



Ref. No. Env/ES/041
The Member Secretary,
U.P. Pollution Control Board,
T.C.-12V, Vibhuti Khand,
Gomti Nagar
LUCKNOW (U.P.) – 226 010

Date: 25.09.2021

Sub: Environmental Statement for FY: 2020-21

Dear Sir,
Enclosed herewith please find Environmental Statement of our Plant for the financial year ending 31st March, 2021 in Form -V for your information and kind perusal please .

Hope, you will kindly find the same in order.
Thanking you,

Yours faithfully,
For HINDALCO INDUSTRIES LIMITED
(Renusagar Power Division)

A handwritten signature in black ink, appearing to be "Kamlesh Maurya", written over a light blue horizontal line.

(Kamlesh Maurya)
Asstt Manager (Environment)

Encl: As above.

CC: The Regional Officer,
Regional Office
U.P. Pollution Control Board,
House no. 162, 1 st Floor
Uttar Mohal,
Robertsganj (U.P.)

CC:I/c Zonal Office North
Central Pollution Control Board,
MoEFCC, TC12V, Vibhuti Khan
Gomati Nagar
LUCKNOW (U.P.) 226 010

CC: The Director,
Ministry of Environment Forests & Climate Change
Kendrya Bhawan, 5th Floor
Sector-H, Aliganj,
Lucknow-UP-226024

**FORM-V
(See Rule 14)**

Environmental Statement for the Financial Year ending the 31st March 2021

PART-A

- i Name and address of the Owner/Occupier of the industry, operation or process. : Kamlesh Maurya
Asstt Manager (Environment)
HINDALCO INDUSTRIES LIMITED
(Renusagar Power Division)
P.O. Renusagar
Dist.Sonebhadra(U.P.)
- ii Industry category : Category 17
Primary-(STC Code) :
Secondary-(STC Code) : Primary
- iii Production Capacity-Units : Electricity Generation-828 MW
- iv Year of Establishment : 1967
- v Date of last Environmental Statement submitted : 21.05.2020

PART-B

Water and Raw Material Consumption

- i Water consumption M³/day :
Process : *42079.780 KL/Day
Cooling : 1151.205 KL/Day
Domestic : 33676.43 KL/Day
*Excluding reuse water : 7252.145 KL/Day

Name of Products	Process water consumption per unit of product output	
	During the previous financial year : (2019 - 2020)	During the current financial year (2020 - 2021)
	'(1)	'(2)
1.Electricity	18.00 Gal/MWh	15.415 Gal/MWh

ii **Raw Material Consumption**

Name of raw materials	Name of Products	Consumption of raw material per unit	
		During the previous financial year (2019 - 2020)	During the current financial year (2020 - 2021)
	Electricity		
Coal		0.698 kg/KWh	0.709 kg/KWh
Water		591.528 Gal/MWh	563.461 Gal/MWh
HSD		0.418 ml/KWh	0.353 ml/KWh
Oil&Lubricants		0.016 litre/MWh	0.018 litre/MWh
Grease		1.182 gram/MWh	1.108 gram/MWh

* Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.

PART-C

**Pollution discharged to Environment/unit output
(Parameter as specified in the consent issued)**

(1)	Pollution	Quantity of Pollutants discharged (mass/day)	Concentration of Pollutants discharged (mass/volume)	Percentage of variation from prescribed standards with reasons
(a)	Water (Maximum permissible quality)	<p>TSS: 198.76 kg/day BOD: 115.07 kg/day COD: 334.76 kg/day Oil&Grease: 9.42 kg/day Iron(as Fe): 2.20 kg/day Fluoride(as F): 6.28 kg/day</p> <p>TSS: 336.64 kg/day BOD: 91.09 kg/day COD: 366.34 kg/day Oil&Grease: 8.91 kg/day Iron(as Fe): 0.97 kg/day Fluoride(as F): 7.92 kg/day (ZLD unit: All effluents recycled & reused)</p>	<p>Sewage Treatment Plant pH : 7.5 TSS: 38.0 mg/litre BOD: 22.0 mg/litra COD: 64.0 mg/litre Oil & Grease: 1.8 mg/litre Iron(as Fe): 0.42 mg/litre Fluoride(as F): 1.2 mg/litre</p> <p>Effluent Treatment Plant pH : 7.6 TSS: 68.0 mg/litre BOD: 18.40 mg/litre COD: 74.0 mg/litre Oil & Grease: 1.8 mg/litre Iron(as Fe): 0.20 mg/litre Fluoride(as F): 1.6 mg/litre</p>	Not exceeding the permissible limit.
(b)	Air	PM: 818 kg/day/Boiler (Approx.) (Total 10 Numbers of Boilers)	PM (mg/Nm3) Annual Average. -92.750	Not exceeding the permissible limit.

PART-D

HAZARDOUS WASTES

(As under [Hazardous Waste & other waste (Management & Transboundary Movement) Rule, 2016])

	Hazardous waste	Total Quantity (Kg)	
		During the previous financial year (2019 - 2020)	During the current financial year (2020 - 2021)
1	From Process (Used Oil)	26525 kg	Nil
2	From Pollution control Facilities	Nil	Nil

PART-E

SOLID WASTES

	Solid wastes	Total Quantity			
		During the previous financial year (2019 - 2020)		During the current financial year (2020 - 2021)	
a		Fly ash & Bottom ash (MT)	Coal mill rejects (MT)	Fly ash & Bottom ash (MT)	Coal mill rejects (MT)
b	From Process	1600670	5043.98	1504059	5148.72
	From Pollution control Facilities	1597677		1501365	
c(1)	Quantity recycled or reutilized within the unit.	28679.10	Back filling of low lying areas.	15028.44	Back filling of low lying areas.
(2)	Sold	Nil	Nil	Nil	Nil
(3)	Disposed	Bottom ash to Ash Pond. Fly ash supplied to cement companies		Bottom ash to Ash Pond. Fly ash / Bottom ash supplied to cement companies	

PART – F

Please specify the characteristics (in term of concentration and quantum) of hazardous as well as solid waste and indicate disposal practice adopted for both these categories of waste.

Hazardous waste in the form of used oil is stored and send to authorized recyclers for recycling. Solid waste generated are mainly fly ash.Fly ash generated as waste is 1504059 MT We have utilized 59260MT in Brick Plant,968624 MT to Cement companies, 89918 MT to Road projects.Remaining 386258 MT ash was disposed to Ash Dyke.

PART – G

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

Unit has established ETP,STP & Ash water treatment plants which run continuously.All the treated Effluents are recycled and reused within plant premises. Yearly Recycle water from Reuse Pond,STP,ETP and Ash Water Recovery Plant in the year 2020 - 2021 is 5652678 KL.

ESP has been installed in all units to control dust emission.Regular maintenance and upgradation of ESP are being done to keep the emission within prescribed limit.

PART – H

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

Regular Plantation of different plant species are being carried out which helps in preservation of Bio-reserves and improves ambient air quality. Awareness programme like World Environment day, Van mahotsava & others are organized.

PART – I

Any other particulars for improving the quality of the environment.

Unit has been certified with ISO-9001:2015 ISO14001:2015,ISO-45001:2018,& ISO-50001:2018 standard, for quality, environment,safety & occupational health and energy management.Implementation of these systems help to improve the quality of the environment.



(Kamlesh Maurya)
Asstt Manager (Environment)