

Ref. No. Env/ES/040
The Member Secretary,
U.P. Pollution Control Board,
T.C.-12V, Vibhuti Khand,
Gomti Nagar
LUCKNOW (U.P.) – 226 010

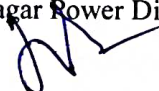
Date: 23.09.2023

Sub: Submission of Environmental Statement(Form-V) for FY: 2022-23

Dear Sir,
Enclosed herewith please find Environmental Statement of our Plant for the financial year ending 31st March, 2023 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)


(Kamlesh Maurya)
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,
Picup Bhawan, Vibhuti Khand,
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

Hindalco Industries Limited

Renusagar Power Division, P.O. Renusagar-231218, District, Sonbhadra, Uttar Pradesh, India
T: +91 5446 278592-95 | F: +91 5446 278596/277164 | E: hindalco@adityabirla.com | W: www.hindalco.com
Registered Office: Ahura Centre, 1st Floor, B Wing, Mahakali Caves Road, Andheri (East), Mumbai 400 093
T: +91 22 6691 7000 | Fax: 91 22 6691 7001
Corporate ID No.: L27020MH1958PLC011238

FORM-V
(See Rule 14)

Environmental Statement for the Financial Year ending the 31st March 2023

PART-A

i	Name and address of the Owner/Occupier of the industry, operation or process.	:	Kamlesh Maurya Manager (Environment) HINDALCO INDUSTRIES LIMITED (Renuagar Power Division) P.O. Renuagar Dist.Sonebhadra(U.P.)
ii	Industry category Primary-(STC Code) Secondary-(STC Code)	:	Category 17 Primary
iii	Production Capacity-Units	:	Electricity Generation-754.64 MW
iv	Year of Establishment	:	1967
v	Date of last Environmental Statement submitted	:	14.09.2022

PART-B

Water and Raw Material Consumption

i	Water consumption M ³ /day	:	*43394.981 KL/Day
	Process	:	1262.589 KL/Day
	Cooling	:	35663.943 KL/Day
	Domestic	:	6468.449 KL/Day
	*Excluding reuse water	:	

Name of Products	Process water consumption per unit of product output	
	During the previous financial year : (2021 - 2022)	During the current financial year (2022 - 2023)
	(1)	(2)
1.Electricity	11.814 Gal/MWh	15.355 Gal/MWh

ii **Raw Material Consumption**

Name of raw materials	Name of Products	Consumption of raw material per unit	
		During the previous financial year (2021 - 2022)	During the current financial year (2022-2023)
	Electricity		
Coal		0.6572 kg/KWh	0.666 kg/KWh
Water		518.72 Gal/MWh	527.755 Gal/MWh
HSD		0.386 ml/KWh	0.271 ml/KWh
Oil&Lubricants		0.011 litre/MWh	0.014 litre/MWh
Grease		1.175 gram/MWh	1.146 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)	Effluent Treatment Plant		Not exceeding the permissible limit.
		TSS: 451.91 kg/day BOD: 90.69 kg/day COD: 673.26 kg/day Oil & Grease: 16.29 kg/day Iron (as Fe): 0.97 kg/day Fluoride (as F): 9.48 kg/day	pH: 7.2 TSS: 73.50 mg/litre BOD: 14.75 mg/litre COD: 109.5 mg/litre Oil & Grease: 2.65 mg/litre Iron (as Fe): 0.16 mg/litre Fluoride (as F): 1.54 mg/litre	
(b)	Air Boiler#1 Boiler#2 Boiler#3 Boiler#4 Boiler#5 Boiler#6 Boiler#7 Boiler#8 Boiler#9 Boiler#10	Sewage Treatment Plant		Not exceeding the permissible limit.
		TSS: 220.43 kg/day BOD: 87.94 kg/day COD: 513.75 kg/day Oil & Grease: 11.34 kg/day Iron (as Fe): 2.44 kg/day Fluoride (as F): 5.97 kg/day (ZLD unit: All effluents recycled & reused)	pH: 7.6 TSS: 47.63 mg/litre BOD: 19 mg/litre COD: 111 mg/litre Oil & Grease: 2.45 mg/litre Iron (as Fe): 0.53 mg/litre Fluoride (as F): 1.29 mg/litre	
		PM: 674.99 kg/day PM: 496.46 kg/day PM: 652.67 kg/day PM: 722.84 kg/day PM: 835.84 kg/day PM: 445.27 kg/day PM: 424.01 kg/day PM: 509.27 kg/day PM: 509.59 kg/day PM: 702.25 kg/day	PM : 68.23 mg/Nm3 PM : 67.71 mg/Nm3 PM : 89.48 mg/Nm3 PM : 90.04 mg/Nm3 PM : 89.59 mg/Nm3 PM : 67.63 mg/Nm3 PM : 67.28 mg/Nm3 PM : 66.08 mg/Nm3 PM : 74.08 mg/Nm3 PM : 89.03 mg/Nm3	

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 (2021 - 2022)	During the current financial year (2022 - 2023)
1 From Process (Used Oil)	54.95 MT	30.156 MT
2 From Pollution control Facilities	Nil	Nil

PART-E
SOLID WASTES

Solid wastes	Total Quantity				
	During the previous financial year (2021 - 2022)		During the current financial year (2022 - 2023)		
	Fly ash & Bottom ash (MT)	Coal mill rejects (MT)	Fly ash & Bottom ash (MT)	Coal mill rejects (MT)	
a	1301175.66	4131.4	1453736.51	6339.8	
b	1298182.66		1450743.51		
c(1)	Quantity recycled or reutilized within the unit.	19589.94	Back filling of low lying areas.	44735.29	Back filling of low lying areas.
(2)	Sold	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		

Hindalco Renuagar Power-Environmental Statement 2022-23

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 & bottom ash generated as waste is 1453736.51 MT.
- We have utilized 44735 MT in Brick Plant(Renusagar+ Outside),785675 MT to Cement companies, 956134 MT to low lying areas.

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 2022-23 is 6022091 KL.
- Unit has developed 03 No Rain water harvesting ponds of capacity-224966 m3
- 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.
- Bagfilters has been installed in Ash Silos.
- Road dust mitigation done through water tanker Sprinklings & mechanical sweeping machine.

PART – H


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

- We have developed 34.2% of the total plant area as green belt.Miyawaki plantation sites has been developed at two locations
- Regular Plantation of different plant species are being carried out which helps in preservation of Bio-reserves and improves ambient air quality.
- Solar plant of 2.3 MWp DC capacity has been installed and Operational.
- For SO2 control we are installing FGD plant in Boiler#5 with capex expenditure of 103.2 crore

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.
- Our unit has been certified as Single use plastic Free Plant from confederation of Indian Industry(CII)
- Awarness programme like World Environment day, Van mahotsava & others are organized.
- Environmental awareness is created through Training programes on Air,Water,Wastes and Biodiversity


(Kamlesh Maurya)
Manager (Environment)