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HINDUSTAN ZINC
Zinc & Silver of India

HZL/CLZS/2023/53/2023-24 **20.09.2023**

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

Sub: Environment Statement for the year 2022-23 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 2022-23 for Chanderia Lead Zinc Smelter Unit, Chittorgarh Rajasthan.

Thanking you,

Yours faithfully,
For Hindustan Zinc Limited

(Tarun Meghwal) 20/09/23
AGM & Head Environment
Chanderiya Lead Zinc Smelter

ENVIRONMENT STATEMENT

FOR

THE

YEAR 2022-2023

FOR

CHANDERIYA LEAD ZINC SMELTER

CHITTORGARH

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HINDUSTAN ZINC
Zinc & Silver of India

ENVIRONMENT STATEMENT FOR THE YEAR 2022-2023

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 Primary (STC) Secondary (SIC)	Red/Large F.LRJ-17425 SL NO.20120 of Industrial (Development & Regulation Act 1951) IDR 157(91)15.07.1991 --	
(3)	Production capacity	**PYRO PLANT**	**AUSMELT**
	A. Zinc	105,000 MTPA	----
	B. Lead	35,000 MTPA	182 MTPD
	C. Silver	74 MTPA	287 KGPD
	D. Copper/Copper Sulphate	2100 MTPA	24 MTPD
	E. Sulphuric Acid	1,76,000 MTPA	153 MTPD
	F. Cadmium	375 MTPA	------
	G. Zinc Rich Dust	---	20 MTPD
		Hydro I&154 MW CPP	**Hydro II&100 MW CPP**
	A. Zinc	2,52,000 MTPA	2,52,000 MTPA
	B. Sulphuric Acid	307774 MTPA	307774 MTPA
	C. Cadmium Sponge	680 MTPA	
	D. Copper Cement	510 MTPA	
	E. Low grade Lead Con.	30,000 MTPA	--
	F. Power	154 MW	100 MW
	G. Calomel	20 MTPA	20 MTPA
	H. Sodium Chloride	250 MTPA	250 MTPA
	I. Sodium Sulphate	1250 MTPA	1250 MTPA
(4)	Year of establishment		
		PYRO	1990-91
		HYDRO I	2003-04
		AUSMELT	2004-05
		HYDRO II	2006-07
(5)	Date of last Environment Statement submitted	27.09.2022	

PART – B

Water and Raw Material consumption

1. **Water consumption m^3/d for entire location for 2022-2023 (including colony)**

Process, cooling & domestic (factory) = 21653 m^3/day
Domestic (Zinc Colony) = 379 m^3/day
Total = 22032 m^3/day

- **Pyro & Ausmelt Plant – Water Consumption**

Name of product	Process Water consumption per unit of product output, M^3/MT	
	2021-2022	2022-2023
Furnace metal	9.97	10.59

- **Hydro Plant Phase I- Water consumption**

Name of product	Process Water consumption per unit of product, M^3/MT	
	2021-2022	2022-2023
Zn Ingots	5.26	4.03

- **Hydro Plant Phase II - Water consumption**

Name of product	Process Water consumption per unit of product, M^3/MT	
	2021-2022	2022-2023
Zn Ingots	9.23	8.68

- **Captive Power Plant –Water Consumption**

Name of product	Process Water consumption per unit of product, M^3/MWH	
	2021-2022	2022-2023
Power (Electricity)	2.39	2.25

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 2021-22	Consumption of Raw material per unit of output During 2022-23
Zinc concentrate	Zinc	2.09	1.99
Lead concentrate	Lead	1.54	1.58

- **Raw material consumption -Hydro I**

Name of raw material	Name of Product	Consumption of Raw material per unit of output (excluding Calcine)	
		2021-2022	2022-2023
Zinc concentrate	Zinc	1.26	1.46

- **Raw material consumption -Hydro II**

Name of raw material	Name of Product	Consumption of Raw material per unit of output - (excluding Calcine)	
		2021-22	2022-23
Zinc concentrate	Zinc	1.36	1.19

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 SO2, NOx

- **Annexure I** - Stack Emissions (PM, SO_X, NO_X), year **2022-2023**
- **Annexure II**- Ambient Air Emission inside Plant, year **2022-2023**
- **Annexure III** - Ambient Air Emission nearby Villages, year **2022-2023**
- **Annexure IV**- Ambient Noise Emission – Plant, year **2022-2023**
- **Annexure V** - Form No. 4, year **2022-2023**
- **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	2021-2022	2022-2023
		Sch	Code		MTA	MTA
1	Spent Catalyst	I	17.2	Generation	31.77	19.37
				Sale	0	12.08
				Disposal/Reuse	31.77	7.29
2	Empty barrels/containers contaminated with hazardous chemical/waste	I	33.1	Generation	187	145
				Sale	0	0
				Disposal/Reuse	187	145
3	Used or spent oil	I	5.1	Generation	61.32	58.97
				Sale	54.65	60.77
				Disposal/Reuse	4.31	2.05
4	Waste Oil	I	5.2	Generation	0	0
				Sale	0	0
				Disposal/Reuse	0	0
5	Anode Mud	I	7.2	Generation	231.06	188.386
				Sale	231.06	188.387
				Disposal/Reuse	0	0
6	Antimony Dross	I	7.2	Generation	1513.2	888
				Sale	1866.8	868.69
				Disposal/Reuse	0	0

7	Cobalt Cake	I	7.2	Generation	0	0
				Sale	0	0
				Disposal/Reuse	0	0
8	Cooler Cake	I	7.2	Generation	4605.98	5843.98
				Sale	0	0
				Disposal/Reuse	4605.98	5843.98
9	Copper Bearing lead residue/process residue	I	7.2	Generation	11159.24	10858.767
				Sale	11159.24	10858.767
				Disposal/Reuse	0	0
10	Enrichment Cake	I	7.2	Generation	3502	3867
				Sale	3792.68	4120.55
				Disposal/Reuse	10	0
11	HGP Dust	I	7.2	Generation	2989.64	4705.48
				Sale	923.81	2231.28
				Disposal/Reuse	1678.29	2238
12	Purification Cake	I	7.2	Generation	4624.98	3733.26
				Sale	4589.65	3782.7
				Disposal/Reuse	0	0
13	Mercury and mercury compounds	II	A6	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	2021-2022	2022-2023
		Sch	Code		MTA	MTA
1	Non-Ferrous Sludge from ETP and scrubbers (ETP Sludge)	I	7.4	Generation	8767.11	12306.57
				Sale	0	338.46
				Disposal/Reuse	8767.11	11968.11
2	Water Purification Resin	I	34.2	Generation	0	0
				Sale	0	0
				Disposal/Reuse	0	0
3	Exhaust Air or Gas cleaning residue	I	35.1	Generation	0	0
				Sale	0	0
				Disposal/Reuse	0	0
4	Spent ion exchange resin containing toxic metals	I	35.2	Generation	0	0
				Sale	0	0
				Disposal/Reuse	0	0
5	Ash from incinerator and flue gas cleaning residues (bag filters)	I	37.2	Generation	0	1.89
				Sale	0	0
				Disposal/Reuse	0	1.89

PART – E

SOLID WASTE

S.No	Type of Non- Hazardous Waste	Category	Generation/ Sale/Disposal	2021-2022 MTA	2022-2023 MTA
1	Jarofix	Non-Hazardous	Generation	392490.97	395058
			Sale (in Highway)	2330	140818.862
			Sale (JS in Cement)	-	4222.15
			Disposal/Reuse	392490.97	395058
2	ISF Slag		Generation	77694	88783.29
			Sale	601.17	6853.31
			Disposal/Reuse	874	221.77
3	Ausmelt Slag		Generation	26200.18	27896
			Sale	40.81	120.15
			Disposal/Reuse	8527.21	21027.53
4	Fly Ash		Generation	179610.94	154994.41
			Sale	179610.94	154994.41
			Disposal/Reuse	0	0
5	Bottom Ash		Generation	42531.09	36506.5
			Sale	42531.09	36506.5
			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		Hazardous Waste
			Sch	Code	Disposal Practice
1	Spent catalyst	V_2O_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_2O_3- 34.28 % Al_2O_3- 8.17 %	Utilization in cement industries and highways project/Reuse in process

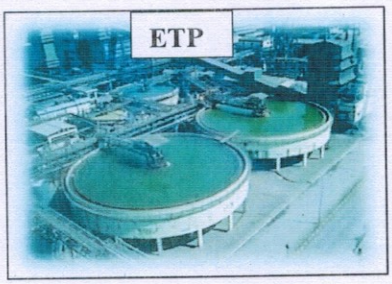
Silvassa Depot (V4)

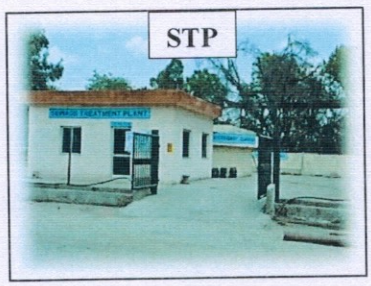
3	Ausmelt Slag	—	Reuse in process
4	Fly Ash	—	Utilization in cement industries
5	Bottom Ash	—	Utilization in cement industries/Brick manufacturing industries

Part –G

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

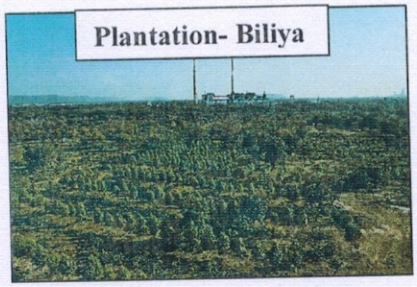
1. **Water Conservation**
   - ETP. RO and MVR are installed to treat the effluent. Treated water is being recycled in process.
   - STP treated water is being used in gardening.
   - Zero Liquid discharge is being maintained.
   - Flowmeters are installed for measuring recycled water.
   - Preventive 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 for water quality monitoring.

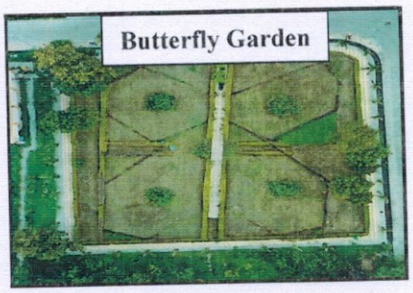


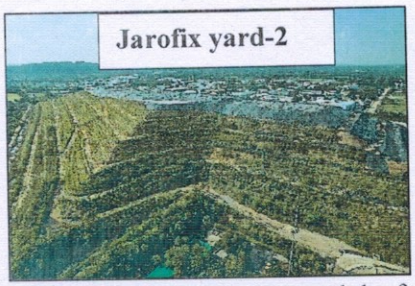


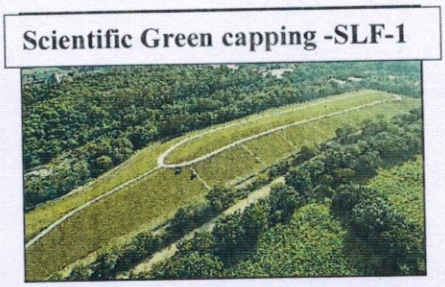


2. **To Maintain Ecological Balance**
   - The total green cover area within the boundaries of Chanderiya Lead Zinc Smelter land, combinedly with the newly acquired land is more than 33%.
   - Regular maintenance with dedicated team and other resources is being done for existing green cover in factory 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.
   - Scientific green capping of secured landfill-2 is in process.





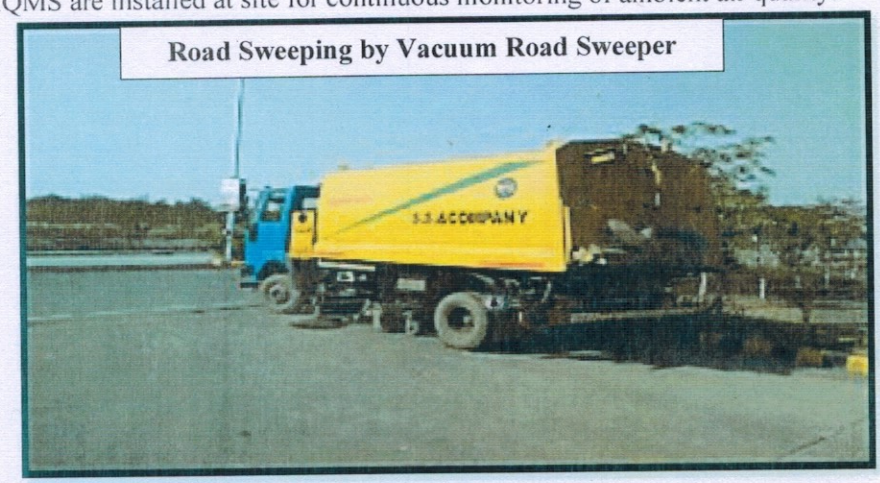


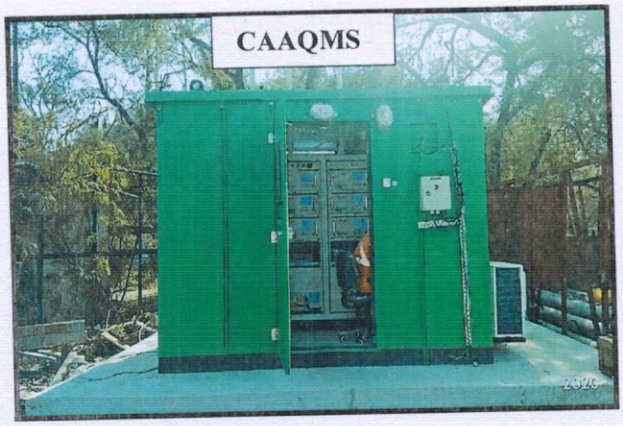


- Dense greenery in and around the factory is being maintained.
- Preservation of trees and shrubs for providing better niche to animals.

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.





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 in cement industries.
- Gainful utilization of jarofix 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.
- E-Waste collection campaign was organized in Zinc Nagar for the collection of E-waste and further collected E-Waste was given to Karo Shambhav for responsible recycling.
- On the occasion of World Environment Day saplings and cloth bags were distributed to employees and Business partners.



Distribution of cloth bags and saplings



ANNEXURE-I

Acid Plant Stack report (All Units)				Stack Emission Level				Quarterly Monitoring Apr'2022 to Jun'2022			
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	J.M. ENVIROLAB Pvt. Ltd.	YES	JME/ST/220618052	13/06/2022	22/06/2022	PYRO Acid plant (TGT) Stack	Sulphur Dioxide (SO2)	IS 11255 (Part-2)2019	143.06	ppm	224 (Max) (2 kg/ton)
							Acid Mist	USEPA Method 8 2017	BDL (DL 0.5)	mg/Nm^3	50
2		YES	JME/ST/220618053	16/06/2023	22/06/2022	Ausmelt Cansolve Acid Stack	Sulphur Dioxide (SO2)	IS 11255 (Part-2)2019	115.48	ppm	224 (Max) (2 kg/ton)
							Acid Mist	USEPA Method 8 2017	6.24	mg/Nm^3	50
3		YES	JME/ST/220618061	13/06/2022	22/06/2022	Hydro -1 Acid Stack	Sulphur Dioxide (SO2)	IS 11255 (Part-2)2019	76.98	ppm	135 (Max.) (1 kg/ton)
							Acid Mist	USEPA Method 8 2017	6.11	mg/Nm^3	30
4		YES	JME/ST/220618050	14/06/2022	22/06/2022	Hydro - 2 Acid Stack	Sulphur Dioxide (SO2)	IS 11255 (Part-2)2019	95	ppm	135 (Max.) (1 kg/ton)
							Acid Mist	USEPA Method 8 2017	5.2	mg/Nm^3	30

PYRO (PM & Pb) Stack Report				Stack Emission Level				Quarterly Monitoring Apr'2022 to Jun'2022			
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	J.M. ENVIROLAB Pvt. Ltd.	YES	JME/ST/220618047	16/06/2022	22/06/2022	ISF Slagging	Particular Matter (PM)	IS 11255 (Part-1)2019	45.27	mg/Nm^3	150 (Max.)
							Lead (as Pb)	Method of Air Sampling & Analysis:1988	5.64	mg/Nm^3	10 (Max.)
2		YES	JME/ST/220618047	16/06/2022	22/06/2022	LRP Copper Drossing	Particular Matter (PM)	IS 11255 (Part-1)2019	21.09	mg/Nm^3	150 (Max.)
							Lead (as Pb)	Method of Air Sampling & Analysis:1988	1.16	mg/Nm^3	10 (Max.)
3		YES	JME/ST/220618041	16/06/2022	22/06/2022	LRP Main	Particular Matter (PM)	IS 11255 (Part-1)2019	13.0	mg/Nm^3	150 (Max.)
							Lead (as Pb)	Method of Air Sampling & Analysis:1988	0.78	mg/Nm^3	10 (Max.)
4		YES	JME/ST/220618042	15/06/2022	22/06/2022	Sinter Main	Particular Matter (PM)	IS 11255 (Part-1)2019	43.15	mg/Nm^3	150 (Max.)
							Lead (as Pb)	Method of Air Sampling & Analysis:1988	1.32	mg/Nm^3	10 (Max.)
5		YES	JME/ST/220618043	15/06/2022	22/06/2022	Sinter Venturi	Particular Matter (PM)	IS 11255 (Part-1)2019	53.78	mg/Nm^3	150 (Max.)
							Lead (as Pb)	Method of Air Sampling & Analysis:1988	1.45	mg/Nm^3	10 (Max.)
6		YES	JME/ST/220618044	15/06/2022	22/06/2022	Crusher Main	Particular Matter (PM)	IS 11255 (Part-1)2019	33.49	mg/Nm^3	150 (Max.)
							Lead (as Pb)	Method of Air Sampling & Analysis:1988	6.11	mg/Nm^3	10 (Max.)

7	YES	JME/ST/220618045	15/06/2022	22/06/2022	Crusher Venturi	Particular Matter (PM)	IS 11255 (Part-1)2019	25.14	mg/Nm^3	150 (Max.)
						Lead (as Pb)	Method of Air Sampling & Analysis:1988	4.11	mg/Nm^3	10 (Max.)
8	YES	JME/ST/220618064	10/06/2022	22/06/2022	CRP Milling	Particular Matter (PM)	IS 11255 (Part-1)2019	27.52	mg/Nm^3	150 (Max.)
						Lead (as Pb)	Method of Air Sampling & Analysis:1988	0.97	mg/Nm^3	10 (Max.)
9	YES	JME/ST/220618065	10/06/2022	22/06/2022	ZRP Main	Particular Matter (PM)	IS 11255 (Part-1)2019	22.1	mg/Nm^3	150 (Max.)
						Lead (as Pb)	Method of Air Sampling & Analysis:1988	1.34	mg/Nm^3	10 (Max.)
10	YES	JME/ST/220618051	16/06/2022	22/06/2022	ZRP Fume	Particular Matter (PM)	IS 11255 (Part-1)2019	31.07	mg/Nm^3	150 (Max.)
						Lead (as Pb)	Method of Air Sampling & Analysis:1988	2.05	mg/Nm^3	10 (Max.)

AUSMELT (PM & Pb) Stack Report				**Stack Emission Level**				**Quarterly Monitoring Apr'2022 to Jun'2022**			
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	J.M. ENVIROLAB Pvt. Ltd.	YES	JME/ST/220618046	16/06/2022	22/06/2022	RMH	Particular Matter (PM)	IS 11255 (Part-1)2019	18.85	mg/Nm^3	50 (Max.)
							Lead (as Pb)	Method of Air Sampling & Analysis:1988	0.61	mg/Nm^3	10 (Max.)
2		YES	JME/ST/220618049	16/06/2022	22/06/2022	Hygiene	Particular Matter (PM)	IS 11255 (Part-1)2019	8.65	mg/Nm^3	50 (Max.)
							Lead (as Pb)	Method of Air Sampling & Analysis:1988	BDL (DL 0.05)	mg/Nm^3	10 (Max.)

HYDRO - 1 (PM) Stack Report				**Stack Emission Level**				**Quarterly Monitoring Apr'2022 to Jun'2022**			
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	J.M. ENVIROLAB Pvt. Ltd.	YES	JME/ST/220618054	10/06/2021	22/06/2022	Zinc Melting & Casting - 1	Particular Matter (PM)	IS 11255 (Part-1)2019	16.22	mg/Nm^3	30 (Max.)
2		YES	JME/ST/220618053	10/06/2021	22/06/2022	Zinc Melting & Casting - 2	Particular Matter (PM)	IS 11255 (Part-1)2019	17.29	mg/Nm^3	30 (Max.)
3		YES	JME/ST/220618051	10/06/2021	22/06/2022	Zinc Dross	Particular Matter (PM)	IS 11255 (Part-1)2019	18.54	mg/Nm^3	30 (Max.)
4		YES	JME/ST/220618052	10/06/2021	22/06/2022	Zinc Dust	Particular Matter (PM)	IS 11255 (Part-1)2019	13.97	mg/Nm^3	30 (Max.)
5		YES	JME/ST/220618060	13/06/2022	22/06/2022	Preheater Stack	Particular Matter (PM)	IS 11255 (Part-1)2019	17.56	mg/Nm^3	30 (Max.)
6		YES	JME/ST/220618059	13/06/2022	22/06/2022	Roaster start up stack	Particular Matter (PM)	IS 11255 (Part-1)2019	18.91	mg/Nm^3	30 (Max.)

HYDRO - 2 (PM) Stack Report				Stack Emission Level				Quarterly Monitoring Apr'2022 to Jun'2022			
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	J.M. ENVIROLAB Pvt. Ltd.	YES	JME/ST/220618056	13/06/2022	22/06/2022	Zinc Melting & Casting	Particular Matter (PM)	IS 11255 (Part-1)2019	10.9	mg/Nm^3	30 (Max.)
2		YES	JME/ST/220618055	13/06/2022	22/06/2022	Zinc Dross	Particular Matter (PM)	IS 11255 (Part-1)2019	23.55	mg/Nm^3	30 (Max.)
3		YES	JME/ST/220618049	13/06/2022	22/06/2022	Zinc Dust	Particular Matter (PM)	IS 11255 (Part-1)2019	22.51	mg/Nm^3	30 (Max.)
4		YES	JME/ST/220618058	14/06/2022	22/06/2022	Preheater Stack	Particular Matter (PM)	IS 11255 (Part-1)2019	23.40	mg/Nm^3	30 (Max.)
5		YES	JME/ST/220618057	14/06/2022	22/06/2022	Roaster start up stack	Particular Matter (PM)	IS 11255 (Part-1)2019	15.87	mg/Nm^3	30 (Max.)

CPP Stack Report				Stack Emission Level				Quarterly Monitoring Apr'2022 to Jun'2022			
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	J.M. ENVIROLAB Pvt. Ltd.	YES	JME/ST/220618062	11/06/2022	22/06/2022	CPP Unit - 1 & 2	Particular Matter (PM)	IS 11255 (Part-1)2019	46.70	mg/Nm^3	50
							Oxides Of Nitrogen (Nox)	IS 11255 (Part-7)2017	534.13	mg/Nm^3	300 (Max.)
							Sulphur Dioxide (SO2)	IS 11255 (Part-2)2019	1411.57	mg/Nm^3	600
							Mercury	US EPA Method - 29:2017	BDL (DL 0.02)	mg/Nm^3	0.03
2		YES	JME/ST/220618062	11/06/2022	22/06/2022	CPP Unit - 3	Particular Matter (PM)	IS 11255 (Part-1)2019	46.24	mg/Nm^3	50
							Oxides Of Nitrogen (Nox)	IS 11255 (Part-7)2017	525.69	mg/Nm^3	300 (Max.)
							Sulphur Dioxide (SO2)	IS 11255 (Part-2)2019	1350.9	mg/Nm^3	600
							Mercury	US EPA Method - 29:2017	BDL (DL 0.02)	mg/Nm^3	0.03
3		YES	JME/ST/220618063	11/06/2023	22/06/2023	Coal Crusher Stack	Particular Matter (PM)	IS 11255 (Part-1)2019	42.80	mg/Nm^3	50 (Max.)

Acid Plant Stack report (All Units)				Stack Emission Level				Quarterly Monitoring Jul'2022 to Sep'2022			
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	SCS ENVIRO SERVICES Pvt. Ltd.	YES	SCS/AWL/SE/20220 920/33	20/09/2022	27/09/2022	PYRO Acid plant (TGT) Stack	Sulphur Dioxide (SO2)	IS 11255 (Part-2)2019	251.65	mg/Nm^3	586 (2 Kg/T acid Production)
							Acid Mist	SCS/SE/SOP/28	< 2.0	mg/Nm^3	50
2		YES	SCS/AWL/SE/20220 920/34	20/09/2022	27/09/2022	Ausmelt Cansolve Acid Stack	Sulphur Dioxide (SO2)	IS 11255 (Part-2)2019	293.82	mg/Nm^3	586 (2 Kg/T acid Production)
							Acid Mist	SCS/SE/SOP/28	3.21	mg/Nm^3	50
3		YES	SCS/AWL/SE/20220 920/35	20/09/2022	27/09/2022	Hydro -1 Acid Stack	Sulphur Dioxide (SO2)	IS 11255 (Part-2)2019	229.46	mg/Nm^3	353 (1 Kg/T acid Production)
							Acid Mist	SCS/SE/SOP/28	2.74	mg/Nm^3	50
4		YES	SCS/AWL/SE/20220 920/36	20/09/2022	27/09/2022	Hydro - 2 Acid Stack	Sulphur Dioxide (SO2)	IS 11255 (Part-2)2019	212.18	mg/Nm^3	353 (1 Kg/T acid Production)
							Acid Mist	SCS/SE/SOP/28	2.12	mg/Nm^3	50

PYRO (PM & Pb) Stack Report				Stack Emission Level				Quarterly Monitoring Jul'2022 to Sep'2022			
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	SCS ENVIRO SERVICES Pvt. Ltd.	YES	SCS/AWL/SE/20220 920/37	20/09/2022	27/09/2022	ISF Slagging	Particular Matter (PM)	IS 11255 (Part-1)2019	37.45	mg/Nm^3	150 (Max.)
							Lead (as Pb)	USEPA Method 29	1.20	mg/Nm^3	10 (Max.)
2		YES	SCS/AWL/SE/20220 920/38	20/09/2022	27/09/2022	LRP Copper Drossing	Particular Matter (PM)	IS 11255 (Part-1)2019	16.54	mg/Nm^3	150 (Max.)
							Lead (as Pb)	USEPA Method 29	0.46	mg/Nm^3	10 (Max.)
3		YES	SCS/AWL/SE/20220 920/39	21/09/2022	28/09/2022	LRP Main	Particular Matter (PM)	IS 11255 (Part-1)2019	22.45	mg/Nm^3	150 (Max.)
							Lead (as Pb)	USEPA Method 29	0.51	mg/Nm^3	10 (Max.)
4		YES	SCS/AWL/SE/20220 920/40	21/09/2022	28/09/2022	Sinter Main	Particular Matter (PM)	IS 11255 (Part-1)2019	26.49	mg/Nm^3	150 (Max.)
							Lead (as Pb)	USEPA Method 29	0.75	mg/Nm^3	10 (Max.)
5		YES	SCS/AWL/SE/20220 920/41	21/09/2022	28/09/2022	Sinter Venturi	Particular Matter (PM)	IS 11255 (Part-1)2019	37.82	mg/Nm^3	150 (Max.)
							Lead (as Pb)	USEPA Method 29	0.44	mg/Nm^3	10 (Max.)
6		YES	SCS/AWL/SE/20220 920/42	21/09/2022	28/09/2022	Crusher Main	Particular Matter (PM)	IS 11255 (Part-1)2019	29.16	mg/Nm^3	150 (Max.)
							Lead (as Pb)	USEPA Method 29	2.34	mg/Nm^3	10 (Max.)
7		YES	SCS/AWL/SE/20220 920/43	21/09/2022	28/09/2022	Crusher Venturi	Particular Matter (PM)	IS 11255 (Part-1)2019	12.37	mg/Nm^3	150 (Max.)
							Lead (as Pb)	USEPA Method 29	1.98	mg/Nm^3	10 (Max.)
8		YES	SCS/AWL/SE/20220 920/44	21/09/2022	28/09/2022	CRP Milling	Particular Matter (PM)	IS 11255 (Part-1)2019	15.67	mg/Nm^3	150 (Max.)
							Lead (as Pb)	USEPA Method 29	0.43	mg/Nm^3	10 (Max.)
9		YES	SCS/AWL/SE/20220 920/45	21/09/2022	28/09/2022	ZRP Main	Particular Matter (PM)	IS 11255 (Part-1)2019	20.61	mg/Nm^3	150 (Max.)
							Lead (as Pb)	USEPA Method 29	0.51	mg/Nm^3	10 (Max.)
10		YES	SCS/AWL/SE/20220 920/46	21/09/2022	28/09/2022	ZRP Fume	Particular Matter (PM)	IS 11255 (Part-1)2019	27.88	mg/Nm^3	150 (Max.)
							Lead (as Pb)	USEPA Method 29	0.89	mg/Nm^3	10 (Max.)

AUSMELT (PM & Pb) Stack Report				Stack Emission Level				Quarterly Monitoring Jul'2022 to Sep'2022			
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	SCS ENVIRO SERVICES Pvt. Ltd.	YES	SCS/AWL/SE/20220920/47	22/09/2022	28/09/2022	RMH	Particular Matter (PM)	IS 11255 (Part-1)2019	10.22	mg/Nm^3	50 (Max.)
							Lead (as Pb)	USEPA Method 29	0.36	mg/Nm^3	10 (Max.)
2		YES	SCS/AWL/SE/20220920/48	22/09/2022	28/09/2022	Hygiene	Particular Matter (PM)	IS 11255 (Part-1)2019	9.34	mg/Nm^3	50 (Max.)
							Lead (as Pb)	USEPA Method 29	< 0.05	mg/Nm^3	10 (Max.)

HYDRO - 1 (PM) Stack Report				Stack Emission Level				Quarterly Monitoring Jul'2022 to Sep'2022			
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	SCS ENVIRO SERVICES Pvt. Ltd.	YES	SCS/AWL/SE/20220920/49	22/09/2022	28/09/2022	Zinc Melting & Casting - 1	Particular Matter (PM)	IS 11255 (Part-1)2019	18.34	mg/Nm^3	30 (Max.)
2		YES	SCS/AWL/SE/20220920/50	22/09/2022	28/09/2022	Zinc Melting & Casting - 2	Particular Matter (PM)	IS 11255 (Part-1)2019	16.2	mg/Nm^3	30 (Max.)
3		YES	SCS/AWL/SE/20220920/51	22/09/2022	28/09/2022	Zinc Dross	Particular Matter (PM)	IS 11255 (Part-1)2019	16.84	mg/Nm^3	30 (Max.)
4		YES	SCS/AWL/SE/20220920/52	22/09/2022	28/09/2022	Zinc Dust	Particular Matter (PM)	IS 11255 (Part-1)2019	17.09	mg/Nm^3	30 (Max.)
5		YES	SCS/AWL/SE/20220920/53	23/09/2022	28/09/2022	Preheater Stack	Particular Matter (PM)	IS 11255 (Part-1)2019	15.64	mg/Nm^3	30 (Max.)
6		YES	SCS/AWL/SE/20220920/54	23/09/2022	28/09/2022	Roaster start up stack	Particular Matter (PM)	IS 11255 (Part-1)2019	21.87	mg/Nm^3	30 (Max.)

HYDRO - 2 (PM) Stack Report				Stack Emission Level				Quarterly Monitoring Jul'2022 to Sep'2022			
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	SCS ENVIRO SERVICES Pvt. Ltd.	YES	SCS/AWL/SE/20220920/55	23/09/2022	28/09/2022	Zinc Melting & Casting	Particular Matter (PM)	IS 11255 (Part-1)2019	16.22	mg/Nm^3	30 (Max.)
2		YES	SCS/AWL/SE/20220920/56	23/09/2022	28/09/2022	Zinc Dross	Particular Matter (PM)	IS 11255 (Part-1)2019	20.79	mg/Nm^3	30 (Max.)
3		YES	SCS/AWL/SE/20220920/57	23/09/2022	28/09/2022	Zinc Dust	Particular Matter (PM)	IS 11255 (Part-1)2019	18.97	mg/Nm^3	30 (Max.)
4		YES	SCS/AWL/SE/20220920/58	23/09/2022	28/09/2022	Preheater Stack	Particular Matter (PM)	IS 11255 (Part-1)2019	15.04	mg/Nm^3	30 (Max.)
5		YES	SCS/AWL/SE/20220920/59	23/09/2022	28/09/2022	Roaster start up stack	Particular Matter (PM)	IS 11255 (Part-1)2019	19.88	mg/Nm^3	30 (Max.)

CPP Stack Report				Stack Emission Level				Quarterly Monitoring Jul'2022 to Sep'2022			
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	SCS ENVIRO SERVICES Pvt. Ltd.	YES	SCS/AWL/SE/20220920/60	23/09/2022	28/09/2022	CPP Unit - 1 & 2	Particular Matter (PM)	IS 11255 (Part-1)2019	37.12	mg/Nm^3	50
							Oxides Of Nitrogen (Nox)	IS 11255 (Part-7)2017	482.6	mg/Nm^3	300
							Sulphur Dioxide (SO2)	IS 11255 (Part-2)2019	1108.1	mg/Nm^3	600
							Mercury	US EPA Method - 29:2017	< 0.01	mg/Nm^3	0.03
2		YES	SCS/AWL/SE/20220920/61	23/09/2022	28/09/2022	CPP Unit - 3	Particular Matter (PM)	IS 11255 (Part-1)2019	32.26	mg/Nm^3	50
							Oxides Of Nitrogen (Nox)	IS 11255 (Part-7)2017	508	mg/Nm^3	300
							Sulphur Dioxide (SO2)	IS 11255 (Part-2)2019	1036.9	mg/Nm^3	600
							Mercury	US EPA Method - 29:2017	< 0.01	mg/Nm^3	0.03
3		YES	SCS/AWL/SE/20220920/62	23/09/2022	28/09/2022	Coal Crusher Stack	Particular Matter (PM)	IS 11255 (Part-1)2019	25.60	mg/Nm^3	50 (Max.)

Acid Plant Stack report (All Units)				Stack Emission Level				Quarterly Monitoring Oct'2022 to Dec'2022			
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/141/021222	24/11/2022	24/12/2022	PYRO Acid plant (TGT) Stack	Sulphur Dioxide (SO2)	IS 11255 (Part-2)2019	95.60	ppm	224 (2 Kg/T Acid production)
							Acid Mist	USEPA Method 8 2017	21	mg/Nm^3	50
2		YES	EKO/142/021222	26/11/2022	24/12/2022	Ausmelt Cansolve Acid Stack	Sulphur Dioxide (SO2)	IS 11255 (Part-2)2019	93.6	ppm	224 (2 Kg/T Acid production)
							Acid Mist	USEPA Method 8 2017	24	mg/Nm^3	50
3		YES	EKO/158/021222	28/11/2022	24/12/2022	Hydro -1 Acid Stack	Sulphur Dioxide (SO2)	IS 11255 (Part-2)2019	78.5	ppm	135 (1 Kg/T Acid production)
							Acid Mist	USEPA Method 8 2017	18.2	mg/Nm^3	30
4		YES	EKO/159/021222	28/11/2022	24/12/2022	Hydro - 2 Acid Stack	Sulphur Dioxide (SO2)	IS 11255 (Part-2)2019	75.3	ppm	135 (1 Kg/T Acid production)
							Acid Mist	USEPA Method 8 2017	17.6	mg/Nm^3	30

PYRO (PM & Pb) Stack Report				Stack Emission Level				Quarterly Monitoring Oct'2022 to Dec'2022			
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/135/021222	25/11/2022	24/12/2022	ISF Slagging	Particular Matter (PM)	IS 11255 (Part-1)2019	36.7	mg/Nm^3	150 (Max.)
							Lead (as Pb)	USEPA (P - 12)	< 1.0	mg/Nm^3	10 (Max.)
2		YES	EKO/136/021222	25/11/2022	24/12/2022	LRP Copper Drossing	Particular Matter (PM)	IS 11255 (Part-1)2019	41.5	mg/Nm^3	150 (Max.)
							Lead (as Pb)	USEPA (P - 12)	< 1.0	mg/Nm^3	10 (Max.)
3		YES	EKO/137/021222	26/11/2022	24/12/2022	LRP Main	Particular Matter (PM)	IS 11255 (Part-1)2019	40.2	mg/Nm^3	150 (Max.)
							Lead (as Pb)	USEPA (P - 12)	< 1.0	mg/Nm^3	10 (Max.)
4		YES	EKO/131/021222	26/11/2022	24/12/2022	Sinter Main	Particular Matter (PM)	IS 11255 (Part-1)2019	35.6	mg/Nm^3	150 (Max.)
							Lead (as Pb)	USEPA (P - 12)	< 1.0	mg/Nm^3	10 (Max.)
5		YES	EKO/132/021222	26/11/2022	24/12/2022	Sinter Venturi	Particular Matter (PM)	IS 11255 (Part-1)2019	37.9	mg/Nm^3	150 (Max.)
							Lead (as Pb)	USEPA (P - 12)	< 1.0	mg/Nm^3	10 (Max.)
6		YES	EKO/133/021222	26/11/2022	24/12/2022	Crusher Main	Particular Matter (PM)	IS 11255 (Part-1)2019	39.50	mg/Nm^3	150 (Max.)
							Lead (as Pb)	USEPA (P - 12)	< 1.0	mg/Nm^3	10 (Max.)
7		YES	EKO/134/021222	26/11/2022	24/12/2022	Crusher Venturi	Particular Matter (PM)	IS 11255 (Part-1)2019	40.2	mg/Nm^3	150 (Max.)
							Lead (as Pb)	USEPA (P - 12)	< 1.0	mg/Nm^3	10 (Max.)
8		YES	EKO/138/021222	25/11/2022	24/12/2022	CRP Milling	Particular Matter (PM)	IS 11255 (Part-1)2019	42.3	mg/Nm^3	150 (Max.)
							Lead (as Pb)	USEPA (P - 12)	< 1.0	mg/Nm^3	10 (Max.)
9		YES	EKO/139/021222	25/11/2022	24/12/2022	ZRP Main	Particular Matter (PM)	IS 11255 (Part-1)2019	44.6	mg/Nm^3	150 (Max.)
							Lead (as Pb)	USEPA (P - 12)	< 1.0	mg/Nm^3	10 (Max.)

10		YES	EKO/140/021222	25/11/2022	24/12/2022	ZRP Fume	Particular Matter (PM)	IS 11255 (Part-1)2019	42.3	mg/Nm^3	150 (Max.)
							Lead (as Pb)	USEPA (P - 12)	< 1.0	mg/Nm^3	10 (Max.)

AUSMELT (PM & Pb) Stack Report				Stack Emission Level				Quarterly Monitoring Oct'2022 to Dec'2022			
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/143/021222	26/11/2022	24/12/2022	RMH	Particular Matter (PM)	IS 11255 (Part-1)2019	25.3	mg/Nm^3	50 (Max.)
							Lead (as Pb)	USEPA (P - 12)	< 1.0	mg/Nm^3	10 (Max.)
2		YES	EKO/144/021222	26/11/2022	24/12/2022	Hygiene	Particular Matter (PM)	IS 11255 (Part-1)2019	23.4	mg/Nm^3	50 (Max.)
							Lead (as Pb)	USEPA (P - 12)	< 1.0	mg/Nm^3	10 (Max.)

HYDRO - 1 (PM) Stack Report				Stack Emission Level				Quarterly Monitoring Oct'2022 to Dec'2022			
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/147/021222	28/11/2022	24/12/2022	Zinc Melting & Casting - 1	Particular Matter (PM)	IS 11255 (Part-1)2019	17.5	mg/Nm^3	30 (Max.)
2		YES	EKO/148/021222	28/11/2022	24/12/2022	Zinc Melting & Casting - 2	Particular Matter (PM)	IS 11255 (Part-1)2019	18.1	mg/Nm^3	30 (Max.)
3		YES	EKO/149/021222	28/11/2022	24/12/2022	Zinc Dross	Particular Matter (PM)	IS 11255 (Part-1)2019	17.3	mg/Nm^3	30 (Max.)
4		YES	EKO/150/021222	28/11/2022	24/12/2022	Zinc Dust	Particular Matter (PM)	IS 11255 (Part-1)2019	21.30	mg/Nm^3	30 (Max.)
5		YES	EKO/151/021222	28/11/2022	24/12/2022	Preheater Stack	Particular Matter (PM)	IS 11255 (Part-1)2019	16.9	mg/Nm^3	30 (Max.)
6		YES	EKO/152/021222	28/11/2022	24/12/2022	Roaster start up stack	Particular Matter (PM)	IS 11255 (Part-1)2019	18.5	mg/Nm^3	30 (Max.)

HYDRO - 2 (PM) Stack Report				Stack Emission Level				Quarterly Monitoring Oct'2022 to Dec'2022			
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/153/021222	28/11/2022	24/12/2022	Zinc Melting & Casting	Particular Matter (PM)	IS 11255 (Part-1)2019	18.5	mg/Nm^3	30 (Max.)
2		YES	EKO/154/021222	28/11/2022	24/12/2022	Zinc Dross	Particular Matter (PM)	IS 11255 (Part-1)2019	16.9	mg/Nm^3	30 (Max.)
3		YES	EKO/155/021222	28/11/2022	24/12/2022	Zinc Dust	Particular Matter (PM)	IS 11255 (Part-1)2019	20.3	mg/Nm^3	30 (Max.)
4		YES	EKO/156/021222	28/11/2022	24/12/2022	Preheater Stack	Particular Matter (PM)	IS 11255 (Part-1)2019	17.10	mg/Nm^3	30 (Max.)
5		YES	EKO/157/021222	28/11/2022	24/12/2022	Roaster start up stack	Particular Matter (PM)	IS 11255 (Part-1)2019	19.2	mg/Nm^3	30 (Max.)

CPP Stack Report				Stack Emission Level				Quarterly Monitoring Oct'2022 to Dec'2022			
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/160/021222	29/11/2022	24/12/2022	CPP Unit - 1 & 2	Particular Matter (PM)	IS 11255 (Part-1)2019	34.50	mg/Nm^3	50
							Oxides Of Nitrogen (Nox)	IS 11255 (Part-7)2017	372.3	mg/Nm^3	300
							Sulphur Dioxide (SO2)	IS 11255 (Part-2)2019	798.4	mg/Nm^3	600
							Mercury	US EPA Method - 29:2017	< 0.01	mg/Nm^3	0.03
2		YES	EKO/161/021222	29/11/2022	24/12/2022	CPP Unit - 3	Particular Matter (PM)	IS 11255 (Part-1)2019	32.90	mg/Nm^3	50
							Oxides Of Nitrogen (Nox)	IS 11255 (Part-7)2017	368.9	mg/Nm^3	300
							Sulphur Dioxide (SO2)	IS 11255 (Part-2)2019	782.5	mg/Nm^3	600
							Mercury	US EPA Method - 29:2017	< 0.01	mg/Nm^3	0.03
3		YES	EKO/162/021222	29/11/2022	24/12/2022	Coal Crusher Stack	Particular Matter (PM)	IS 11255 (Part-1)2019	35.60	mg/Nm^3	50

Acid Plant Stack report (All Units)				Stack Emission Level				Quarterly Monitoring Jan'2023 to Mar'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/141/080123	06/01/2023	14/01/2023	PYRO Acid plant (TGT) Stack	Sulphur Dioxide (SO2)	IS 11255 (Part-2)2019	98.40	ppm	224
							Acid Mist	USEPA Method 8 2017	22	mg/Nm^3	50
2		YES	EKO/319/080123	06/01/2023	14/01/2023	Ausmelt Cansolve Acid Stack	Sulphur Dioxide (SO2)	IS 11255 (Part-2)2019	95.8	ppm	224
							Acid Mist	USEPA Method 8 2017	25	mg/Nm^3	50
3		YES	EKO/384/080123	05/01/2023	14/01/2023	Hydro -1 Acid Stack	Sulphur Dioxide (SO2)	IS 11255 (Part-2)2019	80.3	ppm	135 (Max.)
							Acid Mist	USEPA Method 8 2017	19.8	mg/Nm^3	30
4		YES	EKO/385/080123	05/01/2023	14/01/2023	Hydro - 2 Acid Stack	Sulphur Dioxide (SO2)	IS 11255 (Part-2)2019	73.5	ppm	135 (Max.)
							Acid Mist	USEPA Method 8 2017	18.6	mg/Nm^3	30

PYRO (PM & Pb) Stack Report				Stack Emission Level				Quarterly Monitoring Jan'2023 to Mar'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/312/080123	06/01/2023	14/01/2023	ISF Slagging	Particular Matter (PM)	IS 11255 (Part-1)2019	34.6	mg/Nm^3	150 (Max.)
							Lead (as Pb)	USEPA (P-12)	2.32	mg/Nm^3	10 (Max.)
2		YES	EKO/313/080123	06/01/2023	14/01/2023	LRP Copper Drossing	Particular Matter (PM)	IS 11255 (Part-1)2019	43.5	mg/Nm^3	150 (Max.)
							Lead (as Pb)	USEPA (P-12)	2.03	mg/Nm^3	10 (Max.)
3		YES	EKO/314/080123	06/01/2023	14/01/2023	LRP Main	Particular Matter (PM)	IS 11255 (Part-1)2019	42.5	mg/Nm^3	150 (Max.)
							Lead (as Pb)	USEPA (P-12)	1.89	mg/Nm^3	10 (Max.)
4		YES	EKO/308/080123	05/01/2023	14/01/2023	Sinter Main	Particular Matter (PM)	IS 11255 (Part-1)2019	37.5	mg/Nm^3	150 (Max.)
							Lead (as Pb)	USEPA (P-12)	2.32	mg/Nm^3	10 (Max.)
5		YES	EKO/309/080123	05/01/2023	14/01/2023	Sinter Venturi	Particular Matter (PM)	IS 11255 (Part-1)2019	39.4	mg/Nm^3	150 (Max.)
							Lead (as Pb)	USEPA (P-12)	2.13	mg/Nm^3	10 (Max.)
6		YES	EKO/310/080123	05/01/2023	14/01/2023	Crusher Main	Particular Matter (PM)	IS 11255 (Part-1)2019	42.60	mg/Nm^3	150 (Max.)
							Lead (as Pb)	USEPA (P-12)	2.08	mg/Nm^3	10 (Max.)
7		YES	EKO/311/080123	06/01/2023	14/01/2023	Crusher Venturi	Particular Matter (PM)	IS 11255 (Part-1)2019	38.5	mg/Nm^3	150 (Max.)
							Lead (as Pb)	USEPA (P-12)	1.98	mg/Nm^3	10 (Max.)
8		YES	EKO/315/080123	06/01/2023	14/01/2023	CRP Milling	Particular Matter (PM)	IS 11255 (Part-1)2019	45.8	mg/Nm^3	150 (Max.)
							Lead (as Pb)	USEPA (P-12)	< 1.0	mg/Nm^3	10 (Max.)
9		YES	EKO/316/080123	06/01/2023	14/01/2023	ZRP Main	Particular Matter (PM)	IS 11255 (Part-1)2019	43.6	mg/Nm^3	150 (Max.)
							Lead (as Pb)	USEPA (P-12)	< 1.0	mg/Nm^3	10 (Max.)

10		YES	EKO/317/080123	06/01/2023	14/01/2023	ZRP Fume	Particular Matter (PM)	IS 11255 (Part-1)2019	40.1	mg/Nm^3	150 (Max.)
							Lead (as Pb)	USEPA (P-12)	< 1.0	mg/Nm^3	10 (Max.)

AUSMELT (PM & Pb) Stack Report				Stack Emission Level				Quarterly Monitoring Jan'2023 to Mar'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/320/080123	06/01/2023	14/01/2023	RMH	Particular Matter (PM)	IS 11255 (Part-1)2019	28.4	mg/Nm^3	50 (Max.)
							Lead (as Pb)	USEPA (P-12)	2.33	mg/Nm^3	10 (Max.)
2		YES	EKO/321/080123	05/01/2023	14/01/2023	Hygiene	Particular Matter (PM)	IS 11255 (Part-1)2019	21.8	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 Jan'2023 to Mar'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/323/080123	04/01/2023	14/01/2023	Zinc Melting & Casting - 1	Particular Matter (PM)	IS 11255 (Part-1)2019	19.5	mg/Nm^3	30 (Max.)
2		YES	EKO/324/080123	04/01/2023	14/01/2023	Zinc Melting & Casting - 2	Particular Matter (PM)	IS 11255 (Part-1)2019	20.3	mg/Nm^3	30 (Max.)
3		YES	EKO/325/080123	04/01/2023	14/01/2023	Zinc Dross	Particular Matter (PM)	IS 11255 (Part-1)2019	19.5	mg/Nm^3	30 (Max.)
4		YES	EKO/326/080123	04/01/2023	14/01/2023	Zinc Dust	Particular Matter (PM)	IS 11255 (Part-1)2019	19.80	mg/Nm^3	30 (Max.)
5		YES	EKO/327/080123	05/01/2023	14/01/2023	Preheater Stack	Particular Matter (PM)	IS 11255 (Part-1)2019	18.3	mg/Nm^3	30 (Max.)
6		YES	EKO/328/080123	05/01/2023	14/01/2023	Roaster start up stack	Particular Matter (PM)	IS 11255 (Part-1)2019	16.7	mg/Nm^3	30 (Max.)

HYDRO - 2 (PM) Stack Report				Stack Emission Level				Quarterly Monitoring Jan'2023 to Mar'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/329/080123	04/01/2023	14/01/2023	Zinc Melting & Casting	Particular Matter (PM)	IS 11255 (Part-1)2019	16.9	mg/Nm^3	30 (Max.)
2		YES	EKO/330/080123	04/01/2023	14/01/2023	Zinc Dross	Particular Matter (PM)	IS 11255 (Part-1)2019	17.5	mg/Nm^3	30 (Max.)
3		YES	EKO/331/080123	04/01/2023	14/01/2023	Zinc Dust	Particular Matter (PM)	IS 11255 (Part-1)2019	18.5	mg/Nm^3	30 (Max.)
4		YES	EKO/332/080123	05/01/2023	14/01/2023	Preheater Stack	Particular Matter (PM)	IS 11255 (Part-1)2019	18.70	mg/Nm^3	30 (Max.)
5		YES	EKO/333/080123	05/01/2023	14/01/2023	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 Jan'2023 to Mar'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/509/050123-A	03/01/2023	14/01/2023	CPP Unit - 1 & 2	Particular Matter (PM)	IS 11255 (Part-1)2019	36.20	mg/Nm^3	50
							Oxides Of Nitrogen (Nox)	IS 11255 (Part-7)2017	365.4	mg/Nm^3	300
							Sulphur Dioxide (SO2)	IS 11255 (Part-2)2019	958.6	mg/Nm^3	600
							Mercury	US EPA Method - 29:2017	< 0.01	mg/Nm^3	0.03
2		YES	EKO/510/050123-A	03/01/2023	14/01/2023	CPP Unit - 3	Particular Matter (PM)	IS 11255 (Part-1)2019	30.80	mg/Nm^3	50
							Oxides Of Nitrogen (Nox)	IS 11255 (Part-7)2017	362.4	mg/Nm^3	300
							Sulphur Dioxide (SO2)	IS 11255 (Part-2)2019	998.1	mg/Nm^3	600
							Mercury	US EPA Method - 29:2017	< 0.01	mg/Nm^3	0.03
3		YES	EKO/511/050123	03/01/2023	14/01/2023	Coal Crusher Stack	Particular Matter (PM)	IS 11255 (Part-1)2019	33.80	mg/Nm^3	50

ANNEXURE-II

Ambient Air Quality Monitoring (Four Plant Station)								Quarterly Monitoring - Apr'2022 to June'2022			
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	J.M. Envirolab Pvt. Ltd.	YES	JME/A/220618005	14/06/2022 to 15/06/2022	24/06/2022	Near LOCO Shed C2	Sulphur Dioxide (SO_2)	IS:5182 (Pt-2) : 2017	14.23	µg/m^3	80
							Nitrogen Dioxide (NO_2)	IS:5182 (Pt-6) :2018	30.40	µg/m^3	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	39.54	µg/m^3	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	84.25	µg/m^3	100
							Ozone (O_3)	IS:5182 (Part - 9):2019	30.16	µg/m^3	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	0.58	µg/m^3	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	0.99	mg/m^3	4
							Ammonia (NH_3)	Method of air samplimg & Analysis (3rd edition) 1988	18.97	µg/m^3	400
							Benzene (C_6H_6)	IS:5182 (Part 11) : 2017	BDL (DL 1.0)	µg/m^3	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	BDL (DL 0.5)	ng/m^3	1
							Arsenic (as As)	IS:5182 (Part 22) : 2019	0.81	ng/m^3	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	8.570	ng/m^3	20

Ambient Air Quality Monitoring (Four Plant Station)								Quarterly Monitoring - Apr'2022 to June'2022			
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	J.M. Envirolab Pvt. Ltd.	YES	JME/A/220618006	14/06/2022 to 15/06/2022	24/06/2022	Near Slag Gate	Sulphur Dioxide (SO_2)	IS:5182 (Pt-2) : 2017	16.78	µg/m^3	80
							Nitrogen Dioxide (NO_2)	IS:5182 (Pt-6) :2018	37.22	µg/m^3	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	47.31	µg/m^3	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	92.94	µg/m^3	100
							Ozone (O_3)	IS:5182 (Part - 9):2019	35.98	µg/m^3	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	0.47	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 samplimg & Analysis (3rd edition) 1988	29.27	µg/m^3	400
							Benzene (C_6H_6)	IS:5182 (Part 11) : 2017	BDL (DL 1.0)	µg/m^3	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	BDL (DL 0.5)	ng/m^3	1
							Arsenic (as As)	IS:5182 (Part 22) : 2019	1.13	ng/m^3	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	8.97	ng/m^3	20

Ambient Air Quality Monitoring (Four Plant Station)

S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location
3	J.M. Envirolab Pvt. Ltd.	YES	JME/A/220618004	14/06/2022 to 15/06/2022	24/06/2022	Near DM Plant

Quarterly Monitoring - Apr'2022 to June'2022

Parameters	Method of Test	Results	Unit	NAAQS*
Sulphur Dioxide (SO_2)	IS:5182 (Pt-2) : 2017	13.53	µg/m^3	80
Nitrogen Dioxide (NO_2)	IS:5182 (Pt-6) :2018	33.56	µg/m^3	80
Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	40.9	µg/m^3	60
Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	85.34	µg/m^3	100
Ozone (O_3)	IS:5182 (Part - 9):2019	29.01	µg/m^3	180
Lead (as Pb)	IS:5182 (Part - 22):2019	0.40	µg/m^3	1
Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	0.83	mg/m^3	4
Ammonia (NH_3)	Method of air samplimg & Analysis (3rd edition) 1988	35.82	µg/m^3	400
Benzene (C_6H_6)	IS:5182 (Part 11) : 2017	BDL (DL 1.0)	µg/m^3	5
Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	BDL (DL 0.5)	ng/m^3	1
Arsenic (as As)	IS:5182 (Part 22) : 2019	0.75	ng/m^3	6
Nickel (as Ni)	IS:5182 (Part 26) : 2020	5.440	ng/m^3	20

Ambient Air Quality Monitoring (Four Plant Station)

S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location
4	J.M. Envirolab Pvt. Ltd.	YES	JME/A/220618009	15/06/2022 to 16/06/2022	24/06/2022	Near CISF Colony C1

Quarterly Monitoring - Apr'2022 to June'2022

Parameters	Method of Test	Results	Unit	NAAQS*
Sulphur Dioxide (SO_2)	IS:5182 (Pt-2) : 2017	11.86	µg/m^3	80
Nitrogen Dioxide (NO_2)	IS:5182 (Pt-6) :2018	27.36	µg/m^3	80
Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	36.31	µg/m^3	60
Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	81.12	µg/m^3	100
Ozone (O_3)	IS:5182 (Part - 9):2019	24.43	µg/m^3	180
Lead (as Pb)	IS:5182 (Part - 22):2019	0.27	µg/m^3	1
Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	0.79	mg/m^3	4
Ammonia (NH_3)	Method of air samplimg & Analysis (3rd edition) 1988	23.05	µg/m^3	400
Benzene (C_6H_6)	IS:5182 (Part 11) : 2017	BDL (DL 1.0)	µg/m^3	5
Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	BDL (DL 0.5)	ng/m^3	1
Arsenic (as As)	IS:5182 (Part 22) : 2019	BDL (DL 0.5)	ng/m^3	6
Nickel (as Ni)	IS:5182 (Part 26) : 2020	4.47	ng/m^3	20

Ambient Air Quality Monitoring (Four Plant Station)

S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Quarterly Monitoring - Jul'2022 to Sep'2022 Method of Test	Results	Unit	NAAQS*
1	SCS ENVIRO SERVICES Pvt. Ltd.	YES	SCS/HZL-CLZS/AAQ/20220920/18	20/09/2022	27/09/2022	Near LOCO Shed	Sulphur Dioxide (SO_2)	IS:5182 (Pt-2) : 2017	13.50	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	54.3	µg/m^3	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	91.3	µg/m^3	100
							Ozone (O_3)	IS:5182 (Part - 9):2019	29.5	µg/m^3	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	0.4	µg/m^3	1
							Carbon monoxide (as CO)	SCS/SOP/AAQ/013	1260	µg/m^3	2000
							Ammonia (NH_3)	Method of air samplimg & Analysis (3rd edition) 1988	23.6	µg/m^3	400
							Benzene (C_6H_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	<1.0	ng/m^3	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	6.60	ng/m^3	20

Ambient Air Quality Monitoring (Four Plant Station)

S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Quarterly Monitoring - Jul'2022 to Sep'2022 Method of Test	Results	Unit	NAAQS*
2	SCS ENVIRO SERVICES Pvt. Ltd.	YES	SCS/HZL-CLZS/AAQ/20220920/19	20/09/2022	27/09/2022	Near Slag Gate	Sulphur Dioxide (SO_2)	IS:5182 (Pt-2) : 2017	17.30	µg/m^3	80
							Nitrogen Dioxide (NO_2)	IS:5182 (Pt-6) :2018	34.2	µg/m^3	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	50.3	µg/m^3	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	83.1	µg/m^3	100
							Ozone (O_3)	IS:5182 (Part - 9):2019	31.5	µg/m^3	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	0.39	µg/m^3	1
							Carbon monoxide (as CO)	SCS/SOP/AAQ/013	916	µg/m^3	2000
							Ammonia (NH_3)	Method of air samplimg & Analysis (3rd edition) 1988	24.1	µg/m^3	400
							Benzene (C_6H_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	1.10	ng/m^3	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	5.40	ng/m^3	20

Ambient Air Quality Monitoring (Four Plant Station)								Quarterly Monitoring - Jul'2022 to Sep'2022			
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	SCS ENVIRO SERVICES Pvt. Ltd.	YES	SCS/HZL-CLZS/AAQ/20220920/20	20/09/2022	27/09/2022	Near DM Plant	Sulphur Dioxide (SO_2)	IS:5182 (Pt-2) : 2017	12.60	µg/m^3	80
							Nitrogen Dioxide (NO_2)	IS:5182 (Pt-6) :2018	29.4	µg/m^3	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	46.9	µg/m^3	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	76.1	µg/m^3	100
							Ozone (O_3)	IS:5182 (Part - 9):2019	26.8	µg/m^3	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	0.29	µg/m^3	1
							Carbon monoxide (as CO)	SCS/SOP/AAQ/013	802	µg/m^3	2000
							Ammonia (NH_3)	Method of air samplimg & Analysis (3rd edition) 1988	30.4	µg/m^3	400
							Benzene (C_6H_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	<1.0	ng/m^3	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	4.11	ng/m^3	20

Ambient Air Quality Monitoring (Four Plant Station)								Quarterly Monitoring - Jul'2022 to Sep'2022			
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	SCS ENVIRO SERVICES Pvt. Ltd.	YES	SCS/HZL-CLZS/AAQ/20220920/21	20/09/2022	27/09/2022	Near CISF Colony	Sulphur Dioxide (SO_2)	IS:5182 (Pt-2) : 2017	10.12	µg/m^3	80
							Nitrogen Dioxide (NO_2)	IS:5182 (Pt-6) :2018	28.75	µg/m^3	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	43.3	µg/m^3	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	71.7	µg/m^3	100
							Ozone (O_3)	IS:5182 (Part - 9):2019	23.1	µg/m^3	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	0.23	µg/m^3	1
							Carbon monoxide (as CO)	SCS/SOP/AAQ/013	802	µg/m^3	2000
							Ammonia (NH_3)	Method of air samplimg & Analysis (3rd edition) 1988	16.2	µg/m^3	400
							Benzene (C_6H_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	<1.0	ng/m^3	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	3.25	ng/m^3	20

Ambient Air Quality Monitoring (Four Plant Station)								Quarterly Monitoring - Oct'2022 to Dec'2022			
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/124/021222-1	02/12/2022 to 11/12/2022	24/12/2022	Near LOCO Shed C2	Sulphur Dioxide (SO_2)	IS:5182 (Pt-2) : 2017	13.90	µg/m^3	80
							Nitrogen Dioxide (NO_2)	IS:5182 (Pt-6) :2018	30.2	µg/m^3	80
							Particulate Matter (PM 2.5)	EKO/CHEM/SOP/AAQ-01	48.6	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	0.85	mg/m^3	4
							Ammonia (NH_3)	APHA Method 401	<20.0	µg/m^3	400
							Benzene (C_6H_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'2022 to Dec'2022			
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/125/021222-1	02/12/2022 to 11/12/2022	24/12/2022	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	32.8	µg/m^3	80
							Particulate Matter (PM 2.5)	EKO/CHEM/SOP/AAQ-01	50.6	µg/m^3	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	88.1	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	0.88	mg/m^3	4
							Ammonia (NH_3)	APHA Method 401	<20.0	µg/m^3	400
							Benzene (C_6H_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'2022 to Dec'2022			
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/126/021222-1	02/12/2022 to 11/12/2022	24/12/2022	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	29.4	µg/m^3	80
							Particulate Matter (PM 2.5)	EK0/CHEM/SOP/AAQ-01	47.9	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	<0.1	µg/m^3	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	0.78	mg/m^3	4
							Ammonia (NH_3)	APHA Method 401	<20.0	µg/m^3	400
							Benzene (C_6H_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)	EK0/CHEM/SOP/AAQ-02	<5.0	ng/m^3	6
							Nickel (as Ni)	EK0/CHEM/SOP/AAQ-02	<15.0	ng/m^3	20

Ambient Air Quality Monitoring (Four Plant Station)								Quarterly Monitoring - Oct'2022 to Dec'2022			
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/123/021222-1	02/12/2022 to 11/12/2022	24/12/2022	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	31.6	µg/m^3	80
							Particulate Matter (PM 2.5)	EK0/CHEM/SOP/AAQ-01	45.8	µg/m^3	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	82.1	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	0.74	mg/m^3	4
							Ammonia (NH_3)	APHA Method 401	<20.0	µg/m^3	400
							Benzene (C_6H_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)	EK0/CHEM/SOP/AAQ-02	<5.0	ng/m^3	6
							Nickel (as Ni)	EK0/CHEM/SOP/AAQ-02	<15.0	ng/m^3	20

Ambient Air Quality Monitoring (Four Plant Station)

S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Quarterly Monitoring - Jan'23 to Mar'23 Method of Test	Results	Unit	NAAQS*
1	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/502/050123-1	05/01/2023 to 11/01/2023	14/01/2023	Near LOCO Shed C2	Sulphur Dioxide (SO_2)	IS:5182 (Pt-2) : 2017	13.10	$\mu g/m^3$	80
							Nitrogen Dioxide (NO_2)	IS:5182 (Pt-6) :2018	29.2	$\mu g/m^3$	80
							Particulate Matter (PM 2.5)	EK0/CHEM/SOP/AAQ-01	46.4	$\mu g/m^3$	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	81.2	$\mu g/m^3$	100
							Ozone (O_3)	IS:5182 (Part - 9):2019	<10.0	$\mu g/m^3$	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	0.17	$\mu g/m^3$	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	0.91	mg/m^3	4
							Ammonia (NH_3)	APHA Method 401	<20.0	$\mu g/m^3$	400
							Benzene (C_6H_6)	IS:5182 (Part 11) : 2017	<1.0	$\mu g/m^3$	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m^3	1
							Arsenic (as As)	EK0/CHEM/SOP/AAQ-02	<5.0	ng/m^3	6
							Nickel (as Ni)	EK0/CHEM/SOP/AAQ-02	<15.0	ng/m^3	20

Ambient Air Quality Monitoring (Four Plant Station)

S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location	Parameters	Quarterly Monitoring - Jan'23 to Mar'23 Method of Test	Results	Unit	NAAQS*
2	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/503/050123-1	05/01/2023 to 11/01/2023	14/01/2023	Near Slag Gate	Sulphur Dioxide (SO_2)	IS:5182 (Pt-2) : 2017	13.80	$\mu g/m^3$	80
							Nitrogen Dioxide (NO_2)	IS:5182 (Pt-6) :2018	31.4	$\mu g/m^3$	80
							Particulate Matter (PM 2.5)	EK0/CHEM/SOP/AAQ-01	51.6	$\mu g/m^3$	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	90.4	$\mu g/m^3$	100
							Ozone (O_3)	IS:5182 (Part - 9):2019	<10.0	$\mu g/m^3$	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	0.2	$\mu g/m^3$	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	0.86	mg/m^3	4
							Ammonia (NH_3)	APHA Method 401	<20.0	$\mu g/m^3$	400
							Benzene (C_6H_6)	IS:5182 (Part 11) : 2017	<1.0	$\mu g/m^3$	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	<1.0	ng/m^3	1
							Arsenic (as As)	EK0/CHEM/SOP/AAQ-02	<5.0	ng/m^3	6
							Nickel (as Ni)	EK0/CHEM/SOP/AAQ-02	<15.0	ng/m^3	20

Ambient Air Quality Monitoring (Four Plant Station)

S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location
3	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/504/050123-1	05/01/2023 to 11/01/2023	14/01/2023	Near DM Plant

Quarterly Monitoring - Jan'23 to Mar'23

Parameters	Method of Test	Results	Unit	NAAQS*
Sulphur Dioxide (SO_2)	IS:5182 (Pt-2) : 2017	12.40	$\mu g/m^3$	80
Nitrogen Dioxide (NO_2)	IS:5182 (Pt-6) :2018	28.1	$\mu g/m^3$	80
Particulate Matter (PM 2.5)	EKO/CHEM/SOP/AAQ-01	45.6	$\mu g/m^3$	60
Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	78.1	$\mu g/m^3$	100
Ozone (O_3)	IS:5182 (Part - 9):2019	<10.0	$\mu g/m^3$	180
Lead (as Pb)	IS:5182 (Part - 22):2019	0.15	$\mu g/m^3$	1
Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	0.75	mg/m^3	4
Ammonia (NH_3)	APHA Method 401	<20.0	$\mu g/m^3$	400
Benzene (C_6H_6)	IS:5182 (Part 11) : 2017	<1.0	$\mu g/m^3$	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)

S.No.	Name of Institute	MoEF Approved	Report No.	Date of Sampling	Date of Test	Sampling Location
4	EKO PRO ENGINEERS Pvt. Ltd.	YES	EKO/501/050123-1	05/01/2023 to 11/01/2023	14/01/2023	Near CISF Colony C1

Quarterly Monitoring - Jan'23 to Mar'23

Parameters	Method of Test	Results	Unit	NAAQS*
Sulphur Dioxide (SO_2)	IS:5182 (Pt-2) : 2017	14.50	$\mu g/m^3$	80
Nitrogen Dioxide (NO_2)	IS:5182 (Pt-6) :2018	32.8	$\mu g/m^3$	80
Particulate Matter (PM 2.5)	EKO/CHEM/SOP/AAQ-01	48.1	$\mu g/m^3$	60
Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	86.2	$\mu g/m^3$	100
Ozone (O_3)	IS:5182 (Part - 9):2019	<10.0	$\mu g/m^3$	180
Lead (as Pb)	IS:5182 (Part - 22):2019	0.24	$\mu g/m^3$	1
Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	0.81	mg/m^3	4
Ammonia (NH_3)	APHA Method 401	<20.0	$\mu g/m^3$	400
Benzene (C_6H_6)	IS:5182 (Part 11) : 2017	<1.0	$\mu g/m^3$	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- III

Ambient Air Quality Monitoring (Nearby Village)								Quarterly Monitoring - Apr'2022 to June'2022			
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	J.M. Envirolab Pvt. Ltd.	YES	JME/A/220618008	15/06/2022 to 16/06/2022	24/06/2022	Billiya	Sulphur Dioxide (SO_2)	IS:5182 (Pt-2) : 2017	10.87	µg/m^3	80
							Nitrogen Dioxide (NO_2)	IS:5182 (Pt-6) :2018	22.89	µg/m^3	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	41.54	µg/m^3	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	78.03	µg/m^3	100
							Ozone (O_3)	IS:5182 (Part - 9):2019	17.76	µg/m^3	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	BDL (DL 0.02)	µg/m^3	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	0.77	mg/m^3	4
							Ammonia (NH_3)	Method of air samplimg & Analysis (3rd edition) 1988	16.8	µg/m^3	400
							Benzene (C_6H_6)	IS:5182 (Part 11) : 2017	BDL (DL 1.0)	µg/m^3	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	BDL (DL 0.5)	ng/m^3	1
							Arsenic (as As)	IS:5182 (Part 22) : 2019	BDL (DL 0.5)	ng/m^3	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	1.32	ng/m^3	20

Ambient Air Quality Monitoring (Nearby Village)								Quarterly Monitoring - Apr'2022 to June'2022			
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	J.M. Envirolab Pvt. Ltd.	YES	JME/A/220618007	14/06/2022 to 15/06/2022	24/06/2022	Nagari	Sulphur Dioxide (SO_2)	IS:5182 (Pt-2) : 2017	9.98	µg/m^3	80
							Nitrogen Dioxide (NO_2)	IS:5182 (Pt-6) :2018	21.44	µg/m^3	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	38.2	µg/m^3	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	70.8	µg/m^3	100
							Ozone (O_3)	IS:5182 (Part - 9):2019	14.49	µg/m^3	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	BDL (DL 0.02)	µg/m^3	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	0.65	mg/m^3	4
							Ammonia (NH_3)	Method of air samplimg & Analysis (3rd edition) 1988	10.54	µg/m^3	400
							Benzene (C_6H_6)	IS:5182 (Part 11) : 2017	BDL (DL 1.0)	µg/m^3	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	BDL (DL 0.5)	ng/m^3	1
							Arsenic (as As)	IS:5182 (Part 22) : 2019	BDL (DL 0.5)	ng/m^3	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	2.11	ng/m^3	20

Ambient Air Quality Monitoring (Nearby Village)								Quarterly Monitoring - Apr'2022 to June'2022			
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	J.M. Envirolab Pvt. Ltd.	YES	JME/A/220618011	16/06/2022 to 17/06/2022	24/06/2022	Anwalhera	Sulphur Dioxide (SO_2)	IS:5182 (Pt-2) : 2017	10.14	µg/m^3	80
							Nitrogen Dioxide (NO_2)	IS:5182 (Pt-6) :2018	22.56	µg/m^3	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	40.68	µg/m^3	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	78.73	µg/m^3	100
							Ozone (O_3)	IS:5182 (Part - 9):2019	17.3	µg/m^3	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	BDL (DL 0.02)	µg/m^3	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	0.7	mg/m^3	4
							Ammonia (NH_3)	Method of air samplimg & Analysis (3rd edition) 1988	20.61	µg/m^3	400
							Benzene (C_6H_6)	IS:5182 (Part 11) : 2017	BDL (DL 1.0)	µg/m^3	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	BDL (DL 0.5)	ng/m^3	1
							Arsenic (as As)	IS:5182 (Part 22) : 2019	BDL (DL 0.5)	ng/m^3	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	5.89	ng/m^3	20

Ambient Air Quality Monitoring (Nearby Village)								Quarterly Monitoring - Apr'2022 to June'2022			
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	J.M. Envirolab Pvt. Ltd.	YES	JME/A/220618010	16/06/2022 to 17/06/2022	24/06/2022	Munga Ka Khera	Sulphur Dioxide (SO_2)	IS:5182 (Pt-2) : 2017	9.96	µg/m^3	80
							Nitrogen Dioxide (NO_2)	IS:5182 (Pt-6) :2018	20.71	µg/m^3	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	39.92	µg/m^3	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	81.52	µg/m^3	100
							Ozone (O_3)	IS:5182 (Part - 9):2019	14.63	µg/m^3	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	BDL (DL 0.02)	µg/m^3	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	0.63	mg/m^3	4
							Ammonia (NH_3)	Method of air samplimg & Analysis (3rd edition) 1988	11	µg/m^3	400
							Benzene (C_6H_6)	IS:5182 (Part 11) : 2017	BDL (DL 1.0)	µg/m^3	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	BDL (DL 0.5)	ng/m^3	1
							Arsenic (as As)	IS:5182 (Part 22) : 2019	BDL (DL 0.5)	ng/m^3	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	BDL (DL 1.0)	ng/m^3	20

Ambient Air Quality Monitoring (Nearby Village)								Quarterly Monitoring - Apr'2022 to June'2022			
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	J.M. Envirolab Pvt. Ltd.	YES	JME/A/220618001	11/06/2022 to 12/06/2022	24/06/2022	Ajoliya Ka Khera	Sulphur Dioxide (SO_2)	IS:5182 (Pt-2) : 2017	9.95	$\mu g/m^3$	80
							Nitrogen Dioxide (NO_2)	IS:5182 (Pt-6) :2018	19.72	$\mu g/m^3$	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	36.69	$\mu g/m^3$	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	76.78	$\mu g/m^3$	100
							Ozone (O_3)	IS:5182 (Part - 9):2019	12.24	$\mu g/m^3$	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	BDL (DL 0.02)	$\mu g/m^3$	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	BDL (DL 0.5)	mg/m^3	4
							Ammonia (NH_3)	Method of air samplimg & Analysis (3rd edition) 1988	8.02	$\mu g/m^3$	400
							Benzene (C_6H_6)	IS:5182 (Part 11) : 2017	BDL (DL 1.0)	$\mu g/m^3$	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	BDL (DL 0.5)	ng/m^3	1
							Arsenic (as As)	IS:5182 (Part 22) : 2019	BDL (DL 0.5)	ng/m^3	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	BDL (DL 1.0)	ng/m^3	20

Ambient Air Quality Monitoring (Nearby Village)								Quarterly Monitoring - Apr'2022 to June'2022			
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	J.M. Envirolab Pvt. Ltd.	YES	JME/A/220618003	13/06/2022 to 14/06/2022	24/06/2022	Putholi	Sulphur Dioxide (SO_2)	IS:5182 (Pt-2) : 2017	11.93	$\mu g/m^3$	80
							Nitrogen Dioxide (NO_2)	IS:5182 (Pt-6) :2018	30.74	$\mu g/m^3$	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	49.05	$\mu g/m^3$	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	95.68	$\mu g/m^3$	100
							Ozone (O_3)	IS:5182 (Part - 9):2019	22.53	$\mu g/m^3$	180
							Lead (as Pb)	IS:5182 (Part - 22):2019	0.13	$\mu g/m^3$	1
							Carbon monoxide (as CO)	IS:5182 (Part 10) : 2019	0.95	mg/m^3	4
							Ammonia (NH_3)	Method of air samplimg & Analysis (3rd edition) 1988	27.9	$\mu g/m^3$	400
							Benzene (C_6H_6)	IS:5182 (Part 11) : 2017	BDL (DL 1.0)	$\mu g/m^3$	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	BDL (DL 0.5)	ng/m^3	1
							Arsenic (as As)	IS:5182 (Part 22) : 2019	BDL (DL 0.5)	ng/m^3	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	6.3	ng/m^3	20

Ambient Air Quality Monitoring (Nearby Village)								Quarterly Monitoring - Apr'2022 to June'2022			
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	J.M. Envirolab Pvt. Ltd.	YES	JME/A/220618002	12/06/2022 to 13/06/2022	24/06/2022	Zinc Nagar	Sulphur Dioxide (SO_2)	IS:5182 (Pt-2) : 2017	13.88	µg/m^3	80*
							Nitrogen Dioxide (NO_2)	IS:5182 (Pt-6) :2018	34.41	µg/m^3	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	51.55	µg/m^3	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	96.94	µg/m^3	100
							Ozone (O_3)	IS:5182 (Part - 9):2019	29.07	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	1.02	mg/m^3	4
							Ammonia (NH_3)	Method of air samplimg & Analysis (3rd edition) 1988	36.87	µg/m^3	400
							Benzene (C_6H_6)	IS:5182 (Part 11) : 2017	BDL (DL 1.0)	µg/m^3	5
							Benzo (a) Pyrene	IS:5182 (Part 12) : 2019	BDL (DL 0.5)	ng/m^3	1
							Arsenic (as As)	IS:5182 (Part 22) : 2019	BDL (DL 0.5)	ng/m^3	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	7.15	ng/m^3	20

Ambient Air Quality Monitoring (Nearby Village)								Quarterly Monitoring - Jul'2022 to Sep'2022			
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	SCS ENVIRO SERVICES Pvt. Ltd.	YES	SCS/HZL-CLZS/AAQ/202209 20/28	22/09/2022	29/09/2022	Billiya	Sulphur Dioxide (SO_2)	IS:5182 (Pt-2) : 2017	8.50	µg/m^3	80
							Nitrogen Dioxide (NO_2)	IS:5182 (Pt-6) :2018	17.2	µg/m^3	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	39.5	µg/m^3	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	65.4	µg/m^3	100
							Ozone (O_3)	IS:5182 (Part - 9):2019	<19.6	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	687	µg/m^3	2000
							Ammonia (NH_3)	IS:5182 (Part 25)	<20.0	µg/m^3	400
							Benzene (C_6H_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	<1.0	ng/m^3	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	1.01	ng/m^3	20

Ambient Air Quality Monitoring (Nearby Village)								Quarterly Monitoring - Jul'2022 to Sep'2022			
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	SCS ENVIRO SERVICES Pvt. Ltd.	YES	SCS/HZL-CLZS/AAQ/202209 20/27	22/09/2022	29/09/2022	Nagari	Sulphur Dioxide (SO_2)	IS:5182 (Pt-2) : 2017	7.90	µg/m^3	80
							Nitrogen Dioxide (NO_2)	IS:5182 (Pt-6) :2018	15.2	µg/m^3	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	40.7	µg/m^3	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	68.4	µg/m^3	100
							Ozone (O_3)	IS:5182 (Part - 9):2019	<19.6	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	687	µg/m^3	2000
							Ammonia (NH_3)	IS:5182 (Part 25)	<20.0	µg/m^3	400
							Benzene (C_6H_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	<1.0	ng/m^3	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	1.32	ng/m^3	20

Ambient Air Quality Monitoring (Nearby Village)								Quarterly Monitoring - Jul'2022 to Sep'2022			
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	SCS ENVIRO SERVICES Pvt. Ltd.	YES	SCS/HZL-CLZS/AAQ/20220920/26	22/09/2022	29/09/2022	Anwalhera	Sulphur Dioxide (SO_2)	IS:5182 (Pt-2) : 2017	7.80	µg/m^3	80
							Nitrogen Dioxide (NO_2)	IS:5182 (Pt-6) :2018	12.3	µg/m^3	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	36.9	µg/m^3	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	61.5	µg/m^3	100
							Ozone (O_3)	IS:5182 (Part - 9):2019	<19.6	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	573	µg/m^3	2000
							Ammonia (NH_3)	IS:5182 (Part 25)	<20.0	µg/m^3	400
							Benzene (C_6H_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	<1.0	ng/m^3	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	2.67	ng/m^3	20

Ambient Air Quality Monitoring (Nearby Village)								Quarterly Monitoring - Jul'2022 to Sep'2022			
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	SCS ENVIRO SERVICES Pvt. Ltd.	YES	SCS/HZL-CLZS/AAQ/20220920/25	21/09/2022	28/09/2022	Munga Ka Khera	Sulphur Dioxide (SO_2)	IS:5182 (Pt-2) : 2017	8.70	µg/m^3	80
							Nitrogen Dioxide (NO_2)	IS:5182 (Pt-6) :2018	16.9	µg/m^3	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	30.5	µg/m^3	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	53.2	µg/m^3	100
							Ozone (O_3)	IS:5182 (Part - 9):2019	<19.6	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	573	µg/m^3	2000
							Ammonia (NH_3)	IS:5182 (Part 25)	<20.0	µg/m^3	400
							Benzene (C_6H_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	<1.0	ng/m^3	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	0.55	ng/m^3	20

Ambient Air Quality Monitoring (Nearby Village)								Quarterly Monitoring - Jul'2022 to Sep'2022			
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	SCS ENVIRO SERVICES Pvt. Ltd.	YES	SCS/HZL-CLZS/AAQ/20220920/24	21/09/2022	28/09/2022	Ajoliya Ka Khera	Sulphur Dioxide (SO_2)	IS:5182 (Pt-2) : 2017	7.60	µg/m^3	80
							Nitrogen Dioxide (NO_2)	IS:5182 (Pt-6) :2018	17.5	µg/m^3	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	33.4	µg/m^3	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	63.7	µg/m^3	100
							Ozone (O_3)	IS:5182 (Part - 9):2019	<19.6	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	687	µg/m^3	2000
							Ammonia (NH_3)	IS:5182 (Part 25)	<20.0	µg/m^3	400
							Benzene (C_6H_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	<1.0	ng/m^3	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	0.83	ng/m^3	20

Ambient Air Quality Monitoring (Nearby Village)								Quarterly Monitoring - Jul'2022 to Sep'2022			
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	SCS ENVIRO SERVICES Pvt. Ltd.	YES	SCS/HZL-CLZS/AAQ/20220920/23	21/09/2022	28/09/2022	Putholi	Sulphur Dioxide (SO_2)	IS:5182 (Pt-2) : 2017	8.50	µg/m^3	80
							Nitrogen Dioxide (NO_2)	IS:5182 (Pt-6) :2018	16.4	µg/m^3	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	37.5	µg/m^3	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	63.1	µg/m^3	100
							Ozone (O_3)	IS:5182 (Part - 9):2019	19	µg/m^3	100
							Lead (as Pb)	IS:5182 (Part - 22):2019	0.19	µg/m^3	1
							Carbon monoxide (as CO)	SCS/SOP/AAQ/013	802	µg/m^3	2000
							Ammonia (NH_3)	IS:5182 (Part 25)	21.4	µg/m^3	400
							Benzene (C_6H_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	<1.0	ng/m^3	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	2.78	ng/m^3	20

Ambient Air Quality Monitoring (Nearby Village)								Quarterly Monitoring - Jul'2022 to Sep'2022			
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	SCS ENVIRO SERVICES Pvt. Ltd.	YES	SCS/HZL-CLZS/AAQ/20220920/22	21/09/2022	28/09/2022	Zinc Nagar	Sulphur Dioxide (SO_2)	IS:5182 (Pt-2) : 2017	10.50	µg/m^3	80
							Nitrogen Dioxide (NO_2)	IS:5182 (Pt-6) :2018	22	µg/m^3	80
							Particulate Matter (PM 2.5)	IS:5182 (Part 24) : 2019	40.9	µg/m^3	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	68.7	µg/m^3	100
							Ozone (O_3)	IS:5182 (Part - 9):2019	28	µg/m^3	100
							Lead (as Pb)	IS:5182 (Part - 22):2019	0.15	µg/m^3	1
							Carbon monoxide (as CO)	SCS/SOP/AAQ/013	802	µg/m^3	2000
							Ammonia (NH_3)	IS:5182 (Part 25)	26.5	µg/m^3	400
							Benzene (C_6H_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	<1.0	ng/m^3	6
							Nickel (as Ni)	IS:5182 (Part 26) : 2020	3.12	ng/m^3	20

Ambient Air Quality Monitoring (Nearby Village)								Quarterly Monitoring - Oct'2022 to Dec'2022			
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/166/241122-1	21/11/2022 to 22/11/2022	24/12/2022	Billiya	Sulphur Dioxide (SO_2)	IS:5182 (Pt-2) : 2017	13.70	µg/m^3	80
							Nitrogen Dioxide (NO_2)	IS:5182 (Pt-6) :2018	32.5	µg/m^3	80
							Particulate Matter (PM 2.5)	EKO/CHEM/SOP/AAQ-01	46.2	µg/m^3	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	72.3	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	1.05	mg/m^3	4
							Ammonia (NH_3)	APHA Method 401	<20.0	µg/m^3	400
							Benzene (C_6H_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'2022 to Dec'2022			
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/164/241122-1	19/11/2022 to 20/11/2022	24/12/2022	Nagari	Sulphur Dioxide (SO_2)	IS:5182 (Pt-2) : 2017	14.20	µg/m^3	80
							Nitrogen Dioxide (NO_2)	IS:5182 (Pt-6) :2018	34.6	µg/m^3	80
							Particulate Matter (PM 2.5)	EKO/CHEM/SOP/AAQ-01	48.2	µg/m^3	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	76.5	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_6H_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'2022 to Dec'2022			
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/167/241122-1	21/11/2022 to 22/11/2022	24/12/2022	Anwalhera	Sulphur Dioxide (SO_2)	IS:5182 (Pt-2) : 2017	14.20	µg/m^3	80
							Nitrogen Dioxide (NO_2)	IS:5182 (Pt-6) :2018	34.6	µg/m^3	80
							Particulate Matter (PM 2.5)	EKO/CHEM/SOP/AAQ-01	51.2	µg/m^3	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	76.3	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	1.12	mg/m^3	4
							Ammonia (NH_3)	APHA Method 401	<20.0	µg/m^3	400
							Benzene (C_6H_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'2022 to Dec'2022			
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/163/241122-1	18/11/2022 to 19/11/2022	24/12/2022	Munga Ka Khera	Sulphur Dioxide (SO_2)	IS:5182 (Pt-2) : 2017	13.20	µg/m^3	80
							Nitrogen Dioxide (NO_2)	IS:5182 (Pt-6) :2018	29.1	µg/m^3	80
							Particulate Matter (PM 2.5)	EKO/CHEM/SOP/AAQ-01	44.8	µg/m^3	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	74.2	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	1.02	mg/m^3	4
							Ammonia (NH_3)	APHA Method 401	<20.0	µg/m^3	400
							Benzene (C_6H_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'2022 to Dec'2022			
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/165/241122-1	19/11/2022 to 20/11/2022	24/12/2022	Ajoliya Ka Khera	Sulphur Dioxide (SO_2)	IS:5182 (Pt-2) : 2017	12.90	µg/m^3	80
							Nitrogen Dioxide (NO_2)	IS:5182 (Pt-6) :2018	29.8	µg/m^3	80
							Particulate Matter (PM 2.5)	EK0/CHEM/SOP/AAQ-01	51.2	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	0.98	mg/m^3	4
							Ammonia (NH_3)	APHA Method 401	<20.0	µg/m^3	400
							Benzene (C_6H_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)	EK0/CHEM/SOP/AAQ-02	<5.0	ng/m^3	6
							Nickel (as Ni)	EK0/CHEM/SOP/AAQ-02	<15.0	ng/m^3	20

Ambient Air Quality Monitoring (Nearby Village)								Quarterly Monitoring - Oct'2022 to Dec'2022			
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/162/241122-1	18/11/2022 to 19/11/2022	24/12/2022	Putholi	Sulphur Dioxide (SO_2)	IS:5182 (Pt-2) : 2017	12.90	µg/m^3	80
							Nitrogen Dioxide (NO_2)	IS:5182 (Pt-6) :2018	28.7	µg/m^3	80
							Particulate Matter (PM 2.5)	EK0/CHEM/SOP/AAQ-01	43.9	µg/m^3	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	72.3	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	0.89	mg/m^3	4
							Ammonia (NH_3)	APHA Method 401	<20.0	µg/m^3	400
							Benzene (C_6H_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)	EK0/CHEM/SOP/AAQ-02	<5.0	ng/m^3	6
							Nickel (as Ni)	EK0/CHEM/SOP/AAQ-02	<15.0	ng/m^3	20

Ambient Air Quality Monitoring (Nearby Village)								Quarterly Monitoring - Oct'2022 to Dec'2022			
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/168/241122-1	22/11/2022 to 23/11/2022	24/12/2022	Zinc Nagar	Sulphur Dioxide (SO_2)	IS:5182 (Pt-2) : 2017	45.90	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	45.9	µg/m^3	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	71.6	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	1.08	mg/m^3	4
							Ammonia (NH_3)	APHA Method 401	<20.0	µg/m^3	400
							Benzene (C_6H_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'2023 to Mar'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/304/080123-1	04/01/2023 to 05/01/2023	14/01/2023	Billiya	Sulphur Dioxide (SO_2)	IS:5182 (Pt-2) : 2017	12.60	µg/m^3	80
							Nitrogen Dioxide (NO_2)	IS:5182 (Pt-6) :2018	29.7	µg/m^3	80
							Particulate Matter (PM 2.5)	EKO/CHEM/SOP/AAQ-01	50.3	µg/m^3	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	80.4	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_6H_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'2023 to Mar'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/303/080123-1	05/01/2023 to 06/01/2023	14/01/2023	Nagari	Sulphur Dioxide (SO_2)	IS:5182 (Pt-2) : 2017	13.90	µg/m^3	80
							Nitrogen Dioxide (NO_2)	IS:5182 (Pt-6) :2018	33.4	µg/m^3	80
							Particulate Matter (PM 2.5)	EKO/CHEM/SOP/AAQ-01	47.2	µg/m^3	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	79.2	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	1.01	mg/m^3	4
							Ammonia (NH_3)	APHA Method 401	<20.0	µg/m^3	400
							Benzene (C_6H_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'2023 to Mar'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/306/080123-1	05/01/2023 to 06/01/2023	14/01/2023	Anwalhera	Sulphur Dioxide (SO_2)	IS:5182 (Pt-2) : 2017	14.80	µg/m^3	80
							Nitrogen Dioxide (NO_2)	IS:5182 (Pt-6) :2018	32.5	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	81.2	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	1.18	mg/m^3	4
							Ammonia (NH_3)	APHA Method 401	<20.0	µg/m^3	400
							Benzene (C_6H_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'2023 to Mar'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/302/080123-1	06/01/2023 to 07/01/2023	14/01/2023	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	31.9	µg/m^3	80
							Particulate Matter (PM 2.5)	EKO/CHEM/SOP/AAQ-01	50.4	µg/m^3	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	85.2	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	1.17	mg/m^3	4
							Ammonia (NH_3)	APHA Method 401	<20.0	µg/m^3	400
							Benzene (C_6H_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'2023 to Mar'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/305/080123-1	04/01/2023 to 05/01/2023	14/01/2023	Ajoliya Ka Khera	Sulphur Dioxide (SO_2)	IS:5182 (Pt-2) : 2017	13.40	µg/m^3	80
							Nitrogen Dioxide (NO_2)	IS:5182 (Pt-6) :2018	31.9	µg/m^3	80
							Particulate Matter (PM 2.5)	EK0/CHEM/SOP/AAQ-01	48.6	µg/m^3	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	77.4	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	0.84	mg/m^3	4
							Ammonia (NH_3)	APHA Method 401	<20.0	µg/m^3	400
							Benzene (C_6H_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)	EK0/CHEM/SOP/AAQ-02	<5.0	ng/m^3	6
							Nickel (as Ni)	EK0/CHEM/SOP/AAQ-02	<15.0	ng/m^3	20

Ambient Air Quality Monitoring (Nearby Village)								Quarterly Monitoring - Jan'2023 to Mar'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/301/080123-1	06/01/2023 to 07/01/2023	14/01/2023	Putholi	Sulphur Dioxide (SO_2)	IS:5182 (Pt-2) : 2017	12.50	µg/m^3	80
							Nitrogen Dioxide (NO_2)	IS:5182 (Pt-6) :2018	29.5	µg/m^3	80
							Particulate Matter (PM 2.5)	EK0/CHEM/SOP/AAQ-01	44.9	µg/m^3	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	75.1	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	0.81	mg/m^3	4
							Ammonia (NH_3)	APHA Method 401	<20.0	µg/m^3	400
							Benzene (C_6H_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)	EK0/CHEM/SOP/AAQ-02	<5.0	ng/m^3	6
							Nickel (as Ni)	EK0/CHEM/SOP/AAQ-02	<15.0	ng/m^3	20

Ambient Air Quality Monitoring (Nearby Village)								Quarterly Monitoring - Jan'2023 to Mar'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/307/080123-1	05/01/2023 to 06/01/2023	14/01/2023	Zinc Nagar	Sulphur Dioxide (SO_2)	IS:5182 (Pt-2) : 2017	14.90	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	48.7	µg/m^3	60
							Particulate Matter (PM 10)	IS:5182 (Pt 23)- 2017	82.2	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	1.05	mg/m^3	4
							Ammonia (NH_3)	APHA Method 401	<20.0	µg/m^3	400
							Benzene (C_6H_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-IV

Location :- Near CISF Colony, C1			Ambient Noise Level Monitoring			Quarterly Monitoring - Apr'2022 to Jun'2022				
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)			
							Industrial Area	Commercial Area	Residential Area	Silence Zone
JME/AN/2206 18001	12/062022 to 13/06/2022	24/06/2022	Leq Day	IS-9989:2014	dB(A)	60.9	75	65	55	50
			Leq Night			52.3	70	55	45	40

Location :- Near Loco Shed, C2			Ambient Noise Level Monitoring			Quarterly Monitoring - Apr'2022 to Jun'2022				
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)			
							Industrial Area	Commercial Area	Residential Area	Silence Zone
JME/AN/2206 18002	13/062022 to 14/06/2022	24/06/2022	Leq Day	IS-9989:2014	dB(A)	69.7	75	65	55	50
			Leq Night			57.6	70	55	45	40

Location :- Near Slag Gate			Ambient Noise Level Monitoring			Quarterly Monitoring - Apr'2022 to Jun'2022				
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)			
							Industrial Area	Commercial Area	Residential Area	Silence Zone
JME/AN/2206 18003	14/062022 to 15/06/2022	24/06/2022	Leq Day	IS-9989:2014	dB(A)	70.9	75	65	55	50
			Leq Night			60.1	70	55	45	40

Location :- Near CPP DM Plant			Ambient Noise Level Monitoring			Quarterly Monitoring - Apr'2022 to Jun'2022				
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)			
							Industrial Area	Commercial Area	Residential Area	Silence Zone
JME/AN/2206 18004	15/062022 to 16/06/2022	24/06/2022	Leq Day	IS-9989:2014	dB(A)	70.4	75	65	55	50
			Leq Night			69.2	70	55	45	40

Location :- Near CISF Colony, C1			Ambient Noise Level Monitoring			Quarterly Monitoring - Jul'2022 to Sep'2022				
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)			
							Industrial Area	Commercial Area	Residential Area	Silence Zone
SCS/HZL-CLZS/AN/20220920/29	22/09/2022	29/09/2022	Leq Day	IS-9989:2014	dB(A)	60.5	75	65	55	50
			Leq Night			49.7	70	55	45	40

Location :- Near Loco Shed, C2			Ambient Noise Level Monitoring			Quarterly Monitoring - Jul'2022 to Sep'2022				
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)			
							Industrial Area	Commercial Area	Residential Area	Silence Zone
SCS/HZL-CLZS/AN/20220920/30	22/09/2022	29/09/2022	Leq Day	IS-9989:2014	dB(A)	70.4	75	65	55	50
			Leq Night			58.2	70	55	45	40

Location :- Near Slag Gate			Ambient Noise Level Monitoring			Quarterly Monitoring - Jul'2022 to Sep'2022				
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)			
							Industrial Area	Commercial Area	Residential Area	Silence Zone
SCS/HZL-CLZS/AN/20220920/31	22/09/2022	29/09/2022	Leq Day	IS-9989:2014	dB(A)	68.3	75	65	55	50
			Leq Night			57.6	70	55	45	40

Location :- Near DM Plant			Ambient Noise Level Monitoring			Quarterly Monitoring - Jul'2022 to Sep'2022				
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)			
							Industrial Area	Commercial Area	Residential Area	Silence Zone
SCS/HZL-CLZS/AN/20220920/32	22/09/2022	29/09/2022	Leq Day	IS-9989:2014	dB(A)	71.1	75	65	55	50
			Leq Night			64.7	70	55	45	40

Location :- Near CISF Colony, C1			Ambient Noise Level Monitoring				Quarterly Monitoring - Oct'2022 to Dec'2022			
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/127/021222	02/12/2022 to 03/12/2022	24/12/2022	**Leq** Day	EKO/CHEM/SOP /S/N-01	dB (A)	66.8	75	65	55	50
			Leq Night			52.1	70	55	45	40

Location :- Near Loco Shed, C2			Ambient Noise Level Monitoring				Quarterly Monitoring - Oct'2022 to Dec'2022			
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/128/021222	02/12/2022 to 03/12/2022	24/12/2022	**Leq** Day	EKO/CHEM/SOP /S/N-01	dB (A)	65.9	75	65	55	50
			Leq Night			52.3	70	55	45	40

Location :- Near Slag Gate			Ambient Noise Level Monitoring				Quarterly Monitoring - Oct'2022 to Dec'2022			
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/129/021222	02/12/2022 to 03/12/2022	24/12/2022	**Leq** Day	EKO/CHEM/SOP /S/N-01	dB (A)	67.8	75	65	55	50
			Leq Night			53.4	70	55	45	40

Location :- Near DM Plant			Ambient Noise Level Monitoring				Quarterly Monitoring - Oct'2022 to Dec'2022			
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/130/021222	02/12/2022 to 03/12/2022	24/12/2022	**Leq** Day	EKO/CHEM/SOP /S/N-01	dB (A)	66.9	75	65	55	50
			Leq Night			52.7	70	55	45	40

Location :- Near CISF Colony, C1			Ambient Noise Level Monitoring				Quarterly Monitoring - Jan'2023 to Mar'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)			
							Industrial Area	Commercial Area	Residential Area	Silence Zone
EKO/505/080123	08/01/2023 to 11/01/2023	14/01/2023	Leq Day	IS : 9989	dB (A)	67.2	75	65	55	50
			Leq Night			51.5	70	55	45	40

Location :- Near Loco Shed, C2			Ambient Noise Level Monitoring				Quarterly Monitoring - Jan'2023 to Mar'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)			
							Industrial Area	Commercial Area	Residential Area	Silence Zone
EKO/506/080123	08/01/2023 to 11/01/2023	14/01/2023	Leq Day	IS : 9989	dB (A)	67.2	75	65	55	50
			Leq Night			51.6	70	55	45	40

Location :- Near Slag Gate			Ambient Noise Level Monitoring				Quarterly Monitoring - Jan'2023 to Mar'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)			
							Industrial Area	Commercial Area	Residential Area	Silence Zone
EKO/507/080123	08/01/2023 to 11/01/2023	14/01/2023	Leq Day	IS : 9989	dB (A)	69.8	75	65	55	50
			Leq Night			54.2	70	55	45	40

Location :- Near DM Plant			Ambient Noise Level Monitoring				Quarterly Monitoring - Jan'2023 to Mar'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)			
							Industrial Area	Commercial Area	Residential Area	Silence Zone
EKO/508/080123	08/01/2023 to 11/01/2023	14/01/2023	Leq Day	IS : 9989	dB (A)	68.2	75	65	55	50
			Leq Night			55.2	70	55	45	40

ANNEXURE-V

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HINDUSTAN ZINC
Zinc & Silver of India

24302

HZL/CLZS/ENV/HAZ/46

Date-27.06.2023

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 2022-23 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
27/06/23
Associate General Manager – Environment

C/C

Hindustan Zinc Limited

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

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

SAFE SMART SUSTAINABLE

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HINDUSTAN ZINC
Zinc & Silver of India

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 – 503829 MT
2. Lead – 94989 MT

Part A. To be filled by hazardous waste generators

1. Total quantity of waste generated category wise -

Total Generation – 51600.44 MT & 145 Nos (For details refer Annexure 1)

2. Quantity dispatched
   (i) to disposal facility – Disposed: 20380.512 MT & 145 Nos
   (ii) to recycler or co-processors or pre-processor – To Recycler: 29031.226 MT
   (iii) others

3. Quantity utilised in-house, if any – 2240.05 MT

4. Quantity in storage at the end of the year – 657.807 MT

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

1. Total quantity received – 20380.512 MT & 145 Nos

2. Quantity in stock at the beginning of the year - NA

3. Quantity treated – 20380.512 MT & 145 Nos

4. Quantity disposed in landfills as such and after treatment – 20380.512 MT & 145 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 – 153.426 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 – 153.426 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 - 27 June 2023

Tarun Kumar Meghwal
Associate General Manager
Environment

Chittorgarh

ANNEXURE 1

S.No	Type of Hazardous Waste	Category				FY 2022-23
		Sch	Code		MTA	
1	Spent Catalyst	I	17.2	Generation	19.37	
				Sale	12.08	
				Disposal/Reuse	7.29	Disposed off to SLF
2	Empty barrels/containers contaminated with hazardous chemical/waste	I	33.1	Generation	145.00	
				Sale	0.00	
				Disposal/Reuse	145.00	Disposed off to SLF
3	Water Purification Resin	I	34.2	Generation	0	
				Sale	0	
				Disposal/Reuse	0	
4	Exhaust Air or Gas cleaning residue	I	35.1	Generation	0	
				Sale	0	
				Disposal/Reuse	0	
5	Spent ion exchange resin contaning toxic metals	I	35.2	Generation	0	
				Sale	0	
				Disposal/Reuse	0	
6	Ash from incinerator and flue gas cleaning residues(bag filters)	I	37.2	Generation	1.89	
				Sale	0.00	
				Disposal/Reuse	1.89	Disposed off to SLF
7	Used or spent oil	I	5.1	Generation	58.97	
				Sale	60.77	Registered Recycler
				Disposal/Reuse	2.05	
8	Waste Oil	I	5.2	Generation	0.00	
				Sale	0.00	
				Disposal/Reuse	0.00	
9	Anode Mud	I	7.2	Generation	188.386	
				Sale	188.387	
				Disposal/Reuse	0.00	
10	Antimony Dross	I	7.2	Generation	888.00	
				Sale	868.69	Registered Recycler
				Disposal/Reuse	0.00	
11	Cobalt Cake	I	7.2	Generation	0	
				Sale	0	
				Disposal/Reuse	0	
12	Cooler Cake	I	7.2	Generation	5843.98	
				Sale	0.00	
				Disposal/Reuse	5843.98	Disposed off to SLF
13	Copper Bearing lead residue/process residue	I	7.2	Generation	10858.767	
				Sale	10858.767	Registered Recycler
				Disposal/Reuse	0.00	
14	Enrichment Cake	I	7.2	Generation	3867.00	
				Sale	4120.55	Registered Recycler
				Disposal/Reuse	0.00	
15	HGP Dust	I	7.2	Generation	4705.48	
				Sale	2231.28	Registered Recycler
				Disposal/Reuse	2238.00	Reuse in process
16	Purification Cake	I	7.2	Generation	3733.26	
				Sale	3782.70	Registered Recycler
				Disposal/Reuse	0.00	

Sensitivity: Public (C4)

17	Non-Ferrous Sludge from ETP and scrubbers (ETP Sludge)	I	7.4	Generation	12306.57	
				Sale	338.46	Registered Recycler
				Disposal/Reuse	11968.11	Disposed off to SLF
18	Mercury and mercury compounds	II	A6	Generation	0	
				Sale	0	
				Disposal/Reuse	0	
19	MEE Salt	I	37.3	Generation	2556.22	
				Sale	0.00	
				Disposal/Reuse	2556.22	Disposed off to SLF
20	Wastes/residues containing oil (Cloth and hand gloves)	I	5.2	Generation	3.02	
				Sale	0.00	
				Disposal/Reuse	3.02	Disposed off to SLF
21	ISF Dross	I	7.2	Generation	6569.53	
				Sale	6569.53	Registered Recycler
				Disposal/Reuse	0.00	
22	Blue Powder	I	7.2	Generation	0.00	
				Sale	0.00	
				Disposal/Reuse	0.00	

S.No	Type of Non- Hazardous Waste	Category		MTA	
1	Jarosite Cake	Non Hazardous	Generation	395058	
			Sale	4222.15	Jarosite to Cement
				140818.862	Jarofix to Highway
			Disposal/Reuse	395058	Disposed off to Jarofix Yard Landfill
2	ISF Slag		Generation	88783.29	
			Sale	6853.31	Cement
			Disposal/Reuse	221.77	Reuse in process
3	Ausmelt Slag		Generation	27896.00	
			Sale	120.15	
			Disposal/Reuse	21027.53	Reuse (MCTP)
4	Fly Ash		Generation	154994.41	
			Sale	154994.41	Cement
			Disposal/Reuse	0.00	
5	Bottom Ash		Generation	36506.50	
			Sale	36506.50	Cement/Bricks
			Disposal/Reuse	0.00	

Tarun Kumar Meghwal
Associate General Manger- Environment

Sensitivity: Public (C4)

ANNEXURE-VI A

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

Registered

File No: F(HSW)/Chittorgarh(Chittorgarh)/6()/2008-2009/876-878 **Date:-** 03/06/2020

Unit Id : 263

M/s Hindustan Zinc Ltd.
Chanderia 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 Chanderia Lead Zinc Smelter, Tehsil: Gangrar District: Chittorgarh.**

Signature Not Verified
Digitally signed by Niraj Mathur
Date: 2020.06.03 16:56:06 IST
Reason: Authorised
Location:

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 contaning Toxic metals	I	35.2	1.00 MTPA	SLF/Sold to registered recycler

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

Registered

File No: F(HSW)/Chittorgarh(Chittorgarh)/6()/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	11000.00 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 Ash/Zinc Skimming/Zinc Scrap/Zinc Residue	IV	...	25000.00 MTPA	Used as raw material

Signature Not Verified
Digitally signed by Niraj Mittal
Date: 2020.06.03 16:15:26 IST
Reason: SelfAttested
Location:

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

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

Registered

File No: F(HSW)/Chittorgarh(Chittorgarh)/6()/2008-2009/876-878 **Date:-** 03/06/2020

Unit Id : 263

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.

Signature Not Verified
Digitally signed by Dalip Mathur
Date: 16.06.2020 15:51:51
Reason: SelfAttested
Location:

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

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

Registered

File No: F(HSW)/Chittorgarh(Chittorgarh)/6()/2008-2009/876-878 **Date:-** 03/06/2020

Unit Id : 263

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 furthor 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
Digitally signed by [illegible]
Date: 2020.06.03 16:15:26 IST
Reason: [illegible]

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.**

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

Registered

File No: **F(HSW)/Chittorgarh(Chittorgarh)/6()/2008-2009/876-878** **Date:-** 03/06/2020

Unit Id : 263

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.

Signature Not Verified
Digitally signed by Niraj Mathur
Date: 2020.06.03 16:15:26 IST
Reason: SelfAttested
Location:

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 isssued by the MoEF or CPCB or State Board related to collection, disposal, reception, storage & treatment of hazardous waste.

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

Registered

File No: **F(HSW)/Chittorgarh(Chittorgarh)/6()/2008-2009/876-878** **Date:-** 03/06/2020

Unit Id : 263

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 againt 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 Niraj Mathur
Date: 2020.06.04 16:15:26 IST
Reason: SelfAttested
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

ANNEXURE-VI B

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

Registered

File No: F(HSW)/Chittorgarh(Gangrar)/7061(1)/2021-2022/5969-5972 **Date:-** 27/01/2022

Unit Id : 263

M/s Hindustan Zinc Ltd.
Chanderia 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 .

Signature Not Verified
Digitally signed by Rajeev Mahoot
Date: 27-01-2022 17:07:07
Reason: SetAttested
Location:

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 Chanderia Lead Zinc Smelter, PO Putholi Tehsil: Gangrar District: Chittorgarh.**

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/Sales 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/Incineration/Sales to registered recyclers
3	MEE Salt	I	37.3	5000.00 MTPA	SLF/Registered recycler

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

Registered

File No: **F(HSW)/Chittorgarh(Gangrar)/7061(1)/2021-2022/5969-5972** **Date:-** 27/01/2022

Unit Id : 263

4	Used or spent oil	I	5.1	16.00 KL/ANNUM	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	SLF/Sold to registered recycler/Reuse the process
9	Jerosite Cake	II	Class A	450000.00 MTPA	Jarofix yard/Utilization in cement industry

Signature Not Verified
Digitally signed by Rajeev Mahnot
Date: 2022.01.27 16:26:17 IST
Reason: SelfAttested
Location:

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

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

Registered

File No: **F(HSW)/Chittorgarh(Gangrar)/7061(1)/2021-2022/5969-5972** **Date:-** 27/01/2022

Unit Id : 263

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.

Signature Not Verified
Date: 2022.01.27 22:26:17 IST
Reason: SelfAttested
Location:

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

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

Registered

File No: **F(HSW)/Chittorgarh(Gangrar)/7061(1)/2021-2022/5969-5972** **Date:-** 27/01/2022

Unit Id : 263

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 furthor 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.**

Signature Not Verified
Digitally signed by Rajeev Mishrol
Date: 2022.01.27 16:26:17 IST
Location:

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.**

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

Registered

File No: **F(HSW)/Chittorgarh(Gangrar)/7061(1)/2021-2022/5969-5972** **Date:-** 27/01/2022

Unit Id : 263

11 **That the industry shall comply with all the conditions of the Authorization issued by the State Board vide letter no. F(HSW)/Chittorgarh (Chittorgarh)/6()/ 2008-2009/ 876-878 dated 03.06.2020 and Passbook on 30.11.2021, which are valid upto 30.04.2024.**

12 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.

13 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.

14 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.

Signature Not Verified
Digitally signed by RAJASTHAN POLLUTION CONTROL BOARD
Date: 2022.01.27 12:26:17 IST
Reason: Registered

15 The hazardous waste should not be stored for a period beyond 90 days, failing which the authorization shall deemed to be revoked.

16 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.

17 The operator of the facility shall liable to comply any other conditions as per the guidelines isssued by the MoEF or CPCB or State Board related to collection, disposal, reception, storage & treatment of hazardous waste.

18 **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: 0141-5159600,5159695Fax: 0141-5159697

Registered

File No: **F(HSW)/Chittorgarh(Gangrar)/7061(1)/2021-2022/5969-5972** **Date:-** 27/01/2022

Unit Id : 263

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 againt 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 BoardChittorgarh to ensure compliance of the above.

2 Master File SWMC Cell, RPCB, Jaipur

3 Master File

Signature Not Verified
Digitally signed by Rajeev Mahnot
Date: 2022.01.27 16:26:17 IST
Reason: SelfAttested
Location:

Group Incharge