



Acknowledgement Copy
GPCB Bharuch

To,
The Member Secretary,
Gujarat Pollution Control Board,
Paryavaran Bhavan,
Sector 10-A,
Gandhinagar-382010

Date: 18th June 2024

Letter No: HIL/BC/ENV/III/15178/2024-25/20

Sub: Submission of Hazardous Waste Returns in Form-4 as per The Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016 for M/s Hindalco Industries Limited, Unit: Birla Copper for FY: 2023-24

Dear Sir,

With respect to cited subject, we are enclosing here with the hazardous waste returns in Form- 4 for different types of waste generated & stored as per The Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016, for the period of April '2023 to March '2024.

Thanking you,
Yours faithfully,

For HINDALCO INDUSTRIES LTD.
(Unit: Birla Copper), Dahej


Sanghamitra Mishra
HOD (Environment)


Post Received
Gujarat Pollution Control Board
BHARUCH

CC: 1. The Regional Officer, GPCB, Bharuch-392015
2. The Environment Engineer, Hazardous Waste Management Division, GPCB, Gandhinagar-382010

Registered Office

21st Floor, One International Center, Tower 4 , Prabhadevi, Near Prabhadevi Railway Station , Senapati Bapat Marg, Mumbai 40013,
Telephone : + 91 22 66626666 Fax: +91 22 24227586
Corporation Identity Number : L27020MH1958PLC011238, E-Mail ID: hildalco@adityabirla.com

HINDALCO INDUSTRIES LIMITED
(UNIT : BIRLA COPPER)

PO: Dahej, Dist: Bharuch
Gujarat – 392 130 (India)

Telephone: +91 2641256004-6

Fax: +91 2641 251002-3

Website www.hindalco.com

FORM 4
[See rules 6(5), 13(8), 16(6) and 20 (2)]

FORM FOR FILING ANNUAL RETURNS
(For the period of April-2023 to March-2024)
[To be submitted to State Pollution Control Board by 30th day of June
of every year for the Preceding period April to March]

1. Name and address of facility :

M/s. HINDALCO INDUSTRIES LTD.
(UNIT: BIRLA COPPER)
AT & PO DAHEJ, LAKHIGAM
TAL: VAGRA DIST. BHARUCH- 392 130

2. Authorization No. and Date of issue:

Air, Water & Hazardous waste Authorization No. & Consent Order No. AWH-108216
CC & A No : GPCB/BRCH-B-CCA-310(19)/ID-15178/568901 / date of issue 30/09/2020
Amendment No. GPCB/BRCH-B-CCA-310(21)/ID-15178/683403 / date of issue 16/09/2022
Amendment No. GPCB/BRCH-B-CCA-310(21)/ID-15178/687568 / date of issue 03/11/2022
Amendment No. GPCB/BRCH-B-CCA-310(23)/ID-15178/758268 / date of issue 07/11/2023
Amendment No. GPCB/BRCH-B-CCA-310(23)/ID-15178/797233 / date of issue 26/03/2024

3. Name of the authorized person and full address with telephone, fax number and e-mail:

Name of Authorized Person: Sanghamitra Mishra
Designation: HOD (Environment)
Address: HINDALCO INDUSTRIES LTD.
UNIT: BIRLA COPPER
AT & PO DAHEJ, LAKHIGAM
TAL: VAGRA DIST. BHARUCH- 392 130
Telephone No. TEL.:02641-256004-6,
Fax No. FAX: 2641-251002-3 and
E - mail: sanghamitra.s.mishra@adityabirla.com

4. Production during the year (product wise), wherever applicable.

Sr. No.	Name of Product	Production during Year 2023-24(MT)
1.	Copper Cathode	368103
2.	Sulphuric Acid	987748
3.	Oxygen (Tech)	441639
4.	Gold	15.001
5.	Silver	73.709
6.	CC Rod	282856
7.	Phosphoric Acid	0
8.	DAP/NPK Fertilizer	0
9.	Electric Power (MWH)	465785

10.	Copper wire (< 4mm dia)	0
Sr. No.	Name of By- Product	Production during Year 2023-24(MT)
1.	Selenium	32.980
2.	PGM Concentrate	0.3271
3.	Granulated Slag	716738
4.	Phosphogypsum	Nil
5.	Hydrofluosilic acid	Nil
6.	Aluminium Fluoride	Nil

Part A

To be filled by hazardous waste generators

1. Total quantity of waste generated category wise

Sr. No.	Name of Waste	Category	Quantity of waste generated. Year 2023-24 (MT)
1.	ETP waste sludge & Scrubber waste (Sludge & Filter cake)	I/35.3	109793
2.	Arsenic bearing sludge, As-Cu precipitate	I-7.3	30.23
3.	Used oil	I-5.1	21.95
4.	Spent Electrolyte solution (KL)	I-8.1	42119
5.	Residue dust from SAP	I-17.1	0.0
6.	Spent catalyst (KL)	10/IV	87.63
7.	Used Empty Drums (Empty barrels / Containers / liners contaminated with hazardous chemicals / wastes)	I-33.1	43.88
8.	Flue gas cleaning residue (Exhaust Air or Gas cleaning residue)	I-35.1	481.97
9.	Spent resin from DM plant (Spent ion exchange resin containing toxic metals)	I-35.2	0.0
10.	Selenium & selenium compounds.	II-A8	0.0
11.	Silver compounds.	III-A9	0.0
12.	Inorganic Acid (Spent Acids)	II-B15	0.0
13.	Dust & Lumpy (Copper reverts ,cake and residue)	IV-4	29091.28
14.	Copper Converting (C-Slag)	IV-6	9299.93
15.	Liberator cake	IV-4	1414.97

16.	Copper Revert	IV-4	53157.56
17.	Dore Slag (Slags from copper processing for further processing or refining)	IV-6	1232.93
18.	Lead Anode / Cathode	17/VI	95.65
19	Contaminated cotton rags or other cleaning materials	I/33.2	13.61
20	Used Insulation	A 2050	220.56
21	Discarded PPE (Rubber)	B 3040 Part B/III	32.81
22	Used membrane/ Filter cloth and bags	I-35.1	49.04
23	SWRO clarifier sludge	I-35.3	Nil
24	Thermal plant Evaporation sludge	I-35.3	1342.46

2. Quantity dispatched

(i) To disposal facility: (Captive SLF site/Common TSDF site)

Sr. No.	Name of Waste	Quantity of waste disposal at own SLF site Year 2023-24(MT)	Quantity of waste disposal at Common TSDF site Year 2023-24(MT)
1.	ETP waste sludge & Scrubber waste	104467	Nil
2.	Spent resin from DM plant	Nil	Nil
3.	Used membrane/ Filter cloth and bags	Nil	49.04
4.	Used Insulation	Nil	149.52
5.	Thermal plant Evaporation sludge	Nil	1342.46
6.	SWRO clarifier sludge	Nil	Nil

(ii) To recycler or co-processors or pre-processor:

Sr.No.	Name of Waste	Quantity of waste to recycler or co-processors or pre-processor Year 2023-24 (MT)
1.	Used oil	21.95
2.	Used Empty Drums (Empty barrels/ Containers/ liners contaminated with hazardous chemicals/ wastes)	43.88
3.	Spent catalyst (KL)	87.63
4.	Dust & Lumpy (Copper reverts, cake and residue)	6825.72
5.	Copper Converting (C-Slag)	8616.930
6.	Liberator cake (Copper reverts, cake and residue)	1587.77
7.	Dore Slag (Slags from copper processing for further processing or refining)	1189.76
8.	Lead Anode / Cathode	95.65
9.	ETP waste sludge (Coproprocessing)	5326

(iii) Others: (Common Incineration facility)

Sr. No.	Name of Waste	Quantity of others Year 2023-24
1.	Contaminated cotton rags or other cleaning materials (MT)	19.45
2.	Used Insulation (MT)	71.04

3. Quantity utilized in-house, if any –

Sr. No.	Name of Waste	Quantity of waste utilized in-house. Year 2023-24 (MT)
1.	Spent Electrolyte solution (KL) (Treated in house in ETP)	42119.00
2.	Arsenic bearing sludge, As-Cu precipitate	30.23
3.	Residue dust from SAP	Nil
4.	Flue gas cleaning residue	481.97
5.	Selenium & Selenium compounds	Nil
6.	Silver compounds	Nil
7.	Dust & Lumpy	16640.90
8.	Copper Converting (C-Slag)	4793.76
9.	Liberator cake	2699.25
10.	Copper Revert	54496.85
11.	Dore slag	48.49

4. Quantity in storage at the end of the year –

Sr. No.	Name of Waste	Quantity of waste storage at the end of the Year 2023-24 (MT)
1.	Copper Revert	689.23
2.	Dust & Lumpy	29311.24
3.	Copper Converting or C-Slag	18178.41
4.	Liberator cake	2397.53
5.	Dore Slag	136.08

Part B

To be filled by Treatment, storage, and disposal facility operators

1. Total quantity received NA
2. Quantity in stock at the beginning of the year -NA
3. Quantity treated NA
4. Quantity disposed in landfills as such and after treatment –NA
5. Quantity incinerated (if applicable) -NA
6. Quantity processed other than specified above -NA
7. Quantity in storage at the end of the year –NA

Part C

To be filled by recyclers or co-processors or other users

1. Quantity of waste received during the year –NA
 - (i) domestic sources –NA
 - (ii) imported (if applicable) –NA
2. Quantity in stock at the beginning of the year -NA
3. Quantity recycled or co-processed or used NA
4. Quantity of products dispatched (wherever applicable) –NA
5. Quantity of waste generated NA
6. Quantity of waste disposed NA
7. Quantity re-exported (wherever applicable)-NA
8. Quantity in storage at the end of the year -NA

For M/s Hindalco Industries Ltd.

Unit: Birla Copper, Dahej



**Ms. Sanghamitra Mishra
(HOD Environment)**

Signature of the Occupier or
Operator of the disposal facility

Date: **15th** June-2024

Place: Dahej