

ADITYA BIRLA



Ref. No. Env/ES/ 082
The Member Secretary,
U.P. Pollution Control Board,
T.C.-12V, Vibhuti Khand,
Gomti Nagar
LUCKNOW (U.P.) – 226 010

Date: 23.09.2017

Sub: Environmental Statement for FY: 2016 – 17

Dear Sir,

Enclosed herewith please find Environmental Statement of our Plant for the financial year ending 31st March, 2017 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)


(Lalit Pal)

Head(Safety & Env)

Encl: As above.

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

CC: The Cess Officer,
U.P. Pollution Control Board,
Picup Bhawan, Vibhuti Khand,
'B' Block, 3rd Floor
Gomti 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
District - Sonbhadra (U.P.)
Pin Code 231 218

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REGISTERED OFFICE:
Century Bhavan, 3rd Floor, Dr. Annie Besant Road,
Worli, Mumbai-400 030
E-mail: hindalco@adityabirla.com
Website : www.hindalco.com
Corporate Identity No: L27020MH1958PLC011238
Telephone : +91 22 6662 6666

FORM-V
(See Rule 14)

Environmental Statement for the Financial Year ending the 31st March 2017

PART-A

i	Name and address of the Owner/Occupier of the industry, operation or process.	:	Lalit Mohan Pal Head(Safety & Env.) 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-Units	:	Electricity Generation-820 MW
iv	Year of Establishment	:	1967
v	Date of last Environmental Statement submitted	:	22.09.2016

PART-B

Water and Raw Material Consumption

i	Water consumption M ³ /day	:	*53601.537 KL/Day
	Process	:	1673.381 KL/Day
	Cooling	:	42931.622 KL/Day
	Domestic	:	8996.534 KL/Day
	*Excluding reuse water		

Name of Products	Process water consumption per unit of product output	
	During the previous financial year : (2015 - 2016)	During the current financial year (2016 - 2017)
	(1)	(2)
1.Electricity	21.49 Gal/MWh	20.08 Gal/MWh

ii **Raw Material Consumption**

Name of raw materials	Name of Products	Consumption of raw material per unit of output	
		During the previous financial year (2015 - 2016)	During the current financial year (2016 - 2017)
	Electricity		
Coal		0.728 kg/KWh	0.732 kg/KWh
Water		687.576 Gal/MWh	643.217 Gal/MWh
HSD		0.444 ml/KWh	0.414 ml/KWh
Furnace Oil(HFO)		NIL ml/KWh	0.002 ml/KWh
Oil&Lubricants		0.019 litre/MWh	0.015 litre/MWh
Grease		3.176 gram/MWh	1.380 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)	Pollutants	Quality of Pollutants discharged (mass/day)	Concentration of Pollutants discharged (mass/volume)	Percentage of variation from prescribed standards with reasons
(a)	Water (Maximum permissible quality)	28,041 KL/Day (No discharge, entire quantity recycled & reused)	Sewage Treatment Plant pH :7.1 - 7.3 TSS:7.0 - 13.0 mg/litre BOD:2.8 - 3.6 mg/litre COD:27.0- 35.0 mg/litre Oil & Grease:Traces Residual chlorine:0.3 mg/litre Iron(as Fe):0.21 - 0.23 mg/litre Fluoride(as F):0.97 - 1.10 mg/litre Effluent Treatment Plant pH :7.9 - 8.2 TSS:7.0 - 16.0 mg/litre BOD:4.9 - 6.3 mg/litre COD: 44 - 54.0 mg/litre Oil & Grease:Traces Residual chlorine:0.2 - 0.3mg/litre Iron(as Fe):0.21 - 0.23 mg/litre Fluoride(as F): 1.5 - 1.7 mg/litre	Not exceeding the permissible limit.
(b)	Air	0.82 tonnes/day/Boilers.(Approx.) (Total 10 Numbers of Boilers)	PM (mg/Nm3) Annual Average. -94.483	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 (2015 - 2016)	During the current financial year (2016 - 2017)
1	From Process(Used Oil)	*50049 kg	*46570 kg
2	From Pollution control Facilities	Nil	Nil

* Used Oil sent to Authorised Recyclers for recycling.

**PART-E
SOLID WASTES**

	Solid wastes	Total Quantity			
		During the previous financial year (2015 - 2016)		During the current financial year (2016 - 2017)	
		Fly ash & Bottom ash (MT)	Coal mill rejects (MT)	Fly ash & Bottom ash (MT)	Coal mill rejects (MT)
a	From Process	1786384	8525.20	1761415	7651.40
b	From Pollution control Facilities	1783391		1758422	
c(1)	Quantity recycled or reutilized within the unit.	0.968 % (Fly ash)	Back filling of low lying areas.	9.06 % (Fly ash)	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 supplied to cement companies	

Overall Quantity of ash utilized in the Financial Year 2016-2017 - 62.44 %

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 thus there is no waste disposal. Solid waste generated are ash and coal mill rejects only. Ash quantity generated as waste is 1761415 MT and coal mill reject is 7651.4 MT.

The Fly ash supplied to Cement Industries and balanced ash is disposed off in the form of slurry to ash pond and coal mill reject are used for back filling of low lying area.

PART – G

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

Monthly drawal of water from Reuse Pond, STP, ETP and Ash Water Recovery Plant in the year 2016 - 2017 is 9,511,870 KL as compared to 10,969,852 KL in the year 2015-2016.

Voluntary afforestation is being carried out which helps in preservation of Bio-reserves.

PART – H

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

More afforestation is under process.

PART – I

Any other particulars for improving the quality of the environment.

For environmental protection all steps are being taken and in future also consistence efforts will be made.


(Lalit Mohan Pal)
Head (Safety & Env.)