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HINDUSTAN ZINC
Zinc & Silver of India

HZL/CLZS/2024/53/2024-25

28.09.2024

Member Secretary,
Rajasthan State Pollution Control Board,
4th Jhalana Institutional Area,
Jaipur - 302004

**Sub: Environment Statement for the year 2023-24 for Chanderiya Lead Zinc Smelter,
Chittorgarh (Rajasthan)**

Ref: Consent Letters No.;

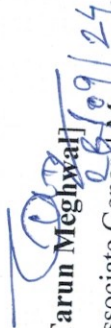
- 1. CTO Pyro Plant - F(HDF)/Chittorgarh (Gangrar)/1(1)/2019-2020/1091-1093** dated 8.06.2020
- 2. CTO Ausmelt Lead Plant - F(HDF)/Chittorgarh (Gangrar)/1(1)/2019-2020/1077-1079** dated 5.06.2020
- 3. CTO Hydro 1 & 154 MW CPP-** F(HDF)/Chittorgarh/(Gangrar)/1(1)/2019-2020/3750-3753 dated 16.01.2020 & its expansion F(HDF)/Chittorgarh/(Gangrar)/2(1)/2020-2021/6177-6119 dated 26.03.2021
- 4. CTO Hydro 2 & 100 MW CPP-** F(CPM)/Chittorgarh/(Gangrar)/(2)1/2016-2017/3302-3305 dated 18.12.2019 & its expansion F(HDF)/Chittorgarh/(Gangrar)/2(1)/2020-2021/6120-6122 dated 26.03.2021.

Sir,

Please find enclosed the Environment Statement for the year 2023-24 for Chanderiya Lead Zinc Smelter Unit, Chittorgarh Rajasthan.

Thanking you,

Yours faithfully,
For Hindustan Zinc Limited


[Tarun Meghwal]
Associate General Manager & Head Environment
Chanderiya Lead Zinc Smelter

Cc:

The Regional Officer,
Rajasthan State Pollution Control Board,
Near FCI Godawn, Chanderiya, Chittorgarh – 312001

Hindustan Zinc Limited

Registered Office
Yashad Bhawan, Udaipur-313 004, Rajasthan, INDIA.
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CIN: L27204RJ1966PLC001208

Chanderiya Lead Zinc Smelter
P.O. Putholi, Chittorgarh-312021,
Rajasthan, INDIA.



ENVIRONMENT STATEMENT
FOR
THE

YEAR 2023-2024

FOR

**CHANDERIYA LEAD ZINC
SMELTER**

CHITTORGARH



HINDUSTAN ZINC
Zinc & Silver of India

ENVIRONMENT STATEMENT FOR THE YEAR 2023-2024

FORM – V (See Rule- 14)

PART – A

(1)	Name and address of the owner/occupier of the industry, operation and process	Sh. Arun Misra Chief Executive Officer Hindustan Zinc Limited, Udaipur Rajasthan 313004
(2)	Industry Category	Red/Large
	Primary (STC)	F.LRJ-17425 SL NO.20120 of Industrial (Development & Regulation Act 1951) IDR 157(91)15.07.1991
(3)	Secondary (SIC)	--
	Production capacity	PYRO PLANT
	A. Zinc	105,000 MTPA
	B. Lead	35,000 MTPA
	C. Silver	74 MTPA
	D. Copper/Copper Sulphate	2100 MTPA
	E. Sulphuric Acid	1,76,000 MTPA
	F. Cadmium	375 MTPA
	G. Zinc Rich Dust	---
		20 MTPD
	A. Zinc	Hydro I&154 MW CPP
	B. Sulphuric Acid	2,52,000 MTPA
	C. Cadmium Sponge	307774 MTPA
	D. Copper Cement	680 MTPA
	E. Low grade Lead Con.	510 MTPA
	F. Power	30,000 MTPA
	G. Calomel	154 MW
	H. Sodium Chloride	20 MTPA
	I. Sodium Sulphate	250 MTPA
(4)	Year of establishment	1250 MTPA
		1250 MTPA
		PYRO
		HYDRO I
		AUSMELT
		HYDRO II
(5)	Date of last Statement submitted	1990-91 2003-04 2004-05 2006-07 20.09.2023

PART – B Water and Raw Material consumption

1. Water consumption m³/d for entire location for 2023-2024 (including colony)

Process, cooling & domestic (factory) = 27463 m³/day
Domestic (Zinc Colony) = 389 m³/day
Total = 27852 m³/day

- Pyro & Ausmelt Plant – Water Consumption

Name of product	Process Water consumption per unit of product output, M ³ /MT	
	2022-2023	2023-2024
Furnace metal	10.59	10.63

- Hydro Plant Phase I- Water consumption

Name of product	Process Water consumption per unit of product, M ³ /MT	
	2022-2023	2023-2024
Zn Ingots	4.03	4.18

- Hydro Plant Phase II - Water consumption

Name of product	Process Water consumption per unit of product, M ³ /MT	
	2022-2023	2023-2024
Zn Ingots	8.68	9.47

- Captive Power Plant –Water Consumption

Name of product	Process Water consumption per unit of product, M ³ /MWH	
	2022-2023	2023-2024
Power (Electricity)	2.25	2.31

2. Raw material consumption

- Raw material consumption –Pyro + Ausmelt Plant

Name of raw material	Name of Product	Consumption of Raw material per unit of output During 2022-23	Consumption of Raw material per unit of output During 2023-24
Zinc concentrate	Zinc	1.99	2.10
Lead concentrate	Lead	1.58	1.84

- Raw material consumption -Hydro I

Name of raw material	Name of Product	Consumption of Raw material per unit of output (excluding Calcine)	
		2022-2023	2023-2024
Zinc concentrate	Zinc	1.46	1.43

- Raw material consumption -Hydro II

Name of raw material	Name of Product	Consumption of Raw material per unit of output - (excluding Calcine)	
		2022-2023	2023-24
Zinc concentrate	Zinc	1.19	1.30

PART – C
Discharge to environment /unit of output
(Specified if the consent issued)

Pollutants	Concentration of pollutants in discharge (mass/volume)	Percentage of variation from prescribed standards with
Water	Zero discharge is maintained	Zero discharge is maintained
Air (Stack Emission)	Report is attached as per annexure I	No Variation Except CPP SO ₂

- Annexure I - Stack Emissions (PM, SO₂, NO_x), year **2023-2024**
- Annexure II- Ambient Air Emission inside Plant, year **2023-2024**
- Annexure III - Ambient Air Emission nearby Villages, year **2023-2024**
- Annexure IV- Ambient Noise Emission – Plant, year **2023-2024**
- Annexure V - Form No. 4, year **2023-2024**
- Annexure VI A- HW Authorization for entire location
- Annexure VI B- Additional HW Authorization for entire location

PART – D

HAZARDOUS WASTES

(As specified under Hazardous Waste Management & Handling and Transboundary and other waste rules, 2016)
(UNIT –MTA)

1. From Process-

S. No	Type of Hazardous Waste	Category		Generation/ Sale/Disposal	2022- 2023	2023- 2024
		Sch	Code		MTA	MTA
1	Spent Catalyst	I	17.2	Generation Sale	19.37 12.08	24.24 0
2	Empty barrels/containers contaminated with hazardous chemical/waste	I	33.1	Disposal/Reuse Generation Sale	7.29 145 0	24.24 1103 0
3	Used or spent oil	I	5.1	Disposal/Reuse Generation Sale	145 58.97 60.77	1103 55.72 54.28
4	Waste Oil	I	5.2	Disposal/Reuse Generation Sale	2.05 0 0	0.99 0 0
5	Anode Mud	I	7.2	Disposal/Reuse Generation Sale	0 188.386 188.387	0 93.184 76.125
6	Antimony Dross	I	7.2	Disposal/Reuse Generation Sale	0 888 868.69	17.06 915 860.61

7	Cobalt Cake	I	7.2	Generation Sale	0 0	64.00
8	Cooler Cake	I	7.2	Disposal/Reuse Generation Sale	0 5843.98 0	0 5811.61 0
9	Copper Bearing lead residue/process residue	I	7.2	Disposal/Reuse Generation Sale	5843.98 10858.767 10858.767	5811.61 10783.245 3967.048
10	Enrichment Cake	I	7.2	Disposal/Reuse Generation Sale	0 3867 4120.55	6816.2 2901 883.08
11	HGP Dust	I	7.2	Disposal/Reuse Generation Sale	0 4705.48 2231.28	1989.27 2445.03 870.16
12	Purification Cake	I	7.2	Disposal/Reuse Generation Sale	2238 3733.26 3782.7	1550.21 3618.63 1743.52
13	Mercury and mercury compounds	II	A6	Disposal/Reuse Generation Sale	0 0 0	1871.36 0 0
				Disposal/Reuse	0	0

2. From pollution Control facilities

S. No	Type of Hazardous Waste	Category		Generation/ Sale/Disposal	2022- 2023 MTA	2023- 2024 MTA
		Sch	Code			
1	Non-Ferrous Sludge from ETP and scrubbers (ETP Sludge)	I	7.4	Generation Sale	12306.57 338.46	12973.09 302.89
2	Water Purification Resin	I	34.2	Disposal/Reuse Generation Sale	11968.11 0 0	12670.20 0 0
3	Exhaust Air or Gas cleaning residue	I	35.1	Disposal/Reuse Generation Sale	0 0 0	0 0 0
4	Spent ion exchange resin containing toxic metals	I	35.2	Disposal/Reuse Generation Sale	0 0 0	0 0 0
5	Ash from incinerator and flue gas cleaning residues (bag filters)	I	37.2	Disposal/Reuse Generation Sale	0 1.89 0	0 1.50 0
				Disposal/Reuse	1.89	1.50

PART – E

SOLID WASTE

S.No	Type of Non- Hazardous Waste	Category	Generation/ Sale/Disposal	2022-2023 MTA	2023-2024 MTA
1	Jarofix	Non-Hazardous	Generation	395058	390213
			Sale (in Highway)	140818.862	80417
			Sale (JS in Cement)	4222.15	24564
			Disposal/Reuse	395058	390213
2	ISF Slag		Generation	88783.29	71976.03
			Sale	6853.31	21296.32
			Disposal/Reuse	221.77	4163.00
3	Ausmelt Slag		Generation	27896	28361.94
			Sale	120.15	2702.16
			Disposal/Reuse	21027.53	43983.33
4	Fly Ash		Generation	154994.41	201208.75
			Sale	154994.41	201208.75
			Disposal/Reuse	0	0
			Generation	36506.5	75468.56
			Sale	36506.5	75468.56
5	Bottom Ash		Disposal/Reuse	0	0

PART – F

(Please specify the characteristics, in terms of composition and quantum of Hazardous waste and solid waste and indicate disposal practice for both of these categories of wastes)

• Hazardous waste:

S. No.	Type of Hazardous waste	Chemical characteristics	Category Sch	Code	Hazardous Waste Disposal Practice
1	Spent catalyst	V ₂ O ₅ - 3-4%	I	17.2	SLF/Sold to registered recycler
2	Anode Mud	Zn – 0.3 - 1 % Pb – 2.5 -5 % Mg – 42-45 %	I	7.2	SLF/Sold to registered recycler
3	Antimony Dross	—	I	7.2	SLF/Sold to registered recycler
4	Cobalt cake	Zn-30-35% Pb-0.2-0.3%	I	7.2	SLF/Sold to registered recycler
5	Cooler cake	Zn-0.5-0.6% Pb-0.05-0.06 %	I	7.2	SLF/Sold to registered recycler
6	Copper bearing lead residue/process residue	—	I	7.2	SLF/Sold to registered recycler

7	Enrichment cake	Zn-20-25 % Cd-35-50% Cu-5-10%	I	7.2	SLF/Sold to registered recycler
8	HGP Dust	—	I	7.2	SLF/Sold to registered recycler
9	Purification Cake	Zn-20-25 % Cd-35-50% Cu-5-10%	I	7.2	SLF/Sold to registered recycler
10	Non-Ferrous Sludge from ETP and scrubbers	—	I	7.4	SLF/Sold to registered recycler
11	Mercury and Mercury compounds	—	II	A6	SLF/Sold to registered recycler
12	Zinc Dross/Zinc Ash/Zinc Skimming/Zinc Scrap/Zinc Residue	—	IV	...	Used as raw material
13	Empty barrels/containers contaminated with hazardous chemicals/wastes	—	I	33.1	SLF/Sold to registered recycler
14	Water Purification Resin	—	I	34.2	SLF/Sold to registered recycler
15	Exhaust Air or Gas cleaning residue	—	I	35.1	Approved Incinerator
16	Spent ion exchange resin containing Toxic metals	—	I	35.2	SLF/Sold to registered recycler
17	Ash from incinerator and flue gas cleaning residues	—	I	37.2	SLF/Sold to registered recycler
18	Used or spent oil	—	I	5.1	Sold To registered recycler
19	Waste Oil	—	I	5.2	Sold To registered recycler

• Solid waste:

S. No.	Type of Non- Hazardous Waste	Chemical characteristics	Disposal Practice
1	Jarofix	Zn-3-5 % Pb- 1-2 % Fe- 22-28 %	Utilization in cement industries and highways project/Disposed off to Jarofix yard landfill
2	ISF Slag	SiO ₂ - 18.08 % Fe ₂ O ₃ - 34.28 % Al ₂ O ₃ - 8.17 %	Utilization in cement industries and highways project/Reuse in process
3	Ausmelt Slag	—	Reuse in process
4	Fly Ash	—	Utilization in cement industries
5	Bottom Ash	—	Utilization in cement industries/Brick manufacturing industries

PART – C
Discharge to environment /unit of output
(Specified if the consent issued)

Pollutants	Concentration of pollutants in discharge (mass/volume)	Percentage of variation from prescribed standards with
Water	Zero discharge is maintained	Zero discharge is maintained
Air (Stack Emission)	Report is attached as per annexure I	No Variation Except CPP SO ₂

- **Annexure I** - Stack Emissions (PM, SO₂, NO_x), year **2023-2024**
- **Annexure II**- Ambient Air Emission inside Plant, year **2023-2024**
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- **Annexure V** - Form No. 4, year **2023-2024**
- **Annexure VI A**- HW Authorization for entire location
- **Annexure VI B**- Additional HW Authorization for entire location

PART – D

HAZARDOUS WASTES

(As specified under Hazardous Waste Management & Handling and Transboundary and other waste rules, 2016)
(UNIT –MTA)

1. From Process-

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		Sch	Code			
1	Spent Catalyst	I	17.2	Generation	19.37	24.24
				Sale	12.08	0
				Disposal/Reuse	7.29	24.24
2	Empty barrels/containers contaminated with hazardous chemical/waste	I	33.1	Generation	145	1103
				Sale	0	0
				Disposal/Reuse	145	1103
3	Used or spent oil	I	5.1	Generation	58.97	55.72
				Sale	60.77	54.28
				Disposal/Reuse	2.05	0.99
4	Waste Oil	I	5.2	Generation	0	0
				Sale	0	0
				Disposal/Reuse	0	0
5	Anode Mud	I	7.2	Generation	188.386	93.184
				Sale	188.387	76.125
				Disposal/Reuse	0	17.06
6	Antimony Dross	I	7.2	Generation	888	915
				Sale	868.69	860.61

7	Cobalt Cake	I	7.2	Disposal/Reuse Generation	0	64.00
				Sale	0	0
8	Cooler Cake	I	7.2	Disposal/Reuse Generation	0	0
				Sale	5843.98	5811.61
9	Copper Bearing lead residue/process residue	I	7.2	Disposal/Reuse Generation	0	0
				Sale	5843.98	5811.61
10	Enrichment Cake	I	7.2	Disposal/Reuse Generation	10858.767	10783.245
				Sale	10858.767	3967.048
11	HGP Dust	I	7.2	Disposal/Reuse Generation	0	6816.2
				Sale	3867	2901
12	Purification Cake	I	7.2	Disposal/Reuse Generation	4120.55	883.08
				Sale	0	1989.27
13	Mercury and mercury compounds	II	A6	Disposal/Reuse Generation	4705.48	2445.03
				Sale	2231.28	870.16
				Disposal/Reuse Generation	2238	1550.21
				Sale	3733.26	3618.63
				Disposal/Reuse Generation	3782.7	1743.52
				Sale	0	1871.36
				Disposal/Reuse Generation	0	0
				Sale	0	0
				Disposal/Reuse	0	0

2. From pollution Control facilities

S. No	Type of Hazardous Waste	Category		Generation/ Sale/Disposal	2022- 2023 MTA	2023- 2024 MTA
		Sch	Code			
1	Non-Ferrous Sludge from ETP and scrubbers (ETP Sludge)	I	7.4	Generation	12306.57	12973.09
				Sale	338.46	302.89
2	Water Purification Resin	I	34.2	Disposal/Reuse	11968.11	12670.20
				Generation	0	0
				Sale	0	0
3	Exhaust Air or Gas cleaning residue	I	35.1	Disposal/Reuse	0	0
				Generation	0	0
				Sale	0	0
4	Spent ion exchange resin containing toxic metals	I	35.2	Disposal/Reuse	0	0
				Generation	0	0
				Sale	0	0
5	Ash from incinerator and flue gas cleaning residues (bag filters)	I	37.2	Disposal/Reuse	0	0
				Generation	1.89	1.50
				Sale	0	0
				Disposal/Reuse	1.89	1.50

PART – E

SOLID WASTE

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4	Fly Ash		Disposal/Reuse	21027.53	43983.33
			Generation	154994.41	201208.75
			Sale	154994.41	201208.75
5	Bottom Ash		Disposal/Reuse	0	0
			Generation	36506.5	75468.56
			Sale	36506.5	75468.56
			Disposal/Reuse	0	0

PART – F

(Please specify the characteristics, in terms of composition and quantum of Hazardous waste and solid waste and indicate disposal practice for both of these categories of wastes)

- Hazardous waste:

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			Sch	Code	Disposal Practice
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2	Anode Mud	Zn – 0.3 - 1 % Pb – 2.5 -5 % Mg – 42-45 %	I	7.2	SLF/Sold to registered recycler
3	Antimony Dross	—	I	7.2	SLF/Sold to registered recycler
4	Cobalt cake	Zn-30-35% Pb-0.2-0.3%	I	7.2	SLF/Sold to registered recycler
5	Cooler cake	Zn-0.5-0.6% Pb-0.05-0.06 %	I	7.2	SLF/Sold to registered recycler
6	Copper bearing lead residue/process residue	—	I	7.2	SLF/Sold to registered recycler

7	Enrichment cake	Zn-20-25 % Cd-35-50% Cu-5-10%	I	7.2	SLF/Sold to registered recycler
8	HGP Dust	—	I	7.2	SLF/Sold to registered recycler
9	Purification Cake	Zn-20-25 % Cd-35-50% Cu-5-10%	I	7.2	SLF/Sold to registered recycler
10	Non-Ferrous Sludge from ETP and scrubbers	—	I	7.4	SLF/Sold to registered recycler
11	Mercury and Mercury compounds	—	II	A6	SLF/Sold to registered recycler
12	Zinc Dross/Zinc Ash/Zinc Skimming/Zinc Scrap/Zinc Residue	—	IV	...	Used as raw material
13	Empty barrels/containers contaminated with hazardous chemicals/wastes	—	I	33.1	SLF/Sold to registered recycler
14	Water Purification Resin	—	I	34.2	SLF/Sold to registered recycler
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18	Used or spent oil	—	I	5.1	Sold To registered recycler
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• Solid waste:

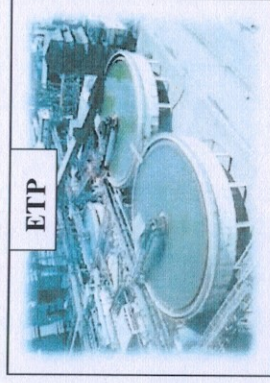
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3	Ausmelt Slag	—	Reuse in process
4	Fly Ash	—	Utilization in cement industries
5	Bottom Ash	—	Utilization in cement industries/Brick manufacturing industries

Part -G

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

1. Water Conservation

- ETP, RO and MVR are installed to treat the effluent. Treated water is being recycled in process.
- STP treated water is being used in gardening.
- Zero Liquid discharge is being maintained.
- Flowmeters are installed for measuring recycled water.
- Preventive maintenance of all recycle/fresh water pipelines is being ensured to prevent losses due to spillage and leakages.
- Real time online analyzer is installed at ETP & STP for water quality monitoring.



2. To Maintain Ecological Balance

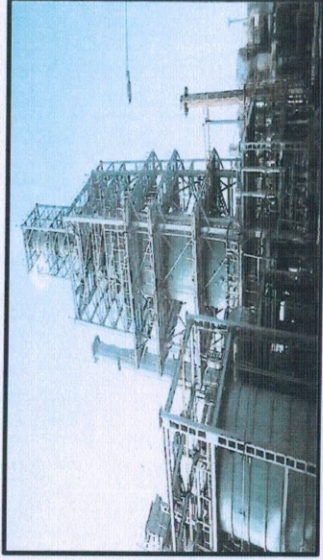
- The total green cover area within the boundaries of Chanderiya Lead Zinc Smelter land, combinedly with the newly acquired land is more than 33%.
- Regular maintenance with dedicated team and other resources is being done for existing green cover in factory area.
- Awareness program entitled conservation of natural resources and biodiversity organized for employees and their family on the occasion of International Biodiversity Day and World Environment Day.
- Green belt development on Jarofix yard-2.
- Scientific green capping of secured landfill-1 and 2.
- Dense greenery in and around the factory is being maintained.
- Preservation of trees and shrubs for providing better niche to animals.

Plantation- Biliya	Butterfly Garden
Jarofix yard-2	Scientific Green capping -SLF-1
Scientific Green capping -SLF-2	Miyawaki Plantation

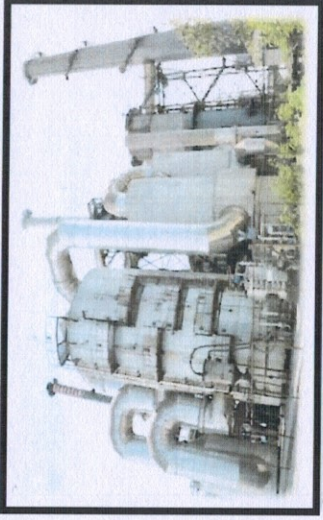
3. Air Quality Management

- Reduction of fugitive emission by regular sprinkling of water and by heavy duty vacuum cleaners.
- Avenue plantation has been ensured to reduce dust emission due to vehicular movement.
- Online analyzer for SO_x, NO_x & PM is installed and connected to PCB server. Interlock is available for PCDs.
- Bag filters, ESPs, venturi scrubbers are provided and are being operated efficiently.
- CAAQMS are installed at site for continuous monitoring of ambient air quality.

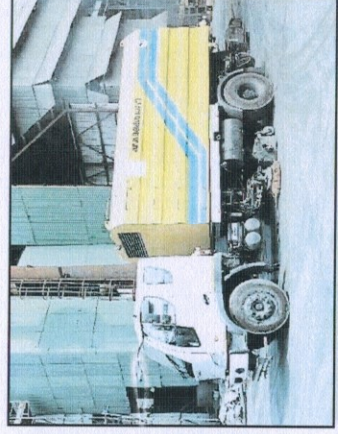
Tail Gas Treatment Plant



Double Conversion Double Absorption Acid (DCDA)



Road Sweeping by Vacuum Road Sweeper



CAAQMS



PART – H

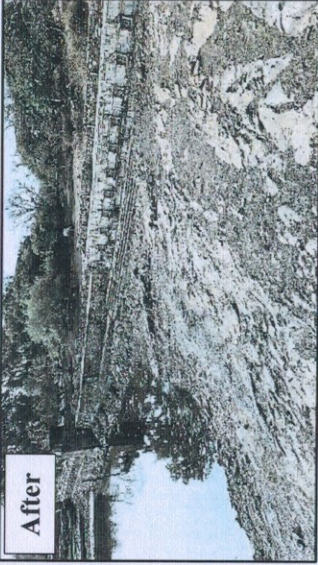
Additional measures/investment for environmental protection including abatement of pollution

- Organic Waste Converter is regularly operated at CLZS plant for utilization of kitchen waste to prepare manure.
- Utilization of Jarosite and Slag in cement industries.
- Gainful utilization of Jarofix and Slag in highway projects.

PART – I

Any other information on Environmental Protection and Pollution Control

- ESG committee has been established at site to have an integrated approach towards Sustainability and help to achieve HZL sustainability goals 2025.
- On the occasion of World Environment cloth bags were distributed to employees and Business partners.

1000 Bag Distribution on World Environment Day	Mass Plantation on World Environment Day
	
Fort Cleaning Activity	Fort Cleaning Activity
 Before	
 After	

Prize Distribution Ceremony- Best from Waste



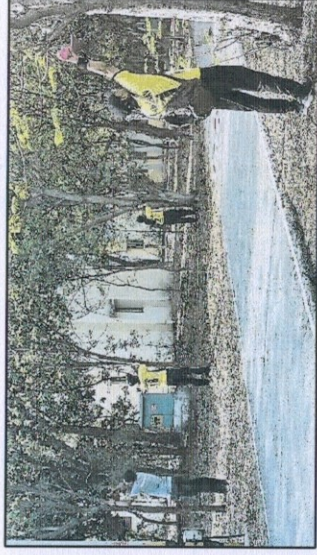
एक पेड़ माँ के नाम अभियान- Plantation Drive



Parinda Painting Competition



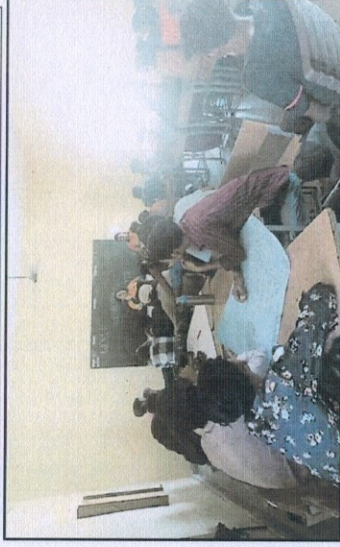
2000 Parinda Distribution



Community Interactions at Govt. School for WED



Awareness Session on Biodiversity



Awareness Session on ESG to School Children



Cricket Tournament between 10 industries in Chittorgarh



Best from Waste



Poster Making Competition



ANNEXURE-I

Acid Plant Stack report (All Units)			Stack Emission Level					Quarterly Monitoring Apr'2023 to Jun'2023			
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Reporting Date	Sampling Location	Parameters	Test Method	Results	Unit	Limit as per CTO
1	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-681/050623	03/06/2023	09/06/2023	PYRO Acid plant (TGT) Stack	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)2019	92.50	ppm	224 (Max) (2 kg/ton)
2		YES	EKO/E-671/010623	31/05/2023	05/06/2023	Ausmelt Consolve Acid Stack	Acid Mist	USEPA Method 8 2017	21.3	mg/Nm ³	50
3							Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)2019	93.2	ppm	224 (Max) (2 kg/ton)
4		YES	EKO/E-688/050623	02/06/2023	09/06/2023	Hydro -1 Acid Stack	Acid Mist	USEPA Method 8 2017	24.1	mg/Nm ³	50
							Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)2019	78.3	ppm	135 (Max.) (1 kg/ton)
						Hydro - 2 Acid Stack	Acid Mist	USEPA Method 8 2017	18.9	mg/Nm ³	30
							Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)2019	75.6	ppm	135 (Max.) (1 kg/ton)
							Acid Mist	USEPA Method 8 2017	17.3	mg/Nm ³	30

PYRO (PM & Pb) Stack Report			Stack Emission Level					Quarterly Monitoring Apr'2023 to Jun'2023			
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Reporting Date	Sampling Location	Parameters	Test Method	Results	Unit	Limit as per CTO
1	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-677/050623	01/06/2023	09/06/2023	ISF Slagging	Particular Matter (PM)	IS 11255 (Part-1)2019	36.2	mg/Nm ³	150 (Max.)
2		YES	EKO/E-678/050623	01/06/2023	09/06/2023	LRP Copper Drossing	Lead (as Pb)	Method of Air Sampling & Analysis:1988	2.55	mg/Nm ³	10 (Max.)
3							Particular Matter (PM)	IS 11255 (Part-1)2019	42.3	mg/Nm ³	150 (Max.)
4		YES	EKO/E-669/010623	30/05/2023	05/06/2023	LRP Main	Lead (as Pb)	Method of Air Sampling & Analysis:1988	2.15	mg/Nm ³	10 (Max.)
5							Particular Matter (PM)	IS 11255 (Part-1)2019	43.2	mg/Nm ³	150 (Max.)
6		YES	EKO/E-665/010623	27/05/2023	05/06/2023	Sinter Main	Lead (as Pb)	Method of Air Sampling & Analysis:1988	1.68	mg/Nm ³	10 (Max.)
7							Particular Matter (PM)	IS 11255 (Part-1)2019	35.6	mg/Nm ³	150 (Max.)
8		YES	EKO/E-666/010623	27/05/2023	05/06/2023	Sinter Venturi	Lead (as Pb)	Method of Air Sampling & Analysis:1988	2.29	mg/Nm ³	10 (Max.)
9							Particular Matter (PM)	IS 11255 (Part-1)2019	38.2	mg/Nm ³	150 (Max.)
10		YES	EKO/E-667/010623	27/05/2023	05/06/2023	Crusher Main	Lead (as Pb)	Method of Air Sampling & Analysis:1988	2.19	mg/Nm ³	10 (Max.)
11							Particular Matter (PM)	IS 11255 (Part-1)2019	41.10	mg/Nm ³	150 (Max.)
12							Lead (as Pb)	Method of Air Sampling & Analysis:1988	2.03	mg/Nm ³	10 (Max.)

7	YES	EKO/E-668/010623	27/05/2023	05/06/2023	Crusher Venturi	Particular Matter (PM)	IS 11255 (Part-1)2019	37.6	mg/Nm ³	150 (Max.)
8	YES	EKO/E-670/050623	30/05/2023	05/06/2023	CRP Milling	Lead (as Pb)	Method of Air Sampling & Analysis:1988	1.88	mg/Nm ³	10 (Max.)
9	YES	EKO/E-679/050623	01/06/2023	09/06/2023	ZRP Main	Particular Matter (PM)	IS 11255 (Part-1)2019	43.6	mg/Nm ³	150 (Max.)
10	YES	EKO/E-680/050623	01/06/2023	09/06/2023	ZRP Fume	Lead (as Pb)	Method of Air Sampling & Analysis:1988	<1.0	mg/Nm ³	10 (Max.)
						Particular Matter (PM)	IS 11255 (Part-1)2019	41.8	mg/Nm ³	150 (Max.)
						Lead (as Pb)	Method of Air Sampling & Analysis:1988	<1.0	mg/Nm ³	10 (Max.)
						Particular Matter (PM)	IS 11255 (Part-1)2019	42.5	mg/Nm ³	150 (Max.)
						Lead (as Pb)	Method of Air Sampling & Analysis:1988	<1.0	mg/Nm ³	10 (Max.)

AUSMELT (PM & Pb) Stack Report			Stack Emission Level					Quarterly Monitoring Apr'2023 to Jun'2023			
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Reporting Date	Sampling Location	Parameters	Test Method	Results	Unit	Limit as per CTO
1	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-672/010623	30/05/2023	05/06/2023	RMH	Particular Matter (PM)	IS 11255 (Part-1)2019	27.3	mg/Nm ³	50 (Max.)
Lead (as Pb)							Method of Air Sampling & Analysis:1988	2.26	mg/Nm ³	10 (Max.)	
2		YES	EKO/E-673/010623	30/05/2023	05/06/2023	Hygiene	Particular Matter (PM)	IS 11255 (Part-1)2019	23.6	mg/Nm ³	50 (Max.)
							Lead (as Pb)	Method of Air Sampling & Analysis:1988	2.25	mg/Nm ³	10 (Max.)

HYDRO - 1 (PM) Stack Report			Stack Emission Level					Quarterly Monitoring Apr'2023 to Jun'2023			
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Reporting Date	Sampling Location	Parameters	Test Method	Results	Unit	Limit as per CTO
1	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-682/050623	02/06/2023	09/06/2023	Zinc Melting & Casting - 1	Particular Matter (PM)	IS 11255 (Part-1)2019	18.6	mg/Nm ³	30 (Max.)
2		YES	EKO/E-683/050623	02/06/2023	09/06/2023	Zinc Melting & Casting - 2	Particular Matter (PM)	IS 11255 (Part-1)2019	19.6	mg/Nm ³	30 (Max.)
3		YES	EKO/E-684/050623	02/06/2023	09/06/2023	Zinc Dross	Particular Matter (PM)	IS 11255 (Part-1)2019	20.3	mg/Nm ³	30 (Max.)
4		YES	EKO/E-685/050623	02/06/2023	09/06/2023	Zinc Dust	Particular Matter (PM)	IS 11255 (Part-1)2019	21.30	mg/Nm ³	30 (Max.)
5		YES	EKO/E-686/050623	02/06/2023	09/06/2023	Preheater Stack	Particular Matter (PM)	IS 11255 (Part-1)2019	17.3	mg/Nm ³	30 (Max.)
6		YES	EKO/E-687/050623	02/06/2023	09/06/2023	Roaster start up stack	Particular Matter (PM)	IS 11255 (Part-1)2019	15.8	mg/Nm ³	30 (Max.)

HYDRO - 2 (PM) Stack Report			Stack Emission Level					Quarterly Monitoring Apr'2023 to Jun'2023			
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Reporting Date	Sampling Location	Parameters	Test Method	Results	Unit	Limit as per CTO
1	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-674/010623	29/05/2023	05/06/2023	Zinc Melting & Casting - 1	Particular Matter (PM)	IS 11255 (Part-1)2019	16.2	mg/Nm ³	30 (Max.)
2		YES	EKO/E-739/010623	29/05/2023	05/06/2023	Zinc Melting & Casting - 2	Particular Matter (PM)	IS 11255 (Part-1)2019	17.3	mg/Nm ³	30 (Max.)
3		YES	EKO/E-675/010623	29/05/2023	05/06/2023	Zinc Dross	Particular Matter (PM)	IS 11255 (Part-1)2019	18.3	mg/Nm ³	30 (Max.)
4		YES	EKO/E-676/010623	29/05/2023	05/06/2023	Zinc Dust	Particular Matter (PM)	IS 11255 (Part-1)2019	16.3	mg/Nm ³	30 (Max.)
5		YES	EKO/E-677/010623	29/05/2023	05/06/2023	Preheater Stack	Particular Matter (PM)	IS 11255 (Part-1)2019	17.5	mg/Nm ³	30 (Max.)
6		YES	EKO/E-678/010623	29/05/2023	05/06/2023	Roaster start up stack	Particular Matter (PM)	IS 11255 (Part-1)2019	18.4	mg/Nm ³	30 (Max.)

CPP Stack Report			Stack Emission Level					Quarterly Monitoring Apr'2023 to Jun'2023			
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Reporting Date	Sampling Location	Parameters	Test Method	Results	Unit	Limit as per CTO
1	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-679/010623	31/05/2023	05/06/2023	CPP Unit - 1 & 2	Particular Matter (PM)	IS 11255 (Part-1)2019	38.10	mg/Nm ³	50
							Oxides Of Nitrogen (Nox)	IS 11255 (Part-7)2017	361.8	mg/Nm ³	450
							Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)2019	950.3	mg/Nm ³	600
							Mercury	US EPA Method - 29:2017	<0.01	mg/Nm ³	0.03
2		YES	EKO/E-680/010623	31/05/2023	05/06/2023	CPP Unit - 3	Particular Matter (PM)	IS 11255 (Part-1)2019	32.50	mg/Nm ³	50
							Oxides Of Nitrogen (Nox)	IS 11255 (Part-7)2017	360.2	mg/Nm ³	450
							Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)2019	995.4	mg/Nm ³	600
							Mercury	US EPA Method - 29:2017	<0.01	mg/Nm ³	0.03
3			YES	EKO/E-681/010623	31/05/2023	05/06/2023	Coal Crusher Stack	Particular Matter (PM)	IS 11255 (Part-1)2019	31.90	mg/Nm ³

Acid Plant Stack report (All Units)			Stack Emission Level					Quarterly Monitoring Jul'2023 to Sep'2023			
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Reporting Date	Sampling Location	Parameters	Test Method	Results	Unit	Limit as per CTO
1	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-611/210823	19/08/2023	30/08/2023	PYRO Acid plant (TGT) Stack	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)2019	90.50	mg/Nm ³	586 (2 Kg/T acid Production)
2		YES	EKO/E-594/160823	11/08/2023	30/08/2023		Acid Mist	SCS/SE/SOP/28	20.3	mg/Nm ³	50
3		YES	EKO/E-641/210823	16/08/2023	30/08/2023	Ausmelt Consolve Acid Stack	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)2019	91.3	mg/Nm ³	586 (2 Kg/T acid Production)
4		YES	EKO/E-601/160823	11/08/2023	30/08/2023		Acid Mist	SCS/SE/SOP/28	23.5	mg/Nm ³	50
						Hydro -1 Acid Stack	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)2019	76.5	mg/Nm ³	353 (1 Kg/T acid Production)
							Acid Mist	SCS/SE/SOP/28	18.1	mg/Nm ³	50
						Hydro - 2 Acid Stack	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)2019	73.1	mg/Nm ³	353 (1 Kg/T acid Production)
							Acid Mist	SCS/SE/SOP/28	16.9	mg/Nm ³	50

PYRO (PM & Pb) Stack Report			Stack Emission Level					Quarterly Monitoring Jul'2023 to Sep'2023			
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Reporting Date	Sampling Location	Parameters	Test Method	Results	Unit	Limit as per CTO
1	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-587/160823	12/08/2023	30/08/2023	ISF Slagging	Particular Matter (PM)	IS 11255 (Part-1)2019	34.8	mg/Nm ³	150 (Max.)
2		YES	EKO/E-588/160823	12/08/2023	30/08/2023		Lead (as Pb)	USEPA Method 29	2.15	mg/Nm ³	10 (Max.)
3		YES	EKO/E-590/160823	12/08/2023	30/08/2023	LRP Copper Drossing	Particular Matter (PM)	IS 11255 (Part-1)2019	40.6	mg/Nm ³	150 (Max.)
4		YES	EKO/E-583/160823	14/08/2023	30/08/2023		Lead (as Pb)	USEPA Method 29	2.21	mg/Nm ³	10 (Max.)
5		YES	EKO/E-584/160823	14/08/2023	30/08/2023	LRP Main	Particular Matter (PM)	IS 11255 (Part-1)2019	41.6	mg/Nm ³	150 (Max.)
6		YES	EKO/E-585/160823	14/08/2023	30/08/2023		Lead (as Pb)	USEPA Method 29	1.65	mg/Nm ³	10 (Max.)
7		YES	EKO/E-586/160823	14/08/2023	30/08/2023	Sinter Main	Particular Matter (PM)	IS 11255 (Part-1)2019	36.2	mg/Nm ³	150 (Max.)
8		YES	EKO/E-591/160823	12/08/2023	30/08/2023		Lead (as Pb)	USEPA Method 29	2.25	mg/Nm ³	10 (Max.)
9		YES	EKO/E-592/160823	12/08/2023	30/08/2023	Sinter Venturi	Particular Matter (PM)	IS 11255 (Part-1)2019	36.8	mg/Nm ³	150 (Max.)
							Lead (as Pb)	USEPA Method 29	2.22	mg/Nm ³	10 (Max.)
						Crusher Main	Particular Matter (PM)	IS 11255 (Part-1)2019	39.60	mg/Nm ³	150 (Max.)
							Lead (as Pb)	USEPA Method 29	2.14	mg/Nm ³	10 (Max.)
						Crusher Venturi	Particular Matter (PM)	IS 11255 (Part-1)2019	35.8	mg/Nm ³	150 (Max.)
							Lead (as Pb)	USEPA Method 29	1.84	mg/Nm ³	10 (Max.)
						CRP Milling	Particular Matter (PM)	IS 11255 (Part-1)2019	40.9	mg/Nm ³	150 (Max.)
							Lead (as Pb)	USEPA Method 29	<1.0	mg/Nm ³	10 (Max.)
						ZRP Main	Particular Matter (PM)	IS 11255 (Part-1)2019	38.9	mg/Nm ³	150 (Max.)
							Lead (as Pb)	USEPA Method 29	<1.0	mg/Nm ³	10 (Max.)

10	YES	EKO/E-593/160823	12/08/2023	30/08/2023	ZRP Fume	Particular Matter (PM)	IS 11255 (Part-1)2019	40.3	mg/Nm ³	150 (Max.)
11	YES	EKO/E-597/160823	11/08/2023	30/08/2023	PYRO WHRB	Lead (as Pb)	USEPA Method 29	<1.0	mg/Nm ³	10 (Max.)
						Particular Matter (PM)	IS 11255 (Part-1)2019	46.8	mg/Nm ³	150 (Max.)

AUSMELT (PM & Pb) Stack Report			Stack Emission Level					Quarterly Monitoring Jul'2023 to Sep'2023			
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Reporting Date	Sampling Location	Parameters	Test Method	Results	Unit	Limit as per CTO
1	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-595/160823	11/08/2023	30/08/2023	RMH	Particular Matter (PM)	IS 11255 (Part-1)2019	28.4	mg/Nm ³	50 (Max.)
							Lead (as Pb)	USEPA Method 29	2.21	mg/Nm ³	10 (Max.)
2		YES	EKO/E-596/160823	11/08/2023	30/08/2023	Hygiene	Particular Matter (PM)	IS 11255 (Part-1)2019	22.3	mg/Nm ³	50 (Max.)
							Lead (as Pb)	USEPA Method 29	2.19	mg/Nm ³	10 (Max.)

HYDRO - 1 (PM) Stack Report			Stack Emission Level					Quarterly Monitoring Jul'2023 to Sep'2023			
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Reporting Date	Sampling Location	Parameters	Test Method	Results	Unit	Limit as per CTO
1	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-612/210823	17/08/2023	30/08/2023	Zinc Melting & Casting - 1	Particular Matter (PM)	IS 11255 (Part-1)2019	19.3	mg/Nm ³	30 (Max.)
2		YES	EKO/E-613/210823	17/08/2023	30/08/2023	Zinc Melting & Casting - 2	Particular Matter (PM)	IS 11255 (Part-1)2019	20.3	mg/Nm ³	30 (Max.)
3		YES	EKO/E-614/210823	17/08/2023	30/08/2023	Zinc Dross	Particular Matter (PM)	IS 11255 (Part-1)2019	21.3	mg/Nm ³	30 (Max.)
4		YES	EKO/E-615/210823	17/08/2023	30/08/2023	Zinc Dust	Particular Matter (PM)	IS 11255 (Part-1)2019	19.8	mg/Nm ³	30 (Max.)
5		YES	EKO/E-616/210823	16/08/2023	30/08/2023	Preheater Stack	Particular Matter (PM)	IS 11255 (Part-1)2019	19.6	mg/Nm ³	30 (Max.)
6		YES	EKO/E-617/210823	16/08/2023	30/08/2023	Roaster start up stack	Particular Matter (PM)	IS 11255 (Part-1)2019	16.3	mg/Nm ³	30 (Max.)

HYDRO - 2 (PM) Stack Report			Stack Emission Level					Quarterly Monitoring Jul'2023 to Sep'2023			
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Reporting Date	Sampling Location	Parameters	Test Method	Results	Unit	Limit as per CTO
1	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-619/210823	18/08/2023	30/08/2023	Zinc Melting & Casting - 1	Particular Matter (PM)	IS 11255 (Part-1)2019	18.7	mg/Nm ³	30 (Max.)
2		YES	EKO/E-618/210823	18/08/2023	30/08/2023	Zinc Melting & Casting - 2	Particular Matter (PM)	IS 11255 (Part-1)2019	18.6	mg/Nm ³	30 (Max.)
3		YES	EKO/E-620/210823	18/08/2023	30/08/2023	Zinc Dross	Particular Matter (PM)	IS 11255 (Part-1)2019	20.7	mg/Nm ³	30 (Max.)
4		YES	EKO/E-621/210823	18/08/2023	30/08/2023	Zinc Dust	Particular Matter (PM)	IS 11255 (Part-1)2019	18.7	mg/Nm ³	30 (Max.)
5		YES	EKO/E-599/160823	11/08/2023	30/08/2023	Preheater Stack	Particular Matter (PM)	IS 11255 (Part-1)2019	19.6	mg/Nm ³	30 (Max.)
6		YES	EKO/E-600/160823	11/08/2023	30/08/2023	Roaster start up stack	Particular Matter (PM)	IS 11255 (Part-1)2019	17.9	mg/Nm ³	30 (Max.)

CPP Stack Report				Stack Emission Level				Quarterly Monitoring Jul'2023 to Sep'2023			
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Reporting Date	Sampling Location	Parameters	Test Method	Results	Unit	Limit as per CTO
1	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-602/160823-A	10/08/2023	30/08/2023	CPP Unit - 1 & 2	Particular Matter (PM)	IS 11255 (Part-1)2019	39.80	mg/Nm ³	50
							Oxides Of Nitrogen (Nox)	IS 11255 (Part-7)2017	356.7	mg/Nm ³	450
							Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)2019	948.5	mg/Nm ³	600
							Mercury	US EPA Method - 29:2017	<0.01	mg/Nm ³	0.03
2		YES	EKO/E-603/160823-A	10/08/2023	30/08/2023	CPP Unit - 3	Particular Matter (PM)	IS 11255 (Part-1)2019	31.90	mg/Nm ³	50
							Oxides Of Nitrogen (Nox)	IS 11255 (Part-7)2017	355.7	mg/Nm ³	450
							Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)2019	991.2	mg/Nm ³	600
							Mercury	US EPA Method - 29:2017	<0.01	mg/Nm ³	0.03
3		YES	EKO/E-604/160823	10/08/2023	30/08/2023	Coal Crusher Stack	Particular Matter (PM)	IS 11255 (Part-1)2019	30.50	mg/Nm ³	50 (Max.)

Acid Plant Stack report (All Units)				Stack Emission Level				Quarterly Monitoring Oct'2023 to Dec'2023			
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Reporting Date	Sampling Location	Parameters	Test Method	Results	Unit	Limit as per CTO
1	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-589/101123	09/11/2023	16/11/2023	PYRO Acid plant (TGT) Stack	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)2019	86.30	ppm	224 (2 Kg/T Acid production)
2		YES	EKO/E-590/101123	08/11/2023	16/11/2023	Ausmelt Cansolve Acid Stack	Acid Mist	USEPA Method 8 2017	19.6	mg/Nm ³	50
3		YES	EKO/E-561/111123	10/11/2023	16/11/2023	Hydro -1 Acid Stack	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)2019	93.5	ppm	224 (2 Kg/T Acid production)
4		YES	EKO/E-562/111123	07/11/2023	16/11/2023	Hydro - 2 Acid Stack	Acid Mist	USEPA Method 8 2017	21.6	mg/Nm ³	50
							Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)2019	78.2	ppm	135 (1 Kg/T Acid production)
							Acid Mist	USEPA Method 8 2017	19.6	mg/Nm ³	30
							Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)2019	71.6	ppm	135 (1 Kg/T Acid production)
							Acid Mist	USEPA Method 8 2017	15.4	mg/Nm ³	30

PYRO (PM & Pb) Stack Report				Stack Emission Level				Quarterly Monitoring Oct'2023 to Dec'2023			
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Reporting Date	Sampling Location	Parameters	Test Method	Results	Unit	Limit as per CTO
1	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-548/041123	01/11/2023	16/11/2023	ISF Slagging	Particular Matter (PM)	IS 11255 (Part-1)2019	36.8	mg/Nm ³	150 (Max.)
2		YES	EKO/E-549/041123	01/11/2023	16/11/2023	LRP Copper Dressing	Lead (as Pb)	USEPA (P - 12)	2.19	mg/Nm ³	10 (Max.)
3		YES	EKO/E-550/041123	01/11/2023	16/11/2023	LRP Main	Particular Matter (PM)	IS 11255 (Part-1)2019	38.2	mg/Nm ³	150 (Max.)
4		YES	EKO/E-544/041123	01/11/2023	16/11/2023	Sinter Main	Lead (as Pb)	USEPA (P - 12)	2.26	mg/Nm ³	10 (Max.)
5		YES	EKO/E-545/041123	01/11/2023	16/11/2023	Sinter Venturi	Particular Matter (PM)	IS 11255 (Part-1)2019	40.6	mg/Nm ³	150 (Max.)
6		YES	EKO/E-546/041123	01/11/2023	16/11/2023	Crusher Main	Lead (as Pb)	USEPA (P - 12)	1.69	mg/Nm ³	10 (Max.)
7		YES	EKO/E-547/041123	01/11/2023	16/11/2023	Crusher Venturi	Particular Matter (PM)	IS 11255 (Part-1)2019	35.1	mg/Nm ³	150 (Max.)
8		YES	EKO/E-551/041123	01/11/2023	16/11/2023	CRP Milling	Lead (as Pb)	USEPA (P - 12)	2.13	mg/Nm ³	10 (Max.)
9		YES	EKO/E-587/101123	06/11/2023	16/11/2023	ZRP Main	Particular Matter (PM)	IS 11255 (Part-1)2019	35.1	mg/Nm ³	150 (Max.)
							Lead (as Pb)	USEPA (P - 12)	2.26	mg/Nm ³	10 (Max.)
							Particular Matter (PM)	IS 11255 (Part-1)2019	37.40	mg/Nm ³	150 (Max.)
							Lead (as Pb)	USEPA (P - 12)	2.18	mg/Nm ³	10 (Max.)
							Particular Matter (PM)	IS 11255 (Part-1)2019	34.6	mg/Nm ³	150 (Max.)
							Lead (as Pb)	USEPA (P - 12)	1.96	mg/Nm ³	10 (Max.)
							Particular Matter (PM)	IS 11255 (Part-1)2019	42.6	mg/Nm ³	150 (Max.)
							Lead (as Pb)	USEPA (P - 12)	<1.0	mg/Nm ³	10 (Max.)
							Particular Matter (PM)	IS 11255 (Part-1)2019	35.9	mg/Nm ³	150 (Max.)
							Lead (as Pb)	USEPA (P - 12)	<1.0	mg/Nm ³	10 (Max.)

10		YES	EKO/E-588/101123	06/11/2023	16/11/2023	ZRP Fume	Particular Matter (PM)	IS 11255 (Part-1)2019	42.3	mg/Nm ³	150 (Max.)
11		YES	EKO/E-593/101123	08/11/2023	16/11/2023	PYRO WHRB	Lead (as Pb)	USEPA (P - 12)	<1.0	mg/Nm ³	10 (Max.)
							Particular Matter (PM)	IS 11255 (Part-1)2019	48.1	mg/Nm ³	150 (Max.)

AUSMELT (PM & Pb) Stack Report			Stack Emission Level				Quarterly Monitoring Oct'2023 to Dec'2023				
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Reporting Date	Sampling Location	Parameters	Test Method	Results	Unit	Limit as per CTO
1	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-591/101123	08/11/2023	16/11/2023	RMH	Particular Matter (PM)	IS 11255 (Part-1)2019	29.3	mg/Nm ³	50 (Max.)
							Lead (as Pb)	USEPA (P - 12)	2.16	mg/Nm ³	10 (Max.)
2		YES	EKO/E-592/101123	08/11/2023	16/11/2023	Hygiene	Particular Matter (PM)	IS 11255 (Part-1)2019	24.2	mg/Nm ³	50 (Max.)
							Lead (as Pb)	USEPA (P - 12)	2.32	mg/Nm ³	10 (Max.)

HYDRO - 1 (PM) Stack Report			Stack Emission Level				Quarterly Monitoring Oct'2023 to Dec'2023				
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Reporting Date	Sampling Location	Parameters	Test Method	Results	Unit	Limit as per CTO
1	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-552/041123	01/11/2023	16/11/2023	Zinc Melting & Casting - 1	Particular Matter (PM)	IS 11255 (Part-1)2019	21.5	mg/Nm ³	30 (Max.)
2		YES	EKO/E-553/041123	01/11/2023	16/11/2023	Zinc Melting & Casting - 2	Particular Matter (PM)	IS 11255 (Part-1)2019	21.5	mg/Nm ³	30 (Max.)
3		YES	EKO/E-554/041123	01/11/2023	16/11/2023	Zinc Dross	Particular Matter (PM)	IS 11255 (Part-1)2019	20.1	mg/Nm ³	30 (Max.)
4		YES	EKO/E-555/041123	01/11/2023	16/11/2023	Zinc Dust	Particular Matter (PM)	IS 11255 (Part-1)2019	20.50	mg/Nm ³	30 (Max.)
5		YES	EKO/E-556/041123	01/11/2023	16/11/2023	Preheater Stack	Particular Matter (PM)	IS 11255 (Part-1)2019	21.9	mg/Nm ³	30 (Max.)
6		YES	EKO/E-557/041123	01/11/2023	16/11/2023	Roaster start up stack	Particular Matter (PM)	IS 11255 (Part-1)2019	18.2	mg/Nm ³	30 (Max.)

HYDRO - 2 (PM) Stack Report			Stack Emission Level				Quarterly Monitoring Oct'2023 to Dec'2023				
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Reporting Date	Sampling Location	Parameters	Test Method	Results	Unit	Limit as per CTO
1	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-617/091123	04/11/2023	16/11/2023	Zinc Melting & Casting - 1	Particular Matter (PM)	IS 11255 (Part-1)2019	19.3	mg/Nm ³	30 (Max.)
2		YES	EKO/E-616/091123	04/11/2023	16/11/2023	Zinc Melting & Casting - 2	Particular Matter (PM)	IS 11255 (Part-1)2019	20.1	mg/Nm ³	30 (Max.)
3		YES	EKO/E-618/091123	04/11/2023	16/11/2023	Zinc Dross	Particular Matter (PM)	IS 11255 (Part-1)2019	21	mg/Nm ³	30 (Max.)
4		YES	EKO/E-619/091123	04/11/2023	16/11/2023	Zinc Dust	Particular Matter (PM)	IS 11255 (Part-1)2019	19.5	mg/Nm ³	30 (Max.)
5		YES	EKO/E-620/091123	07/11/2023	16/11/2023	Preheater Stack	Particular Matter (PM)	IS 11255 (Part-1)2019	20.0	mg/Nm ³	30 (Max.)
6		YES	EKO/E-621/091123	07/11/2023	16/11/2023	Roaster start up stack	Particular Matter (PM)	IS 11255 (Part-1)2019	16.5	mg/Nm ³	30 (Max.)

CPP Stack Report			Stack Emission Level								
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Reporting Date	Sampling Location	Parameters	Test Method	Results	Unit	Limit as per CTO
1	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-563/111123-A	09/11/2023	16/11/2023	CPP Unit - 1 & 2	Particular Matter (PM)	IS 11255 (Part-1)2019	40.10	mg/Nm ³	50
							Oxides Of Nitrogen (Nox)	IS 11255 (Part-7)2017	350.4	mg/Nm ³	450
							Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)2019	940.3	mg/Nm ³	600
							Mercury	US EPA Method - 29:2017	<0.01	mg/Nm ³	0.03
2		YES	EKO/E-564/111123-A	09/11/2023	16/11/2023	CPP Unit - 3	Particular Matter (PM)	IS 11255 (Part-1)2019	29.50	mg/Nm ³	50
							Oxides Of Nitrogen (Nox)	IS 11255 (Part-7)2017	360.4	mg/Nm ³	450
							Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)2019	985.2	mg/Nm ³	600
							Mercury	US EPA Method - 29:2017	<0.01	mg/Nm ³	0.03
3		YES	EKO/E-565/111123	09/11/2023	16/11/2023	Coal Crusher Stack	Particular Matter (PM)	IS 11255 (Part-1)2019	28.60	mg/Nm ³	50

Acid Plant Stack report (All Units)				Stack Emission Level				Quarterly Monitoring Jan'2024 to Mar'2024			
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Reporting Date	Sampling Location	Parameters	Test Method	Results	Unit	Limit as per CTO
1	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-626/020324	29/02/2024	07/03/2024	PYRO Acid plant (TGT) Stack	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)2019	84.20	ppm	224
2		YES	EKO/E-627/020324	26/02/2024	07/03/2024		Acid Mist	USEPA Method 8 2017	18.6	mg/Nm ³	50
3		YES	EKO/E-643/020324	28/02/2024	07/03/2024	Ausmelt Cansolve Acid Stack	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)2019	92.3	ppm	224
4		YES	EKO/E-633/260224	23/02/2024	07/03/2024		Acid Mist	USEPA Method 8 2017	20.5	mg/Nm ³	50
						Hydro -1 Acid Stack	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)2019	77.2	ppm	135 (Max.)
							Acid Mist	USEPA Method 8 2017	18.6	mg/Nm ³	30
						Hydro - 2 Acid Stack	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)2019	70.2	ppm	135 (Max.)
							Acid Mist	USEPA Method 8 2017	14.9	mg/Nm ³	30

PYRO (PM & Pb) Stack Report				Stack Emission Level				Quarterly Monitoring Jan'2024 to Mar'2024			
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Reporting Date	Sampling Location	Parameters	Test Method	Results	Unit	Limit as per CTO
1	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-620/020324	29/02/2024	07/03/2024	ISF Slagging	Particular Matter (PM)	IS 11255 (Part-1)2019	34.8	mg/Nm ³	150 (Max.)
2		YES	EKO/E-621/020324	29/02/2024	07/03/2024		Lead (as Pb)	USEPA (P-12)	2.22	mg/Nm ³	10 (Max.)
3		YES	EKO/E-622/020324	29/02/2024	07/03/2024	LRP Copper Drossing	Particular Matter (PM)	IS 11255 (Part-1)2019	37.5	mg/Nm ³	150 (Max.)
4		YES	EKO/E-617/020324	29/02/2024	07/03/2024		Lead (as Pb)	USEPA (P-12)	2.21	mg/Nm ³	10 (Max.)
5		YES	EKO/E-618/020324	29/02/2024	07/03/2024	LRP Main	Particular Matter (PM)	IS 11255 (Part-1)2019	39.2	mg/Nm ³	150 (Max.)
6		YES	EKO/E-619/020324	29/02/2024	07/03/2024		Lead (as Pb)	USEPA (P-12)	1.72	mg/Nm ³	10 (Max.)
7		YES	EKO/E-623/020324	29/02/2024	07/03/2024	Sinter Main	Particular Matter (PM)	IS 11255 (Part-1)2019	36.5	mg/Nm ³	150 (Max.)
8		YES	EKO/E-624/020324	29/02/2024	07/03/2024		Lead (as Pb)	USEPA (P-12)	2.33	mg/Nm ³	10 (Max.)
9		YES	EKO/E-625/020324	29/02/2024	07/03/2024	Sinter Venturi	Particular Matter (PM)	IS 11255 (Part-1)2019		mg/Nm ³	150 (Max.)
		YES	EKO/E-626/020324	29/02/2024	07/03/2024		Lead (as Pb)	USEPA (P-12)		mg/Nm ³	10 (Max.)
		YES	EKO/E-627/020324	29/02/2024	07/03/2024	Crusher Main	Particular Matter (PM)	IS 11255 (Part-1)2019	36.10	mg/Nm ³	150 (Max.)
		YES	EKO/E-628/020324	29/02/2024	07/03/2024		Lead (as Pb)	USEPA (P-12)	2.29	mg/Nm ³	10 (Max.)
		YES	EKO/E-629/020324	29/02/2024	07/03/2024	Crusher Venturi	Particular Matter (PM)	IS 11255 (Part-1)2019	35.5	mg/Nm ³	150 (Max.)
		YES	EKO/E-630/020324	29/02/2024	07/03/2024		Lead (as Pb)	USEPA (P-12)	1.92	mg/Nm ³	10 (Max.)
		YES	EKO/E-631/020324	29/02/2024	07/03/2024	CRP Milling	Particular Matter (PM)	IS 11255 (Part-1)2019	41.2	mg/Nm ³	150 (Max.)
		YES	EKO/E-632/020324	29/02/2024	07/03/2024		Lead (as Pb)	USEPA (P-12)	<1.0	mg/Nm ³	10 (Max.)
		YES	EKO/E-633/020324	29/02/2024	07/03/2024	ZRP Main	Particular Matter (PM)	IS 11255 (Part-1)2019	34.2	mg/Nm ³	150 (Max.)
		YES	EKO/E-634/020324	29/02/2024	07/03/2024		Lead (as Pb)	USEPA (P-12)	<1.0	mg/Nm ³	10 (Max.)

10	YES	EKO/E-625/020324	29/02/2024	07/03/2024	ZRP Fume	Particular Matter (PM)	IS 11255 (Part-1)2019	41.2	mg/Nm ³	150 (Max.)
11	YES	EKO/E-630/020324	28/02/2024	07/03/2024	PYRO WHRB	Lead (as Pb)	USEPA (P-12)	<1.0	mg/Nm ³	10 (Max.)
						Particular Matter (PM)	IS 11255 (Part-1)2019	47.2	mg/Nm ³	150 (Max.)

AUSMELT (PM & Pb) Stack Report			Stack Emission Level					Quarterly Monitoring Jan'2024 to Mar'2024			
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Reporting Date	Sampling Location	Parameters	Test Method	Results	Unit	Limit as per CTO
1	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-628/020324	26/02/2024	07/03/2024	RMH	Particular Matter (PM)	IS 11255 (Part-1)2019	28.5	mg/Nm ³	50 (Max.)
2		YES	EKO/E-629/020324	28/02/2024	07/03/2024	Hygiene	Lead (as Pb)	USEPA (P-12)	2.21	mg/Nm ³	10 (Max.)
							Particular Matter (PM)	IS 11255 (Part-1)2019	26.5	mg/Nm ³	50 (Max.)
							Lead (as Pb)	USEPA (P-12)	2.28	mg/Nm ³	10 (Max.)

HYDRO - 1 (PM) Stack Report			Stack Emission Level								Quarterly Monitoring Jan'2024 to Mar'2024			
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Reporting Date	Sampling Location	Parameters	Test Method	Results	Unit	Limit as per CTO			
1	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-633/020324	27/02/2024	07/03/2024	Zinc Melting & Casting - 1	Particular Matter (PM)	IS 11255 (Part-1)2019	20.8	mg/Nm ³	30 (Max.)			
2		YES	EKO/E-634/020324	27/02/2024	07/03/2024	Zinc Melting & Casting - 2	Particular Matter (PM)	IS 11255 (Part-1)2019	20.3	mg/Nm ³	30 (Max.)			
3		YES	EKO/E-635/020324	28/02/2024	07/03/2024	Zinc Dross	Particular Matter (PM)	IS 11255 (Part-1)2019	19.6	mg/Nm ³	30 (Max.)			
4		YES	EKO/E-636/020324	28/02/2024	07/03/2024	Zinc Dust	Particular Matter (PM)	IS 11255 (Part-1)2019	21.30	mg/Nm ³	30 (Max.)			
5		YES	EKO/E-637/020324	27/02/2024	07/03/2024	Preheater Stack	Particular Matter (PM)	IS 11255 (Part-1)2019	20.1	mg/Nm ³	30 (Max.)			
6		YES	EKO/E-638/020324	27/02/2024	07/03/2024	Roaster start up stack	Particular Matter (PM)	IS 11255 (Part-1)2019	19.5	mg/Nm ³	30 (Max.)			

HYDRO - 2 (PM) Stack Report			Stack Emission Level									Quarterly Monitoring Jan'2024 to Mar'2024			
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Reporting Date	Sampling Location	Parameters	Test Method	Results	Unit	Limit as per CTO				
1	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-639/020324	28/02/2024	07/03/2024	Zinc Melting & Casting - 1	Particular Matter (PM)	IS 11255 (Part-1)2019	19.3	mg/Nm ³	30 (Max.)				
2		YES	EKO/E-642/020324	28/02/2024	07/03/2024	Zinc Melting & Casting - 2	Particular Matter (PM)	IS 11255 (Part-1)2019	19.6	mg/Nm ³	30 (Max.)				
3		YES	EKO/E-640/020324	28/02/2024	07/03/2024	Zinc Dross	Particular Matter (PM)	IS 11255 (Part-1)2019	20.3	mg/Nm ³	30 (Max.)				
4		YES	EKO/E-641/020324	28/02/2024	07/03/2024	Zinc Dust	Particular Matter (PM)	IS 11255 (Part-1)2019	18.8	mg/Nm ³	30 (Max.)				
5		YES	EKO/E-631/260224	23/02/2024	07/03/2024	Preheater Stack	Particular Matter (PM)	IS 11255 (Part-1)2019	21.30	mg/Nm ³	30 (Max.)				
6		YES	EKO/E-632/260224	23/02/2024	07/03/2024	Roaster start up stack	Particular Matter (PM)	IS 11255 (Part-1)2019	18.5	mg/Nm ³	30 (Max.)				

CPP Stack Report				Stack Emission Level				Quarterly Monitoring Jan'2024 to Mar'2024			
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Reporting Date	Sampling Location	Parameters	Test Method	Results	Unit	Limit as per CTO
1	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-634/260224-A	24/02/2024	07/03/2024	CPP Unit - 1 & 2	Particular Matter (PM)	IS 11255 (Part-1)2019	38.50	mg/Nm ³	50
							Oxides Of Nitrogen (Nox)	IS 11255 (Part-7)2017	352.4	mg/Nm ³	450
							Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)2019	936.5	mg/Nm ³	600
							Mercury	US EPA Method - 29:2017	<0.01	mg/Nm ³	0.03
2		YES	EKO/E-635/260224-A	24/02/2024	07/03/2024	CPP Unit - 3	Particular Matter (PM)	IS 11255 (Part-1)2019	31.60	mg/Nm ³	50
							Oxides Of Nitrogen (Nox)	IS 11255 (Part-7)2017	365.2	mg/Nm ³	450
							Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)2019	975.2	mg/Nm ³	600
							Mercury	US EPA Method - 29:2017	<0.01	mg/Nm ³	0.03
3		YES	EKO/E-636/260224	24/02/2024	07/03/2024	Coal Crusher Stack	Particular Matter (PM)	IS 11255 (Part-1)2019	27.50	mg/Nm ³	50

Ambient Air Quality Monitoring (Four Plant Station)						Quarterly Monitoring - Apr'2023 to June'2023					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
1	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-651/010623-1	29/05/2023	01/06/2023 to 05/06/2023	Near LOCO Shed C2	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	12.90	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	33.20	µg/m ³	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	53.6	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	88.2	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	0.16	µg/m ³	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	0.98	mg/m ³	4
							Ammonia (NH ₃)	Method of air sampling & Analysis (3rd edition) 1988	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	IS:5182 (Part 22) : 2019	<5.0	ng/m ³	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	<15.0	ng/m ³	20

Ambient Air Quality Monitoring (Four Plant Station)						Quarterly Monitoring - Apr'2023 to June'2023					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
2	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-652/010623-1	30/05/2023	01/06/2023 to 05/06/2023	Near Slag Gate	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	12.80	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	29.5	µg/m ³	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	55.6	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	89.3	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	0.92	µg/m ³	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	0.86	mg/m ³	4
							Ammonia (NH ₃)	Method of air sampling & Analysis (3rd edition) 1988	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	IS:5182 (Part 22) : 2019	<5.0	ng/m ³	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	<15.0	ng/m ³	20

Ambient Air Quality Monitoring (Four Plant Station)						Quarterly Monitoring - Apr'2023 to June'2023					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
3	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-653/010623-1	29/05/2023	01/06/2023 to 05/06/2023	Near DM Plant	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	13.60	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	30.2	µg/m ³	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	48.9	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	81.3	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	0.13	µg/m ³	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	0.89	mg/m ³	4
							Ammonia (NH ₃)	Method of air sampling & Analysis (3rd edition) 1988	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	IS:5182 (Part 22) : 2019	<5.0	ng/m ³	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	<15.0	ng/m ³	20

Ambient Air Quality Monitoring (Four Plant Station)						Quarterly Monitoring - Apr'2023 to June'2023					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
4	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-650/010623-1	28/05/2023	01/06/2023 to 05/06/2023	Near CISF Colony C1	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	13.60	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	30.2	µg/m ³	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	50.6	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	82.3	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	0.22	µg/m ³	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	1.02	mg/m ³	4
							Ammonia (NH ₃)	Method of air sampling & Analysis (3rd edition) 1988	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	IS:5182 (Part 22) : 2019	<5.0	ng/m ³	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	<15.0	ng/m ³	20

Ambient Air Quality Monitoring (Four Plant Station)						Quarterly Monitoring - Jul'2023 to Sep'2023					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
1	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-576/160823-1	09/08/2023	16/08/2023 to 21/08/2023	Near LOCO Shed C2	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	12.30	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	30.5	µg/m ³	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	51.4	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	85.3	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	0.15	µg/m ³	1
							Carbon monoxide (as CO)	SCS/SOP/AAQ/013	1.03	µg/m ³	2000
							Ammonia (NH ₃)	Method of air sampling & Analysis (3rd edition) 1988	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	IS:5182 (Part 22) : 2019	<5.0	ng/m ³	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	<15.0	ng/m ³	20

Ambient Air Quality Monitoring (Four Plant Station)						Quarterly Monitoring - Jul'2023 to Sep'2023					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
2	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-577/160823-1	10/08/2023	16/08/2023 to 21/08/2023	Near Slag Gate	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	13.90	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	34.4	µg/m ³	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	52.4	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	83.6	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	0.32	µg/m ³	1
							Carbon monoxide (as CO)	SCS/SOP/AAQ/013	1.02	µg/m ³	2000
							Ammonia (NH ₃)	Method of air sampling & Analysis (3rd edition) 1988	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	IS:5182 (Part 22) : 2019	<5.0	ng/m ³	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	<15.0	ng/m ³	20

Ambient Air Quality Monitoring (Four Plant Station)						Quarterly Monitoring - Jul'2023 to Sep'2023					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
3	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-578/160823-1	09/08/2023	16/08/2023 to 21/08/2023	Near DM Plant	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	12.80	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	28.6	µg/m ³	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	50.4	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	86.5	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	0.15	µg/m ³	1
							Carbon monoxide (as CO)	SCS/SOP/AAQ/013	1.03	µg/m ³	2000
							Ammonia (NH ₃)	Method of air sampling & Analysis (3rd edition) 1988	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	IS:5182 (Part 22) : 2019	<5.0	ng/m ³	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	<15.0	ng/m ³	20

Ambient Air Quality Monitoring (Four Plant Station)						Quarterly Monitoring - Jul'2023 to Sep'2023					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
4	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-575/160823-1	10/08/2023	16/08/2023 to 21/08/2023	Near CISF Colony C1	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	12.40	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	27.5	µg/m ³	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	49.3	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	85.7	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	0.21	µg/m ³	1
							Carbon monoxide (as CO)	SCS/SOP/AAQ/013	1.16	µg/m ³	2000
							Ammonia (NH ₃)	Method of air sampling & Analysis (3rd edition) 1988	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	IS:5182 (Part 22) : 2019	<5.0	ng/m ³	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	<15.0	ng/m ³	20

Ambient Air Quality Monitoring (Four Plant Station)						Quarterly Monitoring - Oct'2023 to Dec'2023					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
1	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-609/091123 1	03/11/2023	09/11/2023 to 13/11/2023	Near LOCO Shed C2	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	13.80	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	32.2	µg/m ³	80
							Particulate Matter (PM 2.5)	EKO/CHEM/SOP/AAQ-01	55.7	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	89.3	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	0.18	µg/m ³	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	1.19	mg/m ³	4
							Ammonia (NH ₃)	APHA Method 401	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	EKO/CHEM/SOP/AAQ-02	<5.0	ng/m ³	6
							Nickel (as Ni)	EKO/CHEM/SOP/AAQ-02	<15.0	ng/m ³	20

Ambient Air Quality Monitoring (Four Plant Station)						Quarterly Monitoring - Oct'2023 to Dec'2023					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
2	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-610/091123 1	06/11/2023	09/11/2023 to 13/11/2023	Near Slag Gate	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	14.20	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	33.2	µg/m ³	80
							Particulate Matter (PM 2.5)	EKO/CHEM/SOP/AAQ-01	50.7	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	86.3	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	0.29	µg/m ³	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	1.09	mg/m ³	4
							Ammonia (NH ₃)	APHA Method 401	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	EKO/CHEM/SOP/AAQ-02	<5.0	ng/m ³	6
							Nickel (as Ni)	EKO/CHEM/SOP/AAQ-02	<15.0	ng/m ³	20

Ambient Air Quality Monitoring (Four Plant Station)						Quarterly Monitoring - Oct'2023 to Dec'2023					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
3	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-611/091123-1	03/11/2023	09/11/2023 to 13/11/2023	Near DM Plant	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	14.20	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	30.8	µg/m ³	80
							Particulate Matter (PM 2.5)	EKO/CHEM/SOP/AAQ-01	53.6	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	90.3	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	0.17	µg/m ³	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	1.12	mg/m ³	4
							Ammonia (NH ₃)	APHA Method 401	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	EKO/CHEM/SOP/AAQ-02	<5.0	ng/m ³	6
							Nickel (as Ni)	EKO/CHEM/SOP/AAQ-02	<15.0	ng/m ³	20

Ambient Air Quality Monitoring (Four Plant Station)						Quarterly Monitoring - Oct'2023 to Dec'2023					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
4	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-608/091123-1	06/11/2023	09/11/2023 to 13/11/2023	Near CISF Colony C1	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	13.90	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	30.1	µg/m ³	80
							Particulate Matter (PM 2.5)	EKO/CHEM/SOP/AAQ-01	55.8	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	93.6	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	0.19	µg/m ³	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	1.12	mg/m ³	4
							Ammonia (NH ₃)	APHA Method 401	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	EKO/CHEM/SOP/AAQ-02	<5.0	ng/m ³	6
							Nickel (as Ni)	EKO/CHEM/SOP/AAQ-02	<15.0	ng/m ³	20

Ambient Air Quality Monitoring (Four Plant Station)						Quarterly Monitoring - Jan'24 to Mar'24					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
1	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-617/260224-1	23/02/2024	26/02/2024 to 01/03/2024	Near LOCO Shed C2	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	11.50	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	31.6	µg/m ³	80
							Particulate Matter (PM 2.5)	EKO/CHEM/SOP/AAQ-01	56.9	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	90.2	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	0.21	µg/m ³	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	1.22	mg/m ³	4
							Ammonia (NH ₃)	APHA Method 401	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	EKO/CHEM/SOP/AAQ-02	<5.0	ng/m ³	6
							Nickel (as Ni)	EKO/CHEM/SOP/AAQ-02	<15.0	ng/m ³	20

Ambient Air Quality Monitoring (Four Plant Station)						Quarterly Monitoring - Jan'24 to Mar'24					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
2	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-618/260224-1	23/02/2024	26/02/2024 to 01/03/2024	Near Slag Gate	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	13.90	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	35.2	µg/m ³	80
							Particulate Matter (PM 2.5)	EKO/CHEM/SOP/AAQ-01	52.4	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	89.3	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	0.32	µg/m ³	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	1.12	mg/m ³	4
							Ammonia (NH ₃)	APHA Method 401	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	EKO/CHEM/SOP/AAQ-02	<5.0	ng/m ³	6
							Nickel (as Ni)	EKO/CHEM/SOP/AAQ-02	<15.0	ng/m ³	20

Ambient Air Quality Monitoring (Four Plant Station)						Quarterly Monitoring - Jan'24 to Mar'24					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
3	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-619/260224-1	23/02/2024	26/02/2024 to 01/03/2024	Near DM Plant	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	12.90	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	32.4	µg/m ³	80
							Particulate Matter (PM 2.5)	EKO/CHEM/SOP/AAQ-01	56.7	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	95.3	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	0.19	µg/m ³	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	1.16	mg/m ³	4
							Ammonia (NH ₃)	APHA Method 401	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	EKO/CHEM/SOP/AAQ-02	<5.0	ng/m ³	6
							Nickel (as Ni)	EKO/CHEM/SOP/AAQ-02	<15.0	ng/m ³	20

Ambient Air Quality Monitoring (Four Plant Station)						Quarterly Monitoring - Jan'24 to Mar'24					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
4	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-616/260224-1	23/02/2024	26/02/2024 to 01/03/2024	Near CISF Colony C1	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	13.20	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	32.6	µg/m ³	80
							Particulate Matter (PM 2.5)	EKO/CHEM/SOP/AAQ-01	58.7	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	90.5	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	0.18	µg/m ³	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	1.15	mg/m ³	4
							Ammonia (NH ₃)	APHA Method 401	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	EKO/CHEM/SOP/AAQ-02	<5.0	ng/m ³	6
							Nickel (as Ni)	EKO/CHEM/SOP/AAQ-02	<15.0	ng/m ³	20

ANNEXURE

Ambient Air Quality Monitoring (Nearby Village)						Quarterly Monitoring - Apr'2023 to Jun'2023					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
1	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-661/010623-1	25/05/2023	01/06/2023 to 05/06/2023	Billiya	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	13.90	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	27.8	µg/m ³	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	49.6	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	77.8	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	<0.1	µg/m ³	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	1.19	mg/m ³	4
							Ammonia (NH ₃)	Method of air sampling & Analysis (3rd edition) 1988	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	IS:5182 (Part 22) : 2019	<5.0	ng/m ³	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	<15.0	ng/m ³	20
Ambient Air Quality Monitoring (Nearby Village)											

Ambient Air Quality Monitoring (Nearby Village)						Quarterly Monitoring - Apr'2023 to Jun'2023					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
2	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-660/010623-1	27/05/2023	01/06/2023 to 05/06/2023	Nagari	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	12.30	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	30.5	µg/m ³	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	50.2	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	84.5	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	<0.1	µg/m ³	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	1.06	mg/m ³	4
							Ammonia (NH ₃)	Method of air sampling & Analysis (3rd edition) 1988	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	IS:5182 (Part 22) : 2019	<5.0	ng/m ³	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	<15.0	ng/m ³	20

Ambient Air Quality Monitoring (Nearby Village)						Quarterly Monitoring - Apr'2023 to Jun'2023					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
3	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-663/010623-1	28/05/2023	01/06/2023 to 05/06/2023	Anwalhera	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	13.80	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	30.1	µg/m ³	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	54.6	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	78.5	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	<0.1	µg/m ³	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	1.15	mg/m ³	4
							Ammonia (NH ₃)	Method of air sampling & Analysis (3rd edition) 1988	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	IS:5182 (Part 22) : 2019	<5.0	ng/m ³	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	<15.0	ng/m ³	20

Ambient Air Quality Monitoring (Nearby Village)						Quarterly Monitoring - Apr'2023 to Jun'2023					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
4	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-659/010623-1	27/05/2023	01/06/2023 to 05/06/2023	Munga Ka Khera	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	13.10	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	29.6	µg/m ³	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	52.4	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	83.6	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	<0.1	µg/m ³	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	1.12	mg/m ³	4
							Ammonia (NH ₃)	Method of air sampling & Analysis (3rd edition) 1988	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	IS:5182 (Part 22) : 2019	<5.0	ng/m ³	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	<15.0	ng/m ³	20

Ambient Air Quality Monitoring (Nearby Village)						Quarterly Monitoring - Apr'2023 to Jun'2023					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
5	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-662/010623-1	25/05/2023	01/06/2023 to 05/06/2023	Ajoliya Ka Khera	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	11.90	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	29.3	µg/m ³	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	50.1	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	75.6	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	<0.1	µg/m ³	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	0.95	mg/m ³	4
							Ammonia (NH ₃)	Method of air sampling & Analysis (3rd edition) 1988	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	IS:5182 (Part 22) : 2019	<5.0	ng/m ³	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	<15.0	ng/m ³	20

Ambient Air Quality Monitoring (Nearby Village)					
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Ambient Air Quality Monitoring (Nearby Village)						Quarterly Monitoring - Apr'2023 to Jun'2023					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
6	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-658/010623-1	26/05/2023	01/06/2023 to 05/06/2023	Putholi	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	13.60	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	28.4	µg/m ³	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	46.8	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	79.5	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	<0.1	µg/m ³	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	0.93	mg/m ³	4
							Ammonia (NH ₃)	Method of air sampling & Analysis (3rd edition) 1988	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	IS:5182 (Part 22) : 2019	<5.0	ng/m ³	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	<15.0	ng/m ³	20

Ambient Air Quality Monitoring (Nearby Village)						Quarterly Monitoring - Apr'2023 to Jun'2023					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
7	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-664/010623-1	26/05/2023	01/06/2023 to 05/06/2023	Zinc Nagar	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	13.60	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	28.9	µg/m ³	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	51.9	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	84.3	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	<0.1	µg/m ³	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	1.09	mg/m ³	4
							Ammonia (NH ₃)	Method of air sampling & Analysis (3rd edition) 1988	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	IS:5182 (Part 22) : 2019	<5.0	ng/m ³	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	<15.0	ng/m ³	20

Ambient Air Quality Monitoring (Nearby Village)						Quarterly Monitoring - Jul'2023 to Sep'2023					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
1	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-537/240823-1	20/08/2023	24/08/2023 to 28/08/2023	Billiya	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	12.50	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	29.7	µg/m ³	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	51.7	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	80.3	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	100
							Lead (as Pb)	IS:5182 (Part - 22):2019	<0.1	µg/m ³	1
							Carbon monoxide (as CO)	SCS/SOP/AAQ/013	1.15	µg/m ³	2000
							Ammonia (NH ₃)	IS:5182 (Part 25)	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	IS:5182 (Part 22) : 2019	<5.0	ng/m ³	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	<15.0	ng/m ³	20

Ambient Air Quality Monitoring (Nearby Vill					
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Ambient Air Quality Monitoring (Nearby Village)						Quarterly Monitoring - Jul'2023 to Sep'2023					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
2	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-536/240823-1	20/08/2023	24/08/2023 to 28/08/2023	Nagari	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	13.60	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	29.7	µg/m ³	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	55.4	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	90.6	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	100
							Lead (as Pb)	IS:5182 (Part - 22):2019	<0.1	µg/m ³	1
							Carbon monoxide (as CO)	SCS/SOP/AAQ/013	1.02	µg/m ³	2000
							Ammonia (NH ₃)	IS:5182 (Part 25)	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	IS:5182 (Part 22) : 2019	<5.0	ng/m ³	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	<15.0	ng/m ³	20

Ambient Air Quality Monitoring (Nearby Village)						Quarterly Monitoring - Jul'2023 to Sep'2023					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
3	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-539/240823-1	22/08/2023	24/08/2023 to 28/08/2023	Anwalhera	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	12.40	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	28.6	µg/m ³	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	53.9	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	84.6	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	100
							Lead (as Pb)	IS:5182 (Part - 22):2019	<0.1	µg/m ³	1
							Carbon monoxide (as CO)	SCS/SOP/AAQ/013	1.12	µg/m ³	2000
							Ammonia (NH ₃)	IS:5182 (Part 25)	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	IS:5182 (Part 22) : 2019	<5.0	ng/m ³	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	<15.0	ng/m ³	20
Ambient Air Quality Monitoring (Nearby Village)											

Ambient Air Quality Monitoring (Nearby Village)											
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Quarterly Monitoring - Jul'2023 to Sep'2023			
								Method of Test	Results	Unit	NAAQS*
4	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-535/240823-1	21/08/2023	24/08/2023 to 28/08/2023	Munga Ka Khera	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	14.70	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	31.5	µg/m ³	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	54.6	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	88.3	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	100
							Lead (as Pb)	IS:5182 (Part - 22):2019	<0.1	µg/m ³	1
							Carbon monoxide (as CO)	SCS/SOP/AAQ/013	1.18	µg/m ³	2000
							Ammonia (NH ₃)	IS:5182 (Part 25)	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	IS:5182 (Part 22) : 2019	<5.0	ng/m ³	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	<15.0	ng/m ³	20

Ambient Air Quality Monitoring (Nearby Village)						Quarterly Monitoring - Jul'2023 to Sep'2023					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
5	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-538/240823-1	22/08/2023	24/08/2023 to 28/08/2023	Ajoliya Ka Khera	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	12.60	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	32.4	µg/m ³	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	52.4	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	79.3	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	100
							Lead (as Pb)	IS:5182 (Part - 22):2019	<0.1	µg/m ³	1
							Carbon monoxide (as CO)	SCS/SOP/AAQ/013	1.09	µg/m ³	2000
							Ammonia (NH ₃)	IS:5182 (Part 25)	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	IS:5182 (Part 22) : 2019	<5.0	ng/m ³	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	<15.0	ng/m ³	20
Ambient Air Quality Monitoring (Nearby Village)											

Ambient Air Quality Monitoring (Nearby Village)						Quarterly Monitoring - Jul'2023 to Sep'2023					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
6	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-534/240823-1	21/08/2023	24/08/2023 to 28/08/2023	Putholi	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	12.60	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	30.2	µg/m ³	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	54.7	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	85.6	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	100
							Lead (as Pb)	IS:5182 (Part - 22):2019	<0.1	µg/m ³	1
							Carbon monoxide (as CO)	SCS/SOP/AAQ/013	1.03	µg/m ³	2000
							Ammonia (NH ₃)	IS:5182 (Part 25)	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	IS:5182 (Part 22) : 2019	<5.0	ng/m ³	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	<15.0	ng/m ³	20

Ambient Air Quality Monitoring (Nearby Village)						Quarterly Monitoring - Jul'2023 to Sep'2023					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
7	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-540/240823-1	20/08/2023	24/08/2023 to 28/08/2023	Zinc Nagar	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	12.40	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	31.5	µg/m ³	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	53.2	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	87.6	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	100
							Lead (as Pb)	IS:5182 (Part - 22):2019	<0.1	µg/m ³	1
							Carbon monoxide (as CO)	SCS/SOP/AAQ/013	1.16	µg/m ³	2000
							Ammonia (NH ₃)	IS:5182 (Part 25)	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	IS:5182 (Part 22) : 2019	<5.0	ng/m ³	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	<15.0	ng/m ³	20

Ambient Air Quality Monitoring (Nearby Village)						Quarterly Monitoring - Oct'2023 to Dec'2023					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
1	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-570/011123-1	31/10/2023	01/11/2023 to 06/11/2023	Billiya	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	13.40	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	27.9	µg/m ³	80
							Particulate Matter (PM 2.5)	EKO/CHEM/SOP/AAQ-01	52.7	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	85.3	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	<0.1	µg/m ³	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	1.17	mg/m ³	4
							Ammonia (NH ₃)	APHA Method 401	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	EKO/CHEM/SOP/AAQ-02	<5.0	ng/m ³	6
							Nickel (as Ni)	EKO/CHEM/SOP/AAQ-02	<15.0	ng/m ³	20

Ambient Air Quality Monitoring (Nearby Village)						Quarterly Monitoring - Oct'2023 to Dec'2023					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
2	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-569/011123-1	28/10/2023	01/11/2023 to 06/11/2023	Nagari	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	12.30	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	31.4	µg/m ³	80
							Particulate Matter (PM 2.5)	EKO/CHEM/SOP/AAQ-01	56.8	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	91.2	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	<0.1	µg/m ³	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	1.25	mg/m ³	4
							Ammonia (NH ₃)	APHA Method 401	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	EKO/CHEM/SOP/AAQ-02	<5.0	ng/m ³	6
							Nickel (as Ni)	EKO/CHEM/SOP/AAQ-02	<15.0	ng/m ³	20

Ambient Air Quality Monitoring (Nearby Village)						Quarterly Monitoring - Oct'2023 to Dec'2023					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
3	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-572/011123-1	29/10/2023	01/11/2023 to 06/11/2023	Anwalhera	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	11.30	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	27.4	µg/m ³	80
							Particulate Matter (PM 2.5)	EKO/CHEM/SOP/AAQ-01	49.6	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	88.5	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	<0.1	µg/m ³	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	1.09	mg/m ³	4
							Ammonia (NH ₃)	APHA Method 401	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	EKO/CHEM/SOP/AAQ-02	<5.0	ng/m ³	6
							Nickel (as Ni)	EKO/CHEM/SOP/AAQ-02	<15.0	ng/m ³	20

Ambient Air Quality Monitoring (Nearby Village)					
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Ambient Air Quality Monitoring (Nearby Village)											
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Quarterly Monitoring - Oct'2023 to Dec'2023			
							Method of Test	Results	Unit	NAAQS*	
4	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-568/011123-1	31/10/2023	01/11/2023 to 06/11/2023	Munga Ka Khera	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	12.70	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	34.2	µg/m ³	80
							Particulate Matter (PM 2.5)	EKO/CHEM/SOP/AAQ-01	52.8	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	93.5	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	<0.1	µg/m ³	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	1.21	mg/m ³	4
							Ammonia (NH ₃)	APHA Method 401	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	EKO/CHEM/SOP/AAQ-02	<5.0	ng/m ³	6
							Nickel (as Ni)	EKO/CHEM/SOP/AAQ-02	<15.0	ng/m ³	20

Ambient Air Quality Monitoring (Nearby Village)						Quarterly Monitoring - Oct'2023 to Dec'2023					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
5	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-571/011123-1	28/10/2023	01/11/2023 to 06/11/2023	Ajoliya Ka Khera	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	11.70	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	30.2	µg/m ³	80
							Particulate Matter (PM 2.5)	EKO/CHEM/SOP/AAQ-01	50.8	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	82.6	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	<0.1	µg/m ³	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	1.12	mg/m ³	4
							Ammonia (NH ₃)	APHA Method 401	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	EKO/CHEM/SOP/AAQ-02	<5.0	ng/m ³	6
							Nickel (as Ni)	EKO/CHEM/SOP/AAQ-02	<15.0	ng/m ³	20
Ambient Air Quality Monitoring (Nearby Village)											

Ambient Air Quality Monitoring (Nearby Village)						Quarterly Monitoring - Oct'2023 to Dec'2023					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
6	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-567/011123-1	29/10/2023	01/11/2023 to 06/11/2023	Putholi	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	13.90	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	29.6	µg/m ³	80
							Particulate Matter (PM 2.5)	EKO/CHEM/SOP/AAQ-01	51.4	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	89.3	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	<0.1	µg/m ³	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	1.15	mg/m ³	4
							Ammonia (NH ₃)	APHA Method 401	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	EKO/CHEM/SOP/AAQ-02	<5.0	ng/m ³	6
							Nickel (as Ni)	EKO/CHEM/SOP/AAQ-02	<15.0	ng/m ³	20

Ambient Air Quality Monitoring (Nearby Village)						Quarterly Monitoring - Oct'2023 to Dec'2023					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
7	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-543/041123-1	01/11/2023	04/11/2023 to 08/11/2023	Zinc Nagar	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	13.40	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	33.2	µg/m ³	80
							Particulate Matter (PM 2.5)	EKO/CHEM/SOP/AAQ-01	55.1	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	92.3	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	<0.1	µg/m ³	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	1.22	mg/m ³	4
							Ammonia (NH ₃)	APHA Method 401	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	EKO/CHEM/SOP/AAQ-02	<5.0	ng/m ³	6
							Nickel (as Ni)	EKO/CHEM/SOP/AAQ-02	<15.0	ng/m ³	20

Ambient Air Quality Monitoring (Nearby Village)						Quarterly Monitoring - Jan'2024 to Mar'2024					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
1	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-629/260224-1	24/02/2024	26/02/2024 to 01/03/2024	Billiya	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	12.90	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	28.5	µg/m ³	80
							Particulate Matter (PM 2.5)	EKO/CHEM/SOP/AAQ-01	54.5	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	89.3	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	<0.1	µg/m ³	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	1.22	mg/m ³	4
							Ammonia (NH ₃)	APHA Method 401	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	EKO/CHEM/SOP/AAQ-02	<5.0	ng/m ³	6
							Nickel (as Ni)	EKO/CHEM/SOP/AAQ-02	<15.0	ng/m ³	20

Ambient Air Quality Monitoring (Nearby Village)						Quarterly Monitoring - Jan'2024 to Mar'2024					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
2	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-628/260224-1	22/02/2024	26/02/2024 to 01/03/2024	Nagari	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	12.90	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	32.8	µg/m ³	80
							Particulate Matter (PM 2.5)	EKO/CHEM/SOP/AAQ-01	57.4	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	96.3	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	<0.1	µg/m ³	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	1.22	mg/m ³	4
							Ammonia (NH ₃)	APHA Method 401	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	EKO/CHEM/SOP/AAQ-02	<5.0	ng/m ³	6
							Nickel (as Ni)	EKO/CHEM/SOP/AAQ-02	<15.0	ng/m ³	20

Ambient Air Quality Monitoring (Nearby Village)						Quarterly Monitoring - Jan'2024 to Mar'2024					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
3	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-630/260224-1	22/02/2024	26/02/2024 to 01/03/2024	Anwalhera	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	12.80	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	29.6	µg/m ³	80
							Particulate Matter (PM 2.5)	EKO/CHEM/SOP/AAQ-01	52.3	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	93.5	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	<0.1	µg/m ³	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	1.13	mg/m ³	4
							Ammonia (NH ₃)	APHA Method 401	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	EKO/CHEM/SOP/AAQ-02	<5.0	ng/m ³	6
							Nickel (as Ni)	EKO/CHEM/SOP/AAQ-02	<15.0	ng/m ³	20

Ambient Air Quality Monitoring (Nearby Village)					
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Ambient Air Quality Monitoring (Nearby Village)						Quarterly Monitoring - Jan'2024 to Mar'2024					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
4	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-626/260224-1	21/02/2024	26/02/2024 to 01/03/2024	Munga Ka Khera	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	12.30	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	33.2	µg/m ³	80
							Particulate Matter (PM 2.5)	EKO/CHEM/SOP/AAQ-01	55.7	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	90.5	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	<0.1	µg/m ³	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	1.25	mg/m ³	4
							Ammonia (NH ₃)	APHA Method 401	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	EKO/CHEM/SOP/AAQ-02	<5.0	ng/m ³	6
							Nickel (as Ni)	EKO/CHEM/SOP/AAQ-02	<15.0	ng/m ³	20

Ambient Air Quality Monitoring (Nearby Village)						Quarterly Monitoring - Jan'2024 to Mar'2024					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
5	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-627/260224-1	21/02/2024	26/02/2024 to 01/03/2024	Ajoliya Ka Khera	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	11.20	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	29.6	µg/m ³	80
							Particulate Matter (PM 2.5)	EKO/CHEM/SOP/AAQ-01	52.4	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	85.6	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	<0.1	µg/m ³	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	1.24	mg/m ³	4
							Ammonia (NH ₃)	APHA Method 401	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	EKO/CHEM/SOP/AAQ-02	<5.0	ng/m ³	6
							Nickel (as Ni)	EKO/CHEM/SOP/AAQ-02	<15.0	ng/m ³	20

Ambient Air Quality Monitoring (Nearby Village)						Quarterly Monitoring - Jan'2024 to Mar'2024					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
6	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-625/260224-1	20/02/2024	26/02/2024 to 01/03/2024	Putholi	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	12.80	µg/m ³	80
							Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	27.4	µg/m ³	80
							Particulate Matter (PM 2.5)	EKO/CHEM/SOP/AAQ-01	56.4	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	92.3	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	<0.1	µg/m ³	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	1.19	mg/m ³	4
							Ammonia (NH ₃)	APHA Method 401	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	EKO/CHEM/SOP/AAQ-02	<5.0	ng/m ³	6
							Nickel (as Ni)	EKO/CHEM/SOP/AAQ-02	<15.0	ng/m ³	20

Ambient Air Quality Monitoring (Nearby Village)						Quarterly Monitoring - Jan'2024 to Mar'2024					
S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Method of Test	Results	Unit	NAAQS*
7	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/E-624/260224-1	20/02/2024	26/02/2024 to 01/03/2024	Zinc Nagar	Sulphur Dioxide (SO ₂)	IS:5182 (Pt-2) : 2017	14.50	µg/m ³	80
						Zinc Nagar	Nitrogen Dioxide (NO ₂)	IS:5182 (Pt-6) :2018	30.2	µg/m ³	80
							Particulate Matter (PM 2.5)	EKO/CHEM/SOP/AAQ-01	58.4	µg/m ³	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	96.3	µg/m ³	100
							Ozone (O ₃)	IS:5182 (Part - 9):2019	<10.0	µg/m ³	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	<0.1	µg/m ³	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	1.16	mg/m ³	4
							Ammonia (NH ₃)	APHA Method 401	<20.0	µg/m ³	400
							Benzene (C ₆ H ₆)	IS:5182 (Part 11) : 2017	<1.0	µg/m ³	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m ³	1
							Arsenic (as As)	EKO/CHEM/SOP/AAQ-02	<5.0	ng/m ³	6
							Nickel (as Ni)	EKO/CHEM/SOP/AAQ-02	<15.0	ng/m ³	20

Location :- Near CISF Colony, C1			Ambient Noise Level Monitoring			Quarterly Monitoring - Apr'2023 to Jun'2023				
Report No.	Date of Sample	Date of Test	Parameter	Method of Test	Unit	Result	CPCB Standard as per Noise Pollution Rules 2000 (Day- 6:00am to 10:00pm, Night- 10:00pm to 6:00am)			
EKO/E-654/ 010623	30/05/2023	01/06/2023 to 02/06/2023	Leq Day	IS-9989:2014	dB(A)	68.2	Industrial Area	Commercial Area	Residential Area	Silence Zone
			Leq Night			52.3	75	65	55	50
							70	55	45	40

Location :- Near Loco Shed, C2			Ambient Noise Level Monitoring			Quarterly Monitoring - Apr'2023 to Jun'2023				
Report No.	Date of Sample	Date of Test	Parameter	Method of Test	Unit	Result	CPCB Standard as per Noise Pollution Rules 2000 (Day- 6:00am to 10:00pm, Night- 10:00pm to 6:00am)			
EKO/E-655/ 010623	29/05/2023	01/06/2023 to 02/06/2023	Leq Day	IS-9989:2014	dB(A)	68.2	Industrial Area	Commercial Area	Residential Area	Silence Zone
			Leq Night			52.9	75	65	55	50
							70	55	45	40

Location :- Near Slag Gate			Ambient Noise Level Monitoring			Quarterly Monitoring - Apr'2023 to Jun'2023				
Report No.	Date of Sample	Date of Test	Parameter	Method of Test	Unit	Result	CPCB Standard as per Noise Pollution Rules 2000 (Day- 6:00am to 10:00pm, Night- 10:00pm to 6:00am)			
EKO/E-656/ 010623	30/05/2023	01/06/2023 to 02/06/2023	Leq Day	IS-9989:2014	dB(A)	69.1	Industrial Area	Commercial Area	Residential Area	Silence Zone
			Leq Night			53.2	75	65	55	50
							70	55	45	40

Location :- Near CPP DM Plant			Ambient Noise Level Monitoring			Quarterly Monitoring - Apr'2023 to Jun'2023				
Report No.	Date of Sample	Date of Test	Parameter	Method of Test	Unit	Result	CPCB Standard as per Noise Pollution Rules 2000 (Day- 6:00am to 10:00pm, Night- 10:00pm to 6:00am)			
EKO/E-657/ 010623	29/05/2023	01/06/2023 to 02/06/2023	Leq Day	IS-9989:2014	dB(A)	67.8	Industrial Area	Commercial Area	Residential Area	Silence Zone
			Leq Night			54.2	75	65	55	50
							70	55	45	40

Location :- Near CISF Colony, C1			Ambient Noise Level Monitoring			Quarterly Monitoring - Jul'2023 to Sep'2023				
Report No.	Date of Sample	Date of Test	Parameter	Method of Test	Unit	Result	CPCB Standard as per Noise Pollution Rules 2000 (Day- 6:00am to 10:00pm, Night- 10:00pm to 6:00am)			
EKO/E-579/ 160823	10/08/2023	16/08/2023 to 17/08/2023	Leq Day	IS-9989:2014	dB(A)		Industrial Area	Commercial Area	Residential Area	Silence Zone
			Leq Night			69.3	75	65	55	50
			53.6			70	55	45	40	

Location :- Near Loco Shed, C2			Ambient Noise Level Monitoring			Quarterly Monitoring - Jul'2023 to Sep'2023				
Report No.	Date of Sample	Date of Test	Parameter	Method of Test	Unit	Result	CPCB Standard as per Noise Pollution Rules 2000 (Day- 6:00am to 10:00pm, Night- 10:00pm to 6:00am)			
EKO/E-580/ 160823	09/08/2023	16/08/2023 to 17/08/2023	Leq Day	IS-9989:2014	dB(A)	69.3	Industrial Area	Commercial Area	Residential Area	Silence Zone
			Leq Night			53.4	75	65	55	50
						70	55	45	40	

Location :- Near Slag Gate			Ambient Noise Level Monitoring			Quarterly Monitoring - Jul'2023 to Sep'2023				
Report No.	Date of Sample	Date of Test	Parameter	Method of Test	Unit	Result	CPCB Standard as per Noise Pollution Rules 2000 (Day- 6:00am to 10:00pm, Night- 10:00pm to 6:00am)			
EKO/E-581/ 160823	10/08/2023	16/08/2023 to 17/08/2023	Leq Day	IS-9989:2014	dB(A)	68.2	Industrial Area	Commercial Area	Residential Area	Silence Zone
			Leq Night			52.9	75	65	55	50
						70	55	45	40	

Location :- Near DM Plant			Ambient Noise Level Monitoring			Quarterly Monitoring - Jul'2023 to Sep'2023				
Report No.	Date of Sample	Date of Test	Parameter	Method of Test	Unit	Result	CPCB Standard as per Noise Pollution Rules 2000 (Day- 6:00am to 10:00pm, Night- 10:00pm to 6:00am)			
EKO/E-582/ 160823	09/08/2023	16/08/2023 to 17/08/2023	Leq Day	IS-9989:2014	dB(A)	68.2	Industrial Area	Commercial Area	Residential Area	Silence Zone
			Leq Night			55.4	75	65	55	50

Location :- Near CISF Colony, C1			Ambient Noise Level Monitoring				Quarterly Monitoring - Oct'2023 to Dec'2023			
Report No.	Date of Sample	Date of Test	Parameter	Method of Test	Unit	Results	CPCB Standard as per Noise Pollution Rules 2000 (Day- 6:00am to 10:00pm, Night- 10:00pm to 6:00am)			
EKO/E-612/ 091123	07/11/2023	09/11/2023 to 10/11/2023	Leq Day	EKO/CHEM/SOP /S/N-01	dB (A)	70.2	Industrial Area	Commercial Area	Residential Area	Silence Zone
			Leq Night			54.9	75	65	55	50
							70	55	45	40

Location :- Near Loco Shed, C2			Ambient Noise Level Monitoring				Quarterly Monitoring - Oct'2023 to Dec'2023			
Report No.	Date of Sample	Date of Test	Parameter	Method of Test	Unit	Results	CPCB Standard as per Noise Pollution Rules 2000 (Day- 6:00am to 10:00pm, Night- 10:00pm to 6:00am)			
EKO/E-613/ 091123	04/11/2023	09/11/2023 to 10/11/2023	Leq Day	EKO/CHEM/SOP /S/N-01	dB (A)	70.6	Industrial Area	Commercial Area	Residential Area	Silence Zone
			Leq Night			54.9	75	65	55	50
							70	55	45	40

Location :- Near Slag Gate			Ambient Noise Level Monitoring				Quarterly Monitoring - Oct'2023 to Dec'2023			
Report No.	Date of Sample	Date of Test	Parameter	Method of Test	Unit	Results	CPCB Standard as per Noise Pollution Rules 2000 (Day- 6:00am to 10:00pm, Night- 10:00pm to 6:00am)			
EKO/E-614/ 091123	07/11/2023	09/11/2023 to 10/11/2023	Leq Day	EKO/CHEM/SOP /S/N-01	dB (A)	69.5	Industrial Area	Commercial Area	Residential Area	Silence Zone
			Leq Night			51.7	75	65	55	50
							70	55	45	40

Location :- Near DM Plant			Ambient Noise Level Monitoring				Quarterly Monitoring - Oct'2023 to Dec'2023			
Report No.	Date of Sample	Date of Test	Parameter	Method of Test	Unit	Results	CPCB Standard as per Noise Pollution Rules 2000 (Day- 6:00am to 10:00pm, Night- 10:00pm to 6:00am)			
EKO/E-615/ 091123	03/11/2023	09/11/2023 to 10/11/2023	Leq Day	EKO/CHEM/SOP /S/N-01	dB (A)	69.8	Industrial Area	Commercial Area	Residential Area	Silence Zone
			Leq Night			56.3	75	65	55	50
							70	55	45	40

Location :- Near CISF Colony, C1			Ambient Noise Level Monitoring				Quarterly Monitoring - Jan'2024 to Mar'2024			
Report No.	Date of Sample	Date of Test	Parameter	Method of Test	Unit	Results	CPCB Standard as per Noise Pollution Rules 2000 (Day- 6:00am to 10:00pm, Night- 10:00pm to 6:00am)			
							Industrial Area	Commercial Area	Residential Area	Silence Zone
EKO/E-620/ 260224	23/02/2024	26/02/2024 to 27/02/2024	Leq Day	IS : 9989	dB (A)	71.8	75	65	55	50
			Leq Night			55.6	70	55	45	40

Location :- Near Loco Shed, C2			Ambient Noise Level Monitoring				Quarterly Monitoring - Jan'2024 to Mar'2024			
Report No.	Date of Sample	Date of Test	Parameter	Method of Test	Unit	Results	CPCB Standard as per Noise Pollution Rules 2000 (Day- 6:00am to 10:00pm, Night- 10:00pm to 6:00am)			
							Industrial Area	Commercial Area	Residential Area	Silence Zone
EKO/E-621/ 260224	23/02/2024	26/02/2024 to 27/02/2024	Leq Day	IS : 9989	dB (A)	70.9	75	65	55	50
			Leq Night			55.2	70	55	45	40

Location :- Near Slag Gate			Ambient Noise Level Monitoring				Quarterly Monitoring - Jan'2024 to Mar'2024			
Report No.	Date of Sample	Date of Test	Parameter	Method of Test	Unit	Results	CPCB Standard as per Noise Pollution Rules 2000 (Day- 6:00am to 10:00pm, Night- 10:00pm to 6:00am)			
							Industrial Area	Commercial Area	Residential Area	Silence Zone
EKO/E-622/ 260224	23/02/2024	26/02/2024 to 27/02/2024	Leq Day	IS : 9989	dB (A)	69.5	75	65	55	50
			Leq Night			51.8	70	55	45	40

Location :- Near DM Plant			Ambient Noise Level Monitoring				Quarterly Monitoring - Jan'2024 to Mar'2024			
Report No.	Date of Sample	Date of Test	Parameter	Method of Test	Unit	Results	CPCB Standard as per Noise Pollution Rules 2000 (Day- 6:00am to 10:00pm, Night- 10:00pm to 6:00am)			
							Industrial Area	Commercial Area	Residential Area	Silence Zone
EKO/E-623/ 260224	23/02/2024	26/02/2024 to 27/02/2024	Leq Day	IS : 9989	dB (A)	70.2	75	65	55	50
			Leq Night			55.9	70	55	45	40

HZL/CLZS/ENV/HAZ/46

To

Member Secretary,
Rajasthan State Pollution Control Board
4, Institutional Area
Jhalan Doongri, JAIPUR-302004

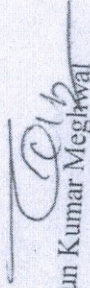
Sub- Hazardous Waste Annual Statement (Form 4)

Dear Sir,

Please find enclosed herewith a copy of Hazardous Waste Annual Statement (Form 4) for the Year 2023-24 as per Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. This is for your kind information and record please.

Thanking you

Yours faithfully


Tarun Kumar Meghwal

Associate General Manager – Environment

g/c

cc: RO-RSPCB 25/88
Near FCI Godown
Chanderiya, Chittorgarh (Raj).

Hindustan Zinc Limited

Registered Office

Yashad Bhawan, Udaipur-313 004, Rajasthan, INDIA.
T. +91 294-6604000-02 | www.hzindia.com
CIN: L27204RJ1966PLC001208

Chanderiya Lead Zinc Smelter
P.O. Putholi, Chittorgarh-312021,
Rajasthan, INDIA.



ANNEXURE -V

Date-14.06.2024

FORM 4

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

FORM FOR FILING ANNUAL RETURNS

[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:

Chanderiya Lead Zinc Smelter
Hindustan Zinc Limited
P.O. Putholi -312021
Chittorgarh (Rajasthan)

2. Authorisation No. and Date of issue:

Renewal RPCB/HWM/2020-2021/HSW/HSW/47 dated 03.06.2020
Amendment RPCB/HWM/2021-2022/HDF/HSW/95 dated 27.01.2022

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

Tarun Kumar Meghwal
Associate General Manager-Environment
Chanderiya Lead Zinc Smelter, Hindustan Zinc Limited
Chittorgarh (Raj)
01472-254412
Email – tarun.meghwal@vedanta.co.in

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

1. Zinc – 500897 MT
2. Lead – 94983 MT

Part A. To be filled by hazardous waste generators

1. Total quantity of waste generated category wise -

Total Generation – 44398.04 MT & 1103 Nos (For details refer Annexure 1)

2. Quantity dispatched

- (i) to disposal facility – Disposed: 20568.02 MT & 1103 Nos
- (ii) to recycler or co-processors or pre-processor – To Recycler: 11473.014 MT
- (iii) others

3. Quantity utilised in-house, if any – 12309.8 MT

Hindustan Zinc Limited

Registered Office

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CIN: L27204RJ1966PLC001208

Chanderiya Lead Zinc Smelter
P.O. Putholi, Chittorgarh-312021,
Rajasthan, INDIA.





vedanta
transforming for good



HINDUSTAN ZINC
Zinc & Silver of India

4. Quantity in storage at the end of the year – 705.724 MT

Part B. To be filled by Treatment, storage and disposal facility operators

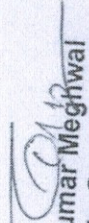
1. Total quantity received – 20568.02 MT & 1103 Nos
2. Quantity in stock at the beginning of the year - NA
3. Quantity treated – 20568.02 MT & 1103 Nos
4. Quantity disposed in landfills as such and after treatment – 20568.02 MT & 1103 Nos
5. Quantity incinerated (if applicable) - NA
6. Quantity processed 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 –
(i) domestic sources – 0 MT
(ii) imported (if applicable) - NA
2. Quantity in stock at the beginning of the year - 0
3. Quantity recycled or co-processed or used – 0 MT
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

Date - 14 June 2024

Chittorgarh


Tarun Kumar Meghwal
Associate General Manager
Environment

Hindustan Zinc Limited

Registered Office
Yashad Bhawan, Udaipur-313 004, Rajasthan, INDIA.
T. +91 294-6604000-02 | www.hindia.com
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Chanderiya Lead Zinc Smelter
P.O. Putholi, Chittorgarh-312021,
Rajasthan, INDIA.

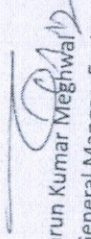


ANNEXURE 1

S.No	Type of Hazardous Waste	Category		MTA	FY 2023-24
		Sch	Code		
1	Spent Catalyst	I	17.2	Generation Sale 24.24 0.00	
2	Empty barrels/containers contaminated with hazardous chemical/waste	I	33.1	Disposal/Reuse Generation Sale 24.24 1103.00 0.00	Disposed off to SLF
3	Water Purification Resin	I	34.2	Disposal/Reuse Generation Sale 1103.00 0	Disposed off to SLF
4	Exhaust Air or Gas cleaning residue	I	35.1	Disposal/Reuse Generation Sale 0 0	
5	Spent ion exchange resin containing toxic metals	I	35.2	Disposal/Reuse Generation Sale 0 0	
6	Ash from incinerator and flue gas cleaning residues(bag filters)	I	37.2	Disposal/Reuse Generation Sale 0 1.50 0.00	
7	Used or spent oil	I	5.1	Disposal/Reuse Generation Sale 1.50 55.72	Disposed off to SLF
8	Waste Oil	I	5.2	Disposal/Reuse Generation Sale 54.28 0.99 0.00	Registered Recycler
9	Anode Mud	I	7.2	Disposal/Reuse Generation Sale 0.00 0.00	
10	Antimony Dross	I	7.2	Disposal/Reuse Generation Sale 93.184 76.125 17.06	Registered Recycler Reuse in process
11	Cobalt Cake	I	7.2	Disposal/Reuse Generation Sale 915.00 860.61 64.00	Registered Recycler Reuse in process
12	Cooler Cake	I	7.2	Disposal/Reuse Generation Sale 0 0 5811.61	
13	Copper Bearing lead residue/process residue	I	7.2	Disposal/Reuse Generation Sale 0.00 5811.61 10783.245	Disposed off to SLF
14	Enrichment Cake	I	7.2	Disposal/Reuse Generation Sale 3967.048 6816.20 2901.00	Registered Recycler Reuse in process
15	HGP Dust	I	7.2	Disposal/Reuse Generation Sale 883.08 1989.27 2445.03	Registered Recycler Reuse in process
16	Purification Cake	I	7.2	Disposal/Reuse Generation Sale 870.16 1550.21 3618.63	Registered Recycler Reuse in process
				1743.52 1871.36	Registered Recycler Reuse in process

17	Non-Ferrous Sludge from ETP and scrubbers (ETP Sludge)	I	7.4	Generation Sale	12973.09	Registered Recycler
18	Mercury and mercury compounds	II	A6	Disposal/Reuse Generation	302.89 12670.20	Disposed off to SLF
19	MEE Salt	I	37.3	Sale Disposal/Reuse Generation	0 0 2052.88	
20	Wastes/residues containing oil (Cloth and hand gloves)	I	5.2	Sale Disposal/Reuse Generation	0 0.00 2052.88	Disposed off to SLF
21	ISF Dross	I	7.2	Sale Disposal/Reuse Generation	7.59 0.00 2715.32	Disposed off to SLF
22	Blue Powder	I	7.2	Sale Disposal/Reuse Generation	2715.32 0.00 0.00	Registered Recycler

S.No	Type of Non- Hazardous Waste	Category				
1	Jarosite Cake		Generation	MTA	390213	
			Sale		24564	Jarosite to Cement
					80417	Jarofix to Highway
2	ISF Slag		Disposal/Reuse		390213	Disposed off to Jarofix
			Generation		71976.03	Yard Landfill
			Sale		21296.32	Cement
3	Ausmelt Slag	Non Hazardous	Disposal/Reuse		4163.00	Reuse in process
			Generation		28361.94	
			Sale		2702.16	
4	Fly Ash		Disposal/Reuse		43983.33	Reuse (MCTP)
			Generation		201208.75	
			Sale		201208.75	Cement
			Disposal/Reuse		0.00	
5	Bottom Ash		Generation		75468.56	
			Sale		75468.56	Cement/Bricks
			Disposal/Reuse		0.00	


 Tarun Kumar Meghwal
 Associate General Manager- Environment



Registered

File No: F(HSW)/Chittorgarh(Chittorgarh)/60/2008-2009/876-878

Date:- 03/06/2020

Unit Id : 263

M/s Hindustan Zinc Ltd.

Chandaria Lead Zinc Smelter, P.O. Putholi, Tehsil:Gangrar
District:CHITTORGARH

Sub:- Authorization for operating a facility for Collection, Disposal, Generation, Reception, Recycling, Reuse, Storage, Treatment of Hazardous Wastes Under Hazardous and Other Waste (Management and Transboundary Movement) Rules, 2016.

Ref:- Your application dated : 17/12/2018 received on 17/12/2018 and subsequent corresponde
Sir

- 1 Number of authorization RPCB/HWM/2020-2021/HSW/HSW/47.
- 2 Application Number : 230639 dated : 17/12/2018.

3 LOCATION HEAD of M/s Hindustan Zinc Ltd. is hereby granted an authorization based on the enclosed signed inspection report for Collection, Disposal, Generation, Reception, Recycling, Reuse, Storage, Treatment of Hazardous waste on the premises situated at Chandaria Lead Zinc Smelter, Tehsil: Gangrar District: Chittorgarh.

Details of Authorization

SNo	Type of Hazardous waste	Category		Quantity/ Unit	Hazardous Waste Disposal Practice
		Sch	Code		
1	Spent catalyst*	I	17.2	60.00 KLA	SLF/Sold to registered recycler
2	Empty barrels/containers contaminated with hazardous chemicals/wastes	I	33.1	1400.00 NOS./YEAR	SLF/Sold to registered recycler
3	Water Purification Resin	I	34.2	2.00 MTPA	SLF/Sold to registered recycler
4	Exhaust Air or Gas cleaning residue	I	35.1	100.00 KG/YEAR	Approved Incinerator
5	Spent ion exchange resin containing Toxic metals	I	35.2	1.00 MTPA	SLF/Sold to registered recycler





Registered

File No: F(HSW)/Chittorgarh(Chittorgarh)/60/2008-2009/876-878

Date:- 03/06/2020

Unit Id : 263

6	Ash from incinerator and flue gas cleaning residues	I	37.2	2.00 MTPA	SLF/Sold to registered recycler
7	Used or spent oil	I	5.1	80.00 KLA	Sold To registered recycler
8	Waste Oil	I	5.2	270.00 KLA	Sold To registered recycler
9	Anode Mud	I	7.2	2200.00 MTPA	SLF/Sold to registered recycler
10	Antimony Dross	I	7.2	2500.00 MTPA	SLF/Sold to registered recycler
11	Cobalt cake	I	7.2	1000.00 MTPA	SLF/Sold to registered recycler
12	cooler cake	I	7.2	5000.00 MTPA	SLF/Sold to registered recycler
13	Copper Bearing lead residue/process residue	I	7.2	14000.00 MTPA	SLF/Sold to registered recycler
14	Enrichment cake	I	7.2	9520.00 MTPA	SLF/Sold to registered recycler
15	HGP Dust	I	7.2	7500.00 MTPA	SLF/Sold to registered recycler
16	Purification Cake	I	7.2	3000.00 MTPA	SLF/Sold to registered recycler
17	Non-Ferrous Sludge from ETP and scrubbers	I	7.4	9600.00 MTPA	SLF/Sold to registered recycler
18	Mercury and mercury compounds	II	A6	22.00 MTPA	SLF/Sold to registered recycler
19	Zinc Dross/Zinc Skimming/Zinc Scrap/Zinc Residue	IV	...	25000.00 MTPA	Used as raw material

4 The authorization shall be in force for period from 01/05/2019 to 30/04/2024 .





Registered

File No: F(HSW)/Chittorgarh(Chittorgarh)/60/2008-2009/876-878

Unit Id : 263

Date:- 03/06/2020

The authorization is subject to the following general and specific conditions :

A. General conditions of Authorization

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
2. The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.
3. The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.
4. Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.
5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;

Signature Not Verified
Reason: Signature not verified

6. The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty"
7. It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility.
8. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
9. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
10. The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilisation of imported hazardous or other wastes shall be treated and disposed





Registered

File No: F(HSW)/Chittorgarh(Chittorgarh)/60/2008-2009/876-878
Unit Id : 263

Date:- 03/06/2020

of as per specific conditions of authorisation.

11. The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
12. An application for the renewal of an authorisation shall be made as laid down under these Rules.
13. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
14. Annual return shall be filed by June 30th for the period ensuring 31st March of the year.

B. Specific Conditions

- 5 That this authorization shall ceased to be valid & shall be liable to be revoked without any further notice in case of refusal/expiry of consent to operate under the provisions of Water(Prevention and Control of Pollution) Act,1974 and Air(Prevention and Control of Pollution) Act,1981 by the State Board.
- 6 That no recycling/re-processing of the hazardous waste covered under schedule IV shall be carried out without prior authorisation from Rajasthan State Pollution Control Board as recycler/ re-processor of hazardous waste under the rule 6 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
Signature Not Verified
Date: 2020/06/16 15:26:57
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- 7 That no other hazardous waste shall be utilized for co-processing as a supplementary resource or for energy recovery, or after processing without prior & valid approval of Central Pollution Control Board under the rule 9 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
- 8 That in case of any expansion or change in process or product or change in mode / practice of disposal of hazardous waste or its quantity, industry shall obtain fresh authorization.
- 9 That the arrangements for transportation of the hazardous waste for disposal shall be done by the authorized/dedicated vehicles only after obtaining authorisation and any environmental damages during Transportation shall be borne by sender/receiver whoever arrange the transportation.
- 10 That unit will submit Emergency Response Plan within one month.
- 11 That unit will label the hazardous waste containers in Form-8 of the Rules, within one month.





Registered

File No: F(HSW)/Chittorgarh(Chittorgarh)/60/2008-2009/876-878
Unit Id : 263

Date:- 03/06/2020

- 12 That unit will develop plantation for gap filling.
- 13 That unit will deploy truck mounted vacuum operated road sweepers.
- 14 That unit will improve and strengthen water spraying system in raw material handling in storage yard.
- 15 That unit will repair and maintain the internal roads so as to avoid dust emission due to movement of vehicles.
- 16 That unit will renew their membership of UCCI Udaipur within one month.
- 17 That unit will strictly comply the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016 and comply the guidelines of CPCB for Jarofix.
- 18 The authorization is subject to the conditions stated at Annexure "A" enclosed with the authorization letter and the such conditions as may be specified in the Rules for the time being forced under the Environmental (Protection) Act, 1986.
- 19 The unit has to display and maintain the data online outside the factory main gate in Hindi & English both on a 6'X 4' display board in the manner & format prescribed at Annexure "B" and the report of the Compliance along with photograph shall be submitted to this office & Regional Office, time to time.
Digitally signed by Viraj Mathur
DN: cn=Viraj Mathur, o=Chittorgarh, ou=Chittorgarh, email=Viraj.Mathur@rajpcb.gov.in, c=IN
Reason: Satisfactory
Location: Jaipur
Date: 2020.06.03 15:26 IST
- 20 That the annual reports/returns in the form prescribed under the Rules shall be submitted to the Board by 30th June of every year and records of hazardous waste Generation, handling & management shall be maintained according to the provisions of the Hazardous Waste (Management and Transboundary Movement) Rules, 2016 and shown & submitted to the Board as and when asked for.
- 21 The hazardous waste should not be stored for a period beyond 90 days, failing which the authorization shall deemed to be revoked.
- 22 It shall be ensured that the Hazardous waste is handled, managed & disposed of strictly in accordance with the Hazardous and Other Waste (Management and Transboundary Movement) Rules, 2016. Non compliance of the Rules or any of the conditions contained in the authorization shall be tantamount to automatic cancellation/revocation of the authorization.
- 23 The operator of the facility shall liable to comply any other conditions as per the guidelines issued by the MoEF or CPCB or State Board related to collection, disposal, reception, storage & treatment of hazardous waste.





Registered

File No: F(HSW)/Chittorgarh(Chittorgarh)/60/2008-2009/876-878
Unit Id : 263

Date:- 03/06/2020

- 24 That Authorization is issued under the provisions of Hazardous and Other Waste (Management and Transboundary Movement) Rules, 2016 from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with conditions laid down in all other for the time-being in force, rests with the industry/unit/project proponent.
- 25 That this Authorization shall not, in any way, adversely affect or jeopardize the legal proceeding, if any, instituted in the past or that could be instituted against you by the State Board for violation of the provisions of the Act or the Rules made thereunder.

This bears the approval of the competent authority.

Yours Sincerely

Signature Not Verified
Digitally signed by Group Incharge
Date: 2020.06.04 15:20:15 IST
Reason: Self Attested
Location:

Group Incharge

Copy To:-

- 1 Regional Officer, Regional Office, Rajasthan State Pollution Control Board, Chittorgarh you are requested to ensure the compliance of authorisation conditions under the Hazardous and Other Waste (Management and Transboundary Movement) Rules, 2016
- 2 Master File

Group Incharge





Registered

File No: F(HSW)/Chittorgarh(Gangrar)/7061(1)/2021-2022/5969-5972

Unit Id : 263

Date:- 27/01/2022

M/s Hindustan Zinc Ltd.

Chandaria Lead Zinc Smelter, P.O. Putholi , Tehsil-Gangrar
District:CHITTORGARH

Sub:- Authorization for operating a facility for Collection, Disposal, Disposal at landfill, Generation, Reception, Recovery, Recycling, Reuse, Storage, Transport, Treatment, Utilisation, Waste Processing of Hazardous Wastes Under Hazardous and Other Waste (Management and Transboundary Movement) Rules, 2016.

Ref:- Your application dated : 06/01/2021 received on 06/01/2021 and subsequent corresponde
Sir

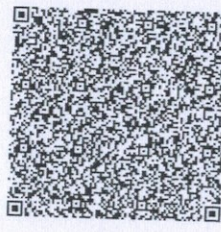
- 1 Number of authorization RPCB/HWM/2021-2022/HDF/HSW/95.
- 2 Application Number : 272506 dated : 06/01/2021 .

- 3 Sr Manager of M/s Hindustan Zinc Ltd. is hereby granted an authorization based on the enclosed signed inspection report for Collection, Disposal, Disposal at landfill, Generation, Reception, Recovery, Recycling, Reuse, Storage, Transport, Treatment, Utilisation, Waste Processing of Hazardous waste on the premises situated at Chandaria Lead Zinc Smelter, PO Putholi Tehsil: Gangrar District: Chittorgarh.

Signature Not Verified
Date: 27/01/2022
By: [Signature]
Name: [Name]
Designation: [Designation]

Details of Authorization

SNo	Type of Hazardous waste	Category		Quantity/ Unit	Hazardous Waste Disposal Practice
		Sch	Code		
1	Process Residues and Wastes	I	28.1	11471.00 MTPA	Captive SLF/Coprocessing/Sa les to registered recyclers
2	Filters and filter material which have organic liquids in them, e.g. mineral oil, synthetic oil and	I	29.1	100.00 MTPA	SLF/Coprocessing/In cineration/Sales to registered recyclers
3	MEE Salt	I	37.3	5000.00 MTPA	SLF/Registered recycler





Registered

File No: F(HSW)/Chittorgarh(Gangrar)/7061(1)/2021-2022/5969-5972
Unit Id : 263

Date:- 27/01/2022

4	Used or spent oil	I	5.1	16.00 KL/ANNUUM	Reuse/ Sales to Registered Recycler
5	Wastes/residues containing oil (Cloth and hand gloves)	I	5.2	10.00 MTPA	SLF/Sold to registered recycler/Reuse the process
6	cooler cake	I	7.2	1000.00 MTPD	SLF/Sold to registered recycler/Reuse the process
7	Enrichment cake	I	7.2	3000.00 MTPA	SLF/Sold to registered recycler
8	Non-Ferrous Sludge from ETP and scrubbers	I	7.4	4000.00 MTPA Signature Not Verified MTPA Digitally signed by F(HSW)/Chittorgarh(Gangrar)/7061(1)/2021-2022/5969-5972 Reason: Signature Location	SLF/Sold to registered recycler/Reuse the process
9	Jerosite Cake	II	Class A	450000.00 MTPA	Jarofix yard/Utilization in cement industry

4 The authorization shall be in force for period from 06/01/2021 to 30/04/2024 .





Registered

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The authorization is subject to the following general and specific conditions :

A. General conditions of Authorization

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
2. The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.
3. The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.
4. Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute breach of his authorisation.
Signature Not Verified
Date: 27/01/2022
Name: Subodh Kumar
Location: Jaipur
5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;
6. The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty"
7. It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility.
8. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
9. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
10. The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilisation of imported hazardous or other wastes shall be treated and disposed





Registered

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Date:- 27/01/2022

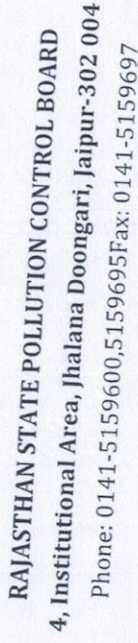
of as per specific conditions of authorisation.

11. The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
12. An application for the renewal of an authorisation shall be made as laid down under these Rules.
13. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
14. Annual return shall be filed by June 30th for the period ensuring 31st March of the year.

B. Specific Conditions

- 5 That this authorization shall ceased to be valid & shall be liable to be revoked without any further notice in case of refusal/expiry of consent to operate under the provisions of Water(Prevention and Control of Pollution) Act,1974 and Air(Prevention and Control of Pollution) Act,1986 by the State Board.
- 6 That no recycling/ re-processing of the hazardous waste covered under schedule IV shall be carried out without prior authorization from Rajasthan State Pollution Control Board as recycler/ re-processor of hazardous waste under the rule 6 of the Hazardous and Other Wastes (Management and Transboundary Movement)Rules, 2016.
- 7 That no hazardous waste shall be utilised for co-processing as a supplementary resource or for energy recovery or after processing without prior and valid approval of Central Pollution Control Board under the rule 9 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
- 8 That in case of any expansion or change in process or product or change in mode/ practice of disposal of hazardous waste or its quantity, fresh authorization shall be obtained.
- 9 That the arrangements for transportation of the hazardous waste for disposal shall be done by the authorized/ dedicated vehicles only and any environmental damages during Transportation shall be borne by sender/ receiver whoever arranges the transportation.
- 10 That industry shall collect and dispose the ISF Dross @ 10,000 MTPA and Blue Powder @ 20,000MTPA in the SLF/Sold to registered recycler/Reuse the process in accordance with the provisions of the Hazardous and Other Wastes (Management and Transboundary Movement)Rules, 2016.





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- That the industry shall comply with all the conditions of the Authorization issued by the State Board vide letter no. F(HSW)/Chittorgarh (Chittorgarh)/60/2008-2009/ 876-878 dated 03.06.2020 and Passbook on 30.11.2021, which are valid upto 30.04.2024.
- The authorization is subject to the conditions stated at Annexure "A" enclosed with the authorization letter and the such conditions as may be specified in the Rules for the time being forced under the Environmental (Protection) Act, 1986.
- The unit has to display and maintain the data online outside the factory main gate in Hindi & English both on a 6'X 4' display board in the manner & format prescribed at Annexure "B" and the report of the Compliance along with photograph shall be submitted to this office & Regional Office, time to time.
- That the annual reports/returns in the form prescribed under the Rules shall be submitted to the Board by 30th June of every year and records of hazardous waste Generation, handling & management shall be maintained according to the provisions of the Hazardous Waste (Management and Transboundary Movement) Rules, 2016 and shown & submitted to the Board as and when asked.
Signature Not Verified
Date: 2023.01.27 16:17:57
Security, Rajasthan
- The hazardous waste should not be stored for a period beyond 90 days, failing which the authorization shall deemed to be revoked.
- It shall be ensured that the Hazardous waste is handled, managed & disposed of strictly in accordance with the Hazardous and Other Waste (Management and Transboundary Movement) Rules, 2016. Non compliance of the Rules or any of the conditions contained in the authorization shall be tantamount to automatic cancellation/revocation of the authorization.
- The operator of the facility shall liable to comply any other conditions as per the guidelines issued by the MoEF or CPCB or State Board related to collection, disposal, reception, storage & treatment of hazardous waste.
- That Authorization is issued under the provisions of Hazardous and Other Waste (Management and Transboundary Movement) Rules, 2016 from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with conditions laid down in all other for the time-being in force, rests with the industry/unit/project proponent.



RAJASTHAN STATE POLLUTION CONTROL BOARD
4, Institutional Area, Jhalana Doongari, Jaipur-302 004
Phone: 0141-5159600,5159695 Fax: 0141-5159697

Registered

File No: F(HSW)/Chittorgarh(Gangrar)/7061(1)/2021-2022/5969-5972

Unit Id : 263

Date:- 27/01/2022

- 19 That this Authorization shall not, in any way, adversely affect or jeopardize the legal proceeding, if any, instituted in the past or that could be instituted against you by the State Board for violation of the provisions of the Act or the Rules made thereunder.

This bears the approval of the competent authority.

Yours Sincerely

Group Incharge

Copy To:-

- 1 Regional Officer, Regional Office, Rajasthan State Pollution Control Board Chittorgarh to ensure compliance of the order
- 2 Master File SWMC Cell, RPCB, Jaipur
- 3 Master File

Digitally signed by Regional Officer, Rajasthan State Pollution Control Board Chittorgarh
Reason: Signed by Regional Officer, Rajasthan State Pollution Control Board Chittorgarh
Location: Jaipur
Date: 2022.01.27 17:17 IST

Group Incharge

