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# 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 -2021.

(Under Rule 14 of the Environmental Protection Rule -1986)

By

Environment Management group

**MEJA THERMAL POWER PROJECT**

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

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FORM – V

(See Rule 14)

Environmental statement for the financial year ending on 31<sup>st</sup> March on or before 30<sup>th</sup> of September every year.

PART - A

1	Name and address of the Owner/Occupier of the Industry operation or process.	<b>Sri Rakesh Kumar</b> – CEO (Chief Executive Officer) MUNPL
2	Industry category Primary ( STC Code ) Secondary ( STC Code ).	Thermal Power Plant
3	Production capacity – Units -----	UNIT#-I & II , 660+660 = <b>1320 MW</b>
4	Year of establishment	<b>2011</b> ( Erection Activities Started )
5	Date of last environmental statement submitted.	Vide Ref No : MUNPL/EMG& AU /Env.Stat./20-21/20,Dated:28-09-2020

PART – B

(Water and Raw Material Consumption)

(1). Water Consumption (m<sup>3</sup>/day)

Process	<b>1380 m<sup>3</sup>/day</b>
Cooling	<b>37820.17 m<sup>3</sup>/day</b>
Domestic	<b>1100 m<sup>3</sup>/day</b>

Name of Products	Process water consumption per unit of products	
	During The Previous financial Year	During the Current financial Year
Electricity generation (DM Water)	0.12 L / kwhr ( 2020-21 )	0.084 L / kwhr (2021–22 in first quarter )
Cooling Water for Electricity generation	3.33 L / kwhr ( 2020-21 )	2.516 L / kwhr (2021–22 in first quarter )

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PART – C

Pollution discharged to environment / unit of output.

Pollutants	Quantity of Pollutant discharged (mass/day)	Concentration of Pollutant (mass/volume)	% -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			
<b>SPM</b>	Cumulative data not available 35	30 mg/Nm <sup>3</sup> (Average)	16.7 %
<b>SO<sub>2</sub></b>	400	250 PPM (Average)	60%
<b>No<sub>x</sub></b>	160	180 PPM (Average)	-

PART- D

Hazardous Wastes

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

Hazardous Wastes (Generated)			
A	From Process	During the Prev. Fin. Year – 2020-21	During the Current financial Year – 2021-22 (Its Quarter)
1	Used & dirty oil (in Ltr.)	NIL	NIL
2	Scrap Battery (in MT)	NIL	NIL
3	Empty Container (Steel & Plastic)	Steel- 3835 Nos. Plastic- 2693 Nos.	Steel-0 Plastic - 591 Nos.
4	Bio-medical waste	1150 KG in 2020-21	
B	From Pollution Control Facilities	NIL	
	Authorization	HW Authorization issued from UPPCB Lucknow with Ref. No : 10138/UPPCB/Allahabad(UPPCBRO)/HWM/Allahabad/2019,Dated:26/04/2020	

(2). Raw material consumption

Sl. no.	Name of Raw Materials	Name of Product	UoM	Consumption of raw material per unit of output	
				During the Prev. Fin. Year – 2020-21	During the Current financial Year – 2021-22 (first quarter )
(i)	Coal	Electricity generation	Kg/KWh.	0.658	0.66
ii.	Oil	Electricity	MI/kWh	0.90	1.01
iii.	Hydrazine hydrate	For boiler Water Conditioning	MT	310	0
iv.	Tri- Sodium Phosphate		MT	50	0
v.	Ammonia		Ltr.	36000	18075
vi.	Caustic Soda	For Pre-treatment & DM Plant	MT	143	50
vii.	Hydrochloric Acid		MT	635	186
viii.	Alum		MT	10	6
ix	Lime		MT	2	1
x.	Liq. Poly Alum. Chloride		MT	119	36
xi.	Sulphuric Acid	Cooling Water conditioning	MT	584	490
xii.	Liquid Chlorine		MT	92	56.7

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**PART – E**

**Solid Wastes**

Solid Wastes	Total Quantity	
	During the Prev. Fin. Year – 2020-21	During the Fin. Year – 2021-22 (1 <sup>st</sup> Quarter)
<b>A- From Process</b>		
I - Mill Rejects / Clinkers etc.	NIL	NIL
<b>B- From Pollution Control Facilities</b>		
I -Ash (Lakh Ton )	10.25	4.8
II - Sewage (m <sup>3</sup> /day)	NIL	NIL
<b>C-Quantity Recycled or Re- Utilised Within the unit</b>		
I- Ash (issued to industries in(MT )	572211.2 MT	339848.8
II- Any other solid waste (Domestic)-Plastic Politeness	NIL	NIL
SOLD – I-Fly Ash in MT	381837.0	216452.4
II-Cenosphere	NIL	NIL
DISPOSED – I - Fly Ash (Lakh MT)	8.194336	3.81328
II- Bottom Ash(Lakh MT)	2.0498329	0.95332

**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
<b>1-</b>	<b>ASH:</b>			
i-	Sodium oxide	-	-	
ii-	Magnesium oxide	0.9	-	
iii-	Alumina	96.7	-	
iv-	Silica	64.6	-	
v-	Phosphorus Pent oxide	-	-	
vi-	Sulphur trioxide	0.01	-	
vii-	Potassium oxide	-	-	
viii-	Calcium oxide	-	-	
ix-	Titanium dioxide	-	-	
x-	Manganese oxide	-	-	
xi-	Iron oxide	-	-	

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## PART – G

### Impact of Pollution Control Measures Conservation of Natural Resources and on the Cast of Production

- Station has been declared COD on dated 31.01.2021
- STP has been commissioned and partially Functioned since April 2020.
- Regular testing of stack and environment parameters (in house & Third party monitoring )
- Afforestation as an additional measure for better environment management has added up to natural green cover of plant & its surrounding areas.
- FGD is under erection, shall be commissioned by March' 22.
- ZLD has been implemented, Ash water, coal slurry effluent, main Plant effluent is being treated and in house used for closed cycle.
- However drain separation is to be implemented by Oct. 22
- Ash brick plant is in process of setup (in house) for ash utilization.
- Water harvesting being implemented.

## PART- H

### Additional measures / investment proposal for environmental protection abatement of pollution, prevention of pollution

- Continuous ambient air monitoring stations at four locations have been installed for better & effective monitoring of Ambient Air Quality around the plant.
- Continuous emission monitors have also been installed for monitoring of emission level at MUNPL , Meja- Prayagraj.
- Quarterly third Party Environmental monitoring done by IITR – CSIR Lucknow in plant area & vicinity of plant premises.
- Vermin – composting of domestic organic waste and the bio- degradable canteen waste has been under implementation.
- 2.353 lac Tree saplings already planted till 2022-21,30800 saplings to be planted in 2021-22.
- Fly ash being disposed to Cement factories and Other Ash users.
- BMW Management authorisation taken by UPPCB, Prayagraj for operating a facility handling of biomedical waste with MUNPL- hospital (Arogyam Hospital- Kohdar ,Meja )

## PART – I

### Any other particulars for improving the quality of the environment.

- World Environment Day- 2020 was celebrated on 5<sup>th</sup> June 2020, due to resurgence of COVID - 19 protocol overall activity like that tree plantation in and around plant & township , Online slogan competition, Essay writing, Quiz competition, Painting competition among school children members and Associates were carried out keeping in view of social distancing .
- World Environment Day - 2021 was celebrated on 5<sup>th</sup> June 2021 also this year due to resurgence of COVID-19 overall activity were be carried out keeping in view of social distancing like that tree plantation ,Face Mask distribution, nline slogan competition among school children.
- All standard prescribed for effluents, emission, hazardous, BMW & Solid waste shall be complied.
- Infrastructural facilities for proper monitoring & effective management of surrounding environment shall be completed.
- Green belt being developed as per the requirement of "**Ministry of Environment & Forest**"(MOEF).
- MUNPL has been the part of mass plantation programme of UP Government .MUNPL is planting 20,000 saplings for this big occasion.