

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 -2020.

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

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-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.	Sh. ASIM KUMAR SAMANTA – CEO (Chief Executive Officer) MUNPL
2	Industry category Primary (STC Code) Secondary (STC Code).	Thermal Power Plant
3	Production capacity – Units -----	UNIT#-I, 660 MW
4	Year of establishment	2011 (Erection Activities Started)
5	Date of last environmental statement submitted.	For the First Year For FY 2019-20

PART – B

(Water and Raw Material Consumption)

(1). Water Consumption (m³/day)

Process	636 m ³ /day
Cooling	29520 m ³ /day
Domestic	1260 m ³ /day

Name of Products	Process water consumption per unit of products	
	During The Previous financial Year	During the Current financial Year
Electricity generation	0.18 L / kwhr (2019-20)	0.13 L / kwhr (2020–21 in first quarter)

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(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 – 2019-20	During the Current financial Year – 2020-21(first quarter)
(i)	Coal	Electricity generation	Kg/KWh.	0.642	0.71
ii.	Oil	Electricity	MI/kWh	7.87	2.54
iii.	Hydrazine hydrate	For boiler	MT	0.100.	-
iv.	Tri- Sodium Phosphate	Water Conditioning	MT	0.15	-
v.	Ammonia		Ltr.	24 MT	-
vi.	Caustic Soda	For Pre-treatment & DM Plant	MT	42 MT	-
vii.	Hydrochloric Acid		MT	225 MT	-
viii.	Alum		MT	30 MT	-
ix	Lime		MT	40MT	-
x.	Liq. Poly Alum. Chloride		MT	85 MT	-
xi.	Sulphuric Acid	Cooling Water conditioning	MT	80 MT	-
xii.	Liquid Chlorine		MT	45 MT	-

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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 contingent ZLD implemented)	-	-
i- Ash Pond Effluents	829200 (to AWRS)	TSS-54.0; O&G - 3.6	-46%;-80%
ii- Main Plant Effluent	2182800 (To CW SYS)	Diff.Temp:8.5°C	-15%
iii- Sewage Effluents	Nil (STPCommnd.)	TSS-15.0; O&G – 2.0, BOD:20	
(B) AIR (Stack Emission) Average			
SPM	Cumulative data not available	45 mg/Nm ³ (Average)	-43.7%
SO ₂	-	250 PPM (Average)	-150%
No _x	-	180 PPM (Average)	--80%

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 – 2019-20	During the Current financial Year – 2020-21(Ist Quarter)
i-	Used & dirty oil (in Ltr.)	nil	-
2	Scrap Battery (in MT)	Nil	-
3	Empty Container (Steel & Plastic)	Steel:828;Plastic: 816 kg	Steel:350;Plastic: 400 kg
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	

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PART – E

Solid Wastes

Solid Wastes	Total Quantity	
	During the Prev. Fin. Year – 2019-20	During the Fin. Year – 2020-21 (1st Quarter)
A- From Process		
i-Mill Rejects / Clinkers etc.	nil	nil
B- From Pollution Control Facilities		
- i-Ash (Lakh Ton)	- 2.4438 -	- 1.127 -
ii- Sewage (m ³ /day)	nil	nil
C-Quantity Recycled or Re- Utilised Within the unit		
i- Ash (issued to industries in MT)	nil	7898
ii- Any other solid waste (Domestic)-Plastic Politeness	1.6 MT (Send to UPPCB Approved Vendor)	-
SOLD – i-Fly Ash in MT	nil	7555
- ii-Cenosphere	nil	nil
DISPOSED – i Fly Ash (Lakh MT)	1.955	0.837
- ii- Bottom Ash(LakhMT)	0.49	0.209

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-	ASH:			
i-	Sodium oxide	-	-	Fin. year 2019 Pond Ash 2.4438 LMT & current financial year-2021 1.27 LMT (Please see the note) *
ii-	Magnesium oxide	-	-	
iii-	Alumina	-	-	
iv-	Silica	-	-	
v-	Phosphorus Pent oxide	-	-	
vi-	Sulphur trioxide	-	-	
vii-	Potassium oxide	-	-	
viii-	Calcium oxide	-	-	
ix-	Titanium dioxide	-	-	
x-	Manganese oxide	-	-	
xi-	Iron oxide	-	-	

During 2019 unit # 1 under commissioning, COD 31-04-2019 was on Par for only 87 days intermittently, in financial year 2020-21 unit -1 start from 16-05-2020; Ash testing shall be done as on Nov. 2021.

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PART – G

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

- 30.04.2019 ,thereafter Unit was on bar for around 87 days only (S/d for about six months From 06.10.2019 to 26.03.2020), so no effluent generated, mainly Ash System water was being recycled Note: Unit#1 was under commissioning up to 29.04.2019, Commercial Operation started wef with contingent system in service for use along with cycle makeup, as water requirement was less.
- As Unit#1 was on bar for very less days (87) and ETP work was in progress, no third party test sample was taken till Sep/2019 thereafter Unit was totally under S/D.
- STP has been commissioned and partially Functioned since April 2020.
- A forestation as an additional measure for better environment management has added up to natural green cover of plant & its surrounding areas.
- Ash brick plant is in process of setup (in house) for ash utilization.

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 the emission level from MUNPL Kohdar Meja Pryagraj.
- Quarterly third Party Environmental monitoring by IITR – CSIR Lucknow In plant area & vicinity of plant.
- Vermin – composting of domestic organic waste and the bio- degradable canteen waste has been under implementation.
- 2.175 lac Tree saplings already planted till 2019-20; 40000 saplings to be planted in 2020-21.
- BMW Management authorisation taken by UPPCB Pryagraj for operating a facility f handling of biomedical waste with MUNPL hospital (Aerogram Hospital- Kohdar ,Meja)

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PART – I

Any other particulars for improving the quality of the environment.

- World Environment Day 2019 was celebrated on 5 June 2019, WED 2019 week was celebrated in Meja with all round participant by employees, families associates etc. Around 600 Terracotta water bottles procured from NTPC Vindhyachal CSR sponsored party were distributed to all employees, CISF, School Teachers etc. Besides other Programmes conduct like mass tree plantation in and around plant in township ON LINE slogan , Essay writing, Quiz completion, Painting competition among school children, employee & family members and Associates.
- World Environment Day 2020 was celebrated on 5 June 2020 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, ON LINE slogan, assay writing ,quiz completion, Painting competition among school children, employee & family members.
- 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.

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