

**ENVIRONMENTAL STATEMENT**  
**FOR**  
**KBUNL - MTPS**  
*(FOR THE YEAR 2018-19)*

FORM-V

*(Under Rule -2 of The Environment (Protection) second amendment rules, 1992 VIDE G.S.R.  
329 (E) Dated 13.03.1992*

Environment Management Group

**Kanti Bijlee Utpadan Nigam Limited**  
Muzaffarpur Thermal Power Station  
PO: Kanti Thermal, Dist: Muzaffarpur  
PIN: 843130

(Under Rule -2 of The Environment (Protection) second amendment rules, 1992  
 VIDE G.S.R. 329 (E) Dated 13.03.1992)

**PART-A**

1	Name & address of the Owner / occupier of the industry operation as process.	:	Kanti Bijlee Utpadan Nigam Limited Muzaffarpur Thermal Power Station PO- Kanti Thermal Dist-Muzaffarpur-843130 (Bihar)
2	Industry Category Primary (STC Code)	:	Thermal
3	Production Capacity (MW)	:	St-I (110 MW X 2) = 220 MW St-II (195 MW X 2) = 390 MW Total = 610MW
4	Year of Establishment	:	Unit-1 31 <sup>st</sup> March 1985 Unit-2 17 <sup>th</sup> March 1986 Unit-3 31 <sup>st</sup> March 2015 Unit-4 24 <sup>th</sup> March 2016
5	Date of Environment Statement Submitted	:	03.07.19

**PART-B**

(Water and Raw Material Consumption)

1. **Water Consumption:**

Sl. No.	Water Consumption		(M <sup>3</sup> /MU)	(M <sup>3</sup> /day)
1.	Process	:	1106.49	9219.85
2.	Cooling	:	2487.83	20729.93
3.	Domestic	:	23.40	195.00
4.	<b>Total</b>	:	3617.72	30144.78

Water consumption per product output (Liters / kWh)			
Name of Products		During the previous fin. Year (2017-18)	During the current fin. Year (2018-19)
<b>ELECTRICITY</b>	:	<b>3.9</b>	<b>3.6</b>

## 2. Raw Material Consumption:

Sl. No.	Name of Raw Materials	Name of Product	Unit of Measure	Consumption of raw material per unit of output	
				During the Prev. fin. Year 2017-18	During the current fin. Year 2018 - 19
1	Coal	Electricity	Kg/kWh	0.780	0.686
2	Oil		ml/kWh	3.51	1.23

## PART-C

### POLLUTION GENERATED

(Parameters as specified in the Consent issued)

Pollutants	Quantity of Pollutants/ Discharged (Ton/day)		Concentration of Pollutants in Discharges (mg/Nm <sup>3</sup> )	% of variation from prescribed standard with reasons.
Water	pH	---	7.39	NIL
	TSS	0.047	66.16 mg/lit	
	oil	---	<1 mg/lit	
Air	St-I	SPM : 1.17	68.175	NIL
		SOx : 4.12	241.22	
		Nox : 3.91	230.80	
	St-II	SPM : 1.19	47.33	NIL
SOx : 6.04	239.80			
Nox : 5.85	232.19			

## PART-D

### HAZARDOUS WASTES

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

HAZARDOUS WASTE		TOTAL QUANTITY	
		During the previous fin. Year 2017-18	During the current fin. Year 2018-19
(a)	From Process (Used & Dirty Oil)	8.2 KL	11.5 KL
(b)	From Pollution Control facilities	nil	nil

**PART-E**  
**SOLID WASTES**

SOLID WASTE		TOTAL QUANTITY	
		During the previous fin. Year 2017-18	During the current fin. Year 2018-19
1.	FROM PROCESS Mill rejects/clinkers etc. (in MT)	6977 MT	8782 MT
2.	FROM POLLUTION CONTROL FACILITY	NIL	NIL
3.	QUANTITY RECYCLED OR RE-UTILISED WITHIN THE UNIT	NIL	NIL
4.	Sold	NIL	NIL
5.	Disposed	6977 MT	8782 MT

**PART-F**

**Please specify the characterizations (in terms of composition of quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes**

**HAZARDOUS WASTE STATUS**

Sl. No.	Types of hazardous wastes	Disposal Practice
1	Used Oil	Used oil packed in MS drum sold to authorized recycler - M/s Om Industries , Jind Road , Rohtak , Haryana (Authorization No:137/2016/RCRR/HW/HSPCB Valid up to 28.09.21 )

## **PART-G**

### **Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.**

- Regular monitoring of ambient air quality, stack emissions and effluent quality is done through recognized laboratory to evaluate the efficiency of the pollution control systems and control measures on the overall emissions from stack and ambient air.
- Installation of reuse system and Effluent treatment plant to recycle the process effluent resulting in the conservation of natural resources (fresh water).
- Installation of Ash water recirculation system to re-circulate ash water in slurry preparation resulting in the conservation of natural resources (fresh water).
- Depreciation cost of pollution control devices & cost of Operation & Maintenance of these devices has direct impact on cost of production.
- Afforestation as an additional measure for better environment management has added to natural green cover of plant, ash dyke and township areas.

## **PART-H**

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

1. Movable Water sprinkler has been deployed for water spraying to control fugitive emission at the awarded cost of Rs.1,32,007.
2. Work of amount Rs.3,93,060 was carried out through recognized Lab for monitoring of ambient air quality, drinking water, effluent & stack parameters etc .
3. 10,0000 nos. of trees of as a part of Green belt have been planted in the plant and ash dyke area through forest deptt. at the expenditure of Rs.9,20,700
4. Online effluent quality monitoring system (EQMS) has been installed at the awarded cost of Rs. 39,87,670/-
5. Work of amount Rs. 16,95,374/- has been awarded for solid waste management of township and plant area.
6. Bio-medical waste is being disposed off as per norms through authorized agency at the expenditure of Rs. 52,560 per annum.
7. A pocklain has been deployed at the awarded cost of Rs.10,00,000 for excavation of pond ash and loading the same in the ash user's vehicles. This is being taken up as promotional activities for pond ash user.

## **PART-I**

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

1. Regular monitoring of various Environmental Parameters is being carried out and all necessary steps are being taken to maintain the same within the prescribed limit.
2. Separate identified group is working for environment monitoring and management at station, supported by groups at Regional & Corporate level.
3. Treated effluent is being re-cycled for use in process for minimizing use of fresh water.
4. Various environment awareness campaign have been taken-up on world environment day ,World Ozone day etc.
5. Community cleanliness drives have been carried out in nearby area to spread awareness in public regarding keeping clean and green environment.
6. Special tree plantation drive have been carried out on world environment day, World Ozone day, Republic day etc.
7. Good housekeeping is being maintained in Plant and Township area