be linked with Barh. Secretary(P) directed to examine their feasibility separately.

ii) **Name of TPS:** Prayagraj Bara TPS (Tata Power-JV)

Name of STP: Naini STP

Status and Recommendation:

It was informed that PFR prepared by UP Jal Nigam was sent to Genco and pending for approval of Genco. Secretary (P) advised Genco to approve the PFR by 1st week of Jan 23 and then Discom to give consent by end of Jan 23.

Construction activities to start by Apr '23 and usage of STP water to start by Apr '25.

iii) **Name of TPS:** Meja TPS (NTPC-Jv)

Name of STP: Naini STP

Status and Recommendation:

- It emerged that available water from Naini STP would be used in Bara TPS which is located closer to STP than Meja. Further, Meja TPS is located across the river from STP whereas, Bara and STP are in same side of the river. Taking into consideration these facts, it was recommended that **Meja TPS may be exempted from linking with the STP.**

iv) **Name of TPS:** DCR Yamunanagar TPS (HPGCL)

Name of STP: Parwalo & Badi Majra STPs

Status and Recommendation:

- It was informed that GoHR has mandated all TPSs in Haryana to use STP water and asked PHED to supply STP water at TPS door step.
- PHED informed that DPR preparation is under progress and is expected by June '23.
- It was clarified that prior approval of SERC is not required.
- **Work completion of linking STPs with TPS at Yamuna Nagar by December 2025.**

v) **Name of TPS:** Panipat TPS

Name of STP: Panipat STP

- Secretary (P) advised PHED to examine feasibility in Panipat TPS as the unit residual time was less than 10yrs.

vi) **Name of TPS:** CLP Jhajjar- Aprava TPS

Name of STP: Chakri Dadri STP

- It was observed that approximate available STP water was very less (3.5 MLD against requirement of 100 MLD). Therefore, it was recommended that **CLP-Jhajjar may be exempted from linking with the STP.**

vii) **Name of TPS:** Indira Gandhi- NTPC JV Jhajjar TPS

Name of STP: Kosli STP

- It was informed that water availability is only 3.5% of requirement. Therefore **NTPC Jhajjar may be exempted from linking with the STP.**
- **Secretary (P) further directed Thermal div. to write a letter to CERC, informing that no permission was required to be given by CERC to TPSs for tariff revision on account of costs borne by TPS for STP linkage as this was already mandated in Tariff Policy.**

viii) **Name of TPS:** Panki TPS (UPRVUNL)

Name of STP: Bingawan STP

Status and Recommendation:

- STP is operational and TTP is expected to be available by March 2023.
- COD for the TPS is expected in July, 2023. **Therefore, use of STP water is expected by July 2023.**

ix) **Name of TPS:** Korba TPS (NTPC Ltd)

Name of STP: Korba STP

Status and Recommendation:

- Commissioner, Korba informed that the DPR was approved and has been sent for State Govt approval. MoU with NTPC is expected to be signed within 1st week of Jan 2023, work order issue by Aug'23 and **expected completion of work by 1st April 2025.**

x) **Name of TPS:** Ghatampur TPP (NUPPL)

Name of STP: Bingawan STP

Status and Recommendation:

- Due to river crossing, **Ghatampur TPP may be exempted from linking with STP.**

xi) **Name of TPS:** Kahalgaon TPS (NTPC Ltd)

Name of STP: Bhagalpur STP

Status and Recommendation:

- It was informed that existing STP was being dismantled and new STP would be constructed. NTPC mentioned that as per estimates, tariff may rise by 20.20 paise/Kwh as land acquisition would be involved. Further, highway/Rail/city crossings are involved.

- **Secretary (P) opined that decision on this may be taken after PFR is available in April 2023.**

xii) Name of TPS: Khurja TPS (THDC Ltd)

Name of STP: Bulandshahar STP

Status and Recommendation:

- 20 MLD available from STP (Cap: 40MLD)
- **Secretary (P) instructed Khurja TPS to sign MoU and make payment to UP Jal Board for DPR preparation by 7th Jan 2023.**
- **DPR is to be prepared by March 2023 and project completion by 1st July 2025.**

xiii) Name of TPS: Harduaganj TPS (UPRVUNL)

Name of STP: Aligarh STP

Status and Recommendation:

- UP Jal Nigam informed that the 1st STP of 40 MLD will be completed by March 2023. Approval for 2nd STP is with NMCG
- Secretary (P) advised NMCG to fast-track the 2nd STP approval. The revised DPR by Jal Nigam may include both the STPs and TTPs to be implemented in a phased manner. **Target date for completion is June 2025.**

xiv) Name of TPS: Budge-Budge TPS (CESC)

Name of STP: Maheshthala STP

Status and Recommendation:

- KMDA informed that route from STP to TPS is very congested due to lines from other utilities.
- 2 units have completed 25 years.
- Due to path congestion and huge RoW issue, it was recommended that **Budge-Budge TPS may be exempted from linking with the STP.**

xv) Name of TPS: Kota TPS (RVUNL)

Name of STP: Sajidhera STP

Status and Recommendation:

- As the TPS is on the other side of the river, **therefore Kota TPS may be exempted from linking with the STP.**

xvi) Name of TPS: Dadri TPS (NTPC)

Name of STP: NOIDA STP

Status and Recommendation:

- It was informed that laying pipeline would disproportionately increase cost as one river crossing, 2 Highway crossings, Rail crossing and densely populated area would be involved. Cost increase is expected to be 30 P/Kwh. Considering all factors, it was recommended that **Dadri TPS may be exempted from linking with the STP.**

xvii) Name of TPS: Bokaro B TPS (DVC)

Name of STP: BOKARO STP

Status and Recommendation:

- It was informed that linking with nearest STP involves hilly terrain of 56KM which also includes crossing Damodar river. As a result, cost increase would be 27p/Kwh.
- It was recommended that **Bokaro TPS may be exempted from linking with the STP.**

xviii) Name of TPS: Rosa TPS (Reliance Power)

Name of STP: Shahjahanpur STP

Status and Recommendation:

- UP Jal Nigam shared that the STP was under construction and is expected to be operational by March 2023.
- Secretary (P) advised that **PFR may be submitted by 31st March 2023 to TPS by Jal Nigam.**

xix) Name of TPS: Mahadev Prasad TPS (Adhunik Power)

Name of STP: Adityapur STP

Status and Recommendation:

STP is located at 20 km distance from the TPS and expected to be ready by June 2024.

Secretary (P) advised JUIDCO to undertake feasibility study and share it with TPS by March '23.

xx) Name of TPS: Sagardighi TPS (WBDCL)

Name of STP: Berhampore STP

Status and Recommendation:

- As the TPS is on the other side of the river, **therefore Sagardighi TPS may be exempted from linking with the STP.**

xxi) Name of TPS: Bandel TPS (WBDCL)

Name of STP: Bhatpara STP

As the units are more than 30 years old, it was recommended to exempt Bandel TPS.

xxii) Name of TPS: Kolaghat TPS (WBDCL)

Name of STP: Howrah STP

WBDCL informed that units are more than 30 years old. Further, river crossing is involved. Considering the above, it was recommended to exempt Kolaghat TPS.

xxiii) Name of TPS: Southern Repl TPS (CESC)

Name of STP: Garden Reach STP

As units are more than 30 years old, it was recommended to exempt this TPS.

4. Further, UP Jal Nigam submitted that Jawaharpur TPS (UPRVUNL) and Unchachar TPS (NTPC) have been approached by them for linkage from Etah STP and Raibareilly STP respectively. TPSs have not reverted. Secretary (P) advised NMCG to take note and co-ordinate with the agencies. He further advised that NMCG may consider taking into account all the STPs which are operational or under construction in Ganga basin, irrespective of who is funding it so that all information is available at a single place which could be used to map TPSs within 50 KM and share the information with MoP for further action.

Meeting ended with the Vote of Thanks to Chair.



List of Participants

1. Shri Alok Kumar, Secretary (Power), MoP.....In chair
2. Shri Piyush Singh, Joint Secretary (Thermal), MoP
3. Shri Suman Majumdar, Deputy Secretary, MoP
4. Shri Ghanshyam Prasad, Chairperson, CEA
5. Shri Praveen Gupta, Member (Thermal), CEA
6. Shri U K Bhattacharya, Director (Projects), NTPC
7. Shri Madhava Kumar R, Economic and Financial Advisor, NMCG
8. Sh. Mohammed Shayin, MD, HPGCL, Haryana
9. Shri Kumar Sharad, CGM, THDC
10. Shri P Guruprasad, MD, UPRUVNL
11. Shri Santosh C S, CEO, NUPPL
12. Shri Avijit Hazra, CESC
13. Shri Prabhakar Pandey, Commissioner, Korba
14. Shri Rajan Tiwari, Aprava-CLP
15. Shri Virendra Singh, RVUNL, Rajasthan
16. Shri R N Singh, Chairman, DVC, Kolkata
17. Shri Sourav Nayak, WBPDC
18. Shri Rakesh Kumar Bansal, Director (Electrical), SJVNL
19. Shri Sanjay Bhargava, Tata Power
20. Shri Anil Kumar, MD, Uttar Pradesh Jal Nigam
21. Shri Pankaj Ranjan Jha, Uttar Pradesh Jal Nigam
22. Shri Dharmendra Singh, MD, BUIDCO, Bihar
23. Shri Alok Kumar Mandal, DGM, JUIDCO
24. Shri Prantik Ray, CE (Gas Sector), KMDA
25. Shri Rakesh Kumar, Chief Engineer, PHED, Haryana
26. Shri I C Thakur, Engineer In Chief, WRD, Bihar
27. Shri Ashok Kumar Khewaria, EE, UP Jal Nigam

MEJA URJA NIGAM PVT. LTD.

CSR ACTIVITY CALENDAR FOR FY RE 2023-24 & BE 2024-25

Annexure **VII**

S.NO.	Name of the Activity	Ref. to Sch. VII of Companies Act, 2013	Revised Estimate (In Lacs) RE 2023-24	Budget Estimate (In Lacs) BE 2024-25	Basis of selecting activities
A Education					
1	Distribution of Stationary Kits, Benches, educational materials, sports items etc. to Schools in nearby villages	ii	13	15	Recommendations from Village Development Advisory Committee/Social Impact Evaluation Study
2	Augmenting educational infrastructure in Schools	ii	25	15	Social Impact Evaluation Study
3	Girl Empowerment Mission (GEM) including education including education of GEM girls inducted into MUNPL Township Schools	ii/iii	10	15	Corporate CSR/Social Impact Evaluation Study incl. Sponsoring of Fees for 04 Girls
4	Adoption of schools for development as Smart School/ Model School, as per recommendation received from State Administration/ Public representatives	ii	9	10	State Govt./Public Representatives/Recommendations from Village Development Advisory Committee
Total (A)			57	55	
B Health & Nutrition					
1	Conducting Specialized Health camps in the nearby villages	i	5	8	Recommendations from Village Development Advisory Committee/Social Impact Evaluation Study
2	Organizing Awareness campaigns through agencies/ NGOs/Other agencies	i/ii/iii/iv	2	3	Recommendations from Village Development Advisory Committee
3	Procurement and distribution of Sanitary pads and other utility items, nutritional supplements etc. to women & other needy persons of the nearby villages & supporting Dist. Admin.	i/iii	4	5	Promotion of Health and Hygiene/Recommendations from Village Development Advisory Committee
Total (B)			11	16	
C Infrastructure & Connectivity					
1	Construction of Roads (CC/Interlocking/Bituminous), drains, toilets etc. and renovation of infrastructures in the associated villages	x	50	75	Recommendations from Village Development Advisory Committee/Gram Sabha/Public Representatives
2	Solar Light High Mast in Kohdar/other areas	iv/x	0	6	Demand of Gram Pradhan & Police Dept.
Total (C)			50	81	
D Water					
1	Installation of Handpumps and development of water supply systems for the local/outside areas	i	40	50	Gram Sabha/Social Impact Evaluation Study/ Recommendations from Village Development Advisory Committee
2	Drip irrigation projects for environment sustainability in nearby villages	iv	20.56	0	ATR of Environment Management Group
Total (D)			60.56	50	
E Capacity Building					
1	Providing vocational training to youth and women to make them employable, enterprising & entrepreneurial	ii	10	0	Social Impact Evaluation Study/ Recommendations from Village Development Advisory Committee
2	Farmer Awareness Programs (Productivity of crops, Livestock Development etc.) and facilitating formation of SHGs of farmers and women	ii/iv	10	15	Social Impact Evaluation Study
3	CIPET Training/Skill Enhancement Programmes for local youth	ii	0	114	Residential CIPET Training for 30 Candidates
Total (E)			20	129	
F Miscellaneous					
1	Mainstreaming the Specially abled people (Divyang) by providing them with aids and appliances	ii	3	2	Gram Sabha/Mainstreaming of specially abled people
2	Organizing and promoting sports activities in adjoining areas	vii	5	5	Gram Sabha
3	CSR Calendar/CSR Brochure other communication and branding related activities	As per the Companies Act, 2013	2	2.2	Overhead expenses under the Companies Act, 2013
4	Distribution of Blankets	i	10	8	Gram Sabha/District Administration/Public representatives/Recommendations from Village Development Advisory Committee
5	Installation of Solar Street Lights in the associated villages and outside areas, as per requirement	x	20	40	Gram Sabha/District Administration/Public representatives/ Recommendations from Village Development Advisory Committee
6	Other activities of strategic nature	As per the Companies Act, 2013	50	75	Gram Sabha/District Administration/Public representatives
Total (F)			90	132.2	
Grand Total			288.56	463.20	

Seal of M. J. Nigam
24/08/23