

HIRA

HIRA ELECTRO S

EN313742795IN IVR:6978313742795
SP BOBBILI H.O <535558>
Counter No:1,08/02/2023,15:50
To:THE ENVIRONME,APPCB RO THOTAPA
PIN:535002, Vizianagaram H.O
From:HIRA ELECTR,P NO 364-367 API
Wt:330gms
Amt:59.00(Cash)Tax:9.00
<Track on www.indiapost.gov.in>
<Dial 18002666868> <Wear Masks, Stay Safe>

Ref No: HESL/LTR/2022-23/097

To,

The Member Secretary,
Andhra Pradesh Pollution Control Board,
D. No. 33-26-14D/2, Near Sunrise Hospital,
Pushpa Hotel Centre, Chalamalavari Street,
Kasturibaipet, Vijayawada - 520 010

EN313742565IN IVR:6978313742565
SP BOBBILI H.O <535558>
Counter No:1,08/02/2023,15:50
To:THE MEMBER SE,APPCB VIJAYAWADA
PIN:520010, Venkateswarapuram S.O
From:HIRA ELECTR,P NO 364-367 API
Wt:325gms
Amt:70.80(Cash)Tax:10.80
<Track on www.indiapost.gov.in>

Sub: Submission of half yearly compliance report of the
Authorization Order for the period of June 2022 to

Ref: Consent & Authorization granted vide Order No. APPCB/VSP/VZN/156/HO/CFO/2016 Dated: 09.06.2016 and subsequent amendment made vide Order No. APPCB/VSP/VZN/156/HO/CFO/2016 Dated: 01.10.2016.

Respected Sir,

Please find enclosed herewith half yearly compliance report of the conditions stipulated in Consent & Authorization Order for the period of **June 2022 to December'2022** in respect of Hira Electro Smelters Limited (Formerly M/s RVR Smelters Private Limited), Plot No. 364-367, APIIC growth Center, Bobbili, Vizianagaram - 535 558.

We hope you will find above half yearly compliance report up to your satisfaction. Your valuable guidance further in this regard shall be highly appreciated.

Kindly acknowledge the receipt of the same.

Thanking You,

Yours faithfully,

For, **HIRA ELECTRO SMELTERS LIMITED**
(Formerly M/s RVR Smelters Private Limited)

Authorized Signatory

Encl: A/a

Copy to: The Environment Engineer, A. P. Pollution Control Board, Regional Office,
D.No. 8-30-19, Sai Nagar, Thotapalem, Vizianagaram 535 002(A. P.).

Hira Electro Smelters Ltd.

(Formerly known as RVR Smelters Pvt. Ltd.)

CIN : U27109AP2007PLC052498

Registered Office : Plot No. 364-367, APIIC Growth Center, Bobbili-535 558, Dist.-Vizianagaram (Andhra Pradesh) India

P : 08944 247009, F : 08944 247008, E : hr.rvr@hpslindia.com

Head Office : Hira Power & Steels Ltd., Urla Industrial Complex, Raipur - 492 003 (Chhattisgarh), India

P : 0771 4082500, 4082600, F : 0771 4082501, E : admin@hpslindia.com

www.hpslindia.com, www.hiragroup.com



HALF YEARLY COMPLIANCE REPORT
OF
THE CONDITIONS STIPULATED IN
CONSENT & AUTHORIZATION
FOR
THE PERIOD OF
JULY 2022 – DECEMBER 2022

HIRA ELECTRO SMELTERS LIMITED
(FORMERLY M/S RVR SMELTERS PRIVATE LIMITED)
Plot No. 364-367, APIIC growth Center, Bobbili, Vizianagaram – 535 558

367, APIIC Growth Center, Bobbili (V & M), Vizianagaram District – 535 558 is hereby granted an authorization to operate a facility for collection, reception, storage, treatment, transport and disposal of Hazardous Wastes namely:

• **HAZARDOUS WASTES WITH RECYCLING OPTION:**

Sl. No	Name of Hazardous Waste	Stream	Quantity	Method of disposal
1.	Used oils	5.1 of Schedule – I	500 LPA.	Shall be routed through M/s. APEMC so as to send to APPCB authorized re-processors / recyclers (as recyclable waste)

• **NON HAZARDOUS WITH DISPOSAL OPTION:**

Sl.No.	Type	Quantity (TPA)	Disposal
1	Ferro Manganese slag	97851.18	Reused as raw material in manufacturing of silicomanganese
2	Silico Manganese slag	59703.14	Used for filling of low lying area / land filling / construction purpose
3	Fe-Mn slag	42711.04	Reused as raw material in manufacturing of Silico Manganese.
	Fe-Cr slag	62529.5	Used for filling of low lying area / land filling / construction purpose.
4	Si-Mn Slag	25978.88	Use for filling of low lying area / land filling / construction purpose
	Fe-Cr slag	62529.50	construction purpose
5	Fe-Mn / Si-Mn slag	34344.96	Fe-Mn slag reused as raw material in manufacturing of Silico Manganese.
	Fe-Cr slag	62529.50	Si-Mn& Fe-Cr slag used for filling of low lying area / land filling / construction purpose
6	Bag filter dust	3263.00	Reused in manufacturing process.

This consent order is valid for manufacturing the following products along with quantities indicated only:

S. No	Name of the Products and By-products	Total Quantity (TPA)
1	Ferro Manganese	100877
2	Silico Manganese	100877
3	Ferro Chrome	56845
4	Ferro Manganese+ Ferro Chrome	100877

5	Silico Manganese+ Ferro Chrome	100877
6	Ferro Manganese+ Silico Manganese+ Ferro Chrome	100877

Configuration furnaces	of Fe-Mn (TPA)	Si-Mn (TPA)	Fe-Cr (TPA)	Total (TPA)	Quantity
2x 6 MVA	100877	NIL	NIL	100877	
	NIL	100877	NIL	100877	
	44032	NIL	56845	100877	
	NIL	44032	56845	100877	
		44032	56845	100877	

The total production capacity putting Fe-Mn, Si-Mn and Fe-Cr together should not exceed 100877 TPA and Fe-Cr should not exceed 56845 TPA.

This order is subject to the provisions of 'the Acts' and the Rules' and orders made thereunder and further subject to the terms and conditions incorporated in the schedule A, B & C enclosed to this order.

This combined order of consent & Hazardous Waste Authorization shall be valid for a period ending with the 30th day of September, 2022.

**DR. B.MADHUSUDHANA RAO, JCEE(MSRB), O/o JOINT CHIEF
ENVIRONMENTAL ENGINEER-4-APPCB**

To
M/s. Hira Electro Smelters Limited,
Plot No.364 to 367,
APIIC Growth Center, Bobbili (V & M),
Vizianagaram District – 535 558

Copy to :

1. The JCEE, Zonal Office, **Visakhapatnam** for information and necessary action.
2. The Environmental Engineer, Regional Office, **Vizianagaram** for information and necessary action.

SCHEDULE-A

1. Any up-set condition in any industrial plant / activity of the industry, which result in, increased effluent / emission discharge and/ or violation of standards stipulated in this order shall be informed to this Board, under intimation to the Collector and District Magistrate and take immediate action to bring down the discharge / emission below the limits.
2. The industry should carryout analysis of waste water discharges or emissions through chimneys for the parameters mentioned in this order on quarterly basis and submit to the Board.
3. All the rules & regulations notified by Ministry of Law and Justice, Government of India regarding Public Liability Insurance Act, 1991 should be followed as applicable.
4. Notwithstanding anything contained in this consent order, the Board hereby reserves the right and powers to review / revoke any and/or all the conditions imposed herein above and to make such variations as deemed fit for the purpose of the Acts by the Board.
5. The industry shall ensure that there shall not be any change in the process technology,

source & composition of raw materials and scope of working without prior approval from the Board.

6. The applicant shall submit Environment statement in Form V before 30th September every year as per Rule No.14 of E(P) Rules, 1986 & amendments thereof.
7. The applicant should make applications through Online for renewal of Consent (under Water and Air Acts) and Authorization under HWM Rules at least 120 days before the date of expiry of this order, along with prescribed fee under Water and Air Acts and detailed compliance of CFO conditions for obtaining Consent & HW Authorization of the Board.
8. The industry should immediately submit the revised application for consent to this Board in the event of any change in the raw material used, processes employed, quantity of trade effluents & quantity of emissions. Any change in the management shall be informed to the Board. The person authorized should not let out the premises / lend / sell / transfer their industrial premises without obtaining prior permission of the State Pollution Control Board.
9. Any person aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of Water Act, 1974 or Section 21 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules, 1976 and Air Rules 1982, to Appellate authority constituted under Section 28 of the Water(Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air(Prevention and Control of Pollution) Act, 1981.
10. The industry shall be liable to pay Environmental Compensation / Other Environmental Taxes, if any environmental damage caused to the surroundings, as fixed by the Collector & District Magistrate or any other competent authority as per the Rules in vogue.
11. The industry may explore the possibility of tapping the solar energy for their energy requirements.
12. The industry should educate the workers and nearby public of possible accidents and remedial measures.

SCHEDULE-B

1. The Board vide order dt. 09.06.2016 issued CFO to the industry to manufacture of Ferro Alloys which was valid upto 31.12.2020. Now, the industry applied for CFO & HWA (Renewal) for a period upto 31.12.2025, for a project cost of Rs. 41 Crores, with a total area of 24 acres. The issue of CFO&HWA (Renewal) to industry was placed in the CFO Committee meeting held on 17.03.2021 and the committee observed the 14 non-compliances. The committee recommended "to consider the issue of CFO & HWA to the industry, i) after installation of 2 CAAQM stations; ii) after conducting Toxicity Characteristic Leaching Procedure (TCLP) Test for the slag and iii) after clearing the dust accumulated within the premises at raw material storage area and process area. The RO shall submit the status report on the 14 non-compliances of the industry". Now, the RO, Vizianagaram submitted a status report and informed that the industry paid balance CFO fee of Rs. 11,80,500/-, for a period upto 31.12.2025. The issue of CFO&HWA (Renewal) to industry was again placed in the CFO Committee meeting held on 04.08.2021 and the committee recommended to issue CFO& HWA (Renewal) to the industry for a period upto 30.09.2022, subject to submission of an undertaking at RO, Vizianagaram, on Rs. 100 Stamp paper stating that they will comply with the 1 non-compliance (3) mentioned in the Agenda within 3 months.
2. The industry shall comply with the following non-compliances:
 1. Not provided 2 nos of CAAQM stations, as per CFO order dated 09.06.2016,

within 3 months. The industry shall provide 2 nos of CAAQM stations, as per CFO order dated 09.06.2016, within 3 months, i.e., by 23.11.2021.

- ii. Not storing the raw materials in a closed shed. The industry shall storing the raw materials in a closed shed, within 3 months, i.e., by 23.11.2021.
- iii. Dust is accumulated within the premises at raw material storage area and process area. The industry shall take steps to reduce the Dust accumulation within the premises at raw material storage area and process area, within 3 months, i.e., by 23.11.2021.

WATER POLLUTION:

3. The source of water is APIIC supply & Borewell. The following is the permitted water consumption:

Sl. No.	Purpose	Quantity (KLD)
		Furnace-I & Furnace-II
1	Industrial cooling, boiler feed.	120
2	Domestic purposes.	15.0

Separate meters with necessary pipe-line shall be maintained for assessing the quantity of water used for each of the purposes mentioned above.

The effluent discharged shall not contain constituents in excess of the tolerance limits mentioned below:

Outlet	Parameter	Limiting Standards (mg/l except for pH)
1	Total Suspended Solids (TSS at 103 – 1050C)	<100.00
	Oil and Grease	10.00
	Biochemical Oxygen Demand (BOD3 at 270C)	30.00

4. The industry shall maintain flow meters Electro Magnetic flow meters with totalisers for water and effluent quantity measurements for different streams of effluents and different categories of water usage stipulated in this order.
5. Closed circuit cooling system shall be adopted for cooling system. No waste water shall be discharge outside the factory premises under any circumstances.
6. The industry shall construct rain-harvesting systems in their premises so that the ground water is recharged by the storm water and the industry shall not discharge any waste water from their premises by 31.10.2020.

AIR POLLUTION:

7. The emissions shall not contain constituents in excess of the prescribed limits mentioned below:

Chimney No.	Parameter	Emission Standards
1 & 2	Particulate Matter	50 mg/Nm ³

8. The industry shall comply with ambient air quality standards of PM10 (Particulate Matter size less than 10mm) - 100 mg/ m³; PM2.5 (Particulate Matter size less than 2.5 mm) - 60 mg/ m³; SO₂ - 80 mg/ m³; NO_x - 80 mg/m³, outside the factory premises at the periphery of the industry.

Standards for other parameters as mentioned in the National Ambient Air Quality Standards CPCB Notification No.B-29016/20/90/PCI-I, dated 18.11.2009.

Noise Levels: Day time (6 AM to 10 PM) - 75 dB (A)

Night time (10 PM to 6 AM) - 70 dB (A)

9. The industry shall comply with emission limits for DG sets of capacity upto 800 KW as per the Notification G.S.R.520 (E), dated 01.07.2003 and G.S.R.448(E), dated 12.07.2004 under the Environment (Protection) Act Rules. In case of DG sets of capacity more than 800 KW shall comply with emission limits as per the Notification G.S.R.489 (E), dated 09.07.2002 at serial no.96, under the Environment (Protection) Act, 1986.
10. The industry shall provide a sampling port with removable dummy of not less than 15 cm diameter in the stack at a distance of 8 times the diameter of the stack from the nearest constraint such as bends etc. A platform with suitable ladder shall be provided below 1 meter of sampling port to accommodate three persons with instruments. A 15 AMP 250 V plug point shall be provided on the platform.
11. Continuous online stack monitoring facilities for all the stacks and sufficient air pollution control equipments viz., fume extraction systems with Pulse Jet bag filters, ID fan and stack of adequate height to submerged arc furnace shall be provided to control emissions.
12. The industry shall continuously place the hood over the furnaces to suck the emissions.
13. The industry shall provide 25% of additional bags as spare in the Bag house to meet the emergency requirements.
14. Secondary fugitive emissions from furnace should be controlled within the latest permissible limits issued by the Ministry Guidelines Code of practices issued by CPCB should be followed.
15. The industry shall install interlocking system between air pollution control equipments/ continuous online monitoring system and raw material feeding system so that the feeding of raw material would be stopped automatically incase the air pollution control equipment fails/ emission levels exceed the prescribed standards.
16. The industry should not bypass the emissions from stacks under any circumstances. The industry should maintain activation recorder with the recording facility to the bypass stack in sealed condition and subject to regular inspection by the Board.
17. The industry should operate air pollution control equipments continuously during the operation of the unit to ensure that all the emissions from the furnaces should pass through the bag house only.
18. The industry shall install hourly energy meter to Air Pollution control equipments and connected to DCS.
19. All the raw materials should be covered and adequate dust containment / suppression measures should be maintained to control fugitive emissions.
20. The industry shall not cause any air pollution / dust nuisance in the surroundings
21. The industry shall submit AAQ monitoring reports conducted by Authorised Agency every month.
22. The industry shall upgrade the existing air pollution control system by installing ESP / Bag filters in order to meet the Board's standards.

GENERAL:

23. The industry shall not manufacture new products and not exceed the consented capacity without CFE/CFO of the Board.
24. The industry shall maintain good housekeeping within the plant premises.
25. The industry shall maintain the following records and the same shall be made available to the inspecting officers of the Board:

- a. Daily production details.
- b. Quantity of Effluents generated, treated, recycled/reused and disposed.
- c. Log Books for pollution control systems.
- d. Inspection book.
- 26.The industry shall conduct total chemical leachate procedure (TCLP) Test for the slag before its disposal
- 27.The industry shall comply with CPCB directions dated 05.02.2014 / 02.03.2015 and guidelines issued regarding online monitoring systems issued from time to time. The online monitoring system shall be calibrated periodically as per equipment suppliers manual / CPCB guidelines.
- 28.The industry should provide BT Roads for material transportation in the premises and concrete platforms with covers for storage of raw materials as well as products.
- 29.The industry should not dump the slag outside the factory premises. The industry should explore the possibility of using the slag for other useful purpose and should furnish detailed plan of action and obtain prior permission of the Board.
- 30.The industry should maintain good house keeping within the plant premises.
- 31.The industry shall maintain the following records and the same shall be made available to the Board Officials during the inspection.
 - a. Daily production details, RG-I records and Central Excise Returns.
 - b. Quantity of Effluents generated and disposed.
 - c. Log Books for pollution control systems.
 - d. Daily solid waste generated and disposed.
- 32.The industry shall develop green belt in all the vacant places. In future, excess green belt over and above 33 % of total area can be utilized for industrial activity as per requirement of industry.
- 33.The industry shall comply with Task Force directions issued from time to time.
- 34.The industry shall renew the PLI policy which includes Environmental Relief Fund (ERF) and submit copy to RO, Vizianagaram on yearly base.
- 35.The industry shall install digital display boards at publicly visible places at the main gate indicating the products, effluent discharge standards, air emission standards, hazardous waste quantities and validity of CFO and exhibit the CFO order at a prominent place in the factory premises.
- 36.The industry shall upload the six monthly compliance reports in APPCB regularly.
- 37.The industry shall submit half-yearly compliance report for the schedule A,B& C conditions stipulated in CFO & HWA order audited through NABL / MoEF accredited laboratories.
- 38.Any other directions / circulars / notices issued by CPCB, MoEF&CC and APPCB shall be followed from time to time.

Special conditions:

- 39.The industry shall submit a copy of the NOC issued by the Andhra Pradesh State Disaster Response and Fire Service Dept., (APSDRFSD) at concerned Regional Office, APPCB.
- 40.The industry shall prepare a safety report and carry out an independent safety audit report of the respective industrial activities including chemical storage, handling, transportages by an expert not associated with such industrial activity as required under Rule 10 of MSIHC Rules, 1989 and get it approved by the Factories Dept., and submit the compliance along with copy of the safety report, safety audit report and safety certificate at concerned Regional Office, APPCB.
- 41.The industry shall extend training to the working personnel for the prevention of

- accidents and necessary antidotes to ensure safety, as per the MSIHC Rules, 1989.
42. The industry shall carryout calibration of safety equipment and leak detection systems at regular intervals and shall certify the same with the Factories Department. That certified copy shall be submitted to the APPCB, Regional Office.
 43. The industry shall install fluorescent Wind Vane at the highest point in the industry premises.
 44. The industry shall submit Risk analysis and risk assessment covering worst scenario clearly describing impact within the industry premises and outside the industry premises and emergency response system.

SCHEDULE - C

[See rule 6(2)]

**[CONDITIONS OF AUTHORISATION FOR OCCUPIER OR OPERATOR
HANDLING HAZARDOUS WASTES]**

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
2. The authorisation shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.
3. The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.
4. Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.
5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;
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. An application for the renewal of an authorisation shall be made as laid down under these Rules.
9. 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.

Specific Conditions:

10. The industry shall not store hazardous waste for more than 90 days as per the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.
11. The industry shall store Used / Waste Oil and Used Lead Acid Batteries in a secured way in their premises till its disposal to the manufacturers / dealers on buyback basis.
12. The industry shall maintain 7 copy manifest system for transportation of waste generated and a copy shall be submitted to concerned Regional Office of APPCB. The driver who transports Hazardous Waste should be well acquainted about the procedure to be followed in case of an emergency during transit. The transporter should carry a Transport Emergency (TREM) Card.
13. The industry shall maintain proper records for Hazardous and Other Wastes stated in

Authorisation in Form-3 i.e., quantity of Incinerable waste, land disposal waste, recyclable waste etc., and file annual returns in Form-4 as per Rule 20 (2) of the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.

14. Annual return shall be filed by June 30th for the period ensuring 31st March of the year.

The industry shall submit Half yearly compliance reports to all the stipulated conditions in Environmental Clearance (EC), Consent for Establishment (CFE) and Consent for Operation (CFO) through website i.e., <https://pcb.ap.gov.in> by 1st of January and 1st July of every year. The first half yearly compliance reports shall be furnished by the industry and second half yearly compliance reports shall be the audited through MoEF&CC recognized and National Accreditation Board for Laboratory Testing (NABL) accredited third party.

DR. B.MADHUSUDHANA RAO, JCEE(MSRB), O/o JOINT CHIEF
ENVIRONMENTAL ENGINEER4-APPCB

To
M/s. Hira Electro Smelters Limited,
Plot No.364 to 367,
APIIC Growth Center, Bobbili (V & M),
Vizianagaram District – 535 558

Signed by Dr.
B.madhusudhana Rao
Date: 23-08-2021 17:40:44
Reason: Approved

Sl.No.	Specific Conditions	Status
<u>SEHDULE -A</u>		
1	Any up-set condition in any industrial plant / activity of the industry, which result in, increased effluent / emission discharge and/ or violation of standards stipulated in this order shall be informed to this Board, under intimation to the Collector and District Magistrate and take immediate action to bring down the discharge / emission below the limits.	We Comply.
2	The industry should carryout analysis of waste water discharges or emissions through chimneys for the parameters mentioned in this order on quarterly basis and submit to the Board.	We have complied, Analysis of waste water discharges or emissions through chimneys are done by M/s Ultimate Enviroltycal Solutions Rapiur Chhattishgarh which is NABL Accrediated and MoEF Recognised agency. Wastewater Ananlysis Report is enclosed as Annexure-I & Stack Monitoring Report is attached as Annexure-II .
3	All the rules & regulations notified by Ministry of Law and Justice, Government of India regarding Public Liability Insurance Act, 1991 should be followed as applicable.	We have complied.
4	Notwithstanding anything contained in this consent order, the Board hereby reserves the right and powers to review / revoke any and/or all the conditions imposed herein above and to make such variations as deemed fit for the purpose of the Acts by the Board.	We have complied.
5	The industry shall ensure that there shall not be any change in the process technology source & composition of raw materials and	We have complied.



	scope of working without prior approval from the Borad.	
6	The applicant shall submit Environment statement in Form V before 30th September every year as per Rule No.14 of E(P) Rules, 1986 & amendments there of.	We have complied. Environmental Statement in Form V of the year 2021-2022 is attached as Annexure-III latest copy.
7	The applicant should make applications through Online for renewal of Consent (under Water and Air Acts) and Authorization under HWM Rules at least 120 days before the date of expiry of this order, along with prescribed fee under Water and Air Acts and detailed compliance of CFO conditions for obtaining Consent & HW Authorization of the Board.	We have complied.
8	The industry should immediately submit the revised application for consent to this Board in the event of any change in the raw material used, processes employed, quantity of trade effluents & quantity of emissions. Any change in the management shall be informed to the Board. The person authorized should not let out the premises / lend / sell / transfer their industrial premises without obtaining prior permission of the State Pollution Control Board.	We have complied.
9	Any person aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of Water Act, 1974 or Section 21 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules, 1976 and Air Rules 1982, to Appellate authority constituted under Section 28 of the Water(Prevention and Control of Pollution) Act, 1974 and Section 31	We have complied.



	of the Air(Prevention and Control of Pollution) Act, 1981.	
10	The industry shall be liable to pay Environmental Compensation / Other Environmental Taxes, if any environmental damage caused to the surroundings, as fixed by the Collector & District Magistrate or any other competent authority as per the Rules in vogue.	We Agreed
11	The industry may explore the possibility of tapping the solar energy for their energy requirements.	We will be complying, noted by us.
12	The industry should educate the workers and nearby public of possible accidents and remedial measures.	We are conducting safety awarness trainings in a regular interval to overcome accidents. (Training photogarphs is attached in Annexure IV)
	<u>SEHDULE -B</u>	
01	The Board vide order dt. 09.06.2016 issued CFO to the industry to manufacture of Ferro Alloys which was valid upto 31.12.2020. Now, the industry applied for CFO & HWA (Renewal) for a period upto 31.12.2025, for a project cost of Rs. 41 Crores, with a total area of 24 acres. The issue of CFO&HWA (Renewal) to industry was placed in the CFO Committee meeting held on 17.03.2021 and the committee observed the 14 non-compliances. The committee recommended "to consider the issue of CFO & HWA to the industry, i) after installation of 2 CAAQM stations; ii) after conducting Toxicity Characteristic Leaching Procedure (TCLP) Test for the slag and iii) after clearing the dust accumulated within the premises at raw material storage area and process area. The	i. We have Complied. ii) TCLP reports of Ferro Manganese slag is submitting regularly. iii) Accumulated dust has already been cleared.



	<p>RO shall submit the status report on the 14 non-compliances of the industry". Now, the RO, Vizianagaram submitted a status report and informed that the industry paid balance CFO fee of Rs. 11,80,500/-, for a period upto 31.12.2025. The issue of CFO&HWA (Renewal) to industry was again placed in the CFO Committee meeting held on 04.08.2021 and the committee recommended to issue CFO& HWA (Renewal) to the industry for a period upto 30.09.2022, subject to submission of an undertaking at RO, Vizianagaram, on Rs. 100 Stamp paper stating that they will comply with the 1 non-compliance (3) mentioned in the Agenda within 3 months.</p>	
2	<p>The industry shall comply with the following non-compliances:</p> <p>i. Not provided 2 nos of CAAQM stations, as per CFO order dated 09.06.2016, within 3 months. The industry shall provide 2 nos of CAAQM stations, as per CFO order dated 09.06.2016, within 3 months, i.e., by 23.11.2021.</p> <p>ii. Not storing the raw materials in a closed shed. The industry shall storing the raw materials in a closed shed, within 3 months, i.e., by 23.11.2021.</p> <p>iii. Dust is accumulated within the premises at raw material storage area and process area. The industry shall take steps to reduce the Dust accumulation within the premises at raw material storage area and process area, within 3 months, i.e., by 23.11.2021.</p>	<p>i) We have Complied.</p> <p>ii) Raw material covered shed is under construction.</p> <p>iii) Accumulated dust has already been removed..</p>



	WATER POLLUTION:					
3.	The source of water is APIIC supply & Borewell. The following is the permitted water consumption:			APIIC Water line.		
				Sl. No	Purpose	Quantity(KLD)
						Furnace-I & Furnace-II
				1	Industrial cooling, boiler feed.	July'22- 3401 KL Aug'22- 3364 KL Sept'22- 3247 KL Oct'22- 3435 KL Nov'22- 3542 KL Dec'22- <u>3219 KL</u> <u>20208 KL</u>
				2	Domestic purpose	July'22- 438 KL Aug'22- 440 KL Sept'22- 432 KL Oct'22 – 443 KL Nov'22- 435 KL Dec'22- <u>441 KL</u> <u>2629.KL</u>
Separate meters with necessary pipe-line shall be maintained for assessing the quantity of water used for each of the purposes mentioned above. The effluent discharged shall not contain constituents in excess of the tolerance limits mentioned below:			We have Complied. Treated Effluent Parameters are within limit. Report attached in Annexure – I (Flow meters with Pipe lines photographs Enclosed as Annexure- V).			
	Outlet	Parameter	Limiting Standards (mg/l except for pH)			
01		Total Suspended Solids (TSS at 103-1050C)	<100.00			
		Oil & Grease	10.00			



		Biochemical Oxygen Demand (BOD3 at 270C)	30.00	
4	The industry shall maintain flow meters Electro Magnetic flow meters with totalisers for water and effluent quantity measurements for different streams of effluents and different categories of water usage stipulated in this order.			We have complied. (Flow meters with Pipe lines photographs Enclosed in Annexure V).
5	Closed circuit cooling system shall be adopted for cooling system. No waste water shall be discharge outside the factory premises under any circumstances.			We are maintaining zero liquid discharge. Treated Effluent is used for Dust Suppresion and Water sprinkling purpose.
6	The industry shall construct rain-harvesting systems in their premises so that the ground water is recharged by the storm water and the industry shall not discharge any waste water from their premises by 31.10.2020.			RWH System photograph enclosed as Annexure VI
	AIR POLLUTION:			
7.	The emissions shall not contain constituents in excess of the prescribed limits			We have complied, Stack Monitoring is also conducted by UES Raipur Chhattisgarh Results are within limit reports are attach. Annexure – II
	Chimn ey No.	Parameter	Limiting (mg/l except for pH)	
	1 & 2	Particular Matter	50 mg/Nm ³	



8	<p>The industry shall comply with ambient air quality standards of PM10 (Particulate Matter size less than 10mm) - 100 mg/ m³; PM2.5 (Particulate Matter size less than 2.5 mm) - 60 mg/ m³; SO₂ - 80 mg/ m³; NO_x - 80 mg/m³, outside the factory premises at the periphery of the industry. Standards for other parameters as mentioned in the National Ambient Air Quality Standards CPCB Notification No.B-29016/20/90/PCI-I, dated 18.11.2009.</p> <p>Noise Level : Day time (6 AM to 10 PM)-75dB(A) & Night time (10AM to 6 AM)-70dB (A)</p>	<p>We have complied, Ambient air quality Monitoring is also conducted by UES Raipur Chhattisgarh Results are within limit reports are attached Annexure- VII.</p>
9.	<p>The industry shall comply with emission limits for DG sets of capacity upto 800 KW as per the Notification G.S.R.520 (E), dated 01.07.2003 and G.S.R.448(E), dated 12.07.2004 under the Environment (Protection) Act Rules. In case of DG sets of capacity more than 800 KW shall comply with emission limits as per the Notification G.S.R.489 (E), dated 09.07.2002 at serial no.96, under the Environment (Protection) Act, 1986.</p>	<p>We have complied, DG Set Emission Monitoring is also conducted by UES Raipur Chhattisgarh Results are within limit reports are attached. - Annexure VIII</p>
10	<p>The industry shall provide a sampling port with removable dummy of not less than 15 cm diameter in the stack at a distance of 8 times the diameter of the stack from the nearest constraint such as bends etc. A platform with suitable ladder shall be provided below 1 meter of sampling port to accommodate three persons with instruments. A 15 AMP 250 V plug point shall be provided on the platform.</p>	<p>Sampling port, a platform with ladder and a 15 AMP 250 V plug point have been already provided in the stack as per APPCB norms.</p> <p>(Sampling port photos enclosed as Annexure-IX)</p>



11	Continuous online stack monitoring facilities for all the stacks and sufficient air pollution control equipments viz., fume extraction systems with Pulse Jet bag filters, ID fan and stack of adequate height to submerged arc furnace shall be provided to control emissions.	We have Complied. Already installed.
12	The industry shall continuously place the hood over the furnaces to suck the emissions.	We have Complied. (Photographs enclosed as Annexure X)
13	The industry shall provide 25% of additional bags as spare in the Bag house to meet the emergency requirements.	We have Complied.
14	Secondary fugitive emissions from furnace should be controlled within the latest permissible limits issued by the Ministry Guidelines Code of practices issued by CPCB should be followed.	We have complied, Fugitive Emmission report are attached in Annexure –XI
15	The industry shall install interlocking system between air pollution control equipments/ continuous online monitoring system and raw material feeding system so that the feeding of raw material would be stopped automatically incase the air pollution control equipment fails/ emission levels exceed the prescribed standards.	Interlocking facility is provided in between raw material loading conveyor and Air pollution control equipment.
16	The industry should not bypass the emissions from stacks under any circumstances. The industry should maintain activation recorder with the recording facility to the by-pass stack in sealed condition and subject to regular inspection by the Board.	We have complied.
17	The industry should operate air pollution control equipments continuously during the operation of the unit to ensure that all the emissions from the furnaces should pass	We are operating air pollution control equipments continuously. Bagfilters are installed in both the furnaces.

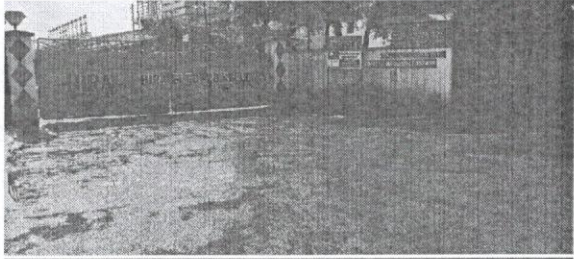


	through the bag house only.	
18	The industry shall install hourly energy meter to Air Pollution control equipments and connected to DCS.	Already installed. Photograph of energy meter is attached as Annexure- XII
19	All the raw materials should be covered and adequate dust containment / suppression measures should be maintained to control fugitive emissions.	We have Complied. (Photographs enclosed as Annexure- XIII)
20	The industry shall not cause any air pollution / dust nuisance in the surroundings	We have Complied.
21	The industry shall submit AAQM monitoring reports conducted by Authorised Agency every month.	Monitoring is conducted every month by UES Raipur Chhattishgarh reports attached. Annexure-VII
22	The industry shall upgrade the existing air pollution control system by installing ESP / Bag filters in order to meet the Board's standards.	We have Complied. We have already installed high efficient bag filters for controlling emissions as per Board's standards.
	GENERAL:	
23.	The industry shall not manufacture new products and not exceed the consented capacity without CFE/CFO of the Board.	We have Complied.
24	The industry shall maintain good housekeeping within the plant premises.	We have Complied.
25.	The industry shall maintain the following records and the same shall be made available to the inspecting officers of the Board.	
A	Daily production details.	We have Complied.
B	Quantity of Effluents generated, treated, recycled/reused and disposed	We have Complied.
C	Log Books for pollution control systems.	We have Complied.
D	Inspection book.	We have Complied.
26	The industry shall conduct total chemical leachate procedure (TCLP) Test for the slag before its disposal.	Reports of TCLP Test are attached as Annexure XIV.



27	The industry shall comply with CPCB directions dated 05.02.2014 / 02.03.2015 and guidelines issued regarding online monitoring systems issued from time to time. The online monitoring system shall be calibrated periodically as per equipment suppliers manual / CPCB guidelines.	We have Complied.
28	The industry should provide BT Roads for material transportation in the premises and concrete platforms with covers for storage of raw materials as well as products.	We have Complied. (Photographs enclosed as Annexure XV)
29	The industry should not dump the slag outside the factory premises. The industry should explore the possibility of using the slag for other useful purpose and should furnish detailed plan of action and obtain prior permission of the Board.	We have Complied.
30	The industry should maintain good house keeping within the plant premises.	We have Complied.
31	The industry shall maintain the following records and the same shall be made available to the Board Officials during the inspection.	We have Complied.
A	a. Daily production details, RG-I records and Central Excise Returns.	We have Complied.
B	Quantity of Effluents generated and disposed	We have Complied.
C	Log Books for pollution control systems.	We have Complied.
D	Daily solid waste generated and disposed.	We have Complied.
32.	The industry shall develop green belt in all the vacant places. In future, excess green belt over and above 33 % of total area can be utilized for industrial activity as per requirement of industry.	We have Complied. (Plantation data and area of plantation marked in map Enclosed as Annexure-XVI)
33	The industry shall comply with Task Force directions issued from time to time.	We have Complied.



34	The industry shall renew the PLI policy which includes Environmental Relief Fund (ERF) and submit copy to RO, Vizianagaram on yearly base.	We have Complied.
35	The industry shall install digital display boards at publicly visible places at the main gate indicating the products, effluent discharge standards, air emission standards, hazardous waste quantities and validity of CFO and exhibit the CFO order at a prominent place in the factory premises.	We have Complied. 
36	The industry shall upload the six monthly compliance reports in APPCB regularly.	We have Complied.
37	The industry shall submit half-yearly compliance report for the schedule A,B& C conditions stipulated in CFO & HWA order audited through NABL / MoEF accredited laboratories.	We have Complied.
38	Any other directions / circulars / notices issued by CPCB, MoEF&CC and APPCB shall be followed from time to time.	We have Complied.
	Special conditions:	
39	The industry shall submit a copy of the NOC issued by the Andhra Pradesh State Disaster Response and Fire Service Dept., (APSDRFSD) at concerned Regional Office, APPCB.	We are going to obtain very soon.
40	The industry shall prepare a safety report and carry out an independent safety audit report of the respective industrial activities including chemical storages / isolated storages by an expert not associated with such industrial activity as required under Rule 10 of MSIHC Rules, 1989 and get it approved by the Factories Dept., and submit the compliance	Already submitted with Regional office, APPCB, Vizianagaram



	along with copy of the safety report, safety audit report and safety certificate at concerned Regional Office, APPCB.	
41	The industry shall extend training to the working personnel for the prevention of accidents and necessary antidotes to ensure safety, as per the MSIHC Rules, 1989.	We have Complied. (Photographs enclosed as Annexure XVII)
42	The industry shall carryout calibration of safety equipment and leak detection systems at regular intervals and shall certify the same with the Factories Department. That certified copy shall be submitted to the APPCB, Regional Office.	We have Complied. (Calibration Certificate enclosed as Annexure XVIII)
43	The industry shall install fluorescent Wind Vane at the highest point in the industry premises.	We are going to obtain very soon.
44	The industry shall submit Risk analysis and risk assessment covering worst scenario clearly describing impact within the industry premises and outside the industry premises and emergency response system.	Already submitted with Regional office, APPCB, Vizianagaram.
	SCHEDULE – C	
1	The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.	We have Complied.
2	The authorisation shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.	We have Complied.
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.	We have Complied.
4	Any unauthorised change in personnel, equipment or working conditions as	We have Complied. No unauthorized change in personnel



	mentioned in the application by the person authorised shall constitute a breach of his authorisation.	equipment or working conditions as mentioned will be done.
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;	We have Complied.
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".	We have Complied.
7	It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility.	We have Complied.
8	An application for the renewal of an authorisation shall be made as laid down under these Rules.	We have Complied.
9	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.	We have Complied.
	Specific Conditions:	
10	The industry shall not store hazardous waste for more than 90 days as per the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.	We have Complied.
11	The industry shall store Used / Waste Oil and Used Lead Acid Batteries in a secured way in their premises till its disposal to the	Used / Waste Oil and Used Lead Acid Batteries are kept in a secured place separately.



	manufacturers / dealers on buyback basis.	
12	The industry shall maintain 7 copy manifest system for transportation of waste generated and a copy shall be submitted to concerned Regional Office of APPCB. The driver who transports Hazardous Waste should be well acquainted about the procedure to be followed in case of an emergency during transit. The transporter should carry a Transport Emergency (TREM) Card.	We have Complied.
13	The industry shall maintain proper records for Hazardous and Other Wastes stated in Authorisation in Form-3 i.e., quantity of Incinerable waste, land disposal waste, recyclable waste etc., and file annual returns in Form-4 as per Rule 20 (2) of the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.	Latest Annual return Form-3 E waste & Annual return Form 4 of Hazardous Waste of the year 2021-2022 attached as Annexure- XIX.
14	Annual return shall be filed by June 30th for the period ensuring 31st March of the year.	We have Complied.



Annexure-I Stack Reports

Format No. : UES/FORM/09



Ultimate
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Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Name & Address Of The Customer To, M/s. Hira Electro Smelters Limited, Plot No.364 to 367, APIIC, Growth Center, Bobbili (V) & (M), District -Vizianagaram, Andhra Pradesh	REPORT NO.	UES/TR/22-23/01871	
	LAB REF NO.	UES/22-23/ST/03786	
	DATE OF SAMPLING	18/07/2022	
	DATE OF RECEIPT	20/07/2022	
	DATE OF REPORT	26/07/2022	
	DATE OF ANALYSIS	Start:20/07/2022	End: 26/07/2022
SAMPLE DETAILS			
Monitoring For	Stack Emission Monitoring		
Customer Ref. No. & Date	7200004005/U104, DATED:16.06.2022		
Sampling Location	6 MVA Furnace-B		
Sample Collected By	Laboratory Chemist		
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003		
Sample Quantity/Packing	Thimble: 1 X 1 No.,		

TEST REPORT

Stack details				
Stack Identity	6 MVA Furnace-B			
Stack Attached To	BAG FILTER			
Material Of Construction	MS PLATE			
Height of the stack from ground level (meter)	35.0 MTR			
Stack Diameter	2.0 MTR			
Stack Shape At Top	CIRCULAR			
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255: (Part -3):2008	-	116
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	9.8
Total Gas Quantity	Nm³/h	IS :11255: (Part -3):2008	-	84864.2
Sulphur Dioxide (SO ₂)	mg/Nm³	IS 11255 (Part 2):1985, RA 2003	600	342
Oxides Of Nitrogen (NOx)	mg/Nm³	IS 11255 (Part 7):2005, RA 2012	300	168
O ₂	%	IS 13270:1992, RA 2009	-	7.2
CO ₂	%	IS 13270:1992, RA 2009	-	6.4
Absolute Pressure	mmHg	IS :11255 :(Part -3):2008	-	736.8
Total Particulate Matter (TPM)	mg/Nm³	IS :11255 :(Part -1):1985, RA 2003	50	38.6

REMARKS: RESULTS ARE AS ABOVE

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- > This is for information as the party has asked for a test(s) only

 26/07/22 REVIEWED BY		For ULTIMATE ENVIROLYTICAL SOLUTIONS 26/07/22 AUTHORIZED SIGNATORY
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Name & Address Of The Customer		REPORT NO.	UES/TR/22-23/02407
To, M/s. Hira Electro Smelters Limited, Plot No.364 to 367, APIIC, Growth Center, Bobbili (V) & (M), District -Vizianagaram, Andhra Pradesh		LAB REF NO.	UES/22-23/ST/07043
		DATE OF SAMPLING	18/08/2022
		DATE OF RECEIPT	20/08/2022
		DATE OF REPORT	25/08/2022
		DATE OF ANALYSIS	Start:20/08/2022 END: 25/08/2022
SAMPLE DETAILS			
Monitoring For	Stack Emission Monitoring		
Customer Ref. No. & Date	7200004005/U104, DATED:16.06.2022		
Sampling Location	6 MVA Furnace-A		
Sample Collected By	Laboratory Chemist		
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003		
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO _x : 25 ml X 1 No. PVC Bottle, Rubber Bladder: 1 X 1 No.,		

TEST REPORT

Stack details				
Stack Identity				6 MVA Furnace-A
Stack Attached To				BAG FILTER
Material Of Construction				MS PLATE
Height of the stack from ground level (meter)				35.0 MTR
Stack Diameter				2.0 MTR
Stack Shape At Top				CIRCULAR
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255:(Part -3):2008	-	108
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	6.8
Total Gas Quantity	Nm ³ /h	IS :11255:(Part -3):2008	-	60121.8
Sulphur Dioxide (SO ₂)	mg/Nm ³	IS 11255 (Part 2):1985, RA 2003	600	228
Oxides Of Nitrogen (NO _x)	mg/Nm ³	IS 11255 (Part 7):2005, RA 2012	300	136
O ₂	%	IS 13270:1992, RA 2009	-	9.8
CO ₂	%	IS 13270:1992, RA 2009	-	10.2
Absolute Pressure	mmHg	IS :11255 :(Part -3):2008	-	734.2
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	32.8

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Name & Address Of The Customer To, M/s. Hira Electro Smelters Limited, Plot No.364 to 367, APIIC, Growth Center, Bobbili (V) & (M), District -Vizianagaram, Andhra Pradesh	REPORT NO.	UES/TR/22-23/02408	
	LAB REF NO.	UES/22-23/ST/07044	
	DATE OF SAMPLING	18/08/2022	
	DATE OF RECEIPT	20/08/2022	
	DATE OF REPORT	25/08/2022	
	DATE OF ANALYSIS	Start:20/08/2022	End: 25/08/2022
SAMPLE DETAILS			
Monitoring For	Stack Emission Monitoring		
Customer Ref. No. & Date	7200004005/U104, DATED:16.06.2022		
Sampling Location	6 MVA Furnace-B		
Sample Collected By	Laboratory Chemist		
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003		
Sample Quantity/Packing	Thimble: 1 X 1 No.,		

TEST REPORT

Stack details				
Stack Identity	6 MVA Furnace-B			
Stack Attached To	BAG FILTER			
Material Of Construction	MS PLATE			
Height of the stack from ground level (meter)	35.0 MTR			
Stack Diameter	2.0 MTR			
Stack Shape At Top	CIRCULAR			
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255: (Part -3):2008	-	112
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	7.4
Total Gas Quantity	Nm³/h	IS :11255: (Part -3):2008	-	64746.9
Sulphur Dioxide (SO ₂)	mg/Nm³	IS 11255 (Part 2):1985, RA 2003	600	314
Oxides Of Nitrogen (NO _x)	mg/Nm³	IS 11255 (Part 7):2005, RA 2012	300	146
O ₂	%	IS 13270:1992, RA 2009	-	9.4
CO ₂	%	IS 13270:1992, RA 2009	-	10.4
Absolute Pressure	mmHg	IS :11255 :(Part -3):2008	-	734.2
Total Particulate Matter (TPM)	mg/Nm³	IS :11255 :(Part -1):1985, RA 2003	50	36.4

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Name & Address Of The Customer To, M/s. Hira Electro Smelters Limited, Plot No.364 to 367, APIIC, Growth Center, Bobbili (V) & (M), District -Vizianagaram, Andhra Pradesh	REPORT NO.	UES/TR/22-23/03111	
	LAB REF NO.	UES/22-23/ST/08320	
	DATE OF SAMPLING	22/09/2022	
	DATE OF RECEIPT	24/09/2022	
	DATE OF REPORT	28/09/2022	
	DATE OF ANALYSIS	Start:24/09/2022	END: 28/09/2022
SAMPLE DETAILS			
Monitoring For	Stack Emission Monitoring		
Customer Ref. No. & Date	7200004005/U104, DATED:16.06.2022		
Sampling Location	6 MVA Furnace-A		
Sample Collected By	Laboratory Chemist		
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003		
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO _x : 25 ml X 1 No. PVC Bottle, Rubber Bladder: 1 X 1 No.,		

TEST REPORT

Stack details				
Stack Identity	6 MVA Furnace-A			
Stack Attached To	BAG FILTER			
Material Of Construction	MS PLATE			
Height of the stack from ground level (meter)	35.0 MTR			
Stack Diameter	2.0 MTR			
Stack Shape At Top	CIRCULAR			
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255: (Part -3):2008	-	114
Flue Gas Velocity	M/s	IS :11255 : (Part -3):2008	-	7.6
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	66153.2
Sulphur Dioxide (SO ₂)	mg/Nm ³	IS 11255 (Part 2):1985, RA 2003	600	268
Oxides Of Nitrogen (NO _x)	mg/Nm ³	IS 11255 (Part 7):2005, RA 2012	300	162
O ₂	%	IS 13270:1992, RA 2009	-	9.2
CO ₂	%	IS 13270:1992, RA 2009	-	10.2
Absolute Pressure	mmHg	IS :11255 : (Part -3):2008	-	733.4
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 : (Part -1):1985, RA 2003	50	30.8

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Name & Address Of The Customer		REPORT NO.	UES/TR/22-23/03112
To,		LAB REF NO.	UES/22-23/ST/08321
M/s. Hira Electro Smelters Limited,		DATE OF SAMPLING	22/09/2022
Plot No.364 to 367, APIIC,		DATE OF RECEIPT	24/09/2022
Growth Center, Bobbili (V) & (M),		DATE OF REPORT	28/09/2022
District -Vizianagaram, Andhra Pradesh		DATE OF ANALYSIS	Start:24/09/2022 End: 28/09/2022
SAMPLE DETAILS			
Monitoring For	Stack Emission Monitoring		
Customer Ref. No. & Date	7200004005/U104, DATED:16.06.2022		
Sampling Location	6 MVA Furnace-B		
Sample Collected By	Laboratory Chemist		
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003		
Sample Quantity/Packing	Thimble: 1 X 1 No.,		

TEST REPORT

Stack details				
Stack Identity			6 MVA Furnace-B	
Stack Attached To			BAG FILTER	
Material Of Construction			MS PLATE	
Height of the stack from ground level (meter)			35.0 MTR	
Stack Diameter			2.0 MTR	
Stack Shape At Top			CIRCULAR	
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255:(Part -3):2008	-	104
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	8.6
Total Gas Quantity	Nm ³ /h	IS :11255:(Part -3):2008	-	76843.2
Sulphur Dioxide (SO ₂)	mg/Nm ³	IS 11255 (Part 2):1985, RA 2003	600	298
Oxides Of Nitrogen (NO _x)	mg/Nm ³	IS 11255 (Part 7):2005, RA 2012	300	128
O ₂	%	IS 13270:1992, RA 2009	-	8.6
CO ₂	%	IS 13270:1992, RA 2009	-	10.8
Absolute Pressure	mmHg	IS :11255 :(Part -3):2008	-	733.4
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	34.8

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End of the test report

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Name & Address Of The Customer To, M/s. Hira Electro Smelters Limited, Plot No.364 to 367, APIIC, Growth Center, Bobbili (V) & (M), District -Vizianagaram, Andhra Pradesh	REPORT NO.	UES/TR/22-23/04368	
	LAB REF NO.	UES/22-23/ST/010259	
	DATE OF SAMPLING	13/10/2022	
	DATE OF RECEIPT	15/10/2022	
	DATE OF REPORT	19/10/2022	
	DATE OF ANALYSIS	Start: 15/10/2022	End: 19/10/2022
SAMPLE DETAILS			
Monitoring For	Stack Emission Monitoring		
Customer Ref. No. & Date	7200004005/U104, DATED:16.06.2022		
Sampling Location	6 MVA Furnace-A		
Sample Collected By	Laboratory Chemist		
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003 Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO _x : 25 ml X 1 No. PVC Bottle, Rubber Bladder: 1 X 1 No.,		
Sample Quantity/Packing			

TEST REPORT

Stack details				
Stack Identity				6 MVA Furnace-A
Stack Attached To				BAG FILTER
Material Of Construction				MS PLATE
Height of the stack from ground level (meter)				35.0 MTR
Stack Diameter				2.0 MTR
Stack Shape At Top				CIRCULAR
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255:(Part-3):2008	-	117
Flue Gas Velocity	M/s	IS :11255 :(Part-3):2008	-	7.9
Total Gas Quantity	Nm ³ /h	IS :11255 :(Part-3):2008	-	68235.6
Sulphur Dioxide (SO ₂)	mg/Nm ³	IS 11255 (Part 2):1985, RA 2003	600	273
Oxides Of Nitrogen (NO _x)	mg/Nm ³	IS 11255 (Part 7):2005, RA 2012	300	168
O ₂	%	IS 13270:1992, RA 2009	-	9.4
CO ₂	%	IS 13270:1992, RA 2009	-	10.7
Absolute Pressure	mmHg	IS :11255 :(Part-3):2008	-	739.6
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part-1):1985, RA 2003	50	31.2

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End of the test report

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Name & Address Of The Customer To, M/s. Hira Electro Smelters Limited, Plot No.364 to 367, APIIC, Growth Center, Bobbili (V) & (M), District -Vizianagaram, Andhra Pradesh	REPORT NO.	UES/TR/22-23/04369	
	LAB REF NO.	UES/22-23/ST/010260	
	DATE OF SAMPLING	13/10/2022	
	DATE OF RECEIPT	15/10/2022	
	DATE OF REPORT	19/10/2022	
	DATE OF ANALYSIS	Start: 15/10/2022	End: 19/10/2022
SAMPLE DETAILS			
Monitoring For	Stack Emission Monitoring		
Customer Ref. No. & Date	7200004005/U104, DATED:16.06.2022		
Sampling Location	6 MVA Furnace-B		
Sample Collected By	Laboratory Chemist		
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003		
Sample Quantity/Packing	Thimble: 1 X 1 No.,		

TEST REPORT

Stack details				
Stack Identity				6 MVA Furnace-B
Stack Attached To				BAG FILTER
Material Of Construction				MS PLATE
Height of the stack from ground level (meter)				35.0 MTR
Stack Diameter				2.0 MTR
Stack Shape At Top				CIRCULAR
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255: (Part-3):2008	-	107
Flue Gas Velocity	M/s	IS :11255 :(Part-3):2008	-	9.1
Total Gas Quantity	Nm ³ /h	IS :11255: (Part-3):2008	-	80668.9
Sulphur Dioxide (SO ₂)	mg/Nm ³	IS 11255 (Part 2):1985, RA 2003	600	301
Oxides Of Nitrogen (NOx)	mg/Nm ³	IS 11255 (Part 7):2005, RA 2012	300	132
O ₂	%	IS 13270:1992, RA 2009	-	9.0
CO ₂	%	IS 13270:1992, RA 2009	-	11.2
Absolute Pressure	mmHg	IS :11255 :(Part-3):2008	-	735.6
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part-1):1985, RA 2003	50	36.2

REMARKS: RESULTS ARE AS ABOVE

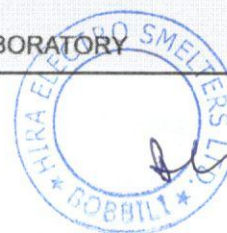
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Format No. : UES/FORM/09

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Name & Address Of The Customer		REPORT NO.	UES/TR/22-23/04495
To, M/s. Hira Electro Smelters Limited, Plot No.364 to 367, APIIC, Growth Center, Bobbili (V) & (M), District -Vizianagaram, Andhra Pradesh		LAB REF NO.	UES/22-23/ST/010326
		DATE OF SAMPLING	15/11/2022
		DATE OF RECEIPT	17/11/2022
		DATE OF REPORT	21/11/2022
		DATE OF ANALYSIS	Start: 17/11/2022 End: 21/11/2022
SAMPLE DETAILS			
Monitoring For		Stack Emission Monitoring	
Customer Ref. No. & Date		7200004005/U104, DATED: 16.06.2022	
Sampling Location		6 MVA Furnace-A	
Sample Collected By		Laboratory Chemist	
Sampling Procedure		IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003	
Sample Quantity/Packing		Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO _x : 25 ml X 1 No. PVC Bottle, Rubber Bladder: 1 X 1 No.,	

TEST REPORT

Stack details				
Stack Identity		6 MVA Furnace-A		
Stack Attached To		BAG FILTER		
Material Of Construction		MS PLATE		
Height of the stack from ground level (meter)		35.0 MTR		
Stack Diameter		2.0 MTR		
Stack Shape At Top		CIRCULAR		
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255: (Part-3):2008	-	112
Flue Gas Velocity	M/s	IS :11255 :(Part-3):2008	-	7.6
Total Gas Quantity	Nm ³ /h	IS :11255: (Part-3):2008	-	66496.9
Sulphur Dioxide (SO ₂)	mg/Nm ³	IS 11255 (Part 2):1985, RA 2003	600	264
Oxides Of Nitrogen (NO _x)	mg/Nm ³	IS 11255 (Part 7):2005, RA 2012	300	152
O ₂	%	IS 13270:1992, RA 2009	-	9.2
CO ₂	%	IS 13270:1992, RA 2009	-	10.5
Absolute Pressure	mmHg	IS :11255 :(Part-3):2008	-	739.8
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part-1):1985, RA 2003	50	30.8

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	LAB REF NO.	UES/22-23/ST/010327	
	DATE OF SAMPLING	15/11/2022	
	DATE OF RECEIPT	17/11/2022	
	DATE OF REPORT	21/11/2022	
	DATE OF ANALYSIS	Start: 17/11/2022	End: 21/11/2022
SAMPLE DETAILS			
Monitoring For	Stack Emission Monitoring		
Customer Ref. No. & Date	7200004005/U104, DATED:16.06.2022		
Sampling Location	6 MVA Furnace-B		
Sample Collected By	Laboratory Chemist		
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003		
Sample Quantity/Packing	Thimble: 1 X 1 No.,		

TEST REPORT

Stack details				
Stack Identity				6 MVA Furnace-B
Stack Attached To				BAG FILTER
Material Of Construction				MS PLATE
Height of the stack from ground level (meter)				35.0 MTR
Stack Diameter				2.0 MTR
Stack Shape At Top				CIRCULAR
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255: (Part -3):2008	-	104
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	8.6
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	76843.2
Sulphur Dioxide (SO ₂)	mg/Nm ³	IS 11255 (Part 2):1985, RA 2003	600	298
Oxides Of Nitrogen (NOx)	mg/Nm ³	IS 11255 (Part 7):2005, RA 2012	300	129
O ₂	%	IS 13270:1992, RA 2009	-	9.4
CO ₂	%	IS 13270:1992, RA 2009	-	10.8
Absolute Pressure	mmHg	IS :11255 :(Part -3):2008	-	739.8
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	38.4

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Name & Address Of The Customer To, M/s. Hira Electro Smelters Limited, Plot No.364 to 367, APIIC, Growth Center, Bobbili (V) & (M), District -Vizianagaram, Andhra Pradesh	REPORT NO.	UES/TR/22-23/05415	
	LAB REF NO.	UES/22-23/ST/012138	
	DATE OF SAMPLING	13/12/2022	
	DATE OF RECEIPT	15/12/2022	
	DATE OF REPORT	19/12/2022	
	DATE OF ANALYSIS	Start: 15/12/2022	End: 19/12/2022
SAMPLE DETAILS			
Monitoring For	Stack Emission Monitoring		
Customer Ref. No. & Date	7200004005/U104, DATED:16.06.2022		
Sampling Location	6 MVA Furnace-A		
Sample Collected By	Laboratory Chemist		
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003		
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO _x : 25 ml X 1 No. PVC Bottle, Rubber Bladder: 1 X 1 No.,		

TEST REPORT

Stack details				
Stack Identity	6 MVA Furnace-A			
Stack Attached To	BAG FILTER			
Material Of Construction	MS PLATE			
Height of the stack from ground level (meter)	35.0 MTR			
Stack Diameter	2.0 MTR			
Stack Shape At Top	CIRCULAR			
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255:(Part-3):2008	-	120
Flue Gas Velocity	M/s	IS :11255:(Part-3):2008	-	9.5
Total Gas Quantity	Nm ³ /h	IS :11255:(Part-3):2008	-	81429.1
Sulphur Dioxide (SO ₂)	mg/Nm ³	IS 11255 (Part 2):1985, RA 2003	600	268
Oxides Of Nitrogen (NO _x)	mg/Nm ³	IS 11255 (Part 7):2005, RA 2012	300	164
O ₂	%	IS 13270:1992, RA 2009	-	9.2
CO ₂	%	IS 13270:1992, RA 2009	-	9.8
Absolute Pressure	mmHg	IS :11255:(Part-3):2008	-	740.1
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255:(Part-1):1985, RA 2003	50	32.6

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Name & Address Of The Customer To, M/s. Hira Electro Smelters Limited, Plot No.364 to 367, APIIC, Growth Center, Bobbili (V) & (M), District -Vizianagaram, Andhra Pradesh	REPORT NO.	UES/TR/22-23/05416	
	LAB REF NO.	UES/22-23/ST/012139	
	DATE OF SAMPLING	13/12/2022	
	DATE OF RECEIPT	15/12/2022	
	DATE OF REPORT	19/12/2022	
	DATE OF ANALYSIS	Start: 15/12/2022	End: 19/12/2022
SAMPLE DETAILS			
Monitoring For	Stack Emission Monitoring		
Customer Ref. No. & Date	7200004005/U104, DATED: 16.06.2022		
Sampling Location	6 MVA Furnace-B		
Sample Collected By	Laboratory Chemist		
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003		
Sample Quantity/Packing	Thimble: 1 X 1 No.,		

TEST REPORT

Stack details				
Stack Identity	6 MVA Furnace-B			
Stack Attached To	BAG FILTER			
Material Of Construction	MS PLATE			
Height of the stack from ground level (meter)	35.0 MTR			
Stack Diameter	2.0 MTR			
Stack Shape At Top	CIRCULAR			
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255: (Part -3):2008	-	112
Flue Gas Velocity	M/s	IS :11255 : (Part -3):2008	-	10.8
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	94495.6
Sulphur Dioxide (SO ₂)	mg/Nm ³	IS 11255 (Part 2):1985, RA 2003	600	298
Oxides Of Nitrogen (NOx)	mg/Nm ³	IS 11255 (Part 7):2005, RA 2012	300	142
O ₂	%	IS 13270:1992, RA 2009	-	9.3
CO ₂	%	IS 13270:1992, RA 2009	-	10.6
Absolute Pressure	mmHg	IS :11255 : (Part -3):2008	-	739.2
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 : (Part -1):1985, RA 2003	50	37.4

REMARKS: RESULTS ARE AS ABOVE

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Annexure-II – Waste Water Report

Format No. : UES/FORM/09



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Name & Address Of The Customer To, M/s. Hira Electro Smelters Limited, Plot No.364 to 367, APIIC, Growth Center, Bobbili (V) & (M), District -Vizianagaram, Andhra Pradesh		Report No UES/TR/22-23/01872 Lab. Ref. No. UES/22-23/W/03787 Date of Sampling 18/07/2022 Date of Receipt 20/07/2022 Date of Report 26/07/2022 Date of Analysis Start:20/07/2022 End: 26/07/2022	
SAMPLE DETAILS			
Customer Sample ID	Neutralization pit Water	Customer Ref. No. & Date	7200004005/U104, DATED: 16.06.2022
Sample Type	1. Neutralization pit Inlet Water 2. Neutralization pit Outlet Water	Sample Condition At Receipt	Ok
Packing of Sample	Jerry Can (3 ltr. *1) Glass bottle (1 ltr. *1)	Sample Collected By	Laboratory Chemist
Other Details	Sealed	Quantity Received	Approx. 5 Ltr.

TEST REPORT						
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMITS AS PER CONSENT	Neutralization pit Inlet Water	Neutralization pit Outlet Water
1	pH Value at 25.2°C	-	IS:3025: (Part-11): 1983, RA 2012	5.5 To 9.0	7.58	7.16
2	Total Suspended Solid	mg/L	IS:3025: (Part-17): 1984, RA 2012	100	98.0	24.0
3	Chemical Oxygen Demand	mg/L	IS:3025: (Part-58):2006, RA 2012	250	178.0	22.0
4	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025: (Part-44):1993 RA 2014	30	16.4	8.6
5	Oil & Grease	mg/L	IS:3025: (Part-39):1986	10	2.6	N.D.

Note : mg/lit.: milligram per liter. N.D.: Not Detected.

REMARKS: RESULTS ARE AS ABOVE

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Name & Address Of The Customer To, M/s. Hira Electro Smelters Limited, Plot No.364 to 367, APIIC, Growth Center, Bobbili (V) & (M), District -Vizianagaram, Andhra Pradesh		Report No	UES/TR/22-23/02409
		Lab. Ref. No.	UES/22-23/W/07045-07046
		Date of Sampling	18/08/2022
		Date of Receipt	20/08/2022
		Date of Report	25/08/2022
		Date of Analysis	Start:20/08/2022 End: 25/08/2022
SAMPLE DETAILS			
Customer Sample ID	Neutralization pit Water	Customer Ref. No. & Date	7200004005/U104, DATED:16.06.2022
Sample Type	1. Neutralization pit Inlet Water 2. Neutralization pit Outlet Water	Sample Condition At Receipt	Ok
Packing of Sample	Jerry Cane (3 ltr. *1) Glass bottle (1 ltr. *1)	Sample Collected By	Laboratory Chemist
Other Details	Sealed	Quantity Received	Approx. 5 Ltr.

TEST REPORT						
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMITS AS PER CONSENT	Neutralization pit Inlet Water	Neutralization pit Outlet Water
1	pH Value at 25.2°C	-	IS:3025: (Part-11): 1983, RA 2012	5.5 To 9.0	8.62	7.56
2	Total Suspended Solid	mg/L	IS:3025: (Part-17): 1984, RA 2012	100	108.0	32.0
3	Chemical Oxygen Demand	mg/L	IS:3025: (Part-58):2006, RA 2012	250	142.0	54.0
4	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025: (Part-44):1993 RA 2014	30	22.8	10.8
5	Oil & Grease	mg/L	IS:3025: (Part-39):1986	10	1.2	N.D.

Note : mg/lit.: milligram per liter. N.D.: Not Detected.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

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Home & Address Of The Customer		Report No	UES/TR/22-23/03113	
To, M/s. Hira Electro Smelters Limited, Plot No.364 to 367, APIIC, Growth Center, Bobbili (V) & (M), District -Vizianagaram, Andhra Pradesh		Lab. Ref. No.	UES/22-23/W/08322-08323	
		Date of Sampling	22/09/2022	
		Date of Receipt	24/09/2022	
		Date of Report	28/09/2022	
		Date of Analysis	Start:24/09/2022	End: 29/09/2022
SAMPLE DETAILS				
Customer Sample ID	Neutralization pit Water	Customer Ref. No. & Date	7200004005/u104, dated:16.06.2022	
Sample Type	1. Neutralization pit Inlet Water 2. Neutralization pit Outlet Water	Sample Condition At Receipt	Ok	
Packing of Sample	Jerry Cane (3 ltr. *1) Glass bottle (1 ltr. *1)	Sample Collected By	Laboratory Chemist	
Other Details	Sealed	Quantity Received	Approx. 5 Ltr.	

TEST REPORT						
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMITS AS PER CONSENT	Neutralization pit Inlet Water	Neutralization pit Outlet Water
1	pH Value at 25.2°C	-	IS:3025:(Part-11): 1983, RA 2012	5.5 To 9.0	7.86	7.24
2	Total Suspended Solid	mg/L	IS:3025:(Part-17): 1984, RA 2012	100	98.0	42.0
3	Chemical Oxygen Demand	mg/L	IS:3025:(Part-58):2006, RA 2012	250	162.0	24.0
4	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025:(Part-44):1993 RA 2014	30	26.4	8.6
5	Oil & Grease	mg/L	IS:3025:(Part-39):1986	10	1.4	N.D.

Note : mg/lit.: milligram per liter. N.D.: Not Detected.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

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- Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
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Name & Address Of The Customer To, M/s. Hira Electro Smelters Limited, Plot No.364 to 367, APIIC, Growth Center, Bobbili (V) & (M), District -Vizianagaram, Andhra Pradesh		Report No	UES/TR/22-23/04370	
		Lab. Ref. No.	UES/22-23/W/010261-010262	
		Date of Sampling	13/10/2022	
		Date of Receipt	15/10/2022	
		Date of Report	19/10/2022	
		Date of Analysis	Start: 15/10/2022	End: 19/10/2022
SAMPLE DETAILS				
Customer Sample ID	Neutralization pit Water	Customer Ref. No. & Date	7200004005/u104, dated:16.06.2022	
Sample Type	1. Neutralization pit Inlet Water 2. Neutralization pit Outlet Water	Sample Condition At Receipt	Ok	
Packing of Sample	Jerry Cane (3 ltr. *1) Glass bottle (1 ltr. *1)	Sample Collected By	Laboratory Chemist	
Other Details	Sealed	Quantity Received	Approx. 5 Ltr.	

TEST REPORT						
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMITS AS PER CONSENT	Neutralization pit Inlet Water	Neutralization pit Outlet Water
1	pH Value at 25.2°C	-	IS:3025: (Part-11): 1983, RA 2012	5.5 To 9.0	7.88	7.28
2	Total Suspended Solid	mg/L	IS:3025: (Part-17): 1984, RA 2012	100	96.0	38.0
3	Chemical Oxygen Demand	mg/L	IS:3025: (Part-58): 2006, RA 2012	250	160.0	22.0
4	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025: (Part-44): 1993 RA 2014	30	26.2	8.4
5	Oil & Grease	mg/L	IS:3025: (Part-39): 1986	10	1.2	N.D.

Note : mg/lit.: milligram per liter. N.D.: Not Detected.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- > The use of the report for publication, arbitration or as legal dispute is forbidden.
- > Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- > This is for information as the party has asked for above test(s) only.

 13/10/2022 REVIEWED BY	 For ULTIMATE ENVIROLYTICAL SOLUTIONS	 13/10/2022 AUTHORIZED SIGNATORY
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End of the test report

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HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Format No. : UES/FORM/09

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Name & Address Of The Customer To, M/s. Hira Electro Smelters Limited, Plot No.364 to 367, APIIC, Growth Center, Bobbili (V) & (M), District -Vizianagaram, Andhra Pradesh		Report No UES/TR/22-23/04396
		Lab. Ref. No. UES/22-23/W/010289-010290
		Date of Sampling 15/11/2022
		Date of Receipt 17/11/2022
		Date of Report 21/11/2022
		Date of Analysis Start:17/11/2022 End:21/11/2022
SAMPLE DETAILS		
Customer Sample ID	Neutralization pit Water	Customer Ref. No. & Date 7200004005/u104, dated:16.06.2022
Sample Type	1. Neutralization pit Inlet Water 2. Neutralization pit Outlet Water	Sample Condition At Receipt Ok
Packing of Sample	Jerry Cane (3 ltr. *1) Glass bottle (1 ltr. *1)	Sample Collected By Laboratory Chemist
Other Details	Sealed	Quantity Received Approx. 5Ltr.

TEST REPORT						
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMITS AS PER CONSENT	RESULT	
					Neutralization pit Inlet Water	Neutralization pit Outlet Water
1	pH Value at 25.2°C	-	IS:3025: (Part-11): 1983, RA 2012	5.5 To 9.0	7.45	7.76
2	Total Suspended Solid	mg/L	IS:3025: (Part-17): 1984, RA 2012	100	94.0	36.0
3	Chemical Oxygen Demand	mg/L	IS:3025: (Part-58):2006, RA 2012	250	158.0	32.0
4	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025: (Part-44):1993 RA 2014	30	28.4	9.2
5	Oil & Grease	mg/L	IS:3025: (Part-39):1986	10	1.1	N.D.

Note:mg/lit.: milligram per liter. N.D.: Not Detected.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- > The use of the report for publication, arbitration or as legal dispute is forbidden.
- > Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- > This is for information as the party has asked for above test(s) only.

 21/11/2022 REVIEWED BY		For ULTIMATE ENVIROLYTICAL SOLUTIONS AUTHORIZED SIGNATORY
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End of the test report

AN ISO : 9001:2015 / ISO: 14001:2015 / ISO 45001:2018 CERTIFIED LABORATORY





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Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

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Name & Address Of The Customer To, M/s. Hira Electro Smelters Limited, Plot No.364 to 367, APIIC, Growth Center, Bobbili (V) & (M), District -Vizianagaram, Andhra Pradesh		Report No	UES/TR/22-23/05417	
		Lab. Ref. No.	UES/22-23/W/012140-012141	
		Date of Sampling	13/12/2022	
		Date of Receipt	15/12/2022	
		Date of Report	19/12/2022	
		Date of Analysis	Start: 15/12/2022	End: 19/12/2022
SAMPLE DETAILS				
Customer Sample ID	Neutralization pit Water	Customer Ref. No. & Date	7200004005/u104, dated:16.06.2022	
Sample Type	1. Neutralization pit Inlet Water 2. Neutralization pit Outlet Water	Sample Condition At Receipt	Ok	
Packing of Sample	Jerry Cane (3 ltr. *1) Glass bottle (1 ltr. *1)	Sample Collected By	Laboratory Chemist	
Other Details	Sealed	Quantity Received	Approx. 5 Ltr.	

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMITS AS PER CONSENT	Neutralization pit Inlet Water	Neutralization pit Outlet Water
1	pH Value at 25.2°C	-	IS:3025: (Part-11): 1983, RA 2012	5.5 To 9.0	7.84	7.26
2	Total Suspended Solid	mg/L	IS:3025: (Part-17): 1984, RA 2012	100	98.0	39
3	Chemical Oxygen Demand	mg/L	IS:3025: (Part-58): 2006, RA 2012	250	168.0	28.0
4	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025: (Part-44): 1993 RA 2014	30	27.5	9.2
5	Oil & Grease	mg/L	IS:3025: (Part-39): 1986	10	1.3	N.D.

Note : mg/lit.: milligram per liter, N.D.: Not Detected.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- > The use of the report for publication, arbitration or as legal dispute is forbidden.
- > Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- > This is for information as the party has asked for above test(s) only.

 12/12/2022 REVIEWED BY	 For ULTIMATE ENVIROLYTICAL SOLUTIONS AUTHORIZED SIGNATORY
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-----End of the test report-----

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Annexure -III (Form V)

HIR
HIRA ELECTRO S

Ref: HESL/LTR/2021-22/043

To

The Environmental Engineer,
A. P. Pollution Control Board,
Regional Office, D. No. 8-30-19,
Sai Nagar, Thotapalem,
Vizianagaram, A. P. - 535 002

Sub: Submission of Environmental Statement (Form-V) for the Financial Year 2021-2022- Reg.

Respected Sir,

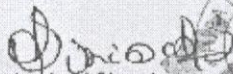
We are submitting herewith the Environmental Statement in Form-V as prescribed under the 14 of EPA act, 1986 for the Financial Year 2021-2022 of M/s. Hira Electro Smelters Limited, Plot No.364-367, APIIC, Growth Centre, Bobbili, Vizianagaram Dist.

Kindly acknowledge the receipt of the same.

Thanking You,

Yours faithfully,

For, HIRA ELECTRO SMELTERS LIMITED


Authorised Signatory

Encl: Environmental Statement- (Form-V) for the Financial Year 2021-2022.

Cc to:

1. The Member Secretary, APPCB, D.No.33-26/14 D/2, Near Sunrise Hospital, Pushpa Hotel Centre, Chalamvari Street, Kasturibaipet, Vijayawada-520 010.
2. The Additional Principal Chief Conservator of Forests @ Regional Office, MOEF (Ministry of Environment Forest & Climate Change 1st & 2nd Floor, HEPC building No.34, Cathedral Garden Road, Nungambakkam, Chennai-600 034.

Re:

EN5222388333H (Hira) 19022238833
SP BOBBILI H.O. (535580)
Counter No:1, 15/06/2022, 11:32
To: THE MEMBER SEC, AP POLLUTION CN
PIN: 520010, Vizianagaram S.O
From: HIRA ELECTRO APIC BOBBILI
Via: Speed
Date: 07.07.2022
<Track on www.indiafast.gov.in>
<Dist: 18002260846> Near Paks, Stn: 18002260846

India Post

HIRA Electro Smelters Ltd.
(Hira Pte. Ltd.)

EN5222388333H (Hira) 19022238833
SP BOBBILI H.O. (535580)
Counter No:1, 15/06/2022, 11:32
To: THE MEMBER SEC, AP POLLUTION CN
PIN: 520010, Vizianagaram S.O
From: HIRA ELECTRO APIC BOBBILI
Via: Speed
Date: 07.07.2022
<Track on www.indiafast.gov.in>

India Post



Annexure -IV TRAINING PHOTOGRAPH



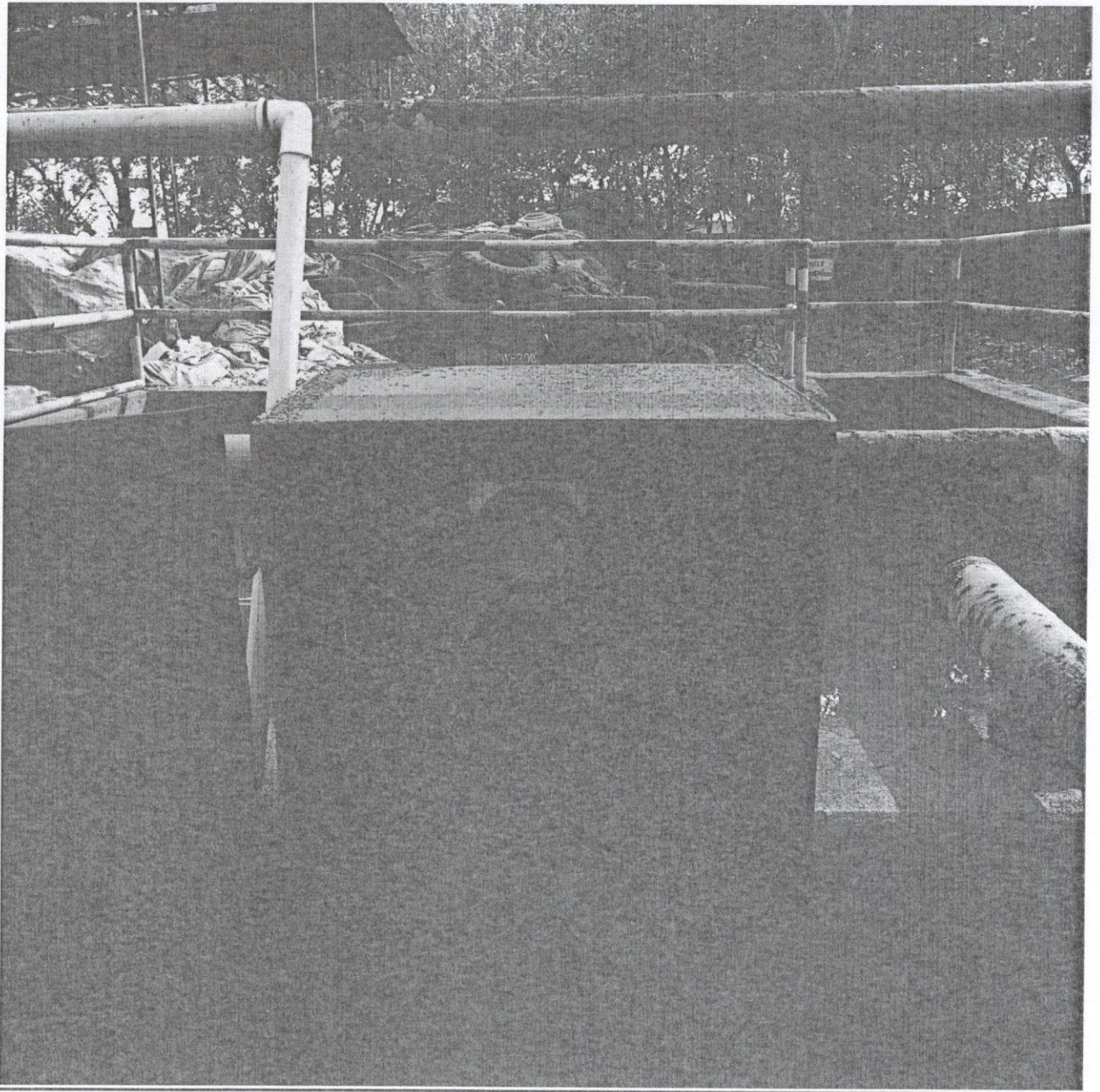
- 2

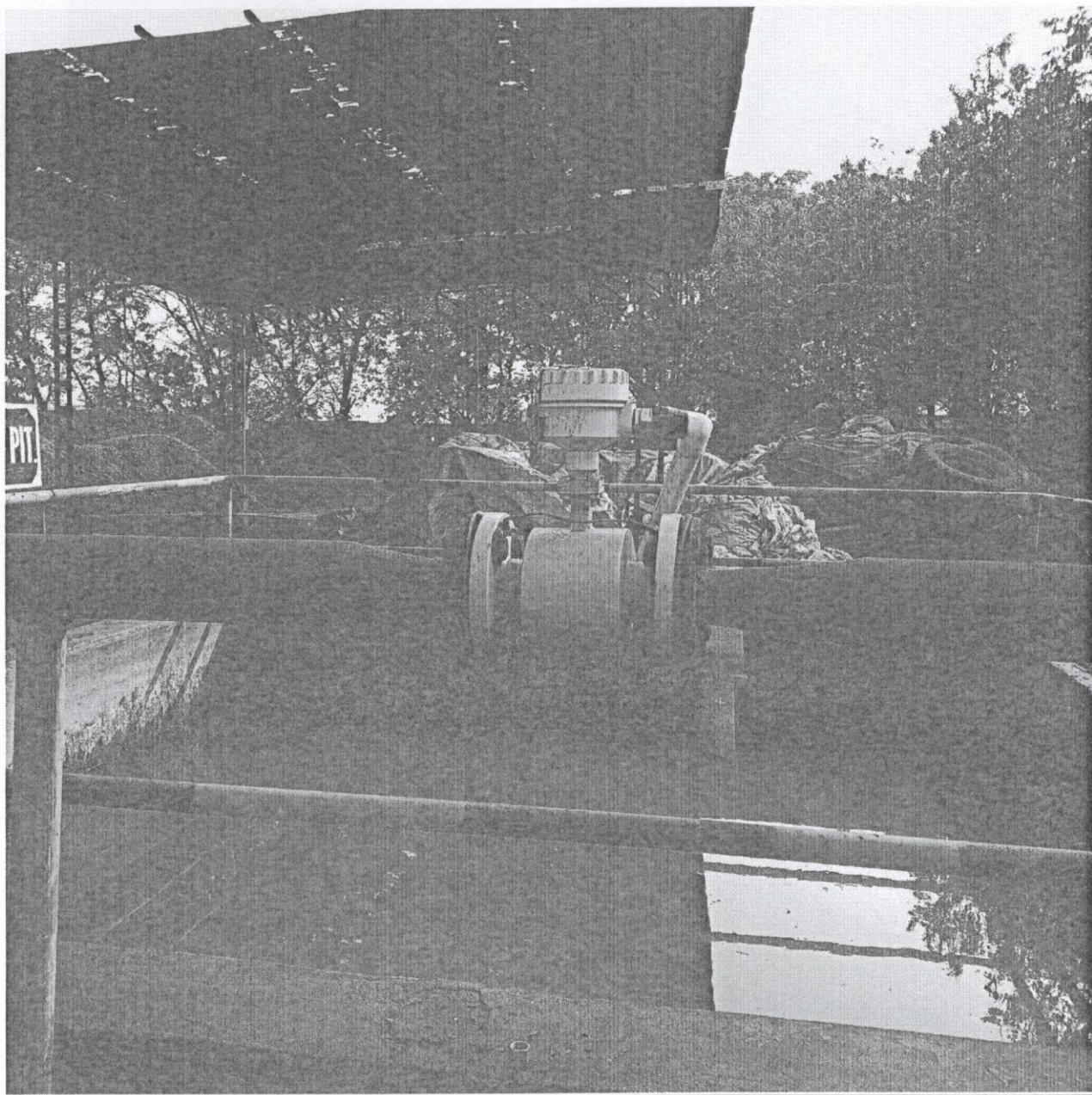


- 2



Annexure-V Flow Meter Photo

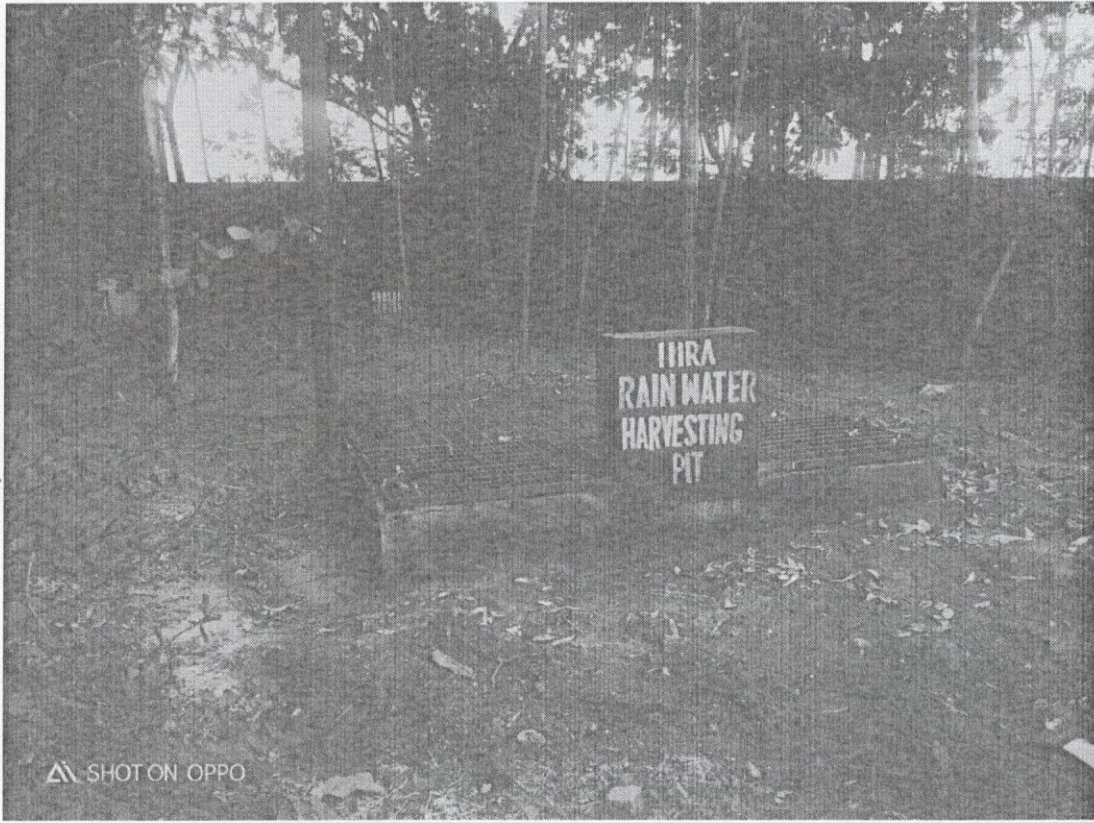




1



Annexure - VI (Rain Water Harvesting Syestem)



Annexure- VII AAQM Reports

Format No. : UES/FORM/09



HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Name & Address Of The Customer		Report No.	UES/TR/22-23/01869
To, M/s. Hira Electro Smelters Limited, Plot No.364 to 367, APIIC, Growth Center, Bobbili (V) & (M), District -Vizianagaram, Andhra Pradesh		Lab Ref No.	UES/22-23/AAQM/03781-03784
		Date of Sampling	18/07/2022 to 19/07/2022
		Date of Receipt	20/07/2022
		Date of Report	26/07/2022
		Date of Analysis	Start:20/07/2022 End: 26/07/2022
SAMPLE DETAILS			
Monitoring For	Ambient Air Quality Monitoring		
Sampling Location	1. Near Security Gate (West) 2. Near Sub Store (East) 3. Near R.M. Yard (North) 4. Near Admin Office (South)		
Customer Ref. No. & Date	7200004005/U104, DATED:16.06.2022		
Duration Of Sampling	As per CPCB norms		
Sample Collected By	Laboratory Chemist		
Sampling Procedure	As Per Method Reference		
Sample Quantity/Packing	Filter Paper (PM ₁₀): 1X1 No., Filter Paper (PM _{2.5}): 1X1 No. SO ₂ : 30mlX1 No. PVC Bottle, NO ₂ : 30mlX1 NO. PVC Bottle,		

Test Method for Ambient Air Quality Monitoring

Parameter	Method Reference
Particulate Matter size less than 10 microns (PM ₁₀)	IS:5182:(Part-23):2006 & CPCB Guidelines Vol.-I
Particulate Matter size less than 2.5 microns (PM _{2.5})	IS:5182:(Part-24):2019 & CPCB Guidelines Vol.-I
Sulphur Dioxide (SO ₂)	IS:5182:(Part-2):2001, RA 2006 & CPCB Guidelines Vol.-I
Nitrogen Dioxide (NO ₂)	IS:5182:(Part-6):2006 & CPCB Guidelines Vol.-I

TEST REPORT

Parameter	Unit	NAAQM Standard	Results			
			Near Security Gate (West)	Near Sub Store (East)	Near R.M. Yard (North)	Near Admin Office (South)
PM ₁₀	µg/m ³	100	76.4	68.8	70.8	62.6
PM _{2.5}	µg/m ³	60	36.8	28.4	32.8	26.2
SO ₂	µg/m ³	80	12.2	10.6	16.4	8.6
NO ₂	µg/m ³	80	26.4	28.8	30.2	24.1
CO	mg/m ³	4.0	0.51	0.35	0.34	0.26

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- > The use of the report for publication, arbitration or as legal dispute is forbidden.
- > Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- > This is for information as the party has asked for above test(s) only.

 26/07/22 REVIEWED BY	 For ULTIMATE ENVIROLYTICAL SOLUTIONS	 26/07/22 AUTHORIZED SIGNATORY
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-----End of the test report-----

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HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Name & Address Of The Customer		Report No.	UES/TR/22-23/02406
To,		Lab Ref No.	UES/22-23/AAQM/07039-07042
M/s. Hira Electro Smelters Limited,		Date of Sampling	18/08/2022 to 19/08/2022
Plot No.364 to 367, APIIC,		Date of Receipt	20/08/2022
Growth Center, Bobbili (V) & (M),		Date of Report	25/08/2022
District -Vizianagaram, Andhra Pradesh		Date of Analysis	Start:20/08/2022 End: 25/08/2022
SAMPLE DETAILS			
Monitoring For	Ambient Air Quality Monitoring		
Sampling Location	1. Near Security Gate (West) 2. Near Sub Store (East) 3. Near R.M. Yard (North) 4. Near Admin Office (South)		
Customer Ref. No. & Date	7200004005/U104, DATED:16.06.2022		
Duration Of Sampling	As per CPCB norms		
Sample Collected By	Laboratory Chemist		
Sampling Procedure	As Per Method Reference		
Sample Quantity/Packing	Filter Paper (PM ₁₀): 1X1 No., Filter Paper (PM _{2.5}): 1X1 No. SO ₂ : 30mlX1 No. PVC Bottle, NO ₂ : 30mlX1 NO. PVC Bottle,		

Test Method for Ambient Air Quality Monitoring	
Parameter	Method Reference
Particulate Matter size less than 10 microns (PM ₁₀)	IS:5182: (Part-23):2006 & CPCB Guidelines Vol.-I
Particulate Matter size less than 2.5 microns (PM _{2.5})	IS:5182: (Part-24):2019 & CPCB Guidelines Vol.-I
Sulphur Dioxide (SO ₂)	IS:5182: (Part-2):2001, RA 2006 & CPCB Guidelines Vol.-I
Nitrogen Dioxide (NO ₂)	IS:5182: (Part-6):2006 & CPCB Guidelines Vol.-I

TEST REPORT						
Parameter	Unit	NAAQM Standard	Results			
			Near Security Gate (West)	Near Sub Store (East)	Near R.M. Yard (North)	Near Admin Office (South)
PM ₁₀	µg/m ³	100	68.4	62.8	66.2	58.8
PM _{2.5}	µg/m ³	60	34.6	24.6	30.8	28.4
SO ₂	µg/m ³	80	10.8	16.4	12.4	10.2
NO ₂	µg/m ³	80	28.2	22.5	26.6	20.8
CO	mg/m ³	4.0	0.48	0.31	0.42	0.36

REMARKS: RESULTS ARE AS ABOVE**Terms & conditions**

- > The use of the report for publication, arbitration or as legal dispute is forbidden.
- > Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- > This is for information as the party has asked for above test(s) only.

 25/08/22 REVIEWED BY	 For ULTIMATE ENVIROLYTICAL SOLUTIONS	 25/08/22 AUTHORIZED SIGNATORY
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-----End of the test report-----

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HDD-272, Phase III - Near JP Chowk
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Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Name & Address Of The Customer To, M/s. Hira Electro Smelters Limited, Plot No.364 to 367, APIIC, Growth Center, Bobbili (V) & (M), District -Vizianagaram, Andhra Pradesh		Report No.	UES/TR/22-23/03110	
		Lab Ref No.	UES/22-23/AAQM/08316-08319	
		Date of Sampling	22/09/2022 to 23/09/2022	
		Date of Receipt	24/09/2022	
		Date of Report	28/09/2022	
		Date of Analysis	Start:24/09/2022	End: 28/09/2022
SAMPLE DETAILS				
Monitoring For	Ambient Air Quality Monitoring			
Sampling Location	1. Near Security Gate (West) 2. Near Sub Store (East) 3. Near R.M. Yard (North) 4. Near Admin Office (South)			
Customer Ref. No. & Date	7200004005/U104, DATED:16.06.2022			
Duration Of Sampling	As per CPCB norms			
Sample Collected By	Laboratory Chemist			
Sampling Procedure	As Per Method Reference			
Sample Quantity/Packing	Filter Paper (PM ₁₀): 1X1 No., Filter Paper (PM _{2.5}): 1X1 No. SO ₂ : 30mlX1 No. PVC Bottle, NO ₂ : 30mlX1 NO. PVC Bottle,			

Test Method for Ambient Air Quality Monitoring

Parameter	Method Reference
Particulate Matter size less than 10 microns (PM ₁₀)	IS:5182: (Part-23):2006 & CPCB Guidelines Vol.-I
Particulate Matter size less than 2.5 microns (PM _{2.5})	IS:5182: (Part-24):2019 & CPCB Guidelines Vol.-I
Sulphur Dioxide (SO ₂)	IS:5182: (Part-2):2001, RA 2006 & CPCB Guidelines Vol.-I
Nitrogen Dioxide (NO ₂)	IS:5182: (Part-6):2006 & CPCB Guidelines Vol.-I

TEST REPORT

Parameter	Unit	NAAQM Standard	Results			
			Near Security Gate (West)	Near Sub Store (East)	Near R.M. Yard (North)	Near Admin Office (South)
PM ₁₀	µg/m ³	100	58.6	60.2	64.8	52.6
PM _{2.5}	µg/m ³	60	32.8	28.0	26.4	22.4
SO ₂	µg/m ³	80	16.4	12.6	10.8	8.6
NO ₂	µg/m ³	80	22.5	24.8	28.0	18.8
CO	mg/m ³	4.0	0.52	0.38	0.62	0.18

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- The use of the report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- This is for information as the party has asked for above test(s) only.

 28/09/22 REVIEWED BY	 For ULTIMATE ENVIROLYTICAL SOLUTIONS	 28/09/22 AUTHORIZED SIGNATORY
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-----End of the test report-----

AN ISO : 9001:2015 / ISO: 14001:2015 / ISO 45001:2018 CERTIFIED LABORATORY





HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Name & Address Of The Customer To, M/s. Hira Electro Smelters Limited, Plot No.364 to 367, APIIC, Growth Center, Bobbili (V) & (M), District -Vizianagaram, Andhra Pradesh	Report No.	UES/TR/22-23/04367
	Lab Ref No.	UES/22-23/AAQM/010255-010258
	Date of Sampling	13/10/2022 to 14/10/2022
	Date of Receipt	15/10/2022
	Date of Report	19/10/2022
	Date of Analysis	Start: 15/10/2022 End: 19/10/2022

SAMPLE DETAILS

Monitoring For	Ambient Air Quality Monitoring
Sampling Location	1. Near Security Gate (West) 2. Near Sub Store (East) 3. Near R.M. Yard (North) 4. Near Admin Office (South)
Customer Ref. No. & Date	7200004005/U104, DATED:16.06.2022
Duration Of Sampling	As per CPCB norms
Sample Collected By	Laboratory Chemist
Sampling Procedure	As Per Method Reference
Sample Quantity/Packing	Filter Paper (PM ₁₀): 1X1 No., Filter Paper (PM _{2.5}): 1X1 No. SO ₂ : 30mlX1 No. PVC Bottle, NO ₂ : 30mlX1 NO. PVC Bottle,

Test Method for Ambient Air Quality Monitoring

Parameter	Method Reference
Particulate Matter size less than 10 microns (PM ₁₀)	IS:5182:(Part-23):2006 & CPCB Guidelines Vol.-I
Particulate Matter size less than 2.5 microns (PM _{2.5})	IS:5182:(Part-24):2019 & CPCB Guidelines Vol.-I
Sulphur Dioxide (SO ₂)	IS:5182:(Part-2):2001, RA 2006 & CPCB Guidelines Vol.-I
Nitrogen Dioxide (NO ₂)	IS:5182:(Part-6):2006 & CPCB Guidelines Vol.-I

TEST REPORT

Parameter	Unit	NAAQM Standard	Results			
			Near Security Gate (West)	Near Sub Store (East)	Near R.M. Yard (North)	Near Admin Office (South)
PM ₁₀	µg/m ³	100	60.6	62.8	64.9	54.2
PM _{2.5}	µg/m ³	60	33.0	30.2	27.2	22.8
SO ₂	µg/m ³	80	16.8	13.6	12.4	10.2
NO ₂	µg/m ³	80	23.0	24.9	28.6	20.6
CO	mg/m ³	4.0	0.58	0.44	0.66	0.21

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- > The use of the report for publication, arbitration or as legal dispute is forbidden.
- > Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- > This is for information as the party has asked for above test(s) only.

 19/10/2022 REVIEWED BY	 For ULTIMATE ENVIROLYTICAL SOLUTIONS 19/10/2022 AUTHORIZED SIGNATORY
--------------------------------------	--

-----End of the test report-----

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HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

Name & Address Of The Customer		Report No.	UES/TR/22-23/04395	
To, M/s. Hira Electro Smelters Limited, Plot No.364 to 367, APIIC, Growth Center, Bobbili (V) & (M), District -Vizianagaram, Andhra Pradesh		Lab Ref No.	UES/22-23/AAQM/010285-010288	
		Date of Sampling	15/11/2022 to 16/11/2022	
		Date of Receipt	17/11/2022	
		Date of Report	21/11/2022	
		Date of Analysis	Start:17/11/2022	End:21/11/2022
SAMPLE DETAILS				
Monitoring For	Ambient Air Quality Monitoring			
Sampling Location	1. Near Security Gate (West) 2. Near Sub Store (East) 3. Near R.M. Yard (North) 4. Near Admin Office (South)			
Customer Ref. No. & Date	7200004005/U104, DATED:16.06.2022			
Duration Of Sampling	As per CPCB norms			
Sample Collected By	Laboratory Chemist			
Sampling Procedure	As Per Method Reference			
Sample Quantity/Packing	Filter Paper (PM ₁₀): 1X1 No., Filter Paper (PM _{2.5}): 1X1 No. SO ₂ : 30mlX1 No. PVC Bottle, NO ₂ : 30mlX1 No. PVC Bottle,			

Test Method for Ambient Air Quality Monitoring

Parameter	Method Reference
Particulate Matter size less than 10 microns (PM ₁₀)	IS:5182:(Part-23):2006 & CPCB Guidelines Vol.-I
Particulate Matter size less than 2.5 microns (PM _{2.5})	IS:5182:(Part-24):2019 & CPCB Guidelines Vol.-I
Sulphur Dioxide (SO ₂)	IS:5182:(Part-2):2001, RA 2006 & CPCB Guidelines Vol.-I
Nitrogen Dioxide (NO ₂)	IS:5182:(Part-6):2006 & CPCB Guidelines Vol.-I

TEST REPORT

Parameter	Unit	NAAQM Standard	Results			
			Near Security Gate (West)	Near Sub Store (East)	Near R.M. Yard (North)	Near Admin Office (South)
PM ₁₀	µg/m ³	100	61.4	63.3	65.2	57.4
PM _{2.5}	µg/m ³	60	32.3	28.5	33.1	24.4
SO ₂	µg/m ³	80	17.2	14.4	13.8	11.6
NO ₂	µg/m ³	80	22.2	24.6	26.9	22.8
CO	mg/m ³	4.0	0.51	0.48	0.72	0.26

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- > The use of the report for publication, arbitration or as legal dispute is forbidden.
- > Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- > This is for information as the party has asked for above test(s) only.

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-----End of the test report-----

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Name & Address Of The Customer	Report No.	UES/TR/22-23/05414
To,	Lab Ref No.	UES/22-23/AAQM/012134-012137
M/s. Hira Electro Smelters Limited,	Date of Sampling	13/12/2022 to 14/12/2022
Plot No.364 to 367, APIIC,	Date of Receipt	15/12/2022
Growth Center, Bobbili (V) & (M),	Date of Report	19/12/2022
District -Vizianagaram, Andhra Pradesh	Date of Analysis	Start: 15/12/2022 End:19/12/2022

SAMPLE DETAILS

Monitoring For	Ambient Air Quality Monitoring
Sampling Location	1. Near Security Gate (West) 2. Near Sub Store (East) 3. Near R.M. Yard (North) 4. Near Admin Office (South)
Customer Ref. No. & Date	7200004005/U104, DATED:16.06.2022
Duration Of Sampling	As per CPCB norms
Sample Collected By	Laboratory Chemist
Sampling Procedure	As Per Method Reference
Sample Quantity/Packing	Filter Paper (PM ₁₀): 1X1 No., Filter Paper (PM _{2.5}): 1X1 No. SO ₂ : 30mlX1 No. PVC Bottle, NO ₂ : 30mlX1 NO. PVC Bottle,

Test Method for Ambient Air Quality Monitoring

Parameter	Method Reference
Particulate Matter size less than 10 microns (PM ₁₀)	IS:5182: (Part-23):2006 &CPCB Guidelines Vol.-I
Particulate Matter size less than 2.5 microns (PM _{2.5})	IS:5182: (Part-24):2019 &CPCB Guidelines Vol.-I
Sulphur Dioxide (SO ₂)	IS:5182: (Part-2):2001, RA 2006 &CPCB Guidelines Vol.-I
Nitrogen Dioxide (NO ₂)	IS:5182: (Part-6):2006 & CPCB Guidelines Vol.-I

TEST REPORT

Parameter	Unit	NAAQM Standard	Results			
			Near Security Gate (West)	Near Sub Store (East)	Near R.M. Yard (North)	Near Admin Office (South)
PM ₁₀	µg/m ³	100	61.4	60.7	63.8	58.2
PM _{2.5}	µg/m ³	60	32.6	31.3	29.6	27.4
SO ₂	µg/m ³	80	16.2	14.8	14.2	11.7
NO ₂	µg/m ³	80	22.6	23.8	24.6	21.6
CO	mg/m ³	4.0	0.60	0.42	0.61	0.18

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

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- This is for information as the party has asked for above test(s) only.

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-----End of the test report-----

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Annexure – VIII DG Set Emission monitoring Report

Formel No. : UES/FORM09



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Name of Address of the Customer		REPORT NO.	UES/TR/21-22/06475
To, M/s. Hira Electro Smelters Limited, Plot No.364 to 367, APIIC, Growth Center, Bobbili (V) & (M), District - Vizianagaram, Andhra Pradesh		LAB REF NO.	UES/21 22/ST/013749
		DATE OF SAMPLING	13/12/2022
		DATE OF RECEIPT	15/12/2022
		DATE OF REPORT	19/12/2022
		DATE OF ANALYSIS	Start: 15/12/2022 End: 19/12/2022
SAMPLE DETAILS			
Monitoring For	DG Stack Emission Monitoring		
Customer Ref. No.	S.O. No. 7200003188/U104, Dated:01.04.2021		
Sampling Location	DG Set-125 KVA		
Sample Collected By	Laboratory Chemist		
Sampling Procedure	As Per Method Reference.		
Sample	Thimble: 1 X 1 No., SO ₂ : 20 ml X 1 No. PVC Bottle, NO _x : 25 ml X 1 No. PVC Bottle, Rubber Bladder: 1 X 1 No.,		
Quantity/Packing	Hg: 500ml X 1 No. Glass Bottle & 500ml X 3 No. PVC Bottle.		

TEST REPORT					
Stack details					
Stack Identity	DG SET				
Stack Attached to	DG-SET-125 KVA				
Material of construction	MS Plate				
Stack height above ground level	4.0 meter				
Stack diameter	0.3 meter				
Stack shape at top	Circular				
Type of fuel	LSD				
Parameter	Unit	Result	Limit	Method Reference	
Flue gas Temperature	°C	147	-	IS 11255 (Part 3):2008	
Flue gas velocity	m/s	9.3	-	IS 11255 (Part 3):2008	
Total gas quantity	Nm ³ /h	1678.3	-	IS 11255 (Part 3):2008	
Total Particulate Matter (PM) (Corrected at 15 % O ₂)	mg/Nm ³	36.2	75	IS 11255 (Part 1):1985, RA 2003	
Sulphur Dioxide (SO ₂)	mg/Nm ³	48.8	-	IS 11255 (Part 2):1985, RA 2003	
Oxides of Nitrogen (NO _x)(Corrected at 15 % O ₂) Dry Basis	ppm	150	360	IS 11255 (Part 2):2005, RA 2012	
Non-Methane hydrocarbon (NMHC) (Corrected at 15 % O ₂)	mg/Nm ³	26	100	APHA METHOD 109, P-259	
Carbon Monoxide (CO)	mg/Nm ³	114	150	APHA METHOD 130, P 359	

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- The use of the report for publication, arbitration or any legal dispute is forbidden
- Test sample will be retained for 07 days after test report unless otherwise agreed with customer.
- This is for information as the party has asked for analysis only

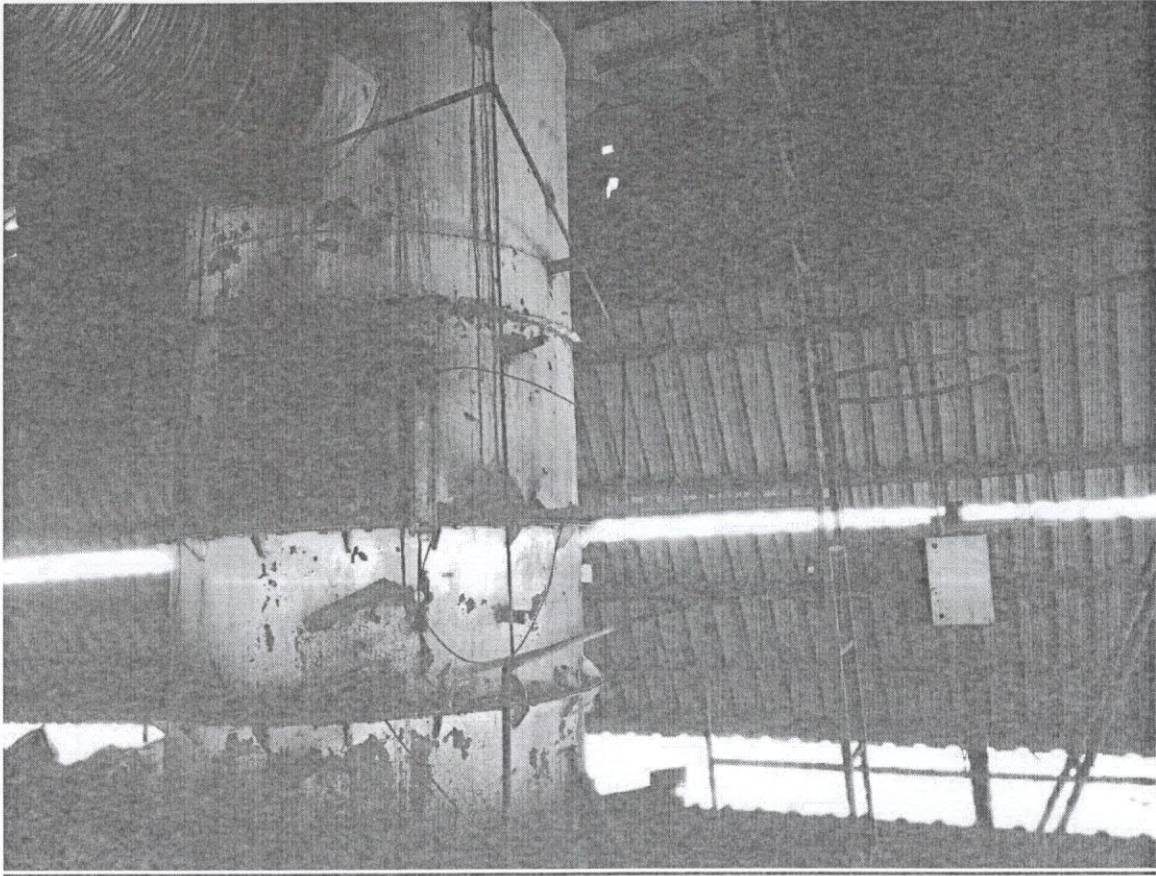
 13/12/22 REVIEWED BY		For ULTIMATE ENVIRONMENTAL SOLUTIONS  AUTHORIZED SIGNATORY
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End of the test report

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Annexure- IX Sampling Port Photos



1



Annexure – X Furnaces Photograph

ANNEXURE-X

HIRA ELECTRO SMELTERS LTD, APIIC GROWTH CENTER, BOBBILI

MOVABLE CLOSED DOORS AT FURNACE-A & FURNACE-B



Annexure – XI (Fugitive Emission Report)

Format No. : UES/FORM/09



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To, M/s. Hira Electro Smelters Limited, Plot No.364 to 367, APIIC, Growth Center, Bobbili (V) & (M), District -Vizianagaram, Andhra Pradesh		REPORT NO	UES/TR/22-23/01873	
		LAB REF NO	UES/22-23/FE/03788	
		DATE OF SAMPLING	18/07/2022	
		DATE OF RECEIPT	20/07/2022	
		DATE OF REPORT	26/07/2022	
		DATE OF ANALYSIS	Start:20/07/2022	END:26/07/2022
SAMPLE DETAILS				
MONITORING FOR	FUGITIVE EMISSION			
CUSTOMER REF. NO. & DATE	7200004005/U104, DATED:16.06.2022			
SAMPLING LOCATION	NEAR FURNACE AREA			
DURATION OF SAMPLING	8 HOURS			
SAMPLE COLLECTED BY	LABORATORY CHEMIST			
SAMPLING PROCEDURE	AS PER METHOD REFERENCE			
SAMPLE QUANTITY/PACKING	GMF FILTER PAPER (8 X 10 INCH): 1X1 NO.			

TEST REPORT					
SR. NO.	PARAMETER	UNIT	RESULT	MOEF & CC Notification	METHOD REFERENCE
			NEAR FURNACE AREA		
1	Total Suspended Particulate Matter (as SPM)	µg/m ³	1462	2000	EPA Method IO-2.1

Note: All results are on the basis of 8 hour sampling.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- The report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15days after issue of test report unless otherwise agreed with customer.
- This is for information as the party has asked for above test(s) only

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-----End of the test report-----

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Name & Address Of The Customer		REPORT NO		UES/TR/22-23/02410	
To, M/s. Hira Electro Smelters Limited, Plot No.364 to 367, APIIC, Growth Center, Bobbili (V) & (M), District -Vizianagaram, Andhra Pradesh		LAB REF NO		UES/22-23/FE/07047	
		DATE OF SAMPLING		18/08/2022	
		DATE OF RECEIPT		20/08/2022	
		DATE OF REPORT		25/08/2022	
		DATE OF ANALYSIS		Start:20/08/2022	END:25/08/2022
SAMPLE DETAILS					
MONITORING FOR		FUGITIVE EMISSION			
CUSTOMER REF. NO. & DATE		7200004005/U104, DATED:16.06.2022			
SAMPLING LOCATION		NEAR FURNACE AREA			
DURATION OF SAMPLING		8 HOURS			
SAMPLE COLLECTED BY		LABORATORY CHEMIST			
SAMPLING PROCEDURE		AS PER METHOD REFERENCE			
SAMPLE QUANTITY/PACKING		GMF FILTER PAPER (8 X 10 INCH): 1X1 NO.			

TEST REPORT					
SR. NO.	PARAMETER	UNIT	RESULT	MOEF & CC Notification	METHOD REFERENCE
			NEAR FURNACE AREA		
1	Total Suspended Particulate Matter (as SPM)	µg/m ³	1284	2000	EPA Method IO-2.1

Note: All results are on the basis of 8 hour sampling.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- The report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15days after issue of test report unless otherwise agreed with customer.
- This is for information as the party has asked for above test(s) only

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-----End of the test report-----

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Name & Address Of The Customer To, M/s. Hira Electro Smelters Limited, Plot No.364 to 367, APIIC, Growth Center, Bobbili (V) & (M), District -Vizianagaram, Andhra Pradesh		REPORT NO	UES/TR/22-23/03114	
		LAB REF NO	UES/22-23/FE/08324	
		DATE OF SAMPLING	22/09/2022	
		DATE OF RECEIPT	24/09/2022	
		DATE OF REPORT	28/09/2022	
		DATE OF ANALYSIS	Start:24/09/2022	END:29/09/2022
SAMPLE DETAILS				
MONITORING FOR		FUGITIVE EMISSION		
CUSTOMER REF. NO. & DATE		7200004005/U104, DATED:16.06.2022		
SAMPLING LOCATION		NEAR FURNACE AREA		
DURATION OF SAMPLING		8 HOURS		
SAMPLE COLLECTED BY		LABORATORY CHEMIST		
SAMPLING PROCEDURE		AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING		GMF FILTER PAPER (8 X 10 INCH): 1X1 NO.		

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	MOEF & CC Notification	METHOD REFERENCE
			NEAR FURNACE AREA		
1	Total Suspended Particulate Matter (as SPM)	µg/m ³	1024	2000	EPA Method IO-2.1

Note: All results are on the basis of 8 hour sampling.

REMARKS: RESULTS ARE AS ABOVE

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Name & Address Of The Customer To, M/s. Hira Electro Smelters Limited, Plot No.364 to 367, APIIC, Growth Center, Bobbili (V) & (M), District -Vizianagaram, Andhra Pradesh		REPORT NO	UES/TR/22-23/04371	
		LAB REF NO	UES/22-23/FE/010263	
		DATE OF SAMPLING	13/10/2022	
		DATE OF RECEIPT	15/10/2022	
		DATE OF REPORT	19/10/2022	
		DATE OF ANALYSIS	Start: 15/10/2022	End: 19/10/2022
SAMPLE DETAILS				
MONITORING FOR		FUGITIVE EMISSION		
CUSTOMER REF. NO. & DATE		7200004005/U104, DATED:16.06.2022		
SAMPLING LOCATION		NEAR FURNACE AREA		
DURATION OF SAMPLING		8 HOURS		
SAMPLE COLLECTED BY		LABORATORY CHEMIST		
SAMPLING PROCEDURE		AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING		GMF FILTER PAPER (8 X 10 INCH): 1X1 NO.		

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	MOEF & CC Notification	METHOD REFERENCE
			NEAR FURNACE AREA		
1	Total Suspended Particulate Matter (as SPM)	µg/m ³	1030	2000	EPA Method IO-2.1

Note: All results are on the basis of 8 hour sampling.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

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- This is for information as the party has asked for above test(s) only

 13/10/2022 REVIEWED BY	 For ULTIMATE ENVIROLYTICAL SOLUTIONS	 13/10/2022 AUTHORIZED SIGNATORY
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-----End of the test report-----

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Name & Address Of The Customer		REPORT NO	UES/TR/22-23/04397	
To, M/s. Hira Electro Smelters Limited, Plot No.364 to 367, APIIC, Growth Center, Bobbili (V) & (M), District -Vizianagaram, Andhra Pradesh		LAB REF NO	UES/22-23/FE/010291	
		DATE OF SAMPLING	15/11/2022 to 16/11/2022	
		DATE OF RECEIPT	17/11/2022	
		DATE OF REPORT	21/11/2022	
		DATE OF ANALYSIS	Start:17/11/2022	End:21/11/2022
SAMPLE DETAILS				
MONITORING FOR	FUGITIVE EMISSION			
CUSTOMER REF. NO. & DATE	7200004005/U104, DATED:16.06.2022			
SAMPLING LOCATION	NEAR FURNACE AREA			
DURATION OF SAMPLING	8 HOURS			
SAMPLE COLLECTED BY	LABORATORY CHEMIST			
SAMPLING PROCEDURE	AS PER METHOD REFERENCE			
SAMPLE QUANTITY/PACKING	GMF FILTER PAPER (8 X 10 INCH): 1X1 NO.			

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	MOEF & CC Notification	METHOD REFERENCE
			NEAR FURNACE AREA		
1	Total Suspended Particulate Matter (as SPM)	µg/m ³	1120	2000	EPA Method IO-2.1

Note: All results are on the basis of 8 hour sampling.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

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 21/11/2022 REVIEWED BY	 For ULTIMATE ENVIROLYTICAL SOLUTIONS	 AUTHORIZED SIGNATORY
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End of the test report

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Name & Address Of The Customer		REPORT NO	UES/TR/22-23/05418
To, M/s. Hira Electro Smelters Limited, Plot No.364 to 367, APIIC, Growth Center, Bobbili (V) & (M), District -Vizianagaram, Andhra Pradesh		LAB REF NO	UES/22-23/FE/012142
		DATE OF SAMPLING	13/12/2022
		DATE OF RECEIPT	15/12/2022
		DATE OF REPORT	19/12/2022
		DATE OF ANALYSIS	Start: 15/12/2022 End: 19/12/2022
SAMPLE DETAILS			
MONITORING FOR	FUGITIVEEMISSION		
CUSTOMER REF. NO. & DATE	7200004005/U104, DATED:16.06.2022		
SAMPLING LOCATION	NEARFURNACE AREA		
DURATION OF SAMPLING	8 HOURS		
SAMPLE COLLECTED BY	LABORATORY CHEMIST		
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	GMF FILTER PAPER (8 X 10 INCH): 1X1 NO.		

TEST REPORT					
SR. NO.	PARAMETER	UNIT	RESULT NEAR FURNACE AREA	MOEF & CC Notification	METHOD REFERENCE
1	Total Suspended Particulate Matter (as SPM)	µg/m ³	1042	2000	EPA Method IO-2.1

Note: All results are on the basis of 8 hour sampling.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- The report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15days after issue of test report unless otherwise agreed with customer.
- This is for information as the party has asked for above test(s) only

 13/12/2022 REVIEWED BY		For ULTIMATE ENVIROLYTICAL SOLUTIONS AUTHORIZED SIGNATORY
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End of the test report

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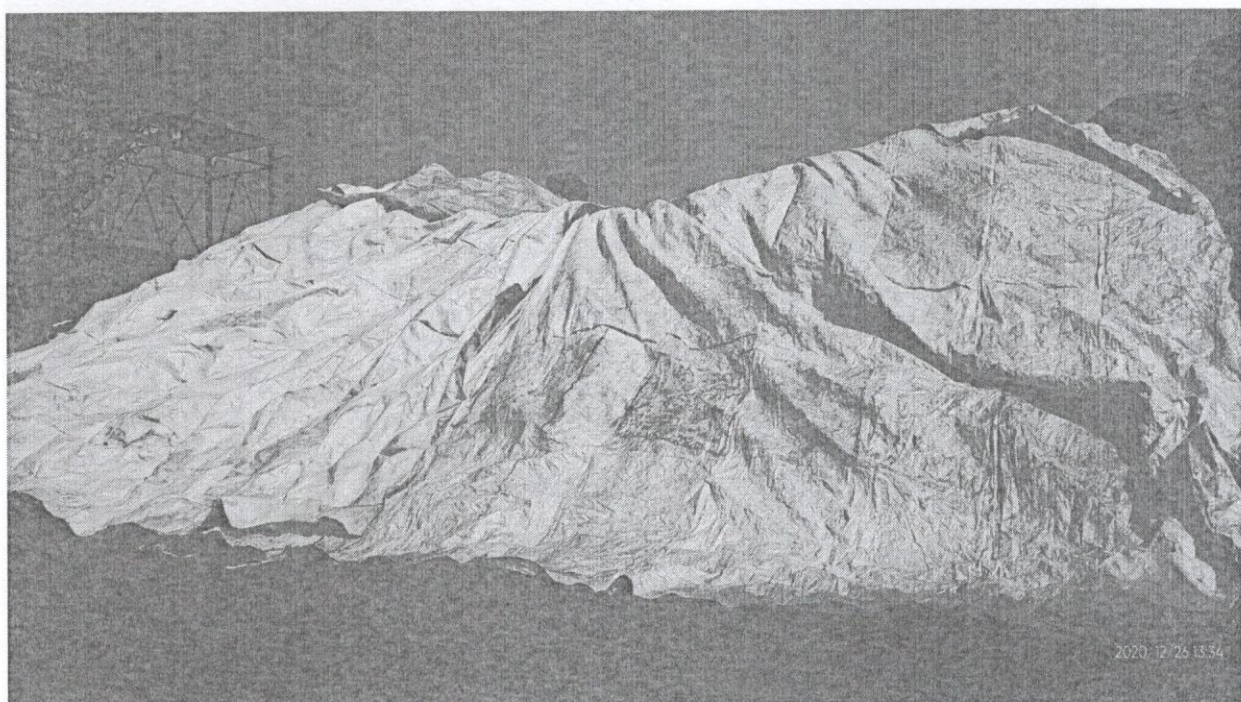
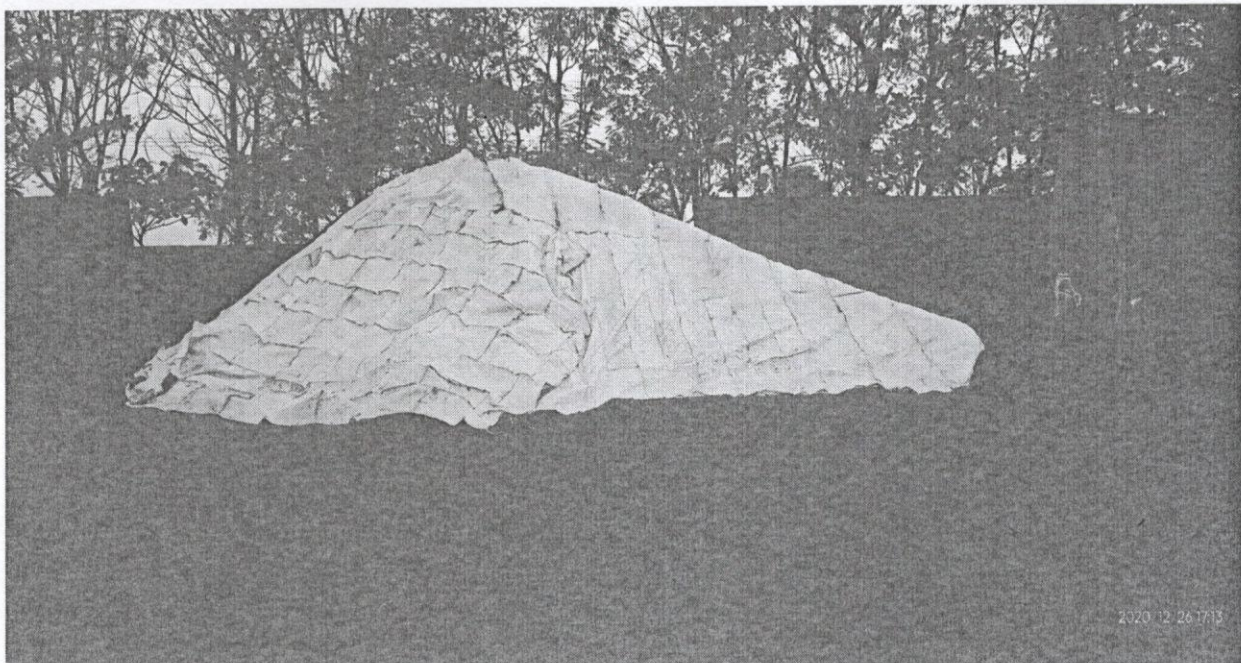
Annexure XII (Photograph of Energy Meter)



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Annexure XIII (Photograph of Dust Containment)



Annexure XIV (TCLP Reports)

Format No. : UES/FORM/09



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16.5 Name & Address Of The Customer		REPORT NO.	UES/TR/22-23/01875
TO, M/s. Hira Electro Smelters Limited, Plot No.364 to 367, APIIC, Growth Center, Bobbili (V) & (M), District -Vizianagaram, Andhra Pradesh		LAB REF NO.	UES/22-23/MISC/03792
		DATE OF SAMPLING	18/07/2022 to 19/07/2022
		DATE OF RECEIPT	20/07/2022
		DATE OF REPORT	26/07/2022
		DATE OF ANALYSIS	Start:20/07/2022 Start:26/07/2022
SAMPLE DETAILS			
CUSTOMER SAMPLE ID	FERRO MANGANESE (SLAG)	CUSTOMER REF. NO. & DATE	7200004005/U104, DATED:16.06.2022
SAMPLE TYPE	SLAG	SAMPLE CONDITION AT RECEIPT	OK
SAMPLE COLLECTED BY	CUSTOMER	QUANTITY RECEIVED	1 KG.

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMIT SCHEDULE II [See rule 3 (1) (17) (ii)]	RESULT
1	Iron as Fe	mg/l	USEPA METHOD-1311	-	0.62
2	Manganese as Mn	mg/l	USEPA METHOD-1311	10.0	1.11
3	Zinc as Zn	mg/l	USEPA METHOD-1311	250	0.95
4	Lead as Pb	mg/l	USEPA METHOD-1311	5.0	0.11
5	Cadmium as Cd	mg/l	USEPA METHOD-1311	1.0	N.D.
6	Copper as Cu	mg/l	USEPA METHOD-1311	25.0	0.08
7	Selenium as Se	mg/l	USEPA METHOD-1311	1.0	N.D.
8	Tin as Sn	mg/l	USEPA METHOD-1311	-	N.D.
9	Chromium as Cr	mg/l	USEPA METHOD-1311	5.0	2.11
10	Arsenic as As	mg/l	USEPA METHOD-1311	5.0	N.D.
11	Mercury as Hg	mg/l	USEPA METHOD-1311	0.2	N.D.
12	Barium as Ba	mg/l	USEPA METHOD-1311	100.0	N.D.
13	Aluminium as Al	mg/l	USEPA METHOD-1311	-	N.D.

Note: N.D. - Not Detected

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- > The above analysis report refers to the particular sample received at our end and the use of the report for publication, arbitration or as legal dispute is forbidden.
- > Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.

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-----End of the test report-----

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16.5 Name & Address Of The Customer		REPORT NO.	UES/TR/22-23/02412
TO, M/s. Hira Electro Smelters Limited, Plot No.364 to 367, APIIC, Growth Center, Bobbili (V) & (M), District -Vizianagaram, Andhra Pradesh		LAB REF NO.	UES/22-23/MISC/07051
		DATE OF SAMPLING	18/08/2022
		DATE OF RECEIPT	20/08/2022
		DATE OF REPORT	25/08/2022
		DATE OF ANALYSIS	Start:20/08/2022 Start:25/08/2022
SAMPLE DETAILS			
CUSTOMER SAMPLE ID	FERRO MANGANESE (SLAG)	CUSTOMER REF. NO. & DATE	7200004005/U104, DATED:16.06.2022
SAMPLE TYPE	SLAG	SAMPLE CONDITION AT RECEIPT	OK
SAMPLE COLLECTED BY	CUSTOMER	QUANTITY RECEIVED	1 KG.

TEST REPORT					
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMIT SCHEDULE II (See rule 3 (1) (17) (ii))	RESULT
1	Iron as Fe	mg/l	USEPA METHOD-1311	-	0.28
2	Manganese as Mn	mg/l	USEPA METHOD-1311	10.0	0.86
3	Zinc as Zn	mg/l	USEPA METHOD-1311	250	0.62
4	Lead as Pb	mg/l	USEPA METHOD-1311	5.0	0.14
5	Cadmium as Cd	mg/l	USEPA METHOD-1311	1.0	N.D.
6	Copper as Cu	mg/l	USEPA METHOD-1311	25.0	0.06
7	Selenium as Se	mg/l	USEPA METHOD-1311	1.0	N.D.
8	Tin as Sn	mg/l	USEPA METHOD-1311	-	N.D.
9	Chromium as Cr	mg/l	USEPA METHOD-1311	5.0	2.42
10	Arsenic as As	mg/l	USEPA METHOD-1311	5.0	N.D.
11	Mercury as Hg	mg/l	USEPA METHOD-1311	0.2	N.D.
12	Barium as Ba	mg/l	USEPA METHOD-1311	100.0	N.D.
13	Aluminium as Al	mg/l	USEPA METHOD-1311	-	N.D.

Note: N.D. - Not Detected

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- > The above analysis report refers to the particular sample received at our end and the use of the report for publication, arbitration or as legal dispute is forbidden.
- > Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.

 25/08/22 REVIEWED BY		For ULTIMATE ENVIROLYTICAL SOLUTIONS 25/08/22 AUTHORIZED SIGNATORY
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-----End of the test report-----

AN ISO : 9001:2015 / ISO: 14001:2015 / ISO 45001:2018 CERTIFIED LABORATORY





HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Format No. : UES/FORM/09

To, Name & Address Of The Customer

TO,
M/s. Hira Electro Smelters Limited,
Plot No.364 to 367, APIIC,
Growth Center, Bobbili (V) & (M),
District -Vizianagaram, Andhra Pradesh

REPORT NO.	UES/TR/22-23/03116
LAB REF NO.	UES/22-23/MISC/08328
DATE OF SAMPLING	22/09/2022
DATE OF RECEIPT	24/09/2022
DATE OF REPORT	28/09/2022
DATE OF ANALYSIS	Start:24/09/2022 Start:29/09/2022

SAMPLE DETAILS

CUSTOMER SAMPLE ID	FERRO MANGANESE (SLAG)	CUSTOMER REF. NO. & DATE	7200004005/U104, DATED:16.06.2022
SAMPLE TYPE	SLAG	SAMPLE CONDITION AT RECEIPT	OK
SAMPLE COLLECTED BY	CUSTOMER	QUANTITY RECEIVED	1 KG.

TEST REPORT

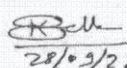

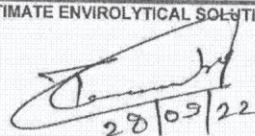
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMIT SCHEDULE II (See rule 3 (1) (17) (ii))	RESULT
1	Iron as Fe	mg/l	USEPA METHOD-1311	-	0.16
2	Manganese as Mn	mg/l	USEPA METHOD-1311	10.0	0.52
3	Zinc as Zn	mg/l	USEPA METHOD-1311	250	1.62
4	Lead as Pb	mg/l	USEPA METHOD-1311	5.0	0.11
5	Cadmium as Cd	mg/l	USEPA METHOD-1311	1.0	N.D.
6	Copper as Cu	mg/l	USEPA METHOD-1311	25.0	0.18
7	Selenium as Se	mg/l	USEPA METHOD-1311	1.0	N.D.
8	Tin as Sn	mg/l	USEPA METHOD-1311	-	N.D.
9	Chromium as Cr	mg/l	USEPA METHOD-1311	5.0	1.86
10	Arsenic as As	mg/l	USEPA METHOD-1311	5.0	N.D.
11	Mercury as Hg	mg/l	USEPA METHOD-1311	0.2	N.D.
12	Barium as Ba	mg/l	USEPA METHOD-1311	100.0	N.D.
13	Aluminium as Al	mg/l	USEPA METHOD-1311	-	N.D.

Note: N.D. - Not Detected

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- > The above analysis report refers to the particular sample received at our end and the use of the report for publication, arbitration or as legal dispute is forbidden.
- > Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.

 28/09/22 REVIEWED BY		 28/09/22 AUTHORIZED SIGNATORY For ULTIMATE ENVIROLYTICAL SOLUTIONS
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-----End of the test report-----

AN ISO : 9001:2015 / ISO: 14001:2015 / ISO 45001:2018 CERTIFIED LABORATORY





HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

TO, M/s. Hira Electro Smelters Limited, Plot No.364 to 367, APIIC, Growth Center, Bobbili (V) & (M), District -Vizianagaram, Andhra Pradesh		REPORT NO.	UES/TR/22-23/04373
		LAB REF NO.	UES/22-23/MISC/010267
		DATE OF SAMPLING	13/10/2022 to 14/10/2022
		DATE OF RECEIPT	15/10/2022
		DATE OF REPORT	19/10/2022
		DATE OF ANALYSIS	Start: 15/10/2022 End: 19/10/2022
SAMPLE DETAILS			
CUSTOMER SAMPLE ID	FERRO MANGANESE (SLAG)	CUSTOMER REF. NO. & DATE	7200004005/U104, DATED:16.06.2022
SAMPLE TYPE	SLAG	SAMPLE CONDITION AT RECEIPT	OK
SAMPLE COLLECTED BY	CUSTOMER	QUANTITY RECEIVED	1 KG.

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMIT SCHEDULE II [See rule 3 (1) (17) (ii)]	RESULT
1	Iron as Fe	mg/l	USEPA METHOD-1311	-	0.17
2	Manganese as Mn	mg/l	USEPA METHOD-1311	10.0	0.54
3	Zinc as Zn	mg/l	USEPA METHOD-1311	250	1.65
4	Lead as Pb	mg/l	USEPA METHOD-1311	5.0	0.10
5	Cadmium as Cd	mg/l	USEPA METHOD-1311	1.0	N.D.
6	Copper as Cu	mg/l	USEPA METHOD-1311	25.0	0.14
7	Selenium as Se	mg/l	USEPA METHOD-1311	1.0	N.D.
8	Tin as Sn	mg/l	USEPA METHOD-1311	-	N.D.
9	Chromium as Cr	mg/l	USEPA METHOD-1311	5.0	1.88
10	Arsenic as As	mg/l	USEPA METHOD-1311	5.0	N.D.
11	Mercury as Hg	mg/l	USEPA METHOD-1311	0.2	N.D.
12	Barium as Ba	mg/l	USEPA METHOD-1311	100.0	N.D.
13	Aluminium as Al	mg/l	USEPA METHOD-1311	-	N.D.

Note: N.D. - Not Detected

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- > The above analysis report refers to the particular sample received at our end and the use of the report for publication, arbitration or as legal dispute is forbidden.
- > Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.

 13/10/2022 REVIEWED BY	 For ULTIMATE ENVIROLYTICAL SOLUTIONS	 13/10/2022 AUTHORIZED SIGNATORY
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-----End of the test report-----

AN ISO : 9001:2015 / ISO: 14001:2015 / ISO 45001:2018 CERTIFIED LABORATORY





HDD-272, Phase III - Near JP Chowk
Ring Road No. 2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Form No. UES/FORM-01

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

TO, M/s. Hira Electro Smelters Limited, Plot No.364 to 367, APIIC, Growth Center, Bobbili (V) & (M), District - Vizianagaram, Andhra Pradesh		REPORT NO. UES/TR/22-23/04399
		LAB REF NO. UES/22-23/MISC/030295
		DATE OF SAMPLING 25/11/2022
		DATE OF RECEIPT 17/11/2022
		DATE OF REPORT 21/11/2022
		DATE OF ANALYSIS Start:17/11/2022 End:21/11/2022
SAMPLE DETAILS		
CUSTOMER SAMPLE ID	LIQUID MANGANESE(SLAG)	CUSTOMER REF. NO. & DATE 7200004005/U104, DATED:16.06.2022
SAMPLE TYPE	SLAG	SAMPLE CONDITION AT RECEIPT OK
SAMPLE COLLECTED BY	CUSTOMER	QUANTITY RECEIVED 1 KG.

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMITSCHEDULE EN 12000-2 (17) EN 12000-2 (17)	RESULT
1	Iron as Fe	mg/L	USEPA METHOD-1311	-	0.16
2	Manganese as Mn	mg/L	USEPA METHOD-1311	10.0	0.51
3	Zinc as Zn	mg/L	USEPA METHOD-1311	250	1.55
4	Lead as Pb	mg/L	USEPA METHOD-1311	5.0	0.09
5	Cadmium as Cd	mg/L	USEPA METHOD-1311	1.0	N.D.
6	Copper as Cu	mg/L	USEPA METHOD-1311	25.0	0.11
7	Selenium as Se	mg/L	USEPA METHOD-1311	1.0	N.D.
8	Tin as Sn	mg/L	USEPA METHOD-1311	-	N.D.
9	Chromium as Cr	mg/L	USEPA METHOD-1311	5.0	1.56
10	Arsenic as As	mg/L	USEPA METHOD-1311	5.0	N.D.
11	Mercury as Hg	mg/L	USEPA METHOD-1311	0.2	N.D.
12	Barium as Ba	mg/L	USEPA METHOD-1311	100.0	N.D.
13	Aluminium as Al	mg/L	USEPA METHOD-1311	-	N.D.

Note: N.D. - Not Detected

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- The above analysis report refers to the particular sample received at our end and the use of the report for publication, arbitration or as legal evidence is forbidden.
- Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.

 21/11/2022 REVIEWED BY	 For ULTIMATE ENVIRONMENTAL SOLUTIONS AUTHORIZED SIGNATORY
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End of the test report

AN ISO : 9001:2015 / ISO : 14001:2015 / ISO 45001:2018 CERTIFIED LABORATORY





HDD-272, Phase III - Near JP Chowk
Ring Road No. 2, Kabir Nagar, Raipur (C.G.) - 492099
Ph. 0771-4027777 | Email: ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

15. Name & Address of The Customer		REPORT NO.	UES/TR/22-23/05420
TO, M/s. Hira Electro Smelters Limited, Plot No.364 to 367, APIIC, Growth Center, Bobbili (V) & (M), District -Vizianagaram, Andhra Pradesh		LAB REF NO.	UES/22-23/MISC/012146
		DATE OF SAMPLING	13/12/2022 to 14/12/2022
		DATE OF RECEIPT	15/12/2022
		DATE OF REPORT	19/12/2022
		DATE OF ANALYSIS	Start: 15/12/2022 End: 19/12/2022
SAMPLE DETAILS			
CUSTOMER SAMPLE ID	FERRO MANGANESE(SLAG)	CUSTOMER REF. NO. & DATE	720004065/U104, DATED 16.06.2022
SAMPLE TYPE	SLAG	SAMPLE CONDITION AT RECEIPT	OK
SAMPLE COLLECTED BY	CUSTOMER	QUANTITY RECEIVED	1 KG.

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMITSCHEDULE II (Annex 2) (17)	RESULT
1	Iron as Fe	mg/l	USEPA METHOD-1311	-	0.18
2	Manganese as Mn	mg/l	USEPA METHOD-1311	10.0	0.52
3	Zinc as Zn	mg/l	USEPA METHOD-1311	250	1.58
4	Lead as Pb	mg/l	USEPA METHOD-1311	5.0	0.10
5	Cadmium as Cd	mg/l	USEPA METHOD-1311	1.0	N.D.
6	Copper as Cu	mg/l	USEPA METHOD-1311	25.0	0.13
7	Selenium as Se	mg/l	USEPA METHOD-1311	1.0	N.D.
8	Tin as Sn	mg/l	USEPA METHOD-1311	-	N.D.
9	Chromium as Cr	mg/l	USEPA METHOD-1311	5.0	1.84
10	Arsenic as As	mg/l	USEPA METHOD-1311	5.0	N.D.
11	Mercury as Hg	mg/l	USEPA METHOD-1311	0.2	N.D.
12	Barium as Ba	mg/l	USEPA METHOD-1311	100.0	N.D.
13	Aluminium as Al	mg/l	USEPA METHOD-1311	-	N.D.

Note: N.D. - Not Detected

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- > The above analysis report refers to the particular sample received at our end and the use of the report for publication, arbitration or as legal dispute is forbidden.
- > Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.

 13/12/2022 REVIEWED BY	 AUTHORIZED SIGNATORY
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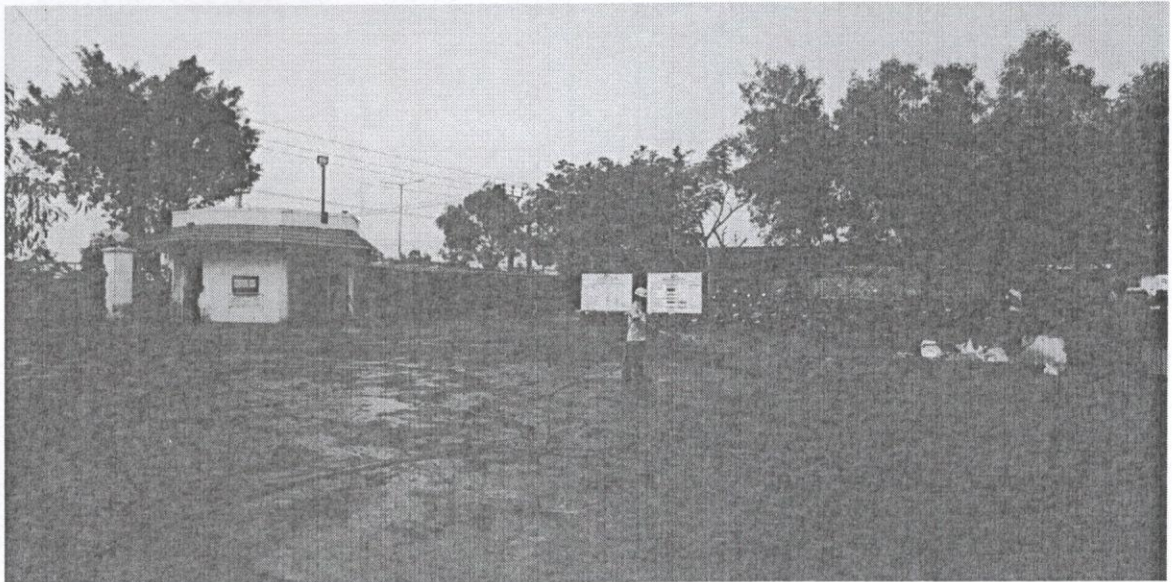
End of the test report

AN ISO : 9001:2015 / ISO: 14001:2015 / ISO 45001:2018 CERTIFIED LABORATORY



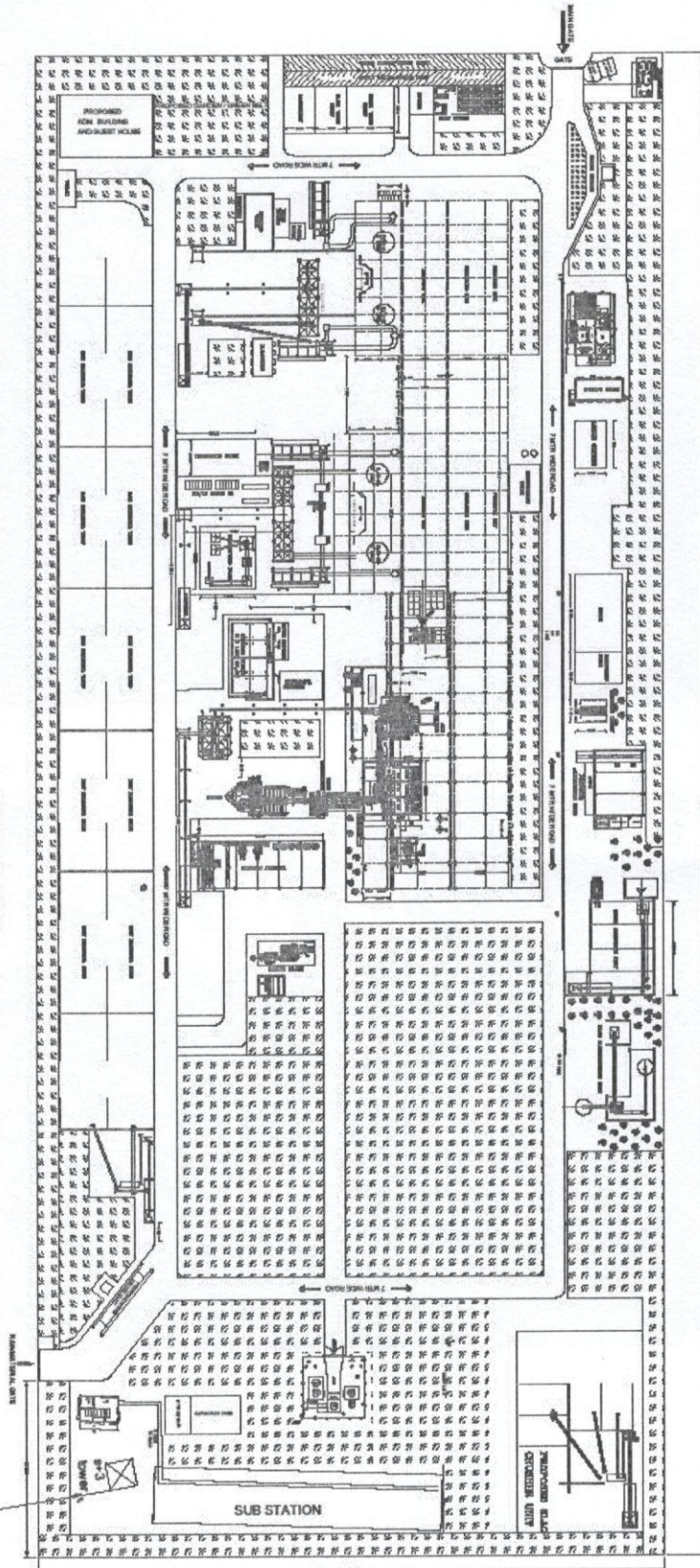
Annexure - XV (Photograph of Concrete Storage of Raw Material)

Photographs of the Concrete Road & RCC Bins



PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

PLANT LAYOUT



PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

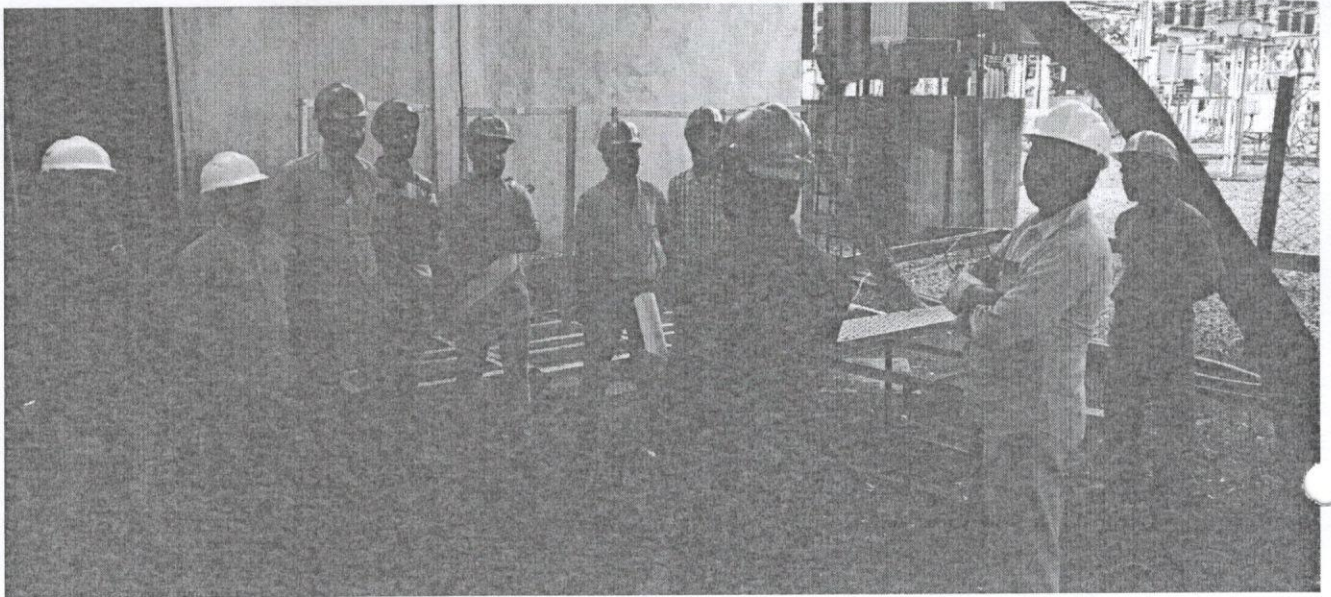
HIRA		HIRA ELECTRO SMELTERS LTD.	
GENERAL MANAGER, HIRA Hira Electro Smelters Ltd. Plot No. 394, 395, 396 & 397, APJG Growth Center, Bhubaneswar - 751 005, Dist. - Vizianagaram (A.P.), INDIA.		TITLE:- PROPOSED PLANT LAYOUT	
DRN.	D. SINGH	14-12-21	
CHD.	V. K. TIWARI	14-12-21	
Appd.	V. K. TIWARI	14-12-21	
Scale:	NTS	Dwg. No. - HIRL/PLANTLAYOUT/6/70/001	REV. 02



HIRA ELECTRO SMELTERS LIMITED				
Plantation Details area wise in the Plant premises				
Sl.No	Plantation Area	Area(In Mtrs)	Total Covered Area(Sq.Mtrs)	No.of Plants
1	East	100*9	900	212
2	North	230*8	1840	607
3	North New	180*4	720	152
4	West	100*7	700	215
5	South	240*7	1680	388
6	Weighbridge	9*7	63	20
7	Pump House side	10*5	50	15
8	Chamber wall side	35*10	350	100
9	Bore well side	10*10	100	100
10	Slag Crusher Opposite	50*40	2000	200
11	South Pond Side	25*25	625	200
12	Office Area	20*15	300	100
13	Lab	15*10	150	
14	Chamber Area	40*5	200	
15	CC roads, New Store, Lab Office, Cooling Tower Area	60*5	300	126
16	132KV LT Room East side	50*10	500	200
17	132KV LT Room west side	65*5	325	100
18	132KV LT Room north side vacant area & sorrounding	110*40	4400	559
19	Briquetting area	70*60	4200	500
20	Between 132 KV and Slag cruher	90*100	9000	2000
21	Cycle Stand area	100*8	800	200
22	Sub store area	50*7	350	100
23	Diesel bunk area	50*8	400	100
24	Raw materal Chambers area	120*10	1200	300
25	Office back side area	80*10	800	200
	Total		31953(7.82Acres)	6694



Annexure XVII (Photograph for Safety Measures from accident)



2



Annexure XVIII (Calibration Certificates)

TC.No.ARP/ A6/427/2022-23

FORM NO: 38

(Prescribed under Rule 55 & 55-A)

(REPORT OF EXAMINATION OF HOIST OR LIFT OR LIFTING MACHINERY / TACKLE)

Name of the occupier (or Factory) Situation address (of factory)	: M/s HIRA ELECTRO SMELTERS LTD APIIC, BOBBILI (A.P)
1 (a) Type of hoist or lift or Lifting Machinery / Tackle and identification number or description	: Chain Sling - 1No
(b) Date of construction or reconstruction (if ascertainable)	:
2 Design and construction (Are all parts of the hoist or lift of good mechanical construction, sound material	: Good
3 Distinguishing number or mark , if any and description sufficient to identify the lifting machine, chain, rope or the lifting tackle	: Chain Sling Length: 20Mtrs 1. Id.No: HESL/CS/01
4 Maintenance: Are the following parts of the hoist or lift properly maintained and in good working order? If not, state what defects have been found.	:
a) Enclosure of hoist way or lift way	: -Nil-
b) Landing gates and cage gate(s)	: -Nil-
c) Inter-locks on the landing gate(s) and cage gate(s)	: -Nil-
d) Other gages, fastenings	: -Nil-
e) Cage and platform and fittings, guiders, buffers interior of the hoist way or lift way.	: -Nil-
f) Over running devices.	: -Nil-
g) Suspension ropes or chain and their attachments.	: -Nil-
h) Safety gear i.e arrangements for prevention fall of platform or cage brakes.	: -Nil-
i) Brakes.	: -Nil-
j) Worm or spur gearing.	: -Nil-
k) Other electrical equipment.	: -Nil-
5 What parts (If any) were inaccessible	: -Nil-
6 a) Repairs, renewals or alternations (if any) required and the period within which they should be executed	: -NIL- -NIL-
7 Maximum safe working load subject to repairs, renewals or alternations (if any) specified in Column No:(6)	: Chain Sling
8 Others	: The Chain Sling is in good condition, hence it is fit for use

NOTE:Recommended Periodical Cleaning, Lubrication and Painting proper greasing to be carried out



A RAVI PRASAD B.E (Mech)

COMPETENT PERSON UNDER A.P.FACTORIES RULES

No.L. Dis LAE05-12021(68)/39/2022-B SEC-DOF

Flat NO.6,Mukund Suvasa Apartments,3rd Lane,Dwarakanagar,

Visakhapatnam-530016 (A.P)

Ph:9703223333 E-Mail: sltrans98@yahoo.in

I / we certify that on 22-08-2022, I / we thoroughly
examined this hoist / Lift / Lifting Machine / Tackle
and the above is a correct report of the result
This certificate is valid up to : 21-08-2023

Declared as Competent Person by the Director of Factories, Government of Andhra Pradesh



Annexure XIX (Latest Copy of Form 3 & Form 4)

HIRA
HIRA ELECTRO SMELTERS

Ref: HESL/LTR/2022-23/022

Date: 28.05.2022

To

The Environmental Engineer,
A. P. Pollution Control Board,
Regional Office, D. No. 8-30-19,
Sai Nagar, Thotapalem,
Vizianagaram - 535 002

Sub: Submission of E-Waste annual return (Form-3) for the financial year 2021-22

Ref: E-Waste (Management) Rules, 2016 and amendments.

Respected Sir,

Please find enclosed herewith E-Waste Annual Return in Form 3 as prescribed under the E-Waste (Management) Rules, 2016 for the Financial Year 2021-22 (April 1st 2021 to March 31st 2022) in respect of Hira Electro Smelters Limited, (Formerly M/s RVR Smelters Pvt. Ltd.), Plot No. 364-367, APIIC Growth Center, Bobbili, Vizianagaram (A.P.).

This is for your kind information and record, please.

Kindly acknowledge the receipt of the same.

Thanking You,

Yours faithfully,
For, **HIRA ELECTRO SMELTERS LIMITED**
(Formerly M/s RVR Smelters Pvt. Ltd.)

Authorized Signatory

Encl: A/a

CC to: The Member Secretary, Andhra Pradesh Pollu
14D/2, Near Sunrise Hospital, Pushpa Hotel Centre,
Vijayawada - 520 010.

Hira Electro Smelt
(Formerly known as RVR Smelt)
CIN : U27102AP2007PL

Registered Office : Plot No. 364-367, APIIC Growth Center, Bobb

P : 08944 247009, F : 08944 247008

Head Office : Hira Power & Steels Ltd., Uria Industrial Co

P : 0771 4082500, 4082600, F : 0771 4082

www.hpslindia.com, www.hiragro

EN5302516401 Date: 28/05/2022
SP BOBBI 14D/2 (535550)
Counter Post: 28/05/2022, 10:46
To: THE MEMBER S.A.P. POLLUTION CO
FOR: 535002, Vizianagaram R.O.
From: HIRA ELECTRO SMELTERS LTD
Plot: 364-367
Pin: 535009

Attn: Mr. S. S. Srinivasulu
Check on www.indiapost.gov
Kd: 1600216/0000 Date: 28/05/2022



EN5302516401 Date: 28/05/2022
SP BOBBI 14D/2 (535550)
Counter Post: 28/05/2022, 10:46
To: THE MEMBER S.A.P. POLLUTION CO
FOR: 535002, Vizianagaram R.O.
From: HIRA ELECTRO SMELTERS LTD
Plot: 364-367
Pin: 535009

Attn: Mr. S. S. Srinivasulu
Check on www.indiapost.gov



076

HIRA
HIRA ELECTRO SMELTERS

Ref: HESL/LTR/2022-23/007

Date: 08.05.2022

To,

The Environmental Engineer,
A. P. Pollution Control Board,
Regional Office,
D. No. 8-30-19, Sai Nagar, Thotapalem,
Vizianagaram, A. P. - 535 002

Sub: Submission of Hazardous Waste Annual Return (Form-4) for the Financial Year 2021-2022 - Reg.

Ref: Consent & Authorization Order No. APPCB/VSP/VZH/156/HO/CFO/2021 Dated: 23.08.2021 & subsequent amendment made on dated: 16.09.2021.

Respected Sir,

Please find enclosed herewith Hazardous Waste Annual Return in Form-4 as prescribed under the Hazardous and other Waste (Management and Transboundary Movement) Rules, 2016 for the Financial Year 2021- 22 (April 1st 2021 to March 31st 2022) in respect of Hira Electro Smelters Limited, (Formerly M/s RVR Smelters Pvt Ltd), Plot No. 364 367, APIIC growth Center, Bobbili, Vizianagaram - 535 558.

This is for your kind information and record, please.

Kindly acknowledge the receipt of the same.

Thanking You,

Yours faithfully,

For, **HIRA ELECTRO SMELTERS LIMITED**
(Formerly M/s RVR Smelters Pvt Ltd)

Authorized Signatory

Encl: Hazardous Waste Annual Return (Form-4) for the Financial Year 2021 - 22

Copy to: Member Secretary, AP Pollution Control Board

Hira Electro Smelters
Formerly M/s RVR Smelters Pvt Ltd
CIN : U27109AP2004

Registered Office : Plot No. 364-367, APIIC Growth Center, Bobbili
P : 08944 247009, F : 08944 2470

Head Office : Hira Power & Steels Ltd., Urla Industrial Area
P : 0771 4082500, 4082600, F : 0771 4082501
www.hpslindia.com, www.hira.com

