

Ref: RFAPL/ENV/21-22/19

Date: 18-05-2022

To,

Government of India  
Ministry of Environment,  
Forest and Climate Change  
RO (SEZ), MoEF&CC, Chennai

Sub: - Submission of half yearly compliance report for Environment Clearance:-

Sir,

Our unit M/s Rhodium Ferro Alloys Pvt Ltd Located at Plot No: 16&18, Gollapuram Industrial Area, Hindupur Mandal Ananthpur Districe Hindupur A.P and is involved in the manufacturing of Ferro Alloys.

In Continuation with the Environment Clearance cited we are hear with enclosing our Compliance report (Half yearly compliance) for the period Oct-21 to Mar -22.

Thanking You,

For Rhodium Ferro Alloys Pvt Ltd



Authorized Signatory

# **HALF YEARLY ENVIRONMENTAL CLEARANCE COMPLIANCE REPORT**

For

Proposed Ferro Alloy plant of 9MVA SAF to produce Ferro silicon 8000TPA  
“EC Obtained vide letter No.J-11011/640/2009-IA (I) dt 30.12.2010”

By

**M/s. Rhodium Ferro Alloys Pvt Ltd**

At

Plot no: 16 & 18, Gollapuram Industrial Area, Hindupur Mandal, Ananthpur  
District Hindupur, A.P

Period

October - March 2022

To

**Ministry of Environment, Forest & climate change**

No.31, Cathedral Garden Road,  
HEPC Building, 2nd Floor,  
Nungambakam, Chennai – 34

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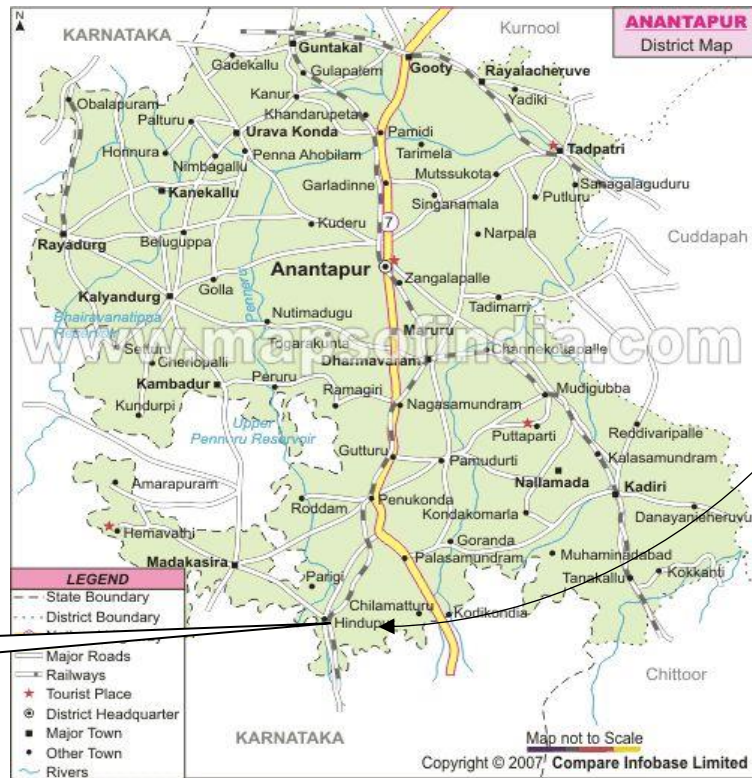
Annexure 1	Copies of Ambient Air Quality Data – 6 months
Annexure 2	Copies Ambient Noise Quality Data – 6 Months
Annexure 3	Copies of Waste water analysis – 6 months
Annexure 4	Copies of Stack Monitoring report – 6 Months

## **1. PROJECT DETAILS**

1	NAME OF THE COMPANY	<b>RHODIUM FERRO ALLOY PVT. LTD.</b>										
2	LOCATION	Plot no 16 & 18, Sy no. 148, 151, 152, 166, Gollapuram Industrial Park, Hindupur Mandal, Hindupur – 515211										
3	DATE OF INCORPORATION	29 / 05 / 2009										
4	CONSTITUTION	Private Limited Company										
5	AREA OF PLANT	Total land is 8.093 Ha (20 Acre)										
6	EXISTING PROJECTS	8000 TPA Ferro Silicon										
7	PROJECT SITE CO-ORDINANTS	<table border="1"> <thead> <tr> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>13<sup>o</sup>46'32.6"N</td> <td>77<sup>o</sup>28'11.8"E</td> </tr> <tr> <td>13<sup>o</sup>46'32.6"N</td> <td>77<sup>o</sup>33'46.5"E</td> </tr> <tr> <td>13<sup>o</sup>41'7.4"N</td> <td>77<sup>o</sup>28'11.8"E</td> </tr> <tr> <td>13<sup>o</sup>41'7.4"N</td> <td>77<sup>o</sup>33'46.2"E</td> </tr> </tbody> </table>	Latitude	Longitude	13 <sup>o</sup> 46'32.6"N	77 <sup>o</sup> 28'11.8"E	13 <sup>o</sup> 46'32.6"N	77 <sup>o</sup> 33'46.5"E	13 <sup>o</sup> 41'7.4"N	77 <sup>o</sup> 28'11.8"E	13 <sup>o</sup> 41'7.4"N	77 <sup>o</sup> 33'46.2"E
Latitude	Longitude											
13 <sup>o</sup> 46'32.6"N	77 <sup>o</sup> 28'11.8"E											
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13 <sup>o</sup> 41'7.4"N	77 <sup>o</sup> 28'11.8"E											
13 <sup>o</sup> 41'7.4"N	77 <sup>o</sup> 33'46.2"E											
8	INSTALLED CAPACITY	Existing – 1 x 9Mva										
9	RAW MATERIALS	Quartz, Coal, M.S Scrap, Mn slag, dolomite, coke and others										
10	POWER SANCTIONED	9900 KVA										
11	WATER REQUIREMENT	EXISTING: 34 KLD										
12	TOTAL MAN POWER REQUIREMENT	Existing: 120 (both Technical and Non-Technical)										
13	DG.SET CAPACITY	625 KVA										

## 2. LOCATION

### GENERAL LOCATION MAP SHOWING PLANT SITE



Rhodium Ferro alloys Pvt. Ltd.

### 3. SIX MONTH ENVIRONMENTAL CLEARANCE COMPLIANCE STATEMENT

#### A. SPECIFIC CONDITION

S. No	Conditions	Status of Compliance
1	No charcoal shall be used as fuel. Pet coke shall be used as fuel instead of charcoal from unknown sources	The Industry uses electricity as fuel for Submerged Electric Arc Furnace. As such, neither Pet coke nor charcoal is used as fuel
2.	The fume extraction system with bag filters, ID fan and stack of adequate height to submerged arc furnace shall be provided to control emissions below 50mg/Nm <sup>3</sup>	The Industry has been provided with Forced draft cooler and Pulse Jet bag filters, ID fan and stack of adequate height to submerged arc furnace and the emission is being controlled below 50mg/Nm <sup>3</sup> . Latest analysis report enclosed
3	The National Ambient Air Quality Standards issued by the Ministry vide G.S,R.No. 826(E) dated 16th November, 2009 shall be followed	The Industry monitors Ambient air quality at 3 locations on monthly basis. Enclosed Photo copy of Latest Test Certificate Attested
4	Secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines / Code of Practice issued by the CPCB shall be followed.	The industry is taken adequate measures to avoid Secondary fugitive emissions from all the sources and controlled by spraying water and monitoring of fugitive emissions is also carried out and the levels are within the permissible limits as per the Ministry.
5	Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir should be enhanced to meet the maximum water requirement. Only balance water requirement should be met from other sources.	The industry has provided rain water harvesting. If needed the capacity of the reservoir will be enhanced to meet the maximum water requirement. The balance required water is been met from APIIC.  The plant is following zero discharge concept.

S. No	Conditions	Status of Compliance
6	Regular monitoring of influent and effluent surface, sub-surface and ground water shall be ensured and treated waste water shall meet the norms prescribed by the State Pollution Control Board or described under the E(P) Act whichever are more stringent. Leachate study for the effluent generated and analysis should also be regularly carried out and report submitted to the Ministry's Regional Office at Bangalore, SPCB and CPCB.	The Industry does not have effluent wastage. Cooling water is completely recycled back after settling the solids. Currently domestic waste water is disposed to septic tank followed by soak pits. Now the industry is proposing to establish STP to treat and re-use water for green belt development purpose. The cooling water and water supplied by APIIC are monitored regularly. As per the reports the levels are within the limit.
7	The total water requirement shall not exceed 34 m <sup>3</sup> /day. 'Zero' effluent discharge shall be strictly followed and no wastewater should be discharged outside the premises.	The Industry does not exceed the water requirement 34m <sup>3</sup> /day and Cooling water is completely recycled back after settling the solids. Currently domestic waste water is disposed to septic tank followed by soak pits
8	All the ferro alloy slag shall be used for land filling inside the plant or used as building material only after passing through Toxic Chemical Leachability Potential (TCLP) test. Otherwise, hazardous substances shall be recovered from the slag and output waste and be disposed in secured landfill as per CPCB guidelines	The Industry has explored the possibility of re-using the slag to foundry industries; as such the slags are sold completely
9	No Ferro Chrome shall be manufactured without prior approval from the Ministry of Environment & Forests	The Industry has not kept any proposal for manufacturing Ferro chrome in the factory premises

S. No	Conditions	Status of Compliance
10	Risk and Disaster Management Plan along with the mitigation measures should be prepared and a copy submitted to the Ministry's Regional Office at Bangalore, SPCB and CPCB within 3 months of issue of environment clearance letter.	The industry has taken necessary safety precautions. No separate Risk and Disaster Management Plan along with the mitigation measures is being prepared.
11	All the commitments made to the public during the Public Hearing / Public Consultation meeting held on 6 <sup>th</sup> May,2010 should be satisfactorily implemented and a separate budget for implementing the same should be allocated and information submitted to the Ministry's Regional Office at Bangalore.	The commitments formed during public consultation meeting held intend to be satisfactorily implemented and the proposal of financial has been allocated for implementing the same and had been submitted to MRO at Bangalore.
12	As proposed, green belt should be developed in at least 33% of the project area. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.	The industry has maintained green belt by planting greeneries along the boundary, within the factory of the industry and also placed trees in vacant areas. So far more than 33% of the total area is brought under green belt.
13	At least 5% of the total cost of the project should be earmarked towards the corporate social responsibility and item-wise details along with time bound action plan (need based) should be prepared and submitted to the Ministry's Regional Office at Bangalore. Implementation of such program shall be ensured accordingly in a time bound manner.	<p>The industry has utilised the assigned amount for CSR activities mentioned as follows:</p> <ol style="list-style-type: none"> <li>1) Providing of school books and bags on annual basis.</li> <li>2) Replacement of roof sheets for rural institution.</li> <li>3) Plants / Saplings are provided to rural areas.</li> <li>4) Yearly Relief funds is being provided</li> </ol> <p>Further, we agree to prepare the CSR plan implemented and submit the expenditure details accordingly to RO at Bangalore in future.</p>



S.No	Conditions	Status of Compliance
14	The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	The Industry has provided necessary infrastructure and facilities such as fuel for cooking, toilets, safe drinking water, Esic for health care. Etc is being provided to the labourers during construction period. As the labourers are local no housing structures made herewith.

### B. GENERAL CONDITIONS

S. No	Conditions	Status of Compliance
1	The project authorities must strictly adhere to the stipulations made by the Andhra Pradesh Pollution Control Board (APPCB) and the State Government.	The industry has been implemented all the stipulations made by the Andhra Pradesh Pollution Control Board (APPCB) and the State Government. The CFO is valid upto 31.07.2022
2	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests'	The industry has not carried out any further expansion or modification of the plant without the approval of this Ministry as informed. Now we have appeared for an expansion of our plant from 8000Tpa to 44000Tpa in the existing factory premises.
3	At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO <sub>2</sub> and NO <sub>x</sub> are anticipated in consultation with the APPCB including one ambient air quality monitoring station in the downwind direction. Data on Ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Bangalore and the APPCB / CPCB once in six months.	The Industry is monthly monitoring of Ambient Air Quality at four stations and being carried out for the parameter of SPM, SO <sub>2</sub> and NO <sub>x</sub> . Data on Ambient air quality and stack emission monitoring is been carried out by recognized lab and submitted to APPCB on Monthly Basis.

S. No	Conditions	Status of Compliance
4	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31 <sup>st</sup> December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	No waste water is being generated from the plant operation. Cooling water is recycled and reused. Sewage is sent to septic tank and soak pits.
5	The overall noise levels in and around the plant area shall be kept well within the standards(85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz.75 dBA (daytime) and 70 dBA (night time).	The Industry is monitoring noise levels through external agency and the provided report levels are within the limit as prescribed under EPA Rules, 1989 viz.75 dBA (daytime) and 70 dBA (night time). The reports are being submitted to APPCB regularly on monthly basis
6	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	The Industry is being carrying out OHS for workers on regular basis as per the factories act
7	The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table	The industry has developed rain water harvesting structures to harvest the rain water and utilized in the lean season besides recharging the ground water.
8	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.	The industry is undertaking social-economic activities in the surrounding rural areas like educational programmes, drinking water supply, and health care etc

S. No	Conditions	Status of Compliance
9	As proposed, 0.5 crores and 33.8 lakhs shall be earmarked towards the capital cost and recurring cost/annum for environmental protection measures and judiciously utilized to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose	The industry has allocated as per the stipulations and agreed to utilize for said purpose.
10	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad / Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent	The Industry has sent a copy of the EC to concerned local Panchayat. The clearance letter is been uploaded on the Industry website
11	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their Website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF, the respective Zonal Office of CPCB and the APPCB. The criteria pollutant levels namely; SPM, RSPM, SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	The Industry has uploaded the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their Website. Further the monitoring data is being displayed at the main gate of the company and periodically submitted the report to APPCB zonal Office

S. No	Conditions	Status of Compliance
12	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF at Bangalore, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bangalore I CPCB / APPCB shall monitor the stipulated conditions.	The industry has monitored data and uploaded on company's website. However the compliance reports shall be submitted to the Regional Office accordingly.
13	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail	The industry has uploaded latest Form V on company's website. However the same has been submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986
14	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the Clearance letter are available with the APPCB and may also be seen at Website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional office at Bangalore	The industry has given advertisements in local newspaper. Enadu Telugu Daily – Teleugu version & The Hindu – English version, on 05.04.2010 Photo copies of the same enclosed for your reference

15	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Complied
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ISO 9001:2015  
ISO 45001:2018

# GLOBAL ENVIRO LABS

Recognised By Ministry of Environment Forest & Climate Change (MoEF & CC) GOI & NABL

# 2-2-1075/14/A/1, 1<sup>st</sup> Floor, Tilaknagar 'X' Road, Bagh Amberpet,  
Hyderabad - 500 013. Ph : 27407969

E-mail : globalelabs@gmail.com, globalelabs@rediffmail.com

Accredited by :



REF.NO:GEL/RFAPL/273/AAQ/2021-031

Date: 06-11-2021

## AMBIENT AIR QUALITY DATA

Name of the Industry : **M/s. RHODIUM FERRO ALLOYS PVT. LTD.**  
Address : Sy. No. 148, 151, Gollapuram (V),  
Hindupur (M), Anantapur (Dist). – 515 211.

Sl. No.	Location	Near Main Gate	Near Furnace	Near Raw Material Area	Limits	Method Used
1.	Date of Sampling	: 31-10-2021	31-10-2021	31-10-2021	---	---
2.	Total time of Monitoring	: 24 Hrs.	24 Hrs.	24 Hrs.	---	---
3.	Particulate Matter Concentration PM <sub>10</sub> (µg/m <sup>3</sup> )	: 51	67	62	<b>100</b>	IS: 5182 Part 23-2006 (RA-2017)
4.	Sulphur Dioxide Concentration (µg/m <sup>3</sup> )	: 08	21	14	<b>80</b>	IS: 5182 Part 2-2001 (RA-2017)
5.	Oxides of Nitrogen Concentration (µg/m <sup>3</sup> )	: 12	15	10	<b>80</b>	IS: 5182 Part 6-2006 (RA-2017)
6.	Particulate Matter Concentration PM <sub>2.5</sub> (µg/m <sup>3</sup> )	: 30	34	31	<b>60</b>	IS 5182 P-24 : 2019

Note: All the values are within the limits prescribed by NAAQS.

All the parameters monitored and analyzed as per the MoEF notification Vide G.S.R. No.826 (E) Dt: 18/11/2009

Fine Particulate Sampler Model APM 550 (Sl. No. 449-DTH-2010), Next Calibration due on 23/07/2022

Fine Particulate Sampler Model APM 550 (Sl. No. 639-DTA-2011), Next Calibration due on 23/07/2022

Fine Particulate Sampler Model FPS 9000 (Sl. No. 101043), Next Calibration due on 08/04/2022

Respirable Dust Sampler Model RDS 9000 (Sl. No. 060617), Next Calibration due on 08/04/2022

Respirable Dust Sampler Model RDS 9000 (Sl. No. 061254), Next Calibration due on 08/04/2022

Respirable Dust Sampler Model RDS 9000 (Sl. No. 070703), Next Calibration due on 08/04/2022

for **GLOBAL ENVIRO LABS**

**AUTHORISED SIGNATORY**



ISO 9001:2015  
ISO 45001:2018

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E-mail : globalelabs@gmail.com, globalelabs@rediffmail.com

Accredited by :



REF.NO: GEL/RFAPL/273/STM/2021-032

Date: 06-11-2021

## STACK MONITORING DATA

Name of the Industry : **M/s. RHODIUM FERRO ALLOYS PVT. LTD.**  
Address : Sy. No. 148, 151, Gollapuram (V),  
Hindupur (M), Anantapur (Dist). – 515 211.

Sample Particulars : Stack attached to 9 MVA Submerged Electric Arc Furnace  
Date of sampling : 31-10-2021  
Time of monitoring : 02:10 p.m.

1. Duct Dimensions (m) : 2.22  
2. Area (sq m) : 3.868  
3. Flue gas temperature (°C) : 140  
4. Exit velocity of flue gases (m/sec) : 5.61  
5. Flow rate (cum/hr) : 78,118

EMISSION DATA		Limits	Method Used
6. Suspended particulate matter Concentration (mg/N m <sup>3</sup> )	: 41	<b>50</b>	IS : 11255 (Part-I), 1985 (RA-2019)
7. Sulphur dioxide Concentration (mg/N m <sup>3</sup> )	: 67	---	IS : 11255 (Part-II), 1985 (RA-2019)
8. Oxides of nitrogen Concentration (mg/N m <sup>3</sup> )	: 40	---	IS: 11255 (P-7), 2005 (RA-2017)

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:APM 620-602 / 963 DTG 09, Next Calibration on: 08-04-2022

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Accredited by :



REF.NO: GEL/RFAPL/273/STM/2021-033

Date: 06-11-2021

## STACK MONITORING DATA

Name of the Industry : **M/s. RHODIUM FERRO ALLOYS PVT. LTD.**  
Address : Sy. No. 148, 151, Gollapuram (V),  
Hindupur (M), Anantapur (Dist). – 515 211.

Sample Particulars : Stack attached to the 125 KVA D.G. Set  
Date of sampling : 31-10-2021  
Time of monitoring : 03:30 p.m.

1. Duct Dimensions (m) : 0.10  
2. Area (sq m) : 0.0078  
3. Flue gas temperature (°C) : 113  
4. Exit velocity of flue gases (m/sec) : 13.79  
5. Flow rate (cum/hr) : 387

EMISSION DATA		Limits	Method Used
6. Suspended particulate matter Concentration (mg/N m <sup>3</sup> )	: 57	<b>115</b>	IS : 11255 (Part-I), 1985 (RA-2019)
7. Sulphur dioxide Concentration (mg/N m <sup>3</sup> )	: 89	---	IS : 11255 (Part-II), 1985 (RA-2019)
8. Oxides of nitrogen Concentration (mg/N m <sup>3</sup> )	: 117	---	IS: 11255 (P-7), 2005 (RA-2017)

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:APM 620-602 / 963 DTG 09, Next Calibration on: 08-04-2022

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Accredited by :



REF.NO: GEL/RFAPL/273/NQD/2021-034

Date: 06-11-2021

## AMBIENT NOISE QUALITY DATA

Name of the Industry : **M/s. RHODIUM FERRO ALLOYS PVT. LTD.**  
Address : Sy. No. 148, 151, Gollapuram (V),  
Hindupur (M), Anantapur (Dist). – 515 211.

Date of Monitoring: 31-10-2021

Location	Noise Levels in dB (A)	
	Day Time	Night Time
	(1)	(2)
1. Near Main Gate	: 57	53
2. Near Admin Building	: 63	58
3. Near Stores	: 56	51
4. Near Furnace	: 73	69
5. Near D.G. Set (at 5m Distance)	: 70	68

### Method Used : IS : 9989 – 1981 (RA-2014)

Note: 1. Daytime is reckoned in between 6 a.m and 10 p.m

2. Nighttime is reckoned in between 10 p.m and 6 a.m

APPCB Limit for Noise Levels at Daytime is 75 dB (A) & Night time is 70 dB (A)

Noise Level Meter Model SL-4010 (Sl. No. Q632540), Next Calibration on: 21-09-2022

for **GLOBAL ENVIRO LABS**

**AUTHORISED SIGNATORY**



ISO 9001:2015  
ISO 45001:2018

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Recognised By Ministry of Environment Forest & Climate Change (MoEF & CC) GOI & NABL

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E-mail : globalelabs@gmail.com, globalelabs@rediffmail.com

Accredited by :



REF.NO: GEL/RFAPL/273/WWA/2021-035

Date: 06-11-2021

## WASTEWATER ANALYSIS

Name of the Industry : **M/s. RHODIUM FERRO ALLOYS PVT. LTD.**

Address : Sy. No. 148, 151, Gollapuram (V),  
Hindupur (M), Anantapur (Dist). – 515 211.

Date of collection : 31-10-2021

Date of analysis : 01-11-2021

Sample Particulars : **Domestic Effluent**      **Limits**      **Method Used**

1. pH	:	7.21	<b>5.5 – 9.0</b>	IS:3025 (P-11) 1983 (RA-2017)
2. Total Dissolved Solids	:	811	<b>2100</b>	IS:3025 (P-16) 1984 (RA-2017)
3. Total Suspended Solids	:	32	<b>200</b>	IS:3025 (P-17) 1984 (RA-2017)
4. Chemical Oxygen Demand	:	131	<b>250</b>	IS:3025 (P-58) 2006 (RA-2017)
5. Biological Oxygen Demand	:	26	<b>100</b>	IS:3025 (P-44) 1993 (RA-2019)
		(3 days at 27°C)		
6. Oil & Grease	:	0.76	<b>10</b>	IS:3025 (P-39) 1991 (RA-2019)

Note: All the values except pH are expressed in mg/liter

All the values are within the limits prescribed by APPCB

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Accredited by :



REF.NO:GEL/RFAPL/273/AAQ/2021-036

Date: 02-12-2021

## AMBIENT AIR QUALITY DATA

Name of the Industry : **M/s. RHODIUM FERRO ALLOYS PVT. LTD.**  
Address : Sy. No. 148, 151, Gollapuram (V),  
Hindupur (M), Anantapur (Dist). – 515 211.

Sl. No.	Location	Near Main Gate	Near Furnace	Near Raw Material Area	Limits	Method Used
1.	Date of Sampling	: 25-11-2021	25-11-2021	25-11-2021	---	---
2.	Total time of Monitoring	: 24 Hrs.	24 Hrs.	24 Hrs.	---	---
3.	Particulate Matter Concentration PM <sub>10</sub> (µg/m <sup>3</sup> )	: 57	72	64	<b>100</b>	IS: 5182 Part 23-2006 (RA-2017)
4.	Sulphur Dioxide Concentration (µg/m <sup>3</sup> )	: 07	18	15	<b>80</b>	IS: 5182 Part 2-2001 (RA-2017)
5.	Oxides of Nitrogen Concentration (µg/m <sup>3</sup> )	: 13	15	11	<b>80</b>	IS: 5182 Part 6-2006 (RA-2017)
6.	Particulate Matter Concentration PM <sub>2.5</sub> (µg/m <sup>3</sup> )	: 31	35	32	<b>60</b>	IS 5182 P-24 : 2019

Note: All the values are within the limits prescribed by NAAQS.

All the parameters monitored and analyzed as per the MoEF notification Vide G.S.R. No.826 (E) Dt: 18/11/2009

Fine Particulate Sampler Model APM 550 (Sl. No. 449-DTH-2010), Next Calibration due on 23/07/2022

Fine Particulate Sampler Model APM 550 (Sl. No. 639-DTA-2011), Next Calibration due on 23/07/2022

Fine Particulate Sampler Model FPS 9000 (Sl. No. 101043), Next Calibration due on 08/04/2022

Respirable Dust Sampler Model RDS 9000 (Sl. No. 060617), Next Calibration due on 08/04/2022

Respirable Dust Sampler Model RDS 9000 (Sl. No. 061254), Next Calibration due on 08/04/2022

Respirable Dust Sampler Model RDS 9000 (Sl. No. 070703), Next Calibration due on 08/04/2022

for **GLOBAL ENVIRO LABS**

**AUTHORISED SIGNATORY**



ISO 9001:2015  
ISO 45001:2018

# GLOBAL ENVIRO LABS

Recognised By Ministry of Environment Forest & Climate Change (MoEF & CC) GOI & NABL

# 2-2-1075/14/A/1, 1<sup>st</sup> Floor, Tilaknagar 'X' Road, Bagh Amberpet,  
Hyderabad - 500 013. Ph : 27407969

E-mail : globalelabs@gmail.com, globalelabs@rediffmail.com

Accredited by :



REF.NO: GEL/RFAPL/273/STM/2021-037

Date: 02-12-2021

## STACK MONITORING DATA

Name of the Industry : **M/s. RHODIUM FERRO ALLOYS PVT. LTD.**  
Address : Sy. No. 148, 151, Gollapuram (V),  
Hindupur (M), Anantapur (Dist). – 515 211.

Sample Particulars : Stack attached to 9 MVA Submerged Electric Arc Furnace  
Date of sampling : 25-11-2021  
Time of monitoring : 10:40 p.m.

1. Duct Dimensions (m) : 2.22  
2. Area (sq m) : 3.868  
3. Flue gas temperature (°C) : 136  
4. Exit velocity of flue gases (m/sec) : 5.52  
5. Flow rate (cum/hr) : 76,865

EMISSION DATA		Limits	Method Used
6. Suspended particulate matter Concentration (mg/N m <sup>3</sup> )	: 39	<b>50</b>	IS : 11255 (Part-I), 1985 (RA-2019)
7. Sulphur dioxide Concentration (mg/N m <sup>3</sup> )	: 64	---	IS : 11255 (Part-II), 1985 (RA-2019)
8. Oxides of nitrogen Concentration (mg/N m <sup>3</sup> )	: 37	---	IS: 11255 (P-7), 2005 (RA-2017)

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:APM 620-602 / 963 DTG 09, Next Calibration on: 08-04-2022

for **GLOBAL ENVIRO LABS**

**AUTHORISED SIGNATORY**



ISO 9001:2015  
ISO 45001:2018

# GLOBAL ENVIRO LABS

Recognised By Ministry of Environment Forest & Climate Change (MoEF & CC) GOI & NABL

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E-mail : globalelabs@gmail.com, globalelabs@rediffmail.com

Accredited by :



REF.NO: GEL/RFAPL/273/STM/2021-038

Date: 02-12-2021

## STACK MONITORING DATA

Name of the Industry : **M/s. RHODIUM FERRO ALLOYS PVT. LTD.**  
Address : Sy. No. 148, 151, Gollapuram (V),  
Hindupur (M), Anantapur (Dist). – 515 211.

Sample Particulars : Stack attached to the 125 KVA D.G. Set  
Date of sampling : 25-11-2021  
Time of monitoring : 12:00 p.m.

1. Duct Dimensions (m) : 0.10  
2. Area (sq m) : 0.0078  
3. Flue gas temperature (°C) : 116  
4. Exit velocity of flue gases (m/sec) : 13.88  
5. Flow rate (cum/hr) : 390

EMISSION DATA		Limits	Method Used
6. Suspended particulate matter Concentration (mg/N m <sup>3</sup> )	: 54	<b>115</b>	IS : 11255 (Part-I), 1985 (RA-2019)
7. Sulphur dioxide Concentration (mg/N m <sup>3</sup> )	: 86	---	IS : 11255 (Part-II), 1985 (RA-2019)
8. Oxides of nitrogen Concentration (mg/N m <sup>3</sup> )	: 110	---	IS: 11255 (P-7), 2005 (RA-2017)

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:APM 620-602 / 963 DTG 09, Next Calibration on: 08-04-2022

for **GLOBAL ENVIRO LABS**

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Accredited by :



REF.NO: GEL/RFAPL/273/NQD/2021-039

Date: 02-12-2021

## AMBIENT NOISE QUALITY DATA

Name of the Industry : **M/s. RHODIUM FERRO ALLOYS PVT. LTD.**  
Address : Sy. No. 148, 151, Gollapuram (V),  
Hindupur (M), Anantapur (Dist). – 515 211.

Date of Monitoring: 25-11-2021

Location	Noise Levels in dB (A)	
	Day Time	Night Time
	(1)	(2)
1. Near Main Gate	: 63	58
2. Near Admin Building	: 64	59
3. Near Stores	: 68	65
4. Near Furnace	: 72	68
5. Near D.G. Set (at 5m Distance)	: 69	65

### Method Used : IS : 9989 – 1981 (RA-2014)

Note: 1. Daytime is reckoned in between 6 a.m and 10 p.m

2. Nighttime is reckoned in between 10 p.m and 6 a.m

APPCB Limit for Noise Levels at Daytime is 75 dB (A) & Night time is 70 dB (A)

Noise Level Meter Model SL-4010 (Sl. No. Q632540), Next Calibration on: 21-09-2022

for GLOBAL ENVIRO LABS

**AUTHORISED SIGNATORY**



ISO 9001:2015  
ISO 45001:2018

# GLOBAL ENVIRO LABS

Recognised By Ministry of Environment Forest & Climate Change (MoEF & CC) GOI & NABL

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E-mail : globalelabs@gmail.com, globalelabs@rediffmail.com

Accredited by :



REF.NO: GEL/RFAPL/273/WWA/2021-040

Date: 02-12-2021

## WASTEWATER ANALYSIS

Name of the Industry : **M/s. RHODIUM FERRO ALLOYS PVT. LTD.**

Address : Sy. No. 148, 151, Gollapuram (V),  
Hindupur (M), Anantapur (Dist). – 515 211.

Date of collection : 25-11-2021

Date of analysis : 26-11-2021

Sample Particulars : **Domestic Effluent**      **Limits**      **Method Used**

1. pH	:	7.32	<b>5.5 – 9.0</b>	IS:3025 (P-11) 1983 (RA-2017)
2. Total Dissolved Solids	:	843	<b>2100</b>	IS:3025 (P-16) 1984 (RA-2017)
3. Total Suspended Solids	:	35	<b>200</b>	IS:3025 (P-17) 1984 (RA-2017)
4. Chemical Oxygen Demand	:	128	<b>250</b>	IS:3025 (P-58) 2006 (RA-2017)
5. Biological Oxygen Demand	:	24	<b>100</b>	IS:3025 (P-44) 1993 (RA-2019)
		(3 days at 27°C)		
6. Oil & Grease	:	0.82	<b>10</b>	IS:3025 (P-39) 1991 (RA-2019)

Note: All the values except pH are expressed in mg/liter

All the values are within the limits prescribed by APPCB

for **GLOBAL ENVIRO LABS**

**AUTHORISED SIGNATORY**



# GLOBAL ENVIRO LABS

Recognised By Ministry of Environment Forest & Climate Change (MoEF & CC) GOI & NABL

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Accredited by :



REF.NO:GEL/RFAPL/273/AAQ/2022-041

Date: 05-01-2022

## AMBIENT AIR QUALITY DATA

Name of the Industry : **M/s. RHODIUM FERRO ALLOYS PVT. LTD.**  
Address : Sy. No. 148, 151, Gollapuram (V),  
Hindupur (M), Anantapur (Dist). – 515 211.

Sl. No.	Location	Near Main Gate	Near Furnace	Near Raw Material Area	Limits	Method Used
1.	Date of Sampling	: 30-12-2021	30-12-2021	30-12-2021	---	---
2.	Total time of Monitoring	: 24 Hrs.	24 Hrs.	24 Hrs.	---	---
3.	Particulate Matter Concentration PM <sub>10</sub> (µg/m <sup>3</sup> )	: 54	67	59	<b>100</b>	IS: 5182 Part 23-2006 (RA-2017)
4.	Sulphur Dioxide Concentration (µg/m <sup>3</sup> )	: 08	21	14	<b>80</b>	IS: 5182 Part 2-2001 (RA-2017)
5.	Oxides of Nitrogen Concentration (µg/m <sup>3</sup> )	: 11	16	10	<b>80</b>	IS: 5182 Part 6-2006 (RA-2017)
6.	Particulate Matter Concentration PM <sub>2.5</sub> (µg/m <sup>3</sup> )	: 29	34	31	<b>60</b>	IS 5182 P-24 : 2019

Note: All the values are within the limits prescribed by NAAQS.

All the parameters monitored and analyzed as per the MoEF notification Vide G.S.R. No.826 (E) Dt: 18/11/2009

Fine Particulate Sampler Model APM 550 (Sl. No. 449-DTE-2010), Next Calibration due on 23/07/2022

Fine Particulate Sampler Model APM 550 (Sl. No. 639-DTA-2011), Next Calibration due on 23/07/2022

Fine Particulate Sampler Model FPS 9000 (Sl. No. 101043), Next Calibration due on 08/04/2022

Respirable Dust Sampler Model RDS 9000 (Sl. No. 060617), Next Calibration due on 08/04/2022

Respirable Dust Sampler Model RDS 9000 (Sl. No. 061254), Next Calibration due on 08/04/2022

Respirable Dust Sampler Model RDS 9000 (Sl. No. 070703), Next Calibration due on 08/04/2022

for **GLOBAL ENVIRO LABS**

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Accredited by :



REF.NO: GEL/RFAPL/273/STM/2022-042

Date: 05-01-2022

## STACK MONITORING DATA

Name of the Industry : **M/s. RHODIUM FERRO ALLOYS PVT. LTD.**  
Address : Sy. No. 148, 151, Gollapuram (V),  
Hindupur (M), Anantapur (Dist). – 515 211.

Sample Particulars : Stack attached to 9 MVA Submerged Electric Arc Furnace  
Date of sampling : 30-12-2021  
Time of monitoring : 03:15 p.m.

1. Duct Dimensions (m) : 2.22  
2. Area (sq m) : 3.868  
3. Flue gas temperature (°C) : 140  
4. Exit velocity of flue gases (m/sec) : 5.61  
5. Flow rate (cum/hr) : 78,118

EMISSION DATA		Limits	Method Used
6. Suspended particulate matter Concentration (mg/N m <sup>3</sup> )	: 42	<b>50</b>	IS : 11255 (Part-I), 1985 (RA-2019)
7. Sulphur dioxide Concentration (mg/N m <sup>3</sup> )	: 73	---	IS : 11255 (Part-II), 1985 (RA-2019)
8. Oxides of nitrogen Concentration (mg/N m <sup>3</sup> )	: 40	---	IS: 11255 (P-7), 2005 (RA-2017)

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:APM 620-602 / 963 DTG 09, Next Calibration on: 08-04-2022

for **GLOBAL ENVIRO LABS**

**AUTHORISED SIGNATORY**



ISO 9001:2015  
ISO 45001:2018

# GLOBAL ENVIRO LABS

Recognised By Ministry of Environment Forest & Climate Change (MoEF & CC) GOI & NABL

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E-mail : globalelabs@gmail.com, globalelabs@rediffmail.com

Accredited by :



REF.NO: GEL/RFAPL/273/STM/2022-043

Date: 05-01-2022

## STACK MONITORING DATA

Name of the Industry : **M/s. RHODIUM FERRO ALLOYS PVT. LTD.**  
Address : Sy. No. 148, 151, Gollapuram (V),  
Hindupur (M), Anantapur (Dist). – 515 211.

Sample Particulars : Stack attached to the 125 KVA D.G. Set  
Date of sampling : 30-12-2021  
Time of monitoring : 04:30 p.m.

1. Duct Dimensions (m) : 0.10  
2. Area (sq m) : 0.0078  
3. Flue gas temperature (°C) : 110  
4. Exit velocity of flue gases (m/sec) : 13.76  
5. Flow rate (cum/hr) : 386

EMISSION DATA		Limits	Method Used
6. Suspended particulate matter Concentration (mg/N m <sup>3</sup> )	: 56	<b>115</b>	IS : 11255 (Part-I), 1985 (RA-2019)
7. Sulphur dioxide Concentration (mg/N m <sup>3</sup> )	: 89	---	IS : 11255 (Part-II), 1985 (RA-2019)
8. Oxides of nitrogen Concentration (mg/N m <sup>3</sup> )	: 114	---	IS: 11255 (P-7), 2005 (RA-2017)

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:APM 620-602 / 963 DTG 09, Next Calibration on: 08-04-2022

for **GLOBAL ENVIRO LABS**

**AUTHORISED SIGNATORY**



# GLOBAL ENVIRO LABS

Recognised By Ministry of Environment Forest & Climate Change (MoEF & CC) GOI & NABL

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E-mail : globalelabs@gmail.com, globalelabs@rediffmail.com

Accredited by :



REF.NO: GEL/RFAPL/273/NQD/2022-044

Date: 05-01-2022

## AMBIENT NOISE QUALITY DATA

Name of the Industry : **M/s. RHODIUM FERRO ALLOYS PVT. LTD.**  
Address : Sy. No. 148, 151, Gollapuram (V),  
Hindupur (M), Anantapur (Dist). – 515 211.

Date of Monitoring: 30-12-2021

Location	Noise Levels in dB (A)	
	Day Time	Night Time
	(1)	(2)
1. Near Main Gate	: 59	54
2. Near Admin Building	: 56	51
3. Near Stores	: 63	56
4. Near Furnace	: 71	67
5. Near D.G. Set (at 5m Distance)	: 68	64

### Method Used : IS : 9989 – 1981 (RA-2014)

Note: 1. Daytime is reckoned in between 6 a.m and 10 p.m

2. Nighttime is reckoned in between 10 p.m and 6 a.m

APPCB Limit for Noise Levels at Daytime is 75 dB (A) & Night time is 70 dB (A)

Noise Level Meter Model SL-4010 (Sl. No. Q632540), Next Calibration on: 21-09-2022

for GLOBAL ENVIRO LABS

**AUTHORISED SIGNATORY**



ISO 9001:2015  
ISO 45001:2018

# GLOBAL ENVIRO LABS

Recognised By Ministry of Environment Forest & Climate Change (MoEF & CC) GOI & NABL

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E-mail : globalelabs@gmail.com, globalelabs@rediffmail.com

Accredited by :



REF.NO: GEL/RFAPL/273/WWA/2022-045

Date: 05-01-2022

## WASTEWATER ANALYSIS

Name of the Industry : **M/s. RHODIUM FERRO ALLOYS PVT. LTD.**

Address : Sy. No. 148, 151, Gollapuram (V),  
Hindupur (M), Anantapur (Dist). – 515 211.

Date of collection : 30-12-2021

Date of analysis : 31-12-2021

Sample Particulars : **Domestic Effluent**      **Limits**      **Method Used**

1. pH	:	7.41	<b>5.5 – 9.0</b>	IS:3025 (P-11) 1983 (RA-2017)
2. Total Dissolved Solids	:	892	<b>2100</b>	IS:3025 (P-16) 1984 (RA-2017)
3. Total Suspended Solids	:	38	<b>200</b>	IS:3025 (P-17) 1984 (RA-2017)
4. Chemical Oxygen Demand	:	132	<b>250</b>	IS:3025 (P-58) 2006 (RA-2017)
5. Biological Oxygen Demand	:	26	<b>100</b>	IS:3025 (P-44) 1993 (RA-2019)
		(3 days at 27°C)		
6. Oil & Grease	:	0.91	<b>10</b>	IS:3025 (P-39) 1991 (RA-2019)

Note: All the values except pH are expressed in mg/liter

All the values are within the limits prescribed by APPCB

for **GLOBAL ENVIRO LABS**

**AUTHORISED SIGNATORY**



# GLOBAL ENVIRO LABS

Recognised By Ministry of Environment Forest & Climate Change (MoEF & CC) GOI & NABL

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Accredited by :



REF.NO:GEL/RFAPL/273/AAQ/2022-046

Date: 05-02-2022

## AMBIENT AIR QUALITY DATA

Name of the Industry : **M/s. RHODIUM FERRO ALLOYS PVT. LTD.**  
Address : Sy. No. 148, 151, Gollapuram (V),  
Hindupur (M), Anantapur (Dist). – 515 211.

Sl. No.	Location	Near Main Gate	Near Furnace	Near Raw Material Area	Limits	Method Used
1.	Date of Sampling	: 31-01-2022	31-01-2022	31-01-2022	---	---
2.	Total time of Monitoring	: 24 Hrs.	24 Hrs.	24 Hrs.	---	---
3.	Particulate Matter Concentration PM <sub>10</sub> (µg/m <sup>3</sup> )	: 57	65	61	<b>100</b>	IS: 5182 Part 23-2006 (RA-2017)
4.	Sulphur Dioxide Concentration (µg/m <sup>3</sup> )	: 10	19	15	<b>80</b>	IS: 5182 Part 2-2001 (RA-2017)
5.	Oxides of Nitrogen Concentration (µg/m <sup>3</sup> )	: 13	15	12	<b>80</b>	IS: 5182 Part 6-2006 (RA-2017)
6.	Particulate Matter Concentration PM <sub>2.5</sub> (µg/m <sup>3</sup> )	: 30	37	32	<b>60</b>	IS 5182 P-24 : 2019

Note: All the values are within the limits prescribed by NAAQS.

All the parameters monitored and analyzed as per the MoEF notification Vide G.S.R. No.826 (E) Dt: 18/11/2009

Fine Particulate Sampler Model APM 550 (Sl. No. 449-DTE-2010), Next Calibration due on 23/07/2022

Fine Particulate Sampler Model APM 550 (Sl. No. 639-DTA-2011), Next Calibration due on 23/07/2022

Fine Particulate Sampler Model FPS 9000 (Sl. No. 101043), Next Calibration due on 08/04/2022

Respirable Dust Sampler Model RDS 9000 (Sl. No. 060617), Next Calibration due on 08/04/2022

Respirable Dust Sampler Model RDS 9000 (Sl. No. 061254), Next Calibration due on 08/04/2022

Respirable Dust Sampler Model RDS 9000 (Sl. No. 070703), Next Calibration due on 08/04/2022

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Accredited by :



REF.NO: GEL/RFAPL/273/STM/2022-047

Date: 05-02-2022

## STACK MONITORING DATA

Name of the Industry : **M/s. RHODIUM FERRO ALLOYS PVT. LTD.**  
Address : Sy. No. 148, 151, Gollapuram (V),  
Hindupur (M), Anantapur (Dist). – 515 211.

Sample Particulars : Stack attached to 9 MVA Submerged Electric Arc Furnace  
Date of sampling : 31-01-2022  
Time of monitoring : 02:45 p.m.

1. Duct Dimensions (m) : 2.22  
2. Area (sq m) : 3.868  
3. Flue gas temperature (°C) : 136  
4. Exit velocity of flue gases (m/sec) : 5.70  
5. Flow rate (cum/hr) : 79,371

EMISSION DATA		Limits	Method Used
6. Suspended particulate matter Concentration (mg/N m <sup>3</sup> )	: 39	<b>50</b>	IS : 11255 (Part-I), 1985 (RA-2019)
7. Sulphur dioxide Concentration (mg/N m <sup>3</sup> )	: 76	---	IS : 11255 (Part-II), 1985 (RA-2019)
8. Oxides of nitrogen Concentration (mg/N m <sup>3</sup> )	: 42	---	IS: 11255 (P-7), 2005 (RA-2017)

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:APM 620-602 / 963 DTG 09, Next Calibration on: 08-04-2022

for **GLOBAL ENVIRO LABS**

**AUTHORISED SIGNATORY**



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# GLOBAL ENVIRO LABS

Recognised By Ministry of Environment Forest & Climate Change (MoEF & CC) GOI & NABL

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Accredited by :



REF.NO: GEL/RFAPL/273/STM/2022-048

Date: 05-02-2022

## STACK MONITORING DATA

Name of the Industry : **M/s. RHODIUM FERRO ALLOYS PVT. LTD.**  
Address : Sy. No. 148, 151, Gollapuram (V),  
Hindupur (M), Anantapur (Dist). – 515 211.

Sample Particulars : Stack attached to the 125 KVA D.G. Set  
Date of sampling : 31-01-2022  
Time of monitoring : 04:00 p.m.

1. Duct Dimensions (m) : 0.10  
2. Area (sq m) : 0.0078  
3. Flue gas temperature (°C) : 112  
4. Exit velocity of flue gases (m/sec) : 13.65  
5. Flow rate (cum/hr) : 383

EMISSION DATA		Limits	Method Used
6. Suspended particulate matter Concentration (mg/N m <sup>3</sup> )	: 58	<b>115</b>	IS : 11255 (Part-I), 1985 (RA-2019)
7. Sulphur dioxide Concentration (mg/N m <sup>3</sup> )	: 86	---	IS : 11255 (Part-II), 1985 (RA-2019)
8. Oxides of nitrogen Concentration (mg/N m <sup>3</sup> )	: 110	---	IS: 11255 (P-7), 2005 (RA-2017)

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:APM 620-602 / 963 DTG 09, Next Calibration on: 08-04-2022

for **GLOBAL ENVIRO LABS**

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E-mail : globalelabs@gmail.com, globalelabs@rediffmail.com

Accredited by :



REF.NO: GEL/RFAPL/273/NQD/2022-049

Date: 05-02-2022

## AMBIENT NOISE QUALITY DATA

Name of the Industry : **M/s. RHODIUM FERRO ALLOYS PVT. LTD.**  
Address : Sy. No. 148, 151, Gollapuram (V),  
Hindupur (M), Anantapur (Dist). – 515 211.

Date of Monitoring: 31-01-2022

Location	Noise Levels in dB (A)	
	Day Time	Night Time
	(1)	(2)
1. Near Main Gate	: 61	57
2. Near Admin Building	: 57	52
3. Near Stores	: 64	59
4. Near Furnace	: 73	68
5. Near D.G. Set (at 5m Distance)	: 69	64

### Method Used : IS : 9989 – 1981 (RA-2014)

Note: 1. Daytime is reckoned in between 6 a.m and 10 p.m

2. Nighttime is reckoned in between 10 p.m and 6 a.m

APPCB Limit for Noise Levels at Daytime is 75 dB (A) & Night time is 70 dB (A)

Noise Level Meter Model SL-4010 (Sl. No. Q632540), Next Calibration on: 21-09-2022

for **GLOBAL ENVIRO LABS**

**AUTHORISED SIGNATORY**





ISO 9001:2015  
ISO 45001:2018

# GLOBAL ENVIRO LABS

Recognised By Ministry of Environment Forest & Climate Change (MoEF & CC) GOI & NABL

# 2-2-1075/14/A/1, 1<sup>st</sup> Floor, Tilaknagar 'X' Road, Bagh Amberpet,  
Hyderabad - 500 013. Ph : 27407969

E-mail : globalelabs@gmail.com, globalelabs@rediffmail.com

Accredited by :



REF.NO: GEL/RFAPL/273/WWA/2022-050

Date: 05-02-2022

## WASTEWATER ANALYSIS

Name of the Industry : **M/s. RHODIUM FERRO ALLOYS PVT. LTD.**

Address : Sy. No. 148, 151, Gollapuram (V),  
Hindupur (M), Anantapur (Dist). – 515 211.

Date of collection : 31-01-2022

Date of analysis : 01-02-2022

Sample Particulars : **Domestic Effluent**      **Limits**      **Method Used**

1. pH	:	7.53	<b>5.5 – 9.0</b>	IS:3025 (P-11) 1983 (RA-2017)
2. Total Dissolved Solids	:	856	<b>2100</b>	IS:3025 (P-16) 1984 (RA-2017)
3. Total Suspended Solids	:	31	<b>200</b>	IS:3025 (P-17) 1984 (RA-2017)
4. Chemical Oxygen Demand	:	142	<b>250</b>	IS:3025 (P-58) 2006 (RA-2017)
5. Biological Oxygen Demand	:	28	<b>100</b>	IS:3025 (P-44) 1993 (RA-2019)
		(3 days at 27°C)		
6. Oil & Grease	:	0.76	<b>10</b>	IS:3025 (P-39) 1991 (RA-2019)

Note: All the values except pH are expressed in mg/liter

All the values are within the limits prescribed by APPCB

for **GLOBAL ENVIRO LABS**

**AUTHORISED SIGNATORY**



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ISO 45001:2018

# GLOBAL ENVIRO LABS

Recognised By Ministry of Environment Forest & Climate Change (MoEF & CC) GOI & NABL

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E-mail : globalelabs@gmail.com, globalelabs@rediffmail.com

Accredited by :



REF.NO:GEL/RFAPL/273/AAQ/2022-051

Date: 19-02-2022

## AMBIENT AIR QUALITY DATA

Name of the Industry : **M/s. RHODIUM FERRO ALLOYS PVT. LTD.**  
Address : Sy. No. 148, 151, Gollapuram (V),  
Hindupur (M), Anantapur (Dist). – 515 211.

Sl. No.	Location	Near Main Gate	Near Furnace	Near Raw Material Area	Limits	Method Used
1.	Date of Sampling	13-02-2022	13-02-2022	13-02-2022	---	---
2.	Total time of Monitoring	24 Hrs.	24 Hrs.	24 Hrs.	---	---
3.	Particulate Matter Concentration PM <sub>10</sub> (µg/m <sup>3</sup> )	54	71	59	<b>100</b>	IS: 5182 Part 23-2006 (RA-2017)
4.	Sulphur Dioxide Concentration (µg/m <sup>3</sup> )	09	22	17	<b>80</b>	IS: 5182 Part 2-2001 (RA-2017)
5.	Oxides of Nitrogen Concentration (µg/m <sup>3</sup> )	13	16	14	<b>80</b>	IS: 5182 Part 6-2006 (RA-2017)
6.	Particulate Matter Concentration PM <sub>2.5</sub> (µg/m <sup>3</sup> )	32	36	31	<b>60</b>	IS 5182 P-24 : 2019

Note: All the values are within the limits prescribed by NAAQS.

All the parameters monitored and analyzed as per the MoEF notification Vide G.S.R. No.826 (E) Dt: 18/11/2009

Fine Particulate Sampler Model APM 550 (Sl. No. 449-DTE-2010), Next Calibration due on 23/07/2022

Fine Particulate Sampler Model APM 550 (Sl. No. 639-DTA-2011), Next Calibration due on 23/07/2022

Fine Particulate Sampler Model FPS 9000 (Sl. No. 101043), Next Calibration due on 08/04/2022

Respirable Dust Sampler Model RDS 9000 (Sl. No. 060617), Next Calibration due on 08/04/2022

Respirable Dust Sampler Model RDS 9000 (Sl. No. 061254), Next Calibration due on 08/04/2022

Respirable Dust Sampler Model RDS 9000 (Sl. No. 070703), Next Calibration due on 08/04/2022

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*[Handwritten Signature]*

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# GLOBAL ENVIRO LABS

Recognised By Ministry of Environment Forest & Climate Change (MoEF & CC) GOI & NABL

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E-mail : globalelabs@gmail.com, globalelabs@rediffmail.com

Accredited by :



REF.NO: GEL/RFAPL/273/STM/2022-052

Date: 19-02-2022

## STACK MONITORING DATA

Name of the Industry : **M/s. RHODIUM FERRO ALLOYS PVT. LTD.**  
Address : Sy. No. 148, 151, Gollapuram (V),  
Hindupur (M), Anantapur (Dist). – 515 211.

Sample Particulars : Stack attached to 9 MVA Submerged Electric Arc Furnace  
Date of sampling : 13-02-2022  
Time of monitoring : 02:15 p.m.

1. Duct Dimensions (m) : 2.22  
2. Area (sq m) : 3.868  
3. Flue gas temperature (°C) : 141  
4. Exit velocity of flue gases (m/sec) : 5.61  
5. Flow rate (cum/hr) : 78,118

EMISSION DATA		Limits	Method Used
6. Suspended particulate matter Concentration (mg/N m <sup>3</sup> )	: 36	<b>50</b>	IS : 11255 (Part-I), 1985 (RA-2019)
7. Sulphur dioxide Concentration (mg/N m <sup>3</sup> )	: 73	---	IS : 11255 (Part-II), 1985 (RA-2019)
8. Oxides of nitrogen Concentration (mg/N m <sup>3</sup> )	: 45	---	IS: 11255 (P-7), 2005 (RA-2017)

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:APM 620-602 / 963 DTG 09, Next Calibration on: 08-04-2022

for **GLOBAL ENVIRO LABS**

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Accredited by :



REF.NO: GEL/RFAPL/273/STM/2022-053

Date: 19-02-2022

## STACK MONITORING DATA

Name of the Industry : **M/s. RHODIUM FERRO ALLOYS PVT. LTD.**  
Address : Sy. No. 148, 151, Gollapuram (V),  
Hindupur (M), Anantapur (Dist). – 515 211.

Sample Particulars : Stack attached to the 125 KVA D.G. Set  
Date of sampling : 13-02-2022  
Time of monitoring : 04:00 p.m.

1. Duct Dimensions (m) : 0.10  
2. Area (sq m) : 0.0078  
3. Flue gas temperature (°C) : 110  
4. Exit velocity of flue gases (m/sec) : 13.74  
5. Flow rate (cum/hr) : 386

EMISSION DATA		Limits	Method Used
6. Suspended particulate matter Concentration (mg/N m <sup>3</sup> )	: 56	<b>115</b>	IS : 11255 (Part-I), 1985 (RA-2019)
7. Sulphur dioxide Concentration (mg/N m <sup>3</sup> )	: 91	---	IS : 11255 (Part-II), 1985 (RA-2019)
8. Oxides of nitrogen Concentration (mg/N m <sup>3</sup> )	: 118	---	IS: 11255 (P-7), 2005 (RA-2017)

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:APM 620-602 / 963 DTG 09, Next Calibration on: 08-04-2022

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Accredited by :



REF.NO: GEL/RFAPL/273/NQD/2022-054

Date: 19-02-2022

## AMBIENT NOISE QUALITY DATA

Name of the Industry : **M/s. RHODIUM FERRO ALLOYS PVT. LTD.**  
Address : Sy. No. 148, 151, Gollapuram (V),  
Hindupur (M), Anantapur (Dist). – 515 211.

Date of Monitoring: 13-02-2022

Location	Noise Levels in dB (A)	
	Day Time	Night Time
	(1)	(2)
1. Near Main Gate	: 64	59
2. Near Admin Building	: 58	54
3. Near Stores	: 68	63
4. Near Furnace	: 72	67
5. Near D.G. Set (at 5m Distance)	: 71	65

### Method Used : IS : 9989 – 1981 (RA-2014)

Note: 1. Daytime is reckoned in between 6 a.m and 10 p.m

2. Nighttime is reckoned in between 10 p.m and 6 a.m

APPCB Limit for Noise Levels at Daytime is 75 dB (A) & Night time is 70 dB (A)

Noise Level Meter Model SL-4010 (Sl. No. Q632540), Next Calibration on: 21-09-2022

for GLOBAL ENVIRO LABS

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# GLOBAL ENVIRO LABS

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E-mail : globalelabs@gmail.com, globalelabs@rediffmail.com

Accredited by :



REF.NO: GEL/RFAPL/273/WWA/2022-055

Date: 19-02-2022

## WASTEWATER ANALYSIS

Name of the Industry : **M/s. RHODIUM FERRO ALLOYS PVT. LTD.**

Address : Sy. No. 148, 151, Gollapuram (V),  
Hindupur (M), Anantapur (Dist). – 515 211.

Date of collection : 13-02-2022

Date of analysis : 14-02-2022

Sample Particulars : **Domestic Effluent**      **Limits**      **Method Used**

1. pH	:	7.42	<b>5.5 – 9.0</b>	IS:3025 (P-11) 1983 (RA-2017)
2. Total Dissolved Solids	:	891	<b>2100</b>	IS:3025 (P-16) 1984 (RA-2017)
3. Total Suspended Solids	:	27	<b>200</b>	IS:3025 (P-17) 1984 (RA-2017)
4. Chemical Oxygen Demand	:	134	<b>250</b>	IS:3025 (P-58) 2006 (RA-2017)
5. Biological Oxygen Demand	:	26	<b>100</b>	IS:3025 (P-44) 1993 (RA-2019)
		(3 days at 27°C)		
6. Oil & Grease	:	0.71	<b>10</b>	IS:3025 (P-39) 1991 (RA-2019)

Note: All the values except pH are expressed in mg/liter

All the values are within the limits prescribed by APPCB

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Accredited by :



REF.NO:GEL/RFAPL/273/AAQ/2022-056

Date: 04-04-2022

## AMBIENT AIR QUALITY DATA

Name of the Industry : **M/s. RHODIUM FERRO ALLOYS PVT. LTD.**  
Address : Sy. No. 148, 151, Gollapuram (V),  
Hindupur (M), Anantapur (Dist). – 515 211.

Sl. No.	Location	Near Main Gate	Near Furnace	Near Raw Material Area	Limits	Method Used
1.	Date of Sampling	: 27-03-2022	27-03-2022	27-03-2022	---	---
2.	Total time of Monitoring	: 24 Hrs.	24 Hrs.	24 Hrs.	---	---
3.	Particulate Matter Concentration PM <sub>10</sub> (µg/m <sup>3</sup> )	: 60	73	63	<b>100</b>	IS: 5182 Part 23-2006 (RA-2017)
4.	Sulphur Dioxide Concentration (µg/m <sup>3</sup> )	: 10	21	16	<b>80</b>	IS: 5182 Part 2-2001 (RA-2017)
5.	Oxides of Nitrogen Concentration (µg/m <sup>3</sup> )	: 14	16	12	<b>80</b>	IS: 5182 Part 6-2006 (RA-2017)
6.	Particulate Matter Concentration PM <sub>2.5</sub> (µg/m <sup>3</sup> )	: 33	37	34	<b>60</b>	IS 5182 P-24 : 2019

Note: All the values are within the limits prescribed by NAAQS.

All the parameters monitored and analyzed as per the MoEF notification Vide G.S.R. No.826 (E) Dt: 18/11/2009

Fine Particulate Sampler Model APM 550 (Sl. No. 449-DTE-2010), Next Calibration due on 23/07/2022

Fine Particulate Sampler Model APM 550 (Sl. No. 639-DTA-2011), Next Calibration due on 23/07/2022

Fine Particulate Sampler Model FPS 9000 (Sl. No. 101043), Next Calibration due on 08/04/2022

Respirable Dust Sampler Model RDS 9000 (Sl. No. 060617), Next Calibration due on 08/04/2022

Respirable Dust Sampler Model RDS 9000 (Sl. No. 061254), Next Calibration due on 08/04/2022

Respirable Dust Sampler Model RDS 9000 (Sl. No. 070703), Next Calibration due on 08/04/2022

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Recognised By Ministry of Environment Forest & Climate Change (MoEF & CC) GOI & NABL

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E-mail : globalelabs@gmail.com, globalelabs@rediffmail.com

Accredited by :



REF.NO: GEL/RFAPL/273/STM/2022-057

Date: 04-04-2022

## STACK MONITORING DATA

Name of the Industry : **M/s. RHODIUM FERRO ALLOYS PVT. LTD.**  
Address : Sy. No. 148, 151, Gollapuram (V),  
Hindupur (M), Anantapur (Dist). – 515 211.

Sample Particulars : Stack attached to 9 MVA Submerged Electric Arc Furnace  
Date of sampling : 27-03-2022  
Time of monitoring : 11:30 a.m.

1. Duct Dimensions (m) : 2.22  
2. Area (sq m) : 3.868  
3. Flue gas temperature (°C) : 136  
4. Exit velocity of flue gases (m/sec) : 5.70  
5. Flow rate (cum/hr) : 79,371

EMISSION DATA		Limits	Method Used
6. Suspended particulate matter Concentration (mg/N m <sup>3</sup> )	: 39	<b>50</b>	IS : 11255 (Part-I), 1985 (RA-2019)
7. Sulphur dioxide Concentration (mg/N m <sup>3</sup> )	: 65	---	IS : 11255 (Part-II), 1985 (RA-2019)
8. Oxides of nitrogen Concentration (mg/N m <sup>3</sup> )	: 34	---	IS: 11255 (P-7), 2005 (RA-2017)

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:APM 620-602 / 963 DTG 09, Next Calibration on: 08-04-2022

for **GLOBAL ENVIRO LABS**

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# GLOBAL ENVIRO LABS

Recognised By Ministry of Environment Forest & Climate Change (MoEF & CC) GOI & NABL

# 2-2-1075/14/A/1, 1<sup>st</sup> Floor, Tilaknagar 'X' Road, Bagh Amberpet,  
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Accredited by :



REF.NO: GEL/RFAPL/273/STM/2022-058

Date: 04-04-2022

## STACK MONITORING DATA

Name of the Industry : **M/s. RHODIUM FERRO ALLOYS PVT. LTD.**  
Address : Sy. No. 148, 151, Gollapuram (V),  
Hindupur (M), Anantapur (Dist). – 515 211.

Sample Particulars : Stack attached to the 125 KVA D.G. Set  
Date of sampling : 27-03-2022  
Time of monitoring : 12:45 p.m.

1. Duct Dimensions (m) : 0.10  
2. Area (sq m) : 0.0078  
3. Flue gas temperature (°C) : 114  
4. Exit velocity of flue gases (m/sec) : 13.83  
5. Flow rate (cum/hr) : 388

EMISSION DATA		Limits	Method Used
6. Suspended particulate matter Concentration (mg/N m <sup>3</sup> )	: 52	<b>115</b>	IS : 11255 (Part-I), 1985 (RA-2019)
7. Sulphur dioxide Concentration (mg/N m <sup>3</sup> )	: 87	---	IS : 11255 (Part-II), 1985 (RA-2019)
8. Oxides of nitrogen Concentration (mg/N m <sup>3</sup> )	: 113	---	IS: 11255 (P-7), 2005 (RA-2017)

Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:APM 620-602 / 963 DTG 09, Next Calibration on: 08-04-2022

for **GLOBAL ENVIRO LABS**

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Accredited by :



REF.NO: GEL/RFAPL/273/NQD/2022-059

Date: 04-04-2022

## AMBIENT NOISE QUALITY DATA

Name of the Industry : **M/s. RHODIUM FERRO ALLOYS PVT. LTD.**  
Address : Sy. No. 148, 151, Gollapuram (V),  
Hindupur (M), Anantapur (Dist). – 515 211.

Date of Monitoring: 27-03-2022

Location	Noise Levels in dB (A)	
	Day Time	Night Time
	(1)	(2)
1. Near Main Gate	: 62	57
2. Near Admin Building	: 59	55
3. Near Stores	: 65	61
4. Near Furnace	: 73	69
5. Near D.G. Set (at 5m Distance)	: 70	67

### Method Used : IS : 9989 – 1981 (RA-2014)

Note: 1. Daytime is reckoned in between 6 a.m and 10 p.m

2. Nighttime is reckoned in between 10 p.m and 6 a.m

APPCB Limit for Noise Levels at Daytime is 75 dB (A) & Night time is 70 dB (A)

Noise Level Meter Model SL-4010 (Sl. No. Q632540), Next Calibration on: 21-09-2022

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Accredited by :



REF.NO: GEL/RFAPL/273/WWA/2022-060

Date: 04-04-2022

## WASTEWATER ANALYSIS

Name of the Industry : **M/s. RHODIUM FERRO ALLOYS PVT. LTD.**

Address : Sy. No. 148, 151, Gollapuram (V),  
Hindupur (M), Anantapur (Dist). – 515 211.

Date of collection : 27-03-2022

Date of analysis : 28-03-2022

Sample Particulars : **Domestic Effluent**      **Limits**      **Method Used**

1. pH	:	7.51	<b>5.5 – 9.0</b>	IS:3025 (P-11) 1983 (RA-2017)
2. Total Dissolved Solids	:	831	<b>2100</b>	IS:3025 (P-16) 1984 (RA-2017)
3. Total Suspended Solids	:	32	<b>200</b>	IS:3025 (P-17) 1984 (RA-2017)
4. Chemical Oxygen Demand	:	127	<b>250</b>	IS:3025 (P-58) 2006 (RA-2017)
5. Biological Oxygen Demand	:	25	<b>100</b>	IS:3025 (P-44) 1993 (RA-2019)
		(3 days at 27°C)		
6. Oil & Grease	:	0.64	<b>10</b>	IS:3025 (P-39) 1991 (RA-2019)

Note: All the values except pH are expressed in mg/liter

All the values are within the limits prescribed by APPCB

for **GLOBAL ENVIRO LABS**

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