



Ref. No. Env/ES/126

Date: 05/08/2024

The Member Secretary,
U.P. Pollution Control Board,
T.C.-12V, Vibhuti Khand,
Gomti Nagar
LUCKNOW (U.P.) – 226 010

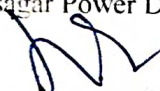
Sub: Submission of Environmental Statement(Form-V) for FY: 2023-24

Dear Sir,

Enclosed herewith please find Environmental Statement of our Plant for the financial year ending 31st March, 2024 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 2024

PART-A

i	Name and address of the Owner/Occupier of the industry, operation or process.	:	Kamlesh Maurya Manager (Environment) HINDALCO INDUSTRIES LIMITED (Renusagar Power Division) P.O. Renusagar Dist.Sonebhadra(U.P.)
ii	Industry category Primary-(STC Code) Secondary-(STC Code)	:	Category 17 Primary
iii	Production Capacity-	:	829.58 MW CPP
iv	Year of Establishment	:	1967
v	Date of last Environmental Statement submitted	:	23.09.2023

PART-B

Water and Raw Material Consumption

i	*Water consumption M ³ /day	:	43457.694 KL/Day
	Process	:	1071.008 KL/Day
	Cooling	:	35135.071 KL/Day
	Domestic	:	7251.615 KL/Day
	*Excluding reuse water		

Name of Products	Process water consumption per unit of product output	
	During the previous financial year : (2022 - 2023)	During the current financial year (2023 - 2024)
	'(1)	'(2)
1.Electricity	0.0697 m3/MWh	0.0591 m3/MWh

ii **Raw Material Consumption**

Name of raw materials	Name of Products	Consumption of raw material per unit	
		During the previous financial year (2022-2023)	During the current financial year (2023-2024)
	Electricity		
Coal		0.666 kg/KWh	0.660 kg/KWh
Water		2.396 m3/MWh	2.397 m3/MWh
HSD		0.271 ml/KWh	0.254 ml/KWh
Oil&Lubricants		0.014 litre/MWh	0.006 litre/MWh
Grease		1.146 gram/MWh	0.863 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.

Hindalco Renuagar Power-Environmental Statement 2023-24
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		No Discharge. ETP effluent treated and reused Within the prescribed limits.
			pH : 7.45	
		TSS: 327.98 kg/day	TSS: 50.7 mg/litre	
		BOD: 106.69 kg/day	BOD: 16.50 mg/litre	
		COD: 523.09 kg/day	COD: 80.90 mg/litre	
		Oil&Grease: 12.77 kg/day	Oil & Grease: 1.98 mg/litre	
		Iron(as Fe): 1.60 kg/day	Iron(as Fe): 0.25 mg/litre	
		Fluonde(as F): 5.25 kg/day	Fluonde(as F): 0.81 mg/litre	
		Sewage Treatment Plant		
			pH : 7.6	
TSS: 105.55 kg/day	TSS: 23.95 mg/litre			
BOD: 53.99 kg/day	BOD: 12.25 mg/litre			
COD: 203.38 kg/day	COD: 46.15 mg/litre			
Oil&Grease: 9.84 kg/day	Oil & Grease: 2.23 mg/litre			
Iron(as Fe): 1.76 kg/day	Iron(as Fe): 0.40 mg/litre			
Fluonde(as F): 3.53 kg/day	Fluonde(as F): 0.80 mg/litre			
(b)	Air Boiler#1 Boiler#2 Boiler#3 Boiler#4 Boiler#5 Boiler#6 Boiler#7 Boiler#8 Boiler#9 Boiler#10	PM: 630.62 kg/day	PM : 83.08 mg/Nm3	Within the prescribed limits.
		PM: 453.73 kg/day	PM : 84.6 mg/Nm3	
		PM: 659.19 kg/day	PM : 87.62 mg/Nm3	
		PM: 462.86 kg/day	PM : 85.95 mg/Nm3	
		PM: 643.28 kg/day	PM : 81.22 mg/Nm3	
		PM: 395.74 kg/day	PM : 79.72 mg/Nm3	
		PM: 495.31 kg/day	PM : 82.36 mg/Nm3	
		PM: 570.64 kg/day	PM : 82.06 mg/Nm3	
		PM: 319.49 kg/day	PM : 48.24 mg/Nm3	
		PM: 308.199 kg/day	PM : 46.95 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 (2022 - 2023)	During the current financial year (2023 - 2024)
1 From Process		
i) Used Oil or spent oil	30.156 MT	41.29 MT
ii) Waste or residue containing oil	NIL	NIL
iii) Spent ion exchange resin containing toxic metals;	NIL	NIL
iv) Discarded asbestos.	NIL	NIL
v) Empty barrels /Containers /liners contaminated with hazardous chemicals.	NIL	9.07 MT
vi) Contaminated Cotton Rags or other cleaning materials.	NIL	0.84 MT
2 From Pollution control Facilities	NIL	NIL

PART-E
SOLID WASTES

Solid wastes	Total Quantity	
	During the previous financial year (2022 - 2023)	During the current financial year (2023 - 2024)
a	Fly ash & Bottom ash (MT)	Fly ash & Bottom ash (MT)
	1453736.51	1409378.21 207401
b	From Pollution control Facilities	1406377.01
c(1)	Quantity recycled or reutilized within the unit.	44735.29
(2)	Sold	Nil
(3)	Disposed	Bottom ash to Ash Pond. Fly ash supplied to cement companies

Hindalco Renuagar Power-Environmental Statement 2023-24

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 1409378.21 MT.
- We have utilized 108563.91 MT in Brick Plant(Renusagar+ Outside), 839053.79 MT to Cement companies, 615102.65 MT to low lying areas permitted from SPCB.

PART – G

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

A Water Pollution Control Measures:

- 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 2023-24 is 5834226 KL.
- Unit has developed 03 No Rain water harvesting ponds.

B Air Pollution Control Measures:

- 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.
- Covered coal Yard to prevent Pollution.
- Creepeer plantation done along coal road to prevent air pollution.

C Solid Waste Management Practices

- More Than 100% Fly Ash utilized by our unit.
- Bukiker & mechanically covered vehicles are used for Fly ash Transportaion.
- Ash Brick Plant already installed and Operational for fly ash Utilization

C Green Belt Development

- We have developed thick green belt around the plant boundaries and ash Dyke areas. We have developed 34.33% of the total plant area as green belt.
- We have also developed Nakshatra garden & Miyawaki plantation at unit.

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.
- 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 71.96 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)
- Awareness programme like Water Conservation month,Earth week celebration, International Biodiversity day World Environment day & Van mahotsava are organized for mass awareness and quality improvement.
- Environmental awareness is created through Training programes on Air,Water,Wastes and Biodiversity


(Kamlesh Maurya)
Manager (Environment)