



Ref. No. Env/ES/029

Date: 14.09.2022

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

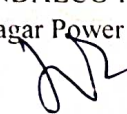
**Sub: Environmental Statement for FY: 2021-22**

Dear Sir,

Enclosed herewith please find Environmental Statement of our Plant for the financial year ending 31<sup>st</sup> March, 2022 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)  
Dy 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:l/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**

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

**Environmental Statement for the Financial Year ending the 31st March 2022**

**PART-A**

|     |  |  |
|-----|--|--|
| i   | Name and address of the Owner/Occupier of the industry, operation or process | Kamlesh Maurya<br>Dy Manager (Environment)<br>HINDALCO INDUSTRIES LIMITED<br>(Renusagar Power Division)<br>P O Renusagar<br>Dist Sonbhadra(U P ) |
| ii  | Industry category<br>Primary-(STC Code)<br>Secondary-(STC Code)              | Category 17<br>Primary   |
| iii | Production Capacity-Units  | Electricity Generation-829 58 MW   |
| iv  | Year of Establishment  | 1967   |
| v   | Date of last Environmental Statement submitted                               | 25.09.2021   |

**PART-B**

**Water and Raw Material Consumption**

|   |                                       |                   |
|---|---------------------------------------|-------------------|
| i | Water consumption M <sup>3</sup> /day | *40453.266 KL/Day |
|   | Process                               | 921.351 KL/Day    |
|   | Cooling                               | 32537.304 KL/Day  |
|   | Domestic                              | 6994.611 KL/Day   |
|   | *Excluding reuse water                |                   |

| Name of Products | Process water consumption per unit of product output  |  |
|------------------|---|--|
|                  | During the previous financial year :<br>(2020 - 2021) | During the current financial year<br>(2021 - 2022) |
|                  | (1)   | (2)  |
| 1.Electricity    | 15.42 Gal/MWh   | 11.814 Gal/MWh                                     |

ii **Raw Material Consumption**

| Name of raw materials | Name of Products   | Consumption of raw material per unit                |  |
|-----------------------|--------------------|---|--|
|                       |                    | During the previous financial year<br>(2020 - 2021) | During the current financial year<br>(2021 - 2022) |
|                       | <b>Electricity</b> |   |  |
| Coal                  |                    | 0.709 kg/KWh  | 0.6572 kg/KWh                                      |
| Water                 |                    | 563.461 Gal/MWh                                     | 518.72 Gal/MWh                                     |
| HSD                   |                    | 0.3527 ml/KWh                                       | 0.386 ml/KWh                                       |
| Oil&Lubricants        |                    | 0.018 litre/MWh                                     | 0.011 litre/MWh                                    |
| Grease                |                    | 1.108 gram/MWh                                      | 1.175 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<br>(Maximum permissible quality) | <b>Effluent Treatment Plant</b>   |  | Not exceeding the permissible limit.                           |
|     |  | TSS: 36.06 kg/day<br>BOD: 26.29 kg/day<br>COD: 269.62 kg/day<br>Oil&Grease: 3.24 kg/day<br>Iron(as Fe): 1.36 kg/day<br>Fluoride(as F): 10.64 kg/day   | pH: 7.9<br>TSS: 6.24 mg/litre<br>BOD: 4.56 mg/litre<br>COD: 46.7 mg/litre<br>Oil & Grease: 0.56 mg/litre<br>Iron(as Fe): 0.24 mg/litre<br>Fluoride(as F): 1.84 mg/litre  |  |
| (b) | Air                                    | <b>Sewage Treatment Plant</b>   |  | Not exceeding the permissible limit.                           |
|     |  | TSS: 24.67 kg/day<br>BOD: 23.99 kg/day<br>COD: 226.96 kg/day<br>Oil&Grease: 2.62 kg/day<br>Iron(as Fe): 1.11 kg/day<br>Fluoride(as F): 4.01 kg/day<br>(ZLD unit: All effluents recycled & reused) | pH: 7.2<br>TSS: 5.09 mg/litre<br>BOD: 4.95 mg/litre<br>COD: 46.83 mg/litre<br>Oil & Grease: 0.54 mg/litre<br>Iron(as Fe): 0.23 mg/litre<br>Fluoride(as F): 0.83 mg/litre |  |
|     |  | PM: 818 kg/day/Boiler (Approx.)<br>(Total 10 Numbers of Boilers)  | PM (mg/Nm3)<br>Annual Average: -92.728   |  |

**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 (2020 - 2021) | During the current financial year (2021 - 2022) |
| 1 | From Process (Used Oil)           | Nil  | 54.95 MT  |
| 2 | From Pollution control Facilities | Nil  | Nil   |

**PART-E  
SOLID WASTES**

|                    | Solid wastes   | Total Quantity   |  |
|--------------------|--|--|--|
|                    |  | During the previous financial year (2020 - 2021)                                   | During the current financial year (2021 - 2022)  |
| a<br>b             |  | Fly ash & Bottom ash (MT)  | Coal mill rejects (MT)   |
|                    | From Process<br>From Pollution control Facilities                    | 1504059<br>1501365   | 5148.72<br>4131.4  |
| c(1)<br>(2)<br>(3) | Quantity recycled or reutilized within the unit.<br>Sold<br>Disposed | 15028.44<br>Nil<br>Bottom ash to Ash Pond.<br>Fly ash supplied to cement companies | 19589.94<br>Nil<br>Back filling of low lying areas.<br>Nil<br>Bottom ash to Ash Pond.<br>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 1301175.66 MT  
We have utilized 39114 MT in Brick Plant(Renusagar+ Outside), 1104940 MT to Cement companies, 303437 MT to Road projects & low lying areas  
Excess 146312 MT ash utilized was taken out from 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 2021 -22 is 5373568 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**

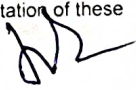
**Additional measures/ investment proposal for environmental protection abatement of pollution,prevention of Pollution.**

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)**  
Dy Manager (Environment)