



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



संदर्भसंख्या-MUNPL/EMG/पत्र/22-23/62

दिनांक- 28/09/2022

सेवा में,

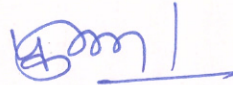
मुख्य पर्यावरण अधिकारी(वृत्त-2)
उत्तर प्रदेश प्रदूषण नियंत्रण बोर्ड,
टी.सी. - 12 वी, वीभूति खण्ड, गोमती नगर
लखनऊ- 226010 (उ.प्र.)

विषय :- पर्यावरणीय विवरण (Environment Statement in Form-V) के सम्बंध में

महोदय,

आपके द्वारा प्रदत्त सहमति पत्र (वायू एवं जल) CTO Air & Water, Ref. No.108251/UPPCB/Allahabad(LAB)/CTO/air/Allahabad/2020 Dated 29/12/2020 एवं Ref. No.108383/UPPCB/Allahabad(LAB)/CTO/Water/Allahabad/2020 Dated 29/12/2020 के विशिष्ट शर्त (specific condition) क्रम संख्या- 13(वायू) तथा विशिष्ट शर्त (specific condition) क्रम संख्या-18 (जल)के आनुपालन में वित्तीय सत्र-2021-22 का पर्यावरण विवरण पत्र (**Environment Statement**)निर्धारित प्रारूप (**FORM- V**) में आपको प्रेषित है।

सादर


(पंकज कुमार) 28.09.22

अपर महाप्रबन्धक (पर्यावरण प्रबंधन समूह एवं राख उपयोगिता)

संलग्नक :- यथोपरि

प्रतिलिपि :-

पंकज कुमार / PANKAJ KUMAR
अपर महाप्रबंधक (रसायन) / AGM CHEMISTRY
मेजा ऊर्जा निगम (प्रा) लि, प्रयागराज
MEJA URJA NIGAM (P) Ltd, Prayagraj
(एनटीपीसी लिमिटेड एवं उ.प्र.रा.वि.ऊ.नि.वि.का संयुक्त उपक्रम)
(A Joint Venture of NTPC Ltd. & UPRVUN Ltd.)

- क्षेत्रीय अधिकारी उ. प्र. प्रदूषण नियंत्रण बोर्ड झूंसी, प्रयागराज(उत्तर प्रदेश) को सूचनार्थ ।
- क्षेत्रीय निदेशक - केंद्रीय प्रदूषण नियंत्रण बोर्ड,पिकअप भवन विभूति खण्ड- लखनऊ
- नैगम कार्यालय (NTPC- CC New Delhi)
- कार्यालय प्रति

ENVIRONMENTAL STATEMENT FOR

MEJA URJA NIGAM (P) LTD.

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

For the financial year ending 31 March -2022.

(Under Rule 14 of the Environmental Protection Rule -1886)



By

Environment Management group

MEJA THERMAL POWER PROJECT

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

FORM – V

(See Rule 14)

Environmental statement for the financial year ending on 31st March on or before 30 of September every year.

PART - A

1	Name and address of the Owner/Occupier of the Industry operation or process.	Shri Kedar Ranjan Pandu, CEO (Chief Executive Officer), Meja Urja Nigam Private Limited
2	Industry category	Thermal Power Plant
3	Production capacity – Units	UNIT#-I & II , 660+660 =1320 MW
4	Year of establishment	2011 (Erection Activities Started)
5	Date of last environmental statement submitted.	2020-21(06-10-2021) vide Ref: No. MUNPL/EMG /Patra/21-22/44

PART – B

(Water and Raw Material Consumption)

i. Water Consumption (m³/day)

Process	1615 m ³ /day
Cooling	51332.28 m ³ /day
Domestic	1100 m ³ /day

Name of Products	During The Previous financial Year (2020-21)	During the Current financial Year (2021-22)
Electricity	3.45 L / kwhr	2.5523 L / kwhr

ii. Raw material consumption

Sl. no.	Name of Raw Materials	Name of Product	Unit	Consumption of raw material per unit of output	
				During the Prev. Fin. Year 2020-21	During the Current financial Year 2021-22
i.	Coal	Electricity	Kg/KWh	0.658	0.67
ii.	Oil	Electricity	ml/kWh	0.90	0.71
iii.	Hydrazine hydrate	Electricity	MT	310	0
iv.	Tri- Sodium Phosphate		MT	50	0
v.	Ammonia		Ltr.	36000	53900
vi.	Caustic Soda		MT	143	214

vii.	Hydrochloric Acid	DM Water	MT	635	902
viii.	Alum		MT	10	9.6
ix.	Lime		MT	2	4.5
x.	Liq. Poly Alum. Chloride		MT	119	208.6
xi.	Sulphuric Acid	Cooling Water	MT	584	1030
xii.	Liquid Chlorine		MT	92	272.5

PART – C

Pollution discharged to environment / unit of output.

Pollutants	Quantity of Pollutant discharged	Concentration of Pollutant	% -Percentage of variation from prescribed standard with reasons
(A) Water	NIL - Due to ZLD implemented (contingent)		
i- Ash Pond Effluents	NIL	NA	NA
ii- Main Plant Effluent	NIL	NA	NA
iii- Sewage Effluents	NIL	NA	NA
(B) AIR (Stack Emission) Average			
SPM	2.69 MT/Day	24.9 mg/Nm ³ (Avg)	-17.0%
SO2	62.03 MT/day	545.7 mg/Nm ³ (Avg)	445.7%*
Nox	22.01 MT/day	196.9 mg/Nm ³ (Avg)	96.9%**

* FGD is being installed to control SOx emission. Completion by March'23.

** For Nox control catalytic burners are being installed. Under observation.

PART- D

Hazardous Wastes

(As specified under Hazardous Wastes (Management and Handling) Rules, 1989)

Hazardous Wastes(Generated)		Total Quantity (Kg)				
1	From Process	During the Prev. Fin. Year 2020-21	During the Current financial Year 2021-22			
i	Used & dirty oil (in Ltr.)	NIL	NIL			
ii	Scrap Battery (in MT)	NIL	NIL			
iii	Empty barrels Container liners contaminated with hazardous chemical wastes	Nil	Nil			
iv	BMW	1150	RED	YELLOW	BLUE	WHITE
			58.24	45.34	23.04	93.54
v	Process residue filter cake	Nil	Nil			
vi	Spent carbon or filter medium	Nil	Nil			
2	From Pollution Control Facilities	NIL				
	Authorization	HW Authorization issued from UPPCB Lucknow , Ref. No : 10138/UPPCB/Allahabad(UPPCBRO)/HWM/Allahabad/2019,Dt.:26/04/2020				

PART – E
Solid Wastes

Solid Wastes	Total Quantity	
	During the Prev. Fin. Year 2020-21	During the current Fin. Year 2021-22
A. From Process		
i -Ash (Lakh Ton)	10.24917	18.24149
ii-Mill Rejects / Clinkers etc.(Ton)	Nil	1800
B. From Pollution Control Facilities		
	NIL	NIL
C. (1) Quantity Recycled or Re- Utilised Within the unit		
i. HCSD lining of ash dyke I,II &III(Ton)	184912	380839
ii. Land filling (Ton)	Nil	781
ii- Any other solid waste	NIL	NIL
(2) Sold		
i- Ash (issued to cement industries in(Ton)	572211.2	1320738
ii outside Brick units other than brick klins	5462	8617
(3)DISPOSED		
i Ash Pond disposal (Ton)	452704	503410

PART – F

Please specify the characterization (in term of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

Sl. No.	Component	Composition (%)	Quantum (MT)	Disposal Practice
1-	Fly ASH:			After utilization in cement industries, HCSD lining, brick plants, land filling etc, the remaining ash disposed in ash dyke.
i-	Lead as pb	0.000197	0.99172	
ii-	Arsenic as As	0.000021	0.105716	
iii-	Mercury as Hg	0.000009	0.045307	
2-	Bottom Ash			
i-	Lead as pb	0.000151	0.550893	
ii-	Arsenic as As	0.000018	0.065669	
iii-	Mercury as Hg	0.000011	0.040131	

PART – G

Impact of the pollution control measures on conservation of natural resources and consequently on the cost of production.

- STP of 2200 KLD recycles sewage from plant and township and reutilised in horticulture leads to conservation of water.



Fig: STP in township area

- Liquid waste treatment system, CSSP and other effluent treatment recycles and reuse the treated effluent conserves the natural resource, water.
- Zero liquid discharge for effective and efficient conservation of water resource.
- Ash brick units for conservation of top soil.
- A forestation as an additional measure for better environment management has added up to natural green cover of plant & its surrounding areas. Total 292750 nos. of sapling has been planted by MUNPL till March'2022.
- Rain Water harvesting for rainwater storage and conservation.



Fig: Rain water harvesting pit: Township

PART- H

Additional investment proposal for Environment protection including abatement of Pollution.

- Online monitoring system i.e. AAQMS , CEMS & EQMS installed & operational for effective monitoring of ambient air quality, emissions and effluents.
- Third party monitoring of environmental parameters for effective environment management of project.
- Plantation project for planting 54000 saplings in and around plant area.
- Miyawaki plantation from forest department is proposed.
- Vermin composting is under process of implementation.
- 2.9275 lac saplings already planted till March'22, 45000 saplings to be planted in 2022-23.
- Fly ash being disposed to Cement factories and Other Ash users.

PART – I

Any other particulars for improving the quality of the environment.

1. Mass public awareness :

- **World water day** is celebrated in order to raise awareness and to sensitize surrounding population and employees of MUNPL about the importance of conservation of ground water and its scarcity in near future. **A Walkathon** has been organized along with local villagers and school children's in the nearby village for sensitizing people about importance of ground water and mass communication with the surrounding areas to preserve this invaluable natural resource for ourselves and our coming generation.
- **World Environment Day 2022** was celebrated on 5 June 2022. A **walkathan, tree plantation** programs and awareness message by senior executives and through **Nukkad natak** program were carried out in and around plant in township with ON LINE slogan, Painting competition among school children members and Associates.



Fig: Walkathon during World Environment day 05June2022



Fig: Tree Plantation World Environment day 05June2022

- In order to encourage the mitigation of plastic bag usage and to facilitate the process, MUNPL has distributed biodegradable and compostable bags developed by DRDO in collaboration with M/s Eco Plastic products Hyderabad, to nearby shops and vegetable market on June'22.



Fig: biodegradable and compostable bags distribution in Sabji market

2. **Hydrogeological study** is being carried out by NIH Roorkee.
3. **FGD** is being installed to control SO₂ emission as per norms.
4. Low Nox burner installed for Nox emission control and under observation.
5. **Mass afforestation:**
 - 2,92,750 nos. of tree plantation has been carried out till March'22.
 - 45000 nos. of saplings to be planted in 2022-23.
 - Around 2000 fruit bearing sapling has been distributed in nearby villages and employees of MUNPL & associates.



Fig: fruit bearing sapling distribution in nearby villages

- 1200 nos of tree plantation carried out during world environment day week.
- 300 nos. trees were planted in International Earth day, 22nd April 2022.



Fig: Tree plantation during Earth day2022

- Miyawaki plantation by social forestry department is under proposal.

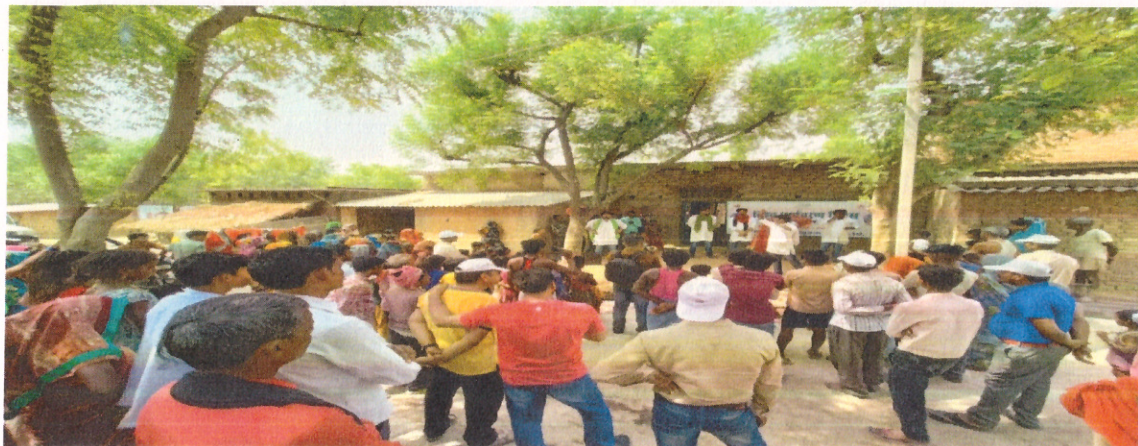


Fig: Nukkad Natak in nearby village for awareness regarding Environment, water conservation.

