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Subject to Hindupur Jurisdiction



SHYAM FERROUS LIMITED

MFG : M. S. BILLETS & GOPALA TMT BARS

Sy.No. 67/2, Devarapalli (V) Hindupur - 515 211. Sri Satys Sai (Dist.) A.P.

Ref:

Date: 09.02.2024

To

The Environmental Engineer,
AP Pollution Control Board,
Regional Office, Ananthapur.

Sir,

Sub: - Submission of Form V for financial year of April 2021 – March 2022 - M/s Shyam Ferrous Limited, Sy. No. 67/2 & 68/2 of Devarapally (V), Hindupur (M) of Sri Satya Sai District, Andhra Pradesh.

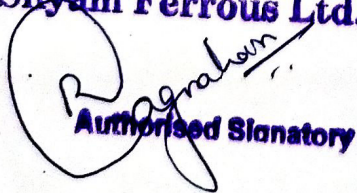
- Ref: 1. Consent Order No : 420158/APPCB/KNL/ATP/CFO&HWA/HO/2022- 12/10/2022
2. Amendment Order No.420158/APPCB/KNL/ATP/HO/CTO&HWA/2022- 30/11/2022

With reference to the above-mentioned subject, we are submitting the Form V as per the Rule No 14 of Environmental Protection Act 1986 and condition No.7 of Schedule A of CFO of our Metallurgical Industry located at Sy. No. 67/2 & 68/2 of Devarapally (V), Hindupur (M) of Sri Satya Sai District, Andhra Pradesh

Kindly acknowledge the same.

With Regards,

For Shyam Ferrous Ltd.,


Authorised Signatory



H.O. Gopal Nagar, G.T. Road, Fathepur
(U.P.) 212 601. Tel: 05180 - 224098
e-mail: shyamferrousltd@yahoo.com

SHYAM FERROUS LIMITED
Sy.No 67/2 & 68/2 Devarapally (V), Hindupur (M)
of Sri Satya Sai District, Andhra Pradesh.

ENVIRONMENTAL STATEMENT (FORM-V)
FOR THE FINANCIAL YEAR 2022-2023

Prepared by
PRIDHVI ENVIROTECH (P)LTD.,
184-C, Vengalrao Nagar,
Hyderabad

**FORM - V
(See rule 14)
ENVIRONMENTAL STATEMENT FOR THE FINANCIAL
YEAR ENDING 31st MARCH, 2023**

1) PROJECT SETTING

1.0 INTRODUCTION & BACK GROUND OF THE UNIT

M/s. Shyam Ferrous Limited was established in the year 2009, and started operation in 2009. The unit is involved in manufacturing MS Billets and TMT Bars at Sy. No. 67/2 & 68/2 of Devarapally (V), Hindupur (M) of Sri Satya Sai District, Andhra Pradesh. The total investment on the unit is Rs 38.0 Crores as on 31.03.2022

Site lay out is given at **Annexure I**

2) PRODUCTS MANUFACTURED:

This unit is permitted for manufacturing MS Billets and TMT Bars. The unit obtained CFO from the board which is valid up to 31st July 2027. CFO Copy is enclosed as **Annexure – II**.

Production Capacities as per CFO

S.NO	PRODUCT	QUANTITY (TPD)
1	M.S Billets	133
2	TMT Bars/ Sections/ Flats/Pipes	166.66

3) ENVIRONMENT MANAGEMENT

The statutory environmental audit report would provide an integrated perspective of efforts taken, performance achieved and planning made for future. This brought out with respect to various components which are likely to affect the Environmental Characteristics like air, water, noise, etc. This entire information is brought out in nine parts in Form –5 which is given in the following pages.

A detailed study with respect to various Environmental components like Air, Water Noise, Solid and Hazardous wastes has been undertaken for the preparation of the reports for different parameters are available. The available is utilized in the preparation of the report which is presented in the various tables.

3.1 WATER MANAGEMENT

3.1.1 WATER REQUIREMENT

The water requirement is 128 KLD as per CFO order. Water requirements are met through Borewell

3.1.2 EFFLUENT HANDLING, TREATMENT AND RE-USE

The only source of effluent from the unit is process cooling and domestic purpose. The waste water from the cooling blow down are recycled and the domestic effluents are sent to septic tank followed by soak pit.

3.2 AIR pollution sources and controls

3.2.1 STACK EMISSIONS

The unit established 2 induction furnaces and oil/ coal fired reheating furnace are in operation. Adequate stack with 30 mts height is provided with Bag filters

Both stack level and ambient air emissions are analyzed and results shows that all the values are within the limits prescribed by NAAQS and AP pollution control board. The reports of stack emissions are enclosed **at Annexure III**

3.2.2 AMBIENT AIR QUALITY:

Three ambient air quality stations have been setup simultaneously and monitored for various pollutants. The ambient stations were located such a way that the stations cover the area depending upon the prevailing wind direction. The sampling stations are:

1. Near Main Gate
2. Near Furnace
3. Near Store
4. Near Rolling mill
5. Near Lab

Ambient air monitoring stations have been setup to measure the air environment status for various parameters like Suspended particulate matter PM 10, PM2.5, Sulphur dioxide – SO₂ and oxides of Nitrogen – Nox.

The meteorological data like wind speed, temperature and wind direction are also taken during the Ambient Air sampling.

As can be seen from the results all the Parameters are well within the specified limits of AP pollution control board. The analysis reports are enclosed **Annexure IV**

3.2.3 NOISE POLLUTION

Noise levels are measured at various places in the company to study the effect on the environment. Analysis reports of ambient noise levels are given at **Annexure V**

4) Hazardous waste management

M/s Shyam Ferrous Limited got authorization to dispose the following Hazardous and Non-Hazardous wastes. The details of the solid waste is given in the below table.

Solid Waste	Quantity for as per CFO	Disposal Option
Hazardous		
Used Oil	120 LPA	Sent to authorized re-processors / recyclers through M/s. APEMCL.
Non Hazardous		
Slag & Ash	3.6 TPD	Shall be used for filling low lying areas within the premises.
Mill Scale powder	50 TPM	Sold to outside parties.
End cutting	313.5 TPM	Shall be re-used in the steel melting division
Dust collected from APCE	6.0 TPM	Shall be used for filling low lying areas

5) GREEN BELT DEVELOPMENT

Green Belt Development may have the following benefits.

1. Mitigation of fugitive emissions including odor
2. Noise pollution control
3. Improving the local ecosystem
4. Arresting the soil erosion
5. Improving the landscape of the area
6. Aesthetics

M/s Shyam Ferrous Limited developed greenery in an area of around 1.55 Acres. Greenbelt Photographs are enclosed as **Annexure-VI**

6) INVESTMENT ON ENVIRONMENTAL INFRASTRUCTURE

M/s Shyam Ferrous Limited is creating environmental infrastructure for control measures for air and water pollution.

7) HOUSE KEEPING

Proper cleaning of the different sections is required to maintain healthy atmosphere and good quality M/s Shyam Ferrous Limited maintains its operational area very clean and neat. Continuous training to operational people is imparted to maintain 5S in work area

8) Handling of Hazardous chemicals:

As this is manufacturing unit of MS Billets and TMT Bars there is no hazardous chemicals used the only raw materials used are sponge iron, iron scrap and silico manganese.

PART - A

- i) Name and address of the owner/ Occupier of the industry operation Or Process : Kunal kuchal guptha
- ii) Date of the last environmental Audit report submitted : This is first report
- iii) Activity : manufacturing MS Billets and TMT Bars
- iv) Year of establishment : 2009

PART B

Water consumption M3/day - 128 KLD as per CFO

Name of Products	water consumption per unit product output
	During the current financial year 2021- 2022
(1)	(2)
Induction Furnace, Rolling Mill cooling water (makeup)	45.0
Ventury Scrubber	8.0
Domestic	9.0
Dust suppression	Notspecified
Green Belt	7.0
Total	69.0

ii)Raw material Consumption		
Name of the product	Name of raw material	Consumption of raw material
		During the current financial year 2021 - 2022
MS Billets	Scrap & Sponge Iron	43735.065 Mts
TMT Bars	MS Billets	59249.170 Mts

PART - C		
Pollution Discharged to Environment (Parameters Specified in the consent issued)		
	Pollutants	Quantity of Pollutants Discharged Kgs/day
1.	Total Dissolved Solids	Effluents Generated from cooling Blow down are Recycled and Domestic Effluents are sent to Septic Tank followed by Soak pit
2.	Chemical Oxygen Demand	
3.	Oil & Grease	

b) Air			
Stack Attached to	Pollutants	Concentrations of Pollutants in Emissions (mg/N m ³) (Peak Values recorded)	Authorized limits Mg/Nm ³
Induction Furnace	PM	49	<115
	SOX	82	<800
	NOX	56	<600
Induction Furnace-II	PM	45	<115
	SOX	53	<800
	NOX	31	<600
Coal fired reheating furnace 8 TPH	PM	39	<115
	SOX	65	----
	NOX	41	-----

PART - D

HAZARDOUS WASTE

(As specified under Hazardous wastes/Management and handling rules, 1989)

hazardous waste details are given in the table during the current financial year.

PART - E

SOLID WASTE

Solid Waste	During the current financial year 2021-2022	Disposal Option
Hazardous		
Used Oil	100	To authorised re-processors / recyclers through M/s. APEMCL.
Non Hazardous		
Slag & Ash	3936.156	Shall be used for filling low lying areas within the premises.
Mill Scale powder	1184.983	Sold to outside parties.

PART - F

Please specify the characteristics (in terms of concentration and quantum) of Hazardous as well as solid wastes and indicates disposal practice adopted for both these categories of wastes.

Not applicable

PART - G

Impact of the pollution control measures on conservation of natural resources and consequently on the cost of production.

Not applicable

PART - H

Additional investment proposal for environmental protection including abatement of pollution.

Adequate funds are provided for operation and maintenance of environmental infrastructure and disposal of wastes as per CFOs

PART - I

Any other particulars in respect of environment protection and abatement of pollution.

Periodical monitoring of water & air quality is carried out. Extensive green belt is developed, to abate pollution and at the same time improves the surrounding environment.

Hyderabad

Signature:

Date:

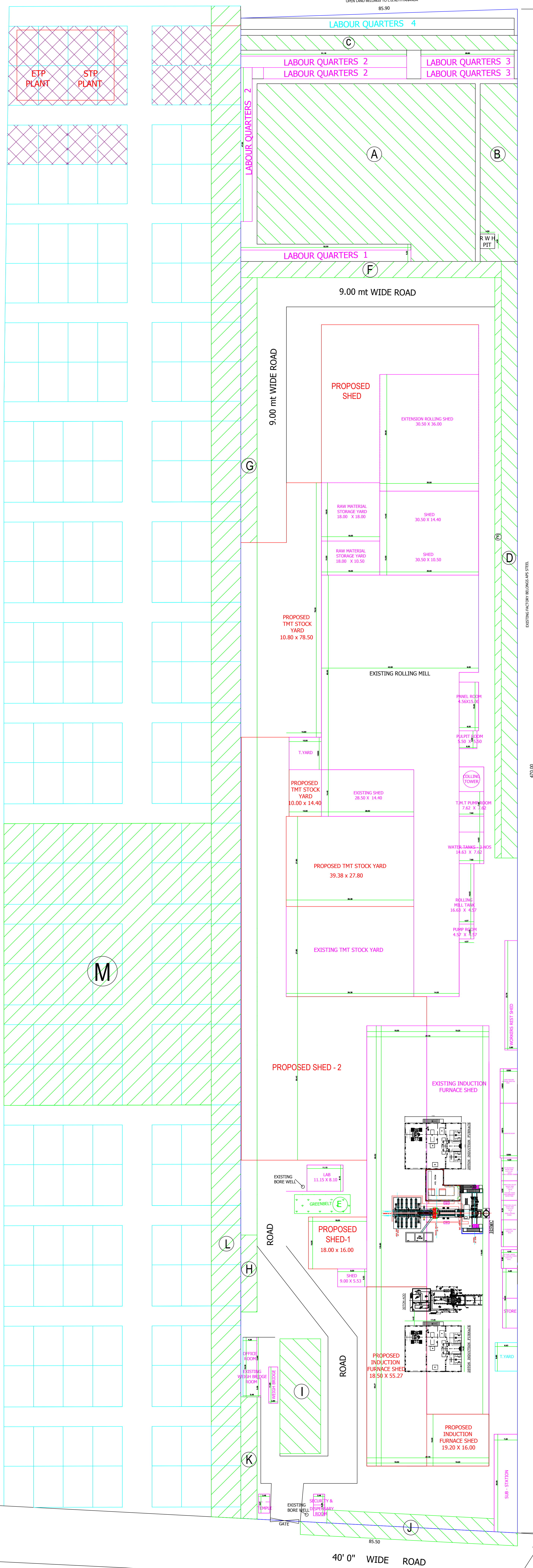
DESIGNATION:

LIST OF ANNEXURES

ANNEXURE NO	DESCRIPTION
ANNEXURE I	SITE LAY OUT
ANNEXURE II	CURRENT CFO COPY
ANNEXURE III	STACK MONITORING REPORTS
ANNEXURE IV	AMBIENT AIR QUALITY REPORTS
ANNEXURE V	NOISE MONITORING REPORTS
ANNEXURE VI	GREEN BELT PHOTOGRAPHS

ANNEXURE I
SITE LAY OUT

OPEN LAND BELONGS TO L.G.NETHYANANDA
85.50



EXISTING BUILT UP AREA	
INDUCTION FURNACE	3807.78 Sqmt
SECURITY, DISPENSARY, TEMPLE	23.41 Sqmt
WEIGH BRIDGE ROOM	20.44 Sqmt
WEIGH BRIDGE	85.05 Sqmt
LAB	31.36 Sqmt
PARKING	90.31 Sqmt
WORKERS REST SHED	200.0 Sqmt
SUB-STATION	131.67 Sqmt
TRANSFORMER YARD, STORE, R.O. PLANT, WATER TANK, CCM PRIMARY TANKS, FURANS COIL COLLIER, CCM SECONDARY WATER TANK, GENERATOR ROOM, FLOWN FORLORN HARMONIC REACTOR YARD	217.82 Sqmt
TRANSFORMER YARD SHED	60.98 Sqmt
	49.75 Sqmt
ROLLING MILL	
ROLLING MILL	7075.23 Sqmt
T.M.T STOCK YARD	1094.79 Sqmt
COAL STORAGE YARD & FURNACE OIL TANK	116.88 Sqmt
LABOR QUARTERS 1	279.30 Sqmt
LABOR QUARTERS 2	768.96 Sqmt
LABOR QUARTERS 3	306.43 Sqmt
LABOR QUARTERS 4	448.90 Sqmt
EXISTING ETP & STP	900.00 Sqmt
TOTAL	: 16111.32 Sqmt
PROPOSED BUILT UP AREA	
PROPOSED INDUCTION FURNACE	1329.78 Sqmt
PROPOSED T.M.T STOCK YARD	1693.36 Sqmt
PROPOSED T.M.T STOCK YARD	1094.79 Sqmt
PROPOSED T.M.T STOCK YARD	144.00 Sqmt
PROPOSED SHED	134.56 Sqmt
PROPOSED SHED-1	144.00 Sqmt
PROPOSED SHED-2	1420.86 Sqmt
TOTAL	: 5961.35 Sqmt

AREA STATEMENT		
	TOTAL SITE AREA	50102.28 Sqmt
	EXISTING BUILT UP AREA	16111.33 Sqmt
	PROPOSED BUILT UP AREA	5961.35 Sqmt
	ROAD AREA	4223.95 Sqmt
	EXISTING GREENERY	6302.25 Sqmt
	PROPOSED GREENERY	11281.18 Sqmt
	OPEN SITE	6222.22 Sqmt
	PURCHASED PLOTS	

GREENERY AREA	
LEGEND	AREA IN Sqmt
A	3441.13 Sqmt
B	630.43 Sqmt
C	391.04 Sqmt
D	920.00 Sqmt
E	358.00 Sqmt
F	401.90 Sqmt
G	408.50 Sqmt
H	118.64 Sqmt
I	444.49 Sqmt
J	475.16 Sqmt
K	188.06 Sqmt
L	4246.17 Sqmt
M	5559.91 Sqmt
TOTAL	17583.43 Sqmt

APPLICANT: M/S SHYAM FERROUS Pvt.Ltd.
 LICENCED SURVEYOR: IN SURVEY NO. 67-2.68-2, DEVARAPALLI VILLAGE, SANTHEBIDANUR (PANCHAYAT), HINDUPUR (MANDAL), ANANTAPUR (Dist).

SITE PLAN

SCALE: 1:400

NOTE: ALL DIMENSION ARE IN METERS

ANNEXURE II

CURRENT CFO COPY



ANDHRA PRADESH POLLUTION CONTROL BOARD
 D.No.33-26-14 D/2, Near Sunrise Hospital, Pushpa Hotel Centre,
 Chalamavari Street, Kasturibaipet, Vijayawada – 520010
Phone. No.0866-2463200, Website : www.pcb.ap.gov.in

**RED CATEGORY
 RENEWAL OF CONSENT ORDER**

Consent Order No :420158/APPCB/KNL/ATP/CFO&HWA/HO/2022- 12/10/2022

CONSENT is hereby granted for Operation under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21/22 of Air (Prevention & Control of Pollution) Act 1981 and amendments thereof and Authorisation under Rule 6 of the Hazardous and Other Wastes (Management & Transboundary Movement) Rules 2016 and the rules and orders made there under (hereinafter referred to as 'the Acts', 'the Rules') to:

**M/s. Shyam Ferrous Alloys Ltd.,
 Sy.No.67/2, Devarapalli (V), Hindupur (M),
 Anantapur District - 515211.**

Email: shyamferrousltd@yahoo.com

(Hereinafter referred to as 'the Applicant') authorizing to operate the industrial plant to discharge the effluents from the outlets and the quantity of emissions per hour from the chimneys as detailed below:

i. Outlets for discharge of effluents:

Outlet No.	Outlet Description	Max Daily Discharge (KLD)	Point of Disposal
1.	Cooling Blow Down	2.0	Shall be Recycled
2.	Domestic	8.0	Septic tank followed by soak pit.

ii) Emissions from chimneys:

Chimney No.	Description of Chimney
1.	Attached to Induction furnace of capacity 8 Tons per Heat
2.	Attached to Induction furnace of capacity 4 TPH (with 02 crucibles) (01 standby)
3.	Attached to oil/coal fired reheating furnace of capacity 8 TPH

iii) HAZARDOUS WASTE AUTHORISATION (FORM – II) [See Rule 6 (2)]:

M/s. Shyam Ferrous Alloys Ltd., Sy.No.67/2, Devarapalli (V), Hindupur (M), Anantapur District 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:**

S. No.	Name of the hazardous waste	Stream	Quantity	Disposal Option
1	Used oil	5.1 of Schedule – I	120 LPA	To authorised re-processors / recyclers through M/s. APEMCL.

This consent order is valid for manufacturing the following product along with quantity indicated only:

Sl. No.	Products	Quantity
1.	M.S. Billets	133 TPD
2.	TMT Bars	5,000 TPM

Note: the annual production capacity of induction furnace shall not exceed the capacity of 29,700 TPA as mentioned in the EC order dt: 23.11.2010

This order is subject to the provisions of 'the Acts' and the Rules' and orders made there under 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 Authorisation shall be valid for a period ending with the **31.07.2027**.

**VIJAY KUMAR GSRKR IAS, MEMBER SECY(GSRKRVK), O/o MEMBER
SECRETARY-APPCB**

To

**M/s. Shyam Ferrous Alloys Ltd.,
Sy.No.67/2, Devarapalli (V), Hindupur (M),
Anantapur District - 515211.**

Email: shyamferrousltd@yahoo.com

Copy to:

1. The JCEE, Zonal Office, Kurnool for information and necessary action.
2. The E.E, Regional Office, Anantapuram for information.

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. The industry should put up two sign boards (6x4 ft. each) 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.

5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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.
12. The industry may explore the possibility of tapping the solar energy for their energy requirements.
13. The industry should educate the workers and nearby public of possible accidents and remedial measures.

SCHEDULE - B

The industry shall comply with the following conditions:

1. The industry shall develop greenbelt of 33% within two months.
2. The industry shall install rooftop fume extraction system within 2 months.
3. The industry shall provide an interlocking system within 15 days (so that the electricity will be stopped to the Induction furnace in case of any failure of APCE).
4. The industry shall take measures to control dust emissions emanated during the crushing of the slag within 15 days.
5. The industry shall provide separate energy meter within week time (to verify the operation of APCE provided to the induction furnace) and maintain records for the same.

6. The industry shall install continuous online stack monitoring system for the stack attached to induction furnace and shall connect the data to APPCB server within one month.
7. The industry shall register the APEMCL.

WATER POLLUTION:

8. The source of water is Bore well. The following is the permitted water consumption:

S. No.	Purpose	Quantity (KLD)
1.	Cooling water make-up for SMS	46.0
2.	Cooling makeup for roiling mill	66.0
3.	Gardening	7.0
4.	Sanitary / Domestic	9.0
	Total	128 KLD

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

9. The industry shall provide separate water meters for assessing the quantity of water used for Cooling water make-up for SMS, Cooling makeup for roiling mill, Gardening and Sanitary / Domestic purposes and maintain records for the same. The industry shall submit compliance report to the Regional Office Kurnool after installation of flow meters.
10. Closed circuit cooling system shall be adopted for cooling system. No waste water shall be discharge outside the factory premises under any circumstances and zero discharge shall be adopted.

AIR POLLUTION:

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

Chimney No	Parameter	Emission Standards (mg/ Nm ³)
1, 2 & 3	SPM	50 mg/Nm ³

12. The industry shall comply with standards / stack height etc., stipulated in the GSR 612 (E) dated 25.08.2014 and GSR 496 (E) dated 09.05.2016 notified by MoEF&CC, GoI.

13. 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)

14. 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.

15. 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.
16. Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits. Guidelines / Code of Practice issued by the CPCB shall be followed.
17. The industry shall operate regularly dust collection and extraction system to control fugitive emissions at various transfer points.
18. The industry shall avoid open storage of raw material and slag in the premises in a scattered manner and shall provide storage facilities (closed shed)

Solid waste

19. The industry shall dispose solid waste (NON HAZARDOUS) as follows:

S. No.	Name of the waste	Source of generation	Quantity of waste	Disposal Option
1.	Slag & Ash	Re-rolling mill	3.6 TPD	Shall be used for filling low lying areas within the premises.
2.	Mill Scale powder	Re-rolling mill	50 TPM	Sold to outside parties.
3.	End cutting	Re-rolling mill	313.5 TPM	Shall be re-used in the steel melting division
4.	Dust collected from APCE	Re-rolling mill	6.0 TPM	Shall be used for filling low lying areas

GENERAL:

20. The industry shall not manufacture new products and not exceeding the consented capacity without CFE & CFO of the Board.
21. The industry shall submit monthly monitoring analysis reports to Board Office under copies to Regional Office / Zonal Office.
22. The industry shall lay concrete/bitumen internal roads to control the fugitive dust emission during vehicular movement.
23. 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. Characteristics of effluents and emissions.
 - c. Quantity of Effluents generated, treated, recycled/reused.
 - d. Log Books for pollution control systems.
 - e. Hazardous/non hazardous solid waste generated and disposed.
 - f. Manifest copies of effluents / hazardous waste.
 - g. Inspection book.
24. The industry shall comply with the Task Force directions issued to the industry time to time.
25. The industry shall maintain valid PLI policy which includes Environmental Relief Fund (ERF) and submit copy to RO, Anantapur on yearly base.
26. The industry shall install digital display boards at publicly visible places at the main gate indicating the products manufactured Vs permitted quantities, Treated effluent concentrations Vs discharge standards, Stack emission & AAQ concentrations Vs standards, hazardous waste generation, disposed, stock Vs permitted quantities and validity of CFO; and exhibit the CFO order at a prominent place in the factory premises, as per Hon'ble Supreme Court order.

27. 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.
28. The industry shall submit AAQ monitoring reports conducted by authorized agency, regularly.
29. The industry shall comply with all the conditions stipulated in the earlier issued EC order and CFE orders.
30. Any other directions/circulars / notices issued by CPCB, MoEF&CC and APPCB shall be followed from time to time.
31. The conditions are stipulated without prejudice to the rights and contentions of this Board in any Hon'ble Court of Law.

Special conditions:

32. 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.
33. 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 along with copy of the safety report, safety audit report and safety certificate at concerned Regional Office, APPCB.
34. 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.
35. The industry shall carry out 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.
36. The industry shall install fluorescent Wind Vane at the highest point in the industry premises.
37. 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.
38. The industry shall submit the copy of the safety audit report and On-Site / Off Site Emergency Plans as applicable after being certified by the Factories Department to the APPCB, Regional Office from time to time, if the storage quantity of hazardous chemicals is equal to or, in excess of the threshold quantities specified in schedule 2 & 3 of MSIHC Rules, 1989.

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.

**VIJAY KUMAR GSRKR IAS,
MEMBER SECY(GSRKRVK),
O/o MEMBER SECRETARY-
APPCB**

To

**M/s. Shyam Ferrous Alloys Ltd.,
Sy.No.67/2, Devarapalli (V), Hindupur (M),
Sri Sathya Sai District - 515211.**

Email: shyamferrousltd@yahoo.com

ANNEXURE III

STACK MONITORING REPORTS

REF.NO:GEL/SFL/138/STM/2022-014

Date:22-02-2022

STACK MONITORING DATA

Name of the Industry : **M/s. SHYAM FERROUS LIMITED,**
Address : Sy. No. 67/2, Devarapalli (V),
Hindupur, Anantapur district.

Sample Particulars : Stack attached to the Induction Furnace
Date of sampling : 15-02-2022
Time of monitoring : 11:45 a.m.

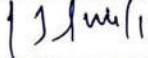
1. Stack diameter (m) : 0.61
2. Stack cross sectional area (sq m) : 0.292
3. Flue gas temperature (°C) : 136
4. Exit velocity of flue gases (m/sec) : 5.52
5. Flow rate (cum/hr) : 5,803

EMISSION DATA	Limits	Method Used
6. Suspended particulate matter Concentration (mg/N m ³)	115	IS: 11255 (Part-I), 1985 (RA-2019)
7. Sulphur dioxide Concentration (mg/N m ³)	800	IS: 11255 (Part-II), 1985 (RA-2019)
8. Oxides of nitrogen Concentration (mg/N m ³)	600	IS: 11255 (P-7), 2005 (RA-2017)

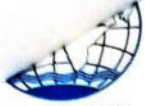
Note: All the values are within the limits prescribed by APPCB.

Stack Kit Model/SL/No:APM-620-602/956 – DTG 09, Next Calibration on: 08-04-2022

for **GLOBAL ENVIRO LABS**



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ISO 9001:2015
ISO 45001:2018

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

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

Accredited by :



REF.NO:GEL/SFL/138/STM/2022-015

Date:22-02-2022

STACK MONITORING DATA

Name of the Industry : **M/s. SHYAM FERROUS LIMITED,**
Address : Sy. No. 67/2, Devarapalli (V),
Hindupur, Anantapur district.

Sample Particulars : Stack attached to the Induction Furnace - II
Date of sampling : 15-02-2022
Time of monitoring : 12:50 p.m.

1. Stack diameter (m) : 0.77
2. Stack cross sectional area (sq m) : 0.465
3. Flue gas temperature (°C) : 142
4. Exit velocity of flue gases (m/sec) : 5.39
5. Flow rate (cum/hr) : 9,023

EMISSION DATA		Limits	Method Used
6. Suspended particulate matter Concentration (mg/N m ³)	: 45	115	IS: 11255 (Part-I), 1985 (RA-2019)
7. Sulphur dioxide Concentration (mg/N m ³)	: 53	800	IS: 11255 (Part-II), 1985 (RA-2019)
8. Oxides of nitrogen Concentration (mg/N m ³)	: 31	600	IS: 11255 (P-7), 2005 (RA-2017)

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

Stack Kit Model/SL/No:APM-620-602/956 – DTG 09, Next Calibration on: 08-04-2022

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REF.NO:GEL/SFL/138/STM/2022-011

Date: 21-02-2022

STACK MONITORING DATA

Name of the Industry: **M/s. SHYAM FERROUS LIMITED,**
(Re-Heating Furnace Division)
Address : Sy. No. 67/2, Devarapalli (V),
Hindupur, Anantapur (Dist).

Sample Particulars : Stack attached to the Re-Heating Furnace
Date of sampling : 15-02-2022
Time of monitoring : 10:45 a.m.

1. Stack diameter (m) : 0.90
2. Stack cross sectional area (sq m) : 0.635
3. Flue gas temperature ($^{\circ}$ C) : 138
4. Exit velocity of flue gases (m/sec) : 6.74
5. Flow rate (cum/hr) : 15,408

EMISSION DATA

		Limits	Method Used
6. Suspended particulate matter Concentration (mg/N m^3)	: 39	115	IS: 11255 (Part-I), 1985 (RA-2019)
7. Sulphur dioxide Concentration (mg/N m^3)	: 65	---	IS: 11255 (Part-II), 1985 (RA-2019)
8. Oxides of nitrogen Concentration (mg/N m^3)	: 41	---	IS: 11255 (P-7), 2005 (RA-2017)

Note: All the values are within the limits prescribed by APPCB.
Stack Kit Model/SL/No:SEA-90/000908, Next Calibration on: 08-04-2022

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ANNEXURE IV

AMBIENT AIR QUALITY REPORTS



ISO 9001:2015
ISO 45001:2018

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

Accredited by :



REF.NO:GEL/SFL/138/AAQ/2022-013

Date:22-02-2022

AMBIENT AIR QUALITY DATA

Name of the Industry : **M/s. SHYAM FERROUS LIMITED**
Address : Sy. No. 67/2, Devarapalli (V),
Hindupur, Anantapur district.

Sl. No.	Location	Near Main Gate	Near Furnance	Near Stores	Limits	Protocol
1	Date of Sampling	: 15-02-2022	15-02-2022	15-02-2022	---	---
2	Total time of Monitoring	: 24 Hrs.	24 Hrs.	24 Hrs.	---	---
3	Particulate Matter Concentration PM ₁₀ (µg/m ³)	: 52	71	46	100	IS: 5182 Part 23- 2006 (RA-2017)
4	Sulphur Dioxide Concentration (µg/m ³)	: 07	23	10	80	IS: 5182 Part 2- 2001 (RA-2017)
5	Oxides of Nitrogen Concentration (µg/m ³)	: 13	16	14	80	IS: 5182 Part 6- 2006 (RA-2017)
6	Particulate Matter Concentration PM _{2.5} (µg/m ³)	: 30	34	28	60	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 250 (Sl. No. 48-DTL-2011), Next Calibration due on 03/12/2022

Fine Particulate Sampler Model APM 250 (Sl. No. 49-DTA-2011), Next Calibration due on 03/12/2022

Fine Particulate Sampler Model APM 550 (Sl. No. 288-DTE-2010), Next Calibration due on 23/07/2022

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

Respirable Dust Sampler Model RDS 9000 (Sl. No. 070701), Next Calibration due on 08/04/2022

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

Accredited by :



REF.NO:GEL/SFL/138/AAQ/2022-010

Date: 21-02-2022

AMBIENT AIR QUALITY DATA

Name of the Industry : **M/s. SHYAM FERROUS LIMITED, (Re-Heating Furnace Division)**
Address : Sy. No. 67/2, Devarapalli (V),
Hindupur, Anantapur (District)

Sl. No.	Location	Near Rolling Mill	Near Lab	Near Stores	Limits	Protocol
1	Date of Sampling	: 15-02-2022	15-02-2022	15-02-2022	---	---
2	Total time of Monitoring	: 24 Hrs.	24 Hrs.	24 Hrs.	---	---
3	Particulate Matter Concentration PM ₁₀ (µg/m ³)	: 70	53	51	100	IS: 5182 Part 23-2006 (RA-2017)
4	Sulphur Dioxide Concentration (µg/m ³)	: 21	15	09	80	IS: 5182 Part 2-2001 (RA-2017)
5	Oxides of Nitrogen Concentration (µg/m ³)	: 15	11	13	80	IS: 5182 Part 6-2006 (RA-2017)
6	Particulate Matter Concentration PM _{2.5} (µg/m ³)	: 36	32	29	60	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. 448-DTE-2010), Next Calibration due on 23/07/2022

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

Respirable Dust Sampler Model RDS 9000 (Sl. No. 000607), Next Calibration due on 08/04/2022

Respirable Dust Sampler Model RDS 9000 (Sl. No. 051261), Next Calibration due on 08/04/2022

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

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Accredited by :



REF.NO:GEL/SFL/138/AAQ/2021-009

Date:03-12-2021

AMBIENT AIR QUALITY DATA

Name of the Industry : **M/s. SHYAM FERROUS LIMITED**
Address : Sy. No. 67/2, Devarapalli (V),
Hindupur, Anantapur district.

Sl. No.	Location	Near Main Gate	Near Furnance	Near Stores	Limits	Protocol
1	Date of Sampling	: 28-11-2021	28-11-2021	28-11-2021	---	---
	Total time of Monitoring	: 24 Hrs.	24 Hrs.	24 Hrs.	---	---
3	Particulate Matter Concentration PM ₁₀ (µg/m ³)	: 56	67	47	100	IS: 5182 Part 23- 2006 (RA-2017)
4	Sulphur Dioxide Concentration (µg/m ³)	: 08	18	06	80	IS: 5182 Part 2- 2001 (RA-2017)
5	Oxides of Nitrogen Concentration (µg/m ³)	: 12	15	10	80	IS: 5182 Part 6- 2006 (RA-2017)
6	Particulate Matter Concentration PM _{2.5} (µg/m ³)	: 31	35	27	60	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 250 (Sl. No. 48-DTL-2011), Next Calibration due on 04/12/2021

Fine Particulate Sampler Model APM 250 (Sl. No. 49-DTA-2011), Next Calibration due on 04/12/2021

Fine Particulate Sampler Model APM 550 (Sl. No. 288-DTE-2010), Next Calibration due on 23/07/2022

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

Respirable Dust Sampler Model RDS 9000 (Sl. No. 070701), Next Calibration due on 08/04/2022

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ANNEXURE V

NOISE MONITORING REPORTS

REF.NO:GEL/SFL/138/NQD/2022-016

Date:22-02-2022

AMBIENT NOISE QUALITY DATA

Name of the Industry : **M/s. SHYAM FERROUS LIMITED,**
Address : Sy. No. 67/2, Devarapalli (V),
Hindupur, Anantapur district.

Date of Monitoring: 15-02-2022

Location	Noise Levels in dB (A)	
	Day Time (1)	Night Time (2)
1. Near Main Gate	63	58
2. Near Office	54	51
3. Near Scrubber	67	63
4. Near Electric Panel Room	71	68

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

- Note: 1. Day Time is reckoned in between 6 a.m and 10 p.m
2. Night time is reckoned in between 10 p.m and 6 a.m
3. APCCB Limit for Noise Levels at Daytime is 75 dB (A) & Nighttime is 70 dB (A)
Noise Level Meter Model SL-4010 (Sl. No. Q632540), Next Calibration on: 21-09-2022

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REF.NO:GEL/SFL/138/NQD/2022-012

Date :21-02-2022

AMBIENT NOISE QUALITY DATA

Name of the Industry: **M/s. SHYAM FERROUS LIMITED,**
(Re-Heating Furnace Division)

Address : Sy. No. 67/2, Devarapalli (V),
Hindupur, Anantapur district.

Date of Monitoring: 15-02-2022

Location	Noise Levels in dB (A)	
	Day Time (1)	Night Time (2)
1. Near Main Gate	65	59
2. Near Stores	62	58
3. Near Furnace	73	69
4. Near Laboratory	56	52

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

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

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

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

Noise Level Meter Model SL-4010 (Sl. No. Q671894), Next Calibration on: 21-09-2022

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ANNEXURE VI

GREEN BELT PHOTOGRAPHS

Green belt Photographs

