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Date:31.01.2024

To
The Environmental Engineer,
A.P. Pollution Control Board,
Regional Office,
Vizianagaram.

Sir,

Sub: Submission of EC, CFE & CFO Half yearly compliance report certified by NABL Accredited 3rd party for the period of 01st July 2023 to 31st December 2023 as on January 2024- Reg

Ref: 1) EC File No: J-11011/164/2009-IA.II(I), Date: 27.05.2022

2) CFE Order No: 200/APPCB/CFE/RO-VZM/HO/2018, Date: 13.08.2022

2) CFO Order No: APPCB/VSP/VZN/200/CTO/HO/2013- Date: 28.04.2023 valid up to 31.05.2026.

With reference to the above subject, we M/s. Sarda Metals & Alloys Ltd., APIIC, Industrial Area, Kantakapalli (V), Kothavalasa (M), Vizianagaram District, Andhra Pradesh hereby submitting certified Half yearly compliance report of Environmental Clearance Order form MoEF, Consent for Establishment Order (CFE) & Renewal of Consent to Operate & Authorization Order (CTO) obtained from AP Pollution Control Board respectively vide ref (1), (2) & (3) cited above prepared by NABL accredited Laboratory M/s. SV Enviro Labs & Consultants, Visakhapatnam for the period of 01st July 2023 to 31st December 2023 (as on January 2024) uploaded in APPCB website.

Thanks and Regards,
For M/s. Sarda Metals & Alloys Ltd.,

Authorized Signatory



SIX MONTHLY COMPLIANCE

ENVIRONMENTAL CLEARANCE COMPLIANCE REPORT

01st July'2023 to 31st December'2023

For
INDUSTRY

**M/s. SARDA METALS & ALLOYS LTD.,
APIIC, INDUSTRIAL AREA KANTAKAPALLI(V),
KOTHAVALASA(M), VIZIANAGARAM DISTRICT**



Prepared By

SV ENVIRO LABS & CONSULTANTS

Environmental Engineers & Consultants in Pollution Control

H.O: Enviro House, Block-B, B-1, IDA, Autonagar,
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Recognized by MoE&F and NABL



M/s. SARDA METALS & ALLOYS LIMITED (EXPANSION)
CERTIFIED COMPLIANCE OF ENVIRONMENTAL CLEARANCE

F.NO. J-11011/164/2009-IA.II (I), DATE: 27.05.2022

FOR THE PERIOD OF 01ST JULY 2023 TO 31ST DECEMBER 2023

AS ON JANUARY 2024

| S. No. | CONDITIONS | COMPLIANCES | | | | | | | | | | | | | | | |
|--|--|--|-------------------|---|----------------------|--------------|---|--------------------------------------|--------------------|---|---|--|---|-------------|---------------------------------|---|-------------|
| A. SPECIFIC CONDITIONS: | | | | | | | | | | | | | | | | | |
| i. | Three tier Green Belt shall be developed in 33% of total project area by August, 2022 with native species all along the periphery of the project site of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. Compliance status in this regard, shall be submitted to concern Regional Office of the MoEF&CC | <p>SMAL has developed green belt of 33% i.e., 93.23 acres as per MoEF&CC guidelines. 30000 trees were planted in the plant. As advised by the committee, SMAL will undertake the planting of additional trees to comply with the norm of 2500 trees per Hectare. The details are given below:</p> <table border="1"> <tr> <td>Area of Greenbelt</td><td>:</td><td>93.23 Acres/37.72 Ha</td></tr> <tr> <td>Tree Density</td><td>:</td><td>2500 trees / Ha. Or 1012 trees/ Acre</td></tr> <tr> <td>Width of Greenbelt</td><td>:</td><td>15m all along the periphery of the plant boundary</td></tr> <tr> <td>Required No. of Saplings to be planted</td><td>:</td><td>94311 trees</td></tr> <tr> <td>Number of trees already Planted</td><td>:</td><td>47000 trees</td></tr> </table> <p>Plantation will be done phase-wise and the status of the same will be submitted to RO, MoEF & CC.</p> | Area of Greenbelt | : | 93.23 Acres/37.72 Ha | Tree Density | : | 2500 trees / Ha. Or 1012 trees/ Acre | Width of Greenbelt | : | 15m all along the periphery of the plant boundary | Required No. of Saplings to be planted | : | 94311 trees | Number of trees already Planted | : | 47000 trees |
| Area of Greenbelt | : | 93.23 Acres/37.72 Ha | | | | | | | | | | | | | | | |
| Tree Density | : | 2500 trees / Ha. Or 1012 trees/ Acre | | | | | | | | | | | | | | | |
| Width of Greenbelt | : | 15m all along the periphery of the plant boundary | | | | | | | | | | | | | | | |
| Required No. of Saplings to be planted | : | 94311 trees | | | | | | | | | | | | | | | |
| Number of trees already Planted | : | 47000 trees | | | | | | | | | | | | | | | |
| ii. | Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from the exposed soil surface. | Noted for compliance and being followed. | | | | | | | | | | | | | | | |
| iii. | Following additional arrangements to control fugitive dust shall be provided. | | | | | | | | | | | | | | | | |

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| | <p>a. Fog / Mist Sprinklers at all conveyors point and on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas.</p> <p>b. Proper covered vehicle shall be used while transport of materials.</p> <p>c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.</p> | <p>a. Noted. Fog / Mist Sprinklers provided at applicable areas at conveyors points and on bulk raw material storage areas (at the transfer points) like Iron Ore, Coal and for Fly Ash, and similar solid waste storage areas. Annexure-1.</p> <p>b. Noted and Being followed and for your reference attached in Annexure-2.</p> <p>c. Noted. The tyre washing facility is provided.</p> |
| iv. | All internal roads and connecting roads from the project site to the main highway shall be developed and maintained with suitable Million Axle Standard (MSA) as per the traffic load due to the existing and proposed project. | Noted and Being followed and for your reference attached in Annexure-3. |
| v. | Performance tests shall be conducted on all pollution control systems every year and a report shall be submitted to the Regional Office of the MoEF&CC. | Noted and being followed. |
| vi. | Particulate matter emission from stacks shall be less than 30 mg/Nm ³ . | Complied. Continuous monitoring data is synchronized to APPCB & CPCB servers respectively. The data is uploading to APPCB server URL: http://aprtcms.ap.gov.in . & CPCB http://rtdms.cpcb.gov.in-status . |
| vii. | Submerged Arc Furnace shall be equipped with the fourth hole fume extraction system. | Noted and the Fume extraction system is provided as guided. Annexure-4. |
| viii. | 100% slag generated from the process shall be utilized. Compliance status in this regard shall be submitted to the Regional Office of the MoEF&CC. | Noted and slag being disposed as guided APPCB. compliance status being submitted to R.O, MoEF. |
| ix. | PP shall do 3-tier green belt along the perimeter boundary of the project, surrounding coal dumping and raw material yard, besides block plantation within the project area. | Noted and industry started developing green belt as guided. Completion will be done in phased manner. Annexure-5. |
| x. | PP shall improve the Housekeeping of the project premises with best standards. | SMAL continuously strives to maintain housekeeping by using 5S and TPM |

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| | | practices which are internationally followed. |
| xi. | 10 numbers of truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere and the black dust on the nearby Mango orchards of the villagers. | 10 numbers of truck-mounted Fog/Mist water cannons will be provided in phase-wise and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere and the black dust on the nearby Mango orchards of the villagers. Phase-1:1Nos, Phase-2:2 Nos, Phase3:7Nos |
| xii. | Mechanical road sweeping shall be done in the surrounding villages also periodically. | Noted for compliance and being followed. Earlier industry is using three manual machines of three numbers which were ineffective. Industry purchased One high capacity jumbo sweeping machine for road sweeping. Annexure-6. |
| xiii. | Project proponent shall follow safeguards to control the exposure of silica dust and some formaldehyde exposures arising out during production of mineral fibers. Compliance status in this regard, shall be submitted to concern Regional Office of the MoEF&CC. | Not applicable at this stage as Industry still has not established mineral fiber plant. |
| GENERAL CONDITIONS: | | |
| I. Statutory Compliance: | | |
| i. | The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., Required to be obtained or standards/conditions to be followed under any other Acts / Rules / Subordinate legislation, etc., as may be applicable to the project. | Noted for compliance. |
| II. Air quality monitoring and preservation | | |
| i. | The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack | Noted for compliance. SMAL has been provided online stack monitoring system and CAAQM systems for |

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| | emission as well as two Continuous Ambient Air Quality Station (CAAQS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specifications through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories. | existing plants. The same will be implemented for the proposed project. Periodic Calibration of the same will be carried out as per the condition. OCEMS data is synchronized to APPCB & CPCB servers respectively. The data is uploading to APPCB serverURL: http://aprtpps.ap.gov.in . & CPCB http://rtdms.cpcb.gov.in-status |
| ii. | The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories. | Noted and being followed. Annexure-7 |
| iii. | Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards. | Noted for compliance. SMAL has provided Bag house at FAD and ESP at the power plant. Dust extraction systems have been provided at transverse points and dust suppression systems at conveyors. Same systems will be implemented for proposed plants. Annexure-8 |
| iv. | The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags. | Noted for compliance. Differential pressure system being implemented for the existing plant. Same systems will be implemented for proposed plants. |
| v. | Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting / agglomeration. | Noted and ore fines, coal and coke fines and such other fines collected in the pollution control devices and vacuum cleaning devices are being reused in the process after briquetting. |
| vi. | The project proponent shall ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation. | Noted and all the vehicles are covered during transportation of coal and other material. |

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| vii. | The project proponent shall provide primary and secondary fume extraction system at all melting furnaces. | Noted and provided primary and secondary fume extraction system at all melting furnaces. Same will be followed during expansion. |
| viii. | Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars. | Noted and provided in the applicable areas. Annexure-9 |
| III. Water quality monitoring and preservation | | |
| i. | The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 (G.S.R 414 (E) dated 30th May 2008; G.S.R 277 (E) dated 31st March 2012 (applicable to IF/EAF) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories. | Complied. Continuous effluent monitoring data is synchronized to APPCB & CPCB servers respectively. The data is uploading to APPCB server URL: http://aprtpps.ap.gov.in . & CPCB http://rtdms.cpcb.gov.in-status |
| ii. | The project proponent shall monitor regularly groundwater quality at least twice a year (preand post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories | Noted for compliance SMAL has installed Piezometer and groundwater is being tested once in a quarter. Accordingly manual monitoring with NABL accredited laboratory M/s. S.V. Enviro Labs and we care under the specified limits and reports attached in Annexure-10 . |
| iii. | Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards | Noted and provided for treatment of domestic wastewater to meet the prescribed standards. Annexure-11 |
| iv. | The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R 277 (E) 31st March 2012 (applicable to IF/EAF) as amended from time to time | Noted and will be provided after installing rolling mills. |
| v. | Garland drains and collection pits shall be provided for each stock pile to arrest the | Noted and provided garland drains at applicable areas Annexure-12 |

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| | run-off in the event of heavy rains and to check the water pollution due to surface run off. | |
| vi. | Tyre washing facilities shall be provided at the entrance/exit of the plant gates. | Noted. The tyre washing facility was provided and it is working condition. |
| IV. Noise monitoring and prevention | | |
| i. | Noise quality shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report. | Complied. Accordingly manual monitoring with NABL accredited laboratory M/s. S.V. Enviro Labs and we care under the specified limits and reports attached in Annexure-13 |
| V. Energy Conservation measures | | |
| i. | Energy conservation measures may be adopted such as adoption of solar energy and provision of LED lights etc., to minimize the energy consumption. | Noted and SMAL already provided LED lights in the existing plane and the same practices will be followed for new plants. SMAL will explore the possibilities of energy conservation measures by adopting solar energy systems at applicable areas, to minimize the energy consumption. |
| VI. Waste management | | |
| i. | Used refractories shall be recycled. | Noted and being followed |
| ii. | Kitchen waste shall be composted or converted to biogas for further use. | Noted. Biogas system provided and kitchen waste being composted in the same. Generated bio-gas is being used in the kitchen for cooking image attached in Annexure-14 |
| VII. Green Belt | | |
| i. | The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation. | Noted for compliance. SMAL will prepare GHG emissions inventory for the plant and will submit the program for reduction of the same including carbon sequestration including plantation. |
| ii. | The project proponent shall submit a study report on the De-carbonization program, which balances, carbon sequestration activities and carbon capture, use and storage, and offsetting strategies. Further, the report shall also contain time-bound action plan to reduce the carbon intensity of its operations and supply chains, energy transition pathway | Noted and a study report on Decarbonization program and time-bound action plan will be submitted for the same. TCD-31.03.2024 |

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| | from fossil fuels to Renewable energy, etc. All these activities / assessments should be measurable and monitor able with defined time frames. | |
| VIII. Public hearing and Human health issues | | |
| i. | Emergency preparedness plan based on the Hazard Identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented. | Noted and HIRA and DMP will be submitted during the project phase. |
| ii. | The project proponent shall carry out heat stress analysis for the workmen who work in the high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of the Factory Act. | Noted and an industrial hygiene survey was conducted to assess workplace exposure of workmen. Action was taken as per guidelines. |
| iii. | Occupational health surveillance of the workers shall be done on a regular basis and records maintained. | Noted and being followed. Annual medical tests being carried out for the workers and reports attached in Annexure-15 . |
| IX. Environment Management | | |
| i. | The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt Kantakapalli, Katakapalli, Kotturu, Patta Sunkarapalem, Kotha Sunkarapalem, Gollapeta, Chinnaraopalli, Baligattam, Chiinipalem, Sambayyapalem, Appannapalem and Nimmalapalem villages based on the socioeconomic survey and undertake community development activities in consultation with the village Panchayat and the District Administration as committed. | Noted for compliance and SMAL will undertake community development activities in consultation with the village Panchayat and the District Administration in phasewise. |
| ii. | The company shall have a well-laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe standard operating procedures to have proper checks and balances and to bring into focus any infringements / deviation / | Noted for compliance. |

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| | violations of the environmental / forest / wildlife norms / Conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stakeholders. A copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of the six-monthly report. | |
| iii. | A separate Environmental Cell both at the project and company headquarter level, with qualified personnel shall be set up under the control of a senior Executive, who will directly to the head of the organization. | This condition has complied. AGM-EHS and AM (Env't). AGM-EHS directly reports to the Head of the organization. |
| X. Miscellaneous | | |
| i. | The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local news papers of the District or State, of which one shall be in the vernacular language within seven days and in addition, this shall also be displayed in the project proponent's website permanently. | Noted. Industry made public the environmental clearance granted in two local newspapers of the District of which one is in the vernacular language Annexure-16 . |
| ii. | The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt. | Noted. The copies of the environmental clearance has submitted to the Heads of local bodies, Panchayats, and Municipal Bodies in addition to the relevant offices of the Government. |
| iii. | The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis. | Noted and being followed. Last submitted on 06.12.2023. |

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| iv. | The project proponent shall monitor the criteria pollutants level namely; PM ₁₀ , SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company. | Noted and provided display board at the main gate. Annexure-17. |
| v. | The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal. | Noted and being followed as per the condition. |
| vi. | The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company. | Noted and followed as per condition and Acknowledgement attached for your reference in Annexure-18. |
| vii. | The project proponent 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, commencing the land development work and start of production operation by the project. | Noted and will be followed as per the condition. |
| viii. | The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee. | Noted as SMAL will abide by the condition as committed. |
| ix. | No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC). | Noted and will ensure the same. |

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| x. | Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986. | Noted. |
| xi. | The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory. | Noted |
| xii. | The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions. | Noted and SMAL will implement applicable conditions in time-bound manner during the project phase. |
| xiii. | The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports. | Noted |
| xiv. | Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010. | Noted. |



Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

To,

The Deputy Managing Director

M/s Sarda Metals & Alloys Limited

Sy. No. 179 to 203 APIIC Industrial Park Kantakapalli Village Kothavalasa
Mandal Vizianagaram Distri, Sy. No. 179 to 203 APIIC Industrial Park
Kantakapalli Village Kothavalasa Mandal Vizianagaram
Distri, Vizianagaram, Andhra Pradesh-535240

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity
under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC)
in respect of project submitted to the Ministry vide proposal number
IA/AP/IND/260192/2017 dated 17 Mar 2022. The particulars of the environmental
clearance granted to the project are as below.

- | | |
|---|---|
| 1. EC Identification No. | EC22A008AP140455 |
| 2. File No. | J-11011/164/2009-IA.II(I) |
| 3. Project Type | Expansion |
| 4. Category | A |
| 5. Project/Activity including Schedule No. | 3(a) Metallurgical industries (ferrous & non ferrous) |
| 6. Name of Project | Expansion of Ferro Alloy Plant, Captive Power Plant and Installation of Steel Melting Shop, Mineral Fibre Plant By Sarda Metals Alloys Ltd |
| 7. Name of Company/Organization | M/s Sarda Metals & Alloys Limited |
| 8. Location of Project | Andhra Pradesh |
| 9. TOR Date | 27 Nov 2017 |

The project details along with terms and conditions are appended herewith from page
no 2 onwards.

Date: 27/05/2022

(e-signed)
Dr. R. B. Lal
Scientist E
IA - (Industrial Projects - 1 sector)

*Note: A valid environmental clearance shall be one that has EC identification
number & E-Sign generated from PARIVESH. Please quote identification
number in all future correspondence.*

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F. No. J-11011/164/2009-IA.II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(I.A. Division – Industry I sector)

Indira Paryavaran Bhawan
Jor Bagh Road, Aliganj,
New Delhi – 110003

Dated: 27th May, 2022

To,

M/s. Sarda Metals & Alloys Limited,
Sy. No. 179 to 203 APIIC Industrial Park
Kantakapalli Village Kothavalasa Mandal
Vizianagaram Distri, Sy. No. 179 to 203
Dist. Kothavalasa, Vizianagaram, Andhra Pradesh-535240,
Email: ehs@smal.co.in

Subject: Expansion of Ferro Alloy Plant, Captive Power Plant and Installation of Steel Melting Shop, Mineral Fibre Plant by M/s. Sarda Metals & Alloys Limited located at APIIC Industrial Park, Kantakapalli Village, Kothavalasa Mandal, Vizianagaram District, Andhra Pradesh [Online Proposal No. IA/AP/IND/260192/2017, File No. J-11011/164/2009- IA.II(I)] –Environment Clearance – regarding.

Sir,

This refers to your proposal no. **IA/AP/IND/260192/2017** dated 17th March 2022 received through PARIVESH Portal for grant of **Environmental Clearance (EC)** for the project mentioned above.

- As per the provisions of the Environment Impact Assessment (EIA) Notification, 2006, the above-mentioned project/activity is covered under category 'A' of item **3(a) Metallurgical industries (ferrous & non-ferrous) and 1(d) Thermal Power Plants**, and appraised at **Central level**.
- The details of Implementation status of the existing EC are as under:

| S. No. | Facilities | EC dated 26/11/2009 | EC Amended on 04/05/2010 | EC Amended on 02/07/2018 | Implementation Status as on 17/03/2021 | Production as per CTO |
|--------|----------------------|---|--|--------------------------------|--|-------------------------|
| 1. | Ferro Alloys * | 2x33 MVA (1,50,000 TPA) | No change | 3x33 MVA (1,50,000 TPA) | 2x33 MVA 1,00,000 Implemented | 2x33 MVA (1,00,000 TPA) |
| 2. | Sinter Plant | 1x24m² (1,25,000 TPA) | No change | No change | Not Implemented | |
| 3. | Thermal Power Plant | 4x60 (240 MW) | Configuration change as 3x80 (240 MW) | No change | 1x80 MW Implemented | 1x80 MW |
| 4. | Coke Oven with Stamp | 4,00,000 TPA | No change | Drop the facility | Not Implemented | -- |

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|--|-------------------------|--|-----------|-------------------------|--------------------------|--------------|
| | Charging | | | | | |
| 5. | Sponge Iron Plant | 2x500 TPD (3,00,000 TPA) | No change | No change | Not Implemented | -- |
| 6. | Blast Furnace | 1x350 m ³ (2,50,000 TPA) | No change | No change | Not Implemented | -- |
| 7. | SMS | | | | | |
| 7a | Induction Furnace | 5x15 T (2,50,000 TPA) | No change | 4x22T (3,50,000 TPA) | Not Implemented | -- |
| 7b | ARC Furnace | 1x40 T (2,50,000 TPA) | No change | Drop the facility | -- | -- |
| 8. | Rolling Mills | 4,50,000 TPA | No change | 3,50,000 TPA | Not Implemented | -- |
| 9. | Iron Ore Crushing Plant | 6,00,000 TPA | No change | Drop the facility | -- | -- |
| 10. | Pellet Plant | 6,00,000 TPA | No change | No change | Not Implemented | -- |
| 11. | Railway Siding | -- | No change | No change | Not Implemented | -- |
| 12. | Briquetting Plant** | -- | -- | -- | 1,05,000 TPA Implemented | 1,05,000 TPA |
| <p><i>Note:</i></p> <p>* As per CFO dated 19/10/2021 PP shall manufacture only Ferro Silicon, Ferro Manganese & Silico Manganese only.</p> <p>**Briquetting Plant does not require the Environmental Clearance and is now categorized as Green Category as per CPCB guidelines. Hence, CFE dated 10/08/2021 for the Briquetting Plant of capacity 1,05,000 TPA was obtained by PP.</p> | | | | | | |

4. The above-mentioned proposal was considered in 4th **meeting of Re-constituted Expert Appraisal Committee (Industry 1 Sector) held on 27th -28th April 2022.** The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed at <https://parivesh.nic.in>.
5. The details of the proposal are as per the EIA/EMP report submitted by the proponent. The salient features of the proposal as presented during the above-mentioned meetings of EAC (Industry 1 Sector) are as under: -

| S No | Particulars | Details | | | | | | | | | | | | | | | |
|------|--|--|------|----------|-----------|---|---------------|--------------|---|---------------|---------------|---|---------------|---------------|---|---------------|---------------|
| a. | Terms of Reference for undertaking EIA study | 22/04/2020 | | | | | | | | | | | | | | | |
| b. | Period of baseline data collection | December, 2020 to February, 2021 | | | | | | | | | | | | | | | |
| c. | Date of Public Consultation | 10/12/2021 | | | | | | | | | | | | | | | |
| d. | Action plan to address the PH issues | Attached as Annexure 1 | | | | | | | | | | | | | | | |
| e. | Location of the project | Kantakapalli Village, Kothavalasa Mandal, Vizianagaram District, Andhra Pradesh. | | | | | | | | | | | | | | | |
| f. | Latitude and Longitude of the project site | <table> <tr> <th>S No</th><th>Latitude</th><th>Longitude</th></tr> <tr> <td>A</td><td>17°56'47.70"N</td><td>83°13'4.60"E</td></tr> <tr> <td>B</td><td>17°56'12.89"N</td><td>83°13'31.44"E</td></tr> <tr> <td>C</td><td>17°56'39.92"N</td><td>83°12'46.32"E</td></tr> <tr> <td>D</td><td>17°56'31.16"N</td><td>83°13'47.88"E</td></tr> </table> | S No | Latitude | Longitude | A | 17°56'47.70"N | 83°13'4.60"E | B | 17°56'12.89"N | 83°13'31.44"E | C | 17°56'39.92"N | 83°12'46.32"E | D | 17°56'31.16"N | 83°13'47.88"E |
| S No | Latitude | Longitude | | | | | | | | | | | | | | | |
| A | 17°56'47.70"N | 83°13'4.60"E | | | | | | | | | | | | | | | |
| B | 17°56'12.89"N | 83°13'31.44"E | | | | | | | | | | | | | | | |
| C | 17°56'39.92"N | 83°12'46.32"E | | | | | | | | | | | | | | | |
| D | 17°56'31.16"N | 83°13'47.88"E | | | | | | | | | | | | | | | |

| S No | Particulars | Details | | | |
|-------------|--|---|---------------------------------|-----------|-------------------------|
| g. | Total land | 113.7 ha (280.96 acres) [Private land: 113.7 ha] | | | |
| | | S No | DETAILS | Existing | Total (After Expansion) |
| | | 01 | Process Area | 32.69 | 117.91 |
| | | 02 | Common utility area | 21.43 | 21.43 |
| | | 03 | Green Belt | | |
| | | | a. Developed Greenbelt | 93.23 | 93.23 |
| | | | b. Proposed Miyawaki Plantation | - | 1.12 |
| | | 04 | Vacant Land | 133.61 | 47.27 |
| | Total Area | 280.96 | 280.96 | | |
| h. | Land acquisition details as per MoEF&CC O.M. dated 7/10/2014 | Expansion project is proposed within existing project area of 113.7 ha. Total land of 113.7 ha is owned by project proponent. No additional land is required for the expansion project. | | | |
| i. | Existence of habitation & involvement of R&R, if any | Plant Site: NIL | | | |
| | | Study Area: | | | |
| | | Habitation | Distance | Direction | |
| | | Kantakapalli Village | 0.46 km | North | |
| | | Katakapalli Village | 1.0km | NNE | |
| Kothavalasa | 0.70 km | NNW | | | |
| j. | Elevation of the project site | 102 m above mean sea level | | | |
| k. | Involvement of Forest land if any. | Nil | | | |
| l. | Water body exists within the project site as well as study area | Project site: Nil. | | | |
| | | Study area: | | | |
| | | Water Body | Distance | Direction | |
| | | Pond | 0.27 km | West | |
| | | Pedda Gedda | 5.55 km | SE | |
| | | Meghadri Gedda | 3.45 km | SW | |
| Vagu (Nala) | 7.1 km | NE | | | |
| m. | Existence of ESZ / ESA / national park / wildlife Sanctuary / biosphere Reserve / tiger reserve / elephant reserve etc. if any within the study area | Nil. | | | |
| | | However, following Forests are located within study area: • Advanapalem RF – 1.3 km – SE Muchcherla RF - 7.2 km – ESE | | | |
| n. | Project cost | INR 1242 Crores | | | |
| o. | EMP cost | 17.194 Cr. | | | |
| p. | Employment opportunity | 2523 | | | |
| q. | Water and Power requirement | Water – 980 m3/day, Power – 54.30 MW | | | |

Unit configuration and capacity:

| S. No | Nam of the product | Units implemented as per EC dated 26/11/2009 and amended on 04/06/2016 & 02/07/2018 (A) | | Proposed expansion (B) | | Total (A+B) | |
|-------|--------------------|---|----------------|------------------------|----------------|----------------|----------------|
| | | | | | | | |
| | | Config-uration | Capacity (TPA) | Config-uration | Capacity (TPA) | Config-uration | Capacity (TPA) |
| 1. | Ferro Alloys | 2x33 MVA | 1,00,000 | Existing | 2,50,000 | 5x36 MVA | 2,50,000 |

| | | | | | | | |
|----|------------------------------|---------|----------|--|-----------------------|------------|----------|
| | | | | 2x33 MVA upgraded to 2x36 MVA and add new 3x36 MVA | | | |
| 2. | Captive Power Plant | 1x80 MW | 80 MW | 1x80 MW | 80 MW | 2x80 MW | 160 MW |
| 3. | Steel Melting Shop | -- | -- | IF: 4x22 T | 3,00,000 | IF: 4x22 T | 3,00,000 |
| 4. | Mineral Fiber Plant- 5 lines | -- | -- | -- | Add New unit 1,50,000 | -- | 1,50,000 |
| 5. | Briquetting Plant | -- | 1,05,000 | -- | -- | -- | 1,05,000 |

6. The Consent & Authorization Order(CAO) is accorded Andhra Pradesh Pollution Control Board (APPCB) vide consent Order No. APPCB/VSP/VZN/200/CFO/HO/2021- dated 19/10/2021. Validity of CAO is up to 31/05/2023.
7. The EAC, in its 4th meeting of Expert Appraisal Committee (Industry-1 Sector) held on 27-28th April, 2022, based on information and clarifications provided by the project proponent and after detailed deliberations **recommended** the proposal for grant of Environment Clearance subject to stipulation of specific and general conditions as detailed in the paragraph given below.
8. The MoEF&CC has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification, 2006 and further amendments thereto and after accepting the recommendations of the Expert Appraisal Committee (Industry-1) hereby decided to grant **Environment Clearance for instant proposal of M/s Sarda Metals & Alloys Limited under the provisions of EIA Notification, 2006** subject to the following specific conditions and general conditions:

A. Specific Conditions:

- i. Three tier Green Belt shall be developed in 33% of total project area by August, 2022 with native species all along the periphery of the project site of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. Compliance status in this regard, shall be submitted to concern Regional Office of the MoEF&CC.
- ii. Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.
- iii. Following additional arrangements to control fugitive dust shall be provided:
 - a. Fog / Mist Sprinklers at all conveyors point and on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas.
 - b. Proper covered vehicle shall be used while transport of materials.
 - c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.

- iv. All internal road and connecting road from project site to main highway shall be developed and maintained with suitable Million Axle Standard (MSA) as per the traffic load due to existing and proposed project.
- v. Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Regional Office of the MoEF&CC.
- vi. Particulate matter emission from stacks shall be less than 30 mg/Nm³.
- vii. Submerged Arc Furnace shall be equipped with the fourth hole fume extraction system.
- viii. 100 % slag generated from the process shall be utilized. Compliance status in this regard shall be submitted to the Regional Office of the MoEF&CC.
- ix. PP shall do 3-tier green belt along the perimeter boundary of the project, surrounding coal dumping and raw material yard, besides block plantation with in the project area.
- x. PP shall improve the Housekeeping of the project premises with best standards.
- xi. 10 numbers of truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere and the black dust on the nearby Mango orchards of the villagers.
- xii. Mechanical road sweeping shall be done in the surrounding villages also periodically.
- xiii. Project proponent shall follow safeguards to control the exposure of silica dust and some formaldehyde exposures arising out during production of mineral fibers. Compliance status in this regard, shall be submitted to concern Regional Office of the MoEF&CC.

A. General conditions

I. Statutory compliance:

- i. The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.

II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as two Continuous Ambient Air Quality Station (CAAQS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.

- iii. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
- iv. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
- v. Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/ agglomeration.
- vi. The project proponent shall ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation.
- vii. The project proponent shall provide primary and secondary fume extraction system at all melting furnaces.
- Viii Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.

III. Water quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 (G.S.R 414 (E) dated 30th May 2008; G.S.R 277 (E) dated 31st March 2012 (applicable to IF/EAF) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognised under Environment (Protection) Act, 1986 and NABL accredited laboratories.
- iii. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
- iv. The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R 277 (E) 31st March 2012 (applicable to IF/EAF) as amended from time to time.
- v. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.
- vi. Tyre washing facilities shall be provided at the entrance/exit of the plant gates.

IV. Noise monitoring and prevention

- i. Noise quality shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.

V. Energy Conservation measures

- i. Energy conservation measures may be adopted such as adoption of solar energy and provision of LED lights etc., to minimize the energy consumption.

VI. Waste management

- i. Used refractories shall be recycled.
- ii. Kitchen waste shall be composted or converted to biogas for further use.

VII. Green Belt

- i. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.
- ii. Project proponent shall submit a study report on De-carbonization program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames.

VIII. Public hearing and Human health issues

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- iii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

IX. Environment Management

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt Kantakapalli, Katakapalli, Kotturu, Patta Sunkarapalem, Kotha Sunkarapalem, Gollapeta, Chinnaraopalli, Baligattam, Chiinipalem, Sambayyapalem, Appannapalem and Nimmalapalem villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.
- ii. The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.

- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.

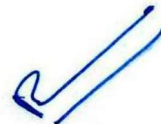
X. Miscellaneous

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM₁₀, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- v. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- vi. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vii. The project proponent 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, commencing the land development work and start of production operation by the project.
- viii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- ix. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- x. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xi. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

xiii. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.

xiv. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

8. This issues with the approval of the Competent Authority.



(Dr. R. B. Lal)

Scientist 'E'/Additional Director

Tel: 011-20819346

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Encl. as above at Annexure

Copy to: -

1. The Principal Secretary, Department of Environment, Forest, Science & Technology, Government of Andhra Pradesh, Hyderabad, Andhra Pradesh
2. The Additional Principal Chief Conservator of Forests (C), Aranya Bhavan, K.M. Munshi Road, Nagarampalem, Guntur-522 004, Andhra Pradesh.
3. The Member Secretary, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi – 32.
4. The Member Secretary, AP Pollution Control Board, Chalamalavaii Street, Kasturibaipet, Vijayawada - 520 010.
5. Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi, Delhi 110001
6. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi
7. District Collector, Nagaur, Rajasthan
8. Guard File/Monitoring File/ Parivesh Portal /Record File.



(Dr. R. B. Lal)

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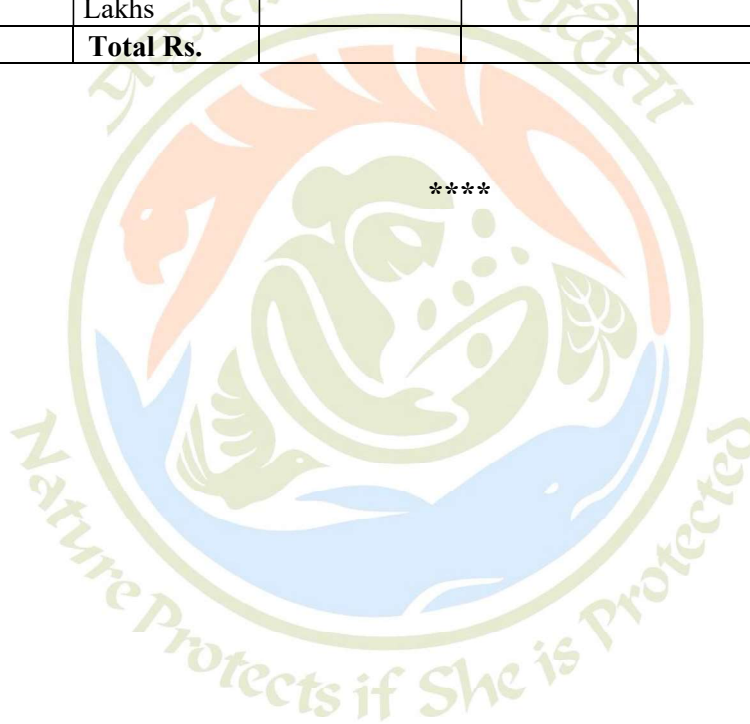
Annexure-1

| S. No | Activity | Year | | | Total (Rs Lakhs) | |
|-------|---|-----------------|---|------------------|------------------|--|
| | | 2022-23 | 2023-24 | 2024-25 | | |
| 1. | Land Related Issues | | | | | |
| c) | Compensation to the land losers | Physical Nos | Nil Already paid to APIIC. Any discrepancies to be brought to APIIC Notice for resolution | | | - |
| | | @Village | | | | - |
| | | Budget Rs Lakhs | | | | - |
| d) | Compensation to the farmers whose mango garden was disturbed during laying the power line through Kothasunkarapalem village | Physical Nos | An amount of Rs. 21,51,15032 /- has been paid to land owners on whose lands the towers were erected as stipulated by APTRANSCO. Those who have not received the compensation may approach SMAL for taking up the issue with APTRANSCO | | | - |
| | | @Village | | | | - |
| | | Budget Rs Lakhs | | | | - |
| 2. | Air Pollution Related issues | | | | | |
| c) | Impact on black dust pollution on mango and cashew plantation from the industry | Physical Nos | Nil | | | *Rs. 16877 lakhs earmarked towards air pollution control system and online monitoring systems as part of EMP |
| | | @Village | | | | |
| | | Budget Rs Lakhs | | | | |
| d) | Option to reduce coal consumption to meet COPS guideline for reducing CO2 emissions | Physical Nos | Implementation of WHRB within 3 years | | | Rs. 7500 Lakhs |
| | | @Village | Implementation of Roof top solar panels within 3 years | | | Rs. 10 Lakhs |
| | | Budget Rs Lakhs | | | | |
| 3. | Water Pollution Related issues | | | | | |
| c) | Water pollution to Marrigedda | Physical Nos | Nil | | | Rs. 20.0 Lakhs |
| | | @Village | SMAL will construct a sedimentation pit before monsoon to collect the runoff water. Analysis of the water will be carried out periodically. | | | |
| | | Budget Rs Lakhs | 20 | | | |
| d) | Impact of rainwater being discharged from the plant site and joining the narasapalli Tank. | | | | | |
| 4. | Greenbelt Development Related Issues | | | | | |
| c) | Avenue plantation on internal roads | Physical Nos | 1000-1500 Plants | 1000-1500 Plants | 1000-1500 Plants | Rs. 6.0 lakhs |

| | | | | | | |
|----|--|--|---|---------|--------------|---|
| | | @Village | Kantakapalli | Kotturu | Sunkarapalem | |
| | | Budget Rs Lakhs | 2.0 | 2.0 | 2.0 | |
| d) | Plantation of Fruit bearing and medicinal Plants | Physical Nos | Within the plant site as part of Greenbelt development program which includes Miyawaki Plantation | | | *Rs. 20 lakhs |
| | | @Village | 7 | 7 | 6 | |
| | | Budget Rs Lakhs | | | | |
| 5. | Employment related issues | | | | | |
| f) | Jobs to local and surrounding villages | Preference will be given to locals from the surrounding villages during the expansion phase also | | | - | |
| g) | 75 to 80 % employment should be given for locals | | | | | |
| h) | Provide the employment to the people who lost the land | | | | | |
| i) | Priority to local and unemployed youth | | | | | |
| j) | Preference to local people for petty contracts like earth works, civil works etc., | | | | | |
| 6. | Occupational safety related Issues | | | | | |
| c) | Monitoring the heat near furnace | Physical Nos | Conducting industrial hygiene test and provision of full body heat retardant suits | | | Rs. 15.0 Lakhs |
| | | @Village | Within the plant | | | |
| | | Budget Rs Lakhs | 5.0 | 5.0 | 5.0 | |
| d) | PPE to all the workers | Physical Nos | PPE to all workers is provided | | | Rs. 10.5 Lakhs |
| | | @Village | Nil | | | |
| | | Budget Rs Lakhs | 3.5 | 3.5 | 3.5 | |
| 7. | Rain water Harvesting Related Issues | | | | | |
| a) | Rainwater Harvesting | Physical Nos | Nil, Done with in the plant site | | | |
| | | @Village | | | | |
| | | Budget Rs Lakhs | 6.0 | | | |
| 8. | Compliance to Pollution Control Rules and Regulations Issues | | | | | |
| a) | Comply with emission standards and follow the rules and regulation of MoEFCC / APPCB | Physical Nos | Nil | | | Budget for implementation of pollution control equipment (EMP Budget) already provided to comply with MoEFCC / APPCB Rules and Regulations Issues |
| | | @Village | | | | |
| | | Budget Rs Lakhs | | | | |
| 9. | CSR Related Issues | | | | | |
| n) | Charging for RO water | Physical Nos | SMAL has implemented the RO Plants and the village panchayat is charging for maintaining the RO Plant | | | - |
| | | @Village | | | | |
| | | Budget Rs Lakhs | | | | |

| | | | | | | |
|----|---|-----------------|--|----------------|--------------|---|
| o) | Medical camps, Issue of Health Cards and supply of medicines | Physical Nos | 4 camps per village per year will be taken up | | | Rs. 30.0 Lakhs |
| | | @Village | Kantakapalli | Kotturu | Sunkurapalem | |
| | | Budget Rs Lakhs | 10 | 10 | 10 | |
| p) | CSR amount is not spent in the nearby villages | Physical Nos | District Collector has advised the govt. Officials to form a committee which will prioritize the needs of the villages and coordinate the implementation of CSR Budgets. | | | Rs. 200 Lakhs |
| | | @Village | | | | |
| | | Budget Rs Lakhs | SMAL has earmarked the budget of Rs. 200 lakhs for this purpose | | | |
| q) | CSR amount should be 5% of the net profit | Physical Nos | District Collector has advised the govt. Officials to form a committee which will prioritize the needs of the villages and coordinate the implementation of CSR Budgets. | | | |
| | | @Village | | | | |
| | | Budget Rs Lakhs | SMAL has earmarked the budget of Rs. 200 lakhs for this purpose | | | |
| r) | Formation of Coordination committee with Govt. officials, PCB Officials and Local Villagers | Physical Nos | District Collector has advised the govt. Officials to form a committee which will prioritize the needs of the villages and coordinate the implementation of CSR Budgets. | | | Rs. 1.0 lakhs per year |
| | | @Village | | | | |
| | | Budget Rs Lakhs | SMAL has earmarked the budget of Rs. 1.0 lakhs per year for this purpose | | | |
| s) | Construction of Hospital | Physical Nos | SMAL is regularly undertaking the health camps for the benefit of the local villagers. SMAL has started a polyclinic in which registered MBBS Doctor sits for alternate days to give free health check-up and consultancy. Company also provides free medicines to all the villages as prescribed by the doctor. SMAL is providing the ambulance service to transport in case of emergency to local Government hospital which located at Kothavalasa within 6kms. | | | Rs. 30.0 lakhs |
| | | @Village | | | | |
| | | Budget Rs Lakhs | 10.0 | 10.0 | 10.0 | |
| t) | Construction of burning shed in grave yard of Kantakapalli | Physical Nos | 1 Nos | | | Rs. 10 lakhs |
| | | @Village | Kantakapalli | | | |
| | | Budget Rs Lakhs | 10.0 | | | |
| u) | Construction of Community Hall | Physical Nos | This will be taken up in the District committee to be constituted by District collector. Since the land has to be identified by the village panchayat. | | | |
| | | @Village | | | | |
| | | Budget Rs Lakhs | CSR Budget | | | |
| v) | Construction of additional overhead tank in kantakapalli, Sunkurapalem | Physical Nos | SMAL has upgraded the transformer capacity by spending Rs 5.0 Lakhs to ensure that 24X7 water supply in the villages. However, this issue will be taken up by the committee to be constituted by District Collector. | | | |
| | | @Village | | | | |
| | | Budget Rs Lakhs | | | | |
| w) | Construction of RO plant in sambhayyapalem, sunkurapalem and supply RO | Physical Nos | 1 | 1 | 1 | Rs. 6.0 Lakhs Water Quality will be tested |
| | | @Village | Kotturu | Sambhayyapalem | Sunkurapalem | |
| | | Budget Rs | 2.0 | 2.0 | 2.0 | |

| | | | | | | |
|----|---|---|--|---------|--------------|---------------------|
| | water free of cost. | Lakhs | | | | |
| x) | Development of roads, nallas and other Infrastructure needs of the village under CSR activities | Physical Nos @Village Budget Rs Lakhs | This will be taken up in the District committee to be constituted by District collector. SMAL will provide the necessary budget from the CSR Funds | | | Rs. 200 Lakhs |
| y) | Skill Development Programs | Physical Nos @Village Budget Rs Lakhs | Tie up with local ITI or Polytechnical Colleges and sponsoring of students. | | | Rs. 30 Lakhs |
| | | | Kantakapalli | Kotturu | Sunkurapalem | |
| | | | 10.0 | 10.0 | 10.0 | |
| z) | Support to rural primary education for weaker sections | Physical Nos @Village Budget Rs Lakhs | Identification of Weaker section students and providing necessary education aids to ensure that they attend the school | | | Rs. 15 Lakhs |
| | | | Kantakapalli | Kotturu | Sunkurapalem | |
| | | | 5.0 | 5.0 | 5.0 | |
| | | Total Rs. | | | | 7883.5 Lakhs |



Validity unknown

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Scientist E
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ANNEXURE-1
WATER SPRINKLER SYSTEM

| | |
|--|--|
| <i>High Pressure Water Sprinkling System</i> | <i>Water sprinkling system for Haulage Road and Green Belt</i> |
|  A photograph showing a high-pressure water sprinkler system installed inside a large industrial building. A truck is parked on the left, and a large spray of water is being emitted from a nozzle, creating a misty atmosphere. |  A photograph showing a water sprinkling system installed along a dirt road and green belt. The system is spraying water onto the road and surrounding vegetation, creating a misty atmosphere. |
| <i>Inbuilt water sprinkler system for stacker at coal handling plant</i> | <i>Water Sprinkling System & Haulage Road Dust Suppression</i> |
|  A photograph showing an inbuilt water sprinkler system for a coal stacker. The system is spraying water onto the coal pile, creating a misty atmosphere. |  A photograph showing a water sprinkling system used for dust suppression on a haulage road. A tractor is driving on the road, and water is being sprayed from a nozzle, creating a misty atmosphere. |

ANNEXURE-2
MATERIAL TRANSPORTATION COVERED WITH TOURPALIN



Tyre Washing Facility at Main Gate

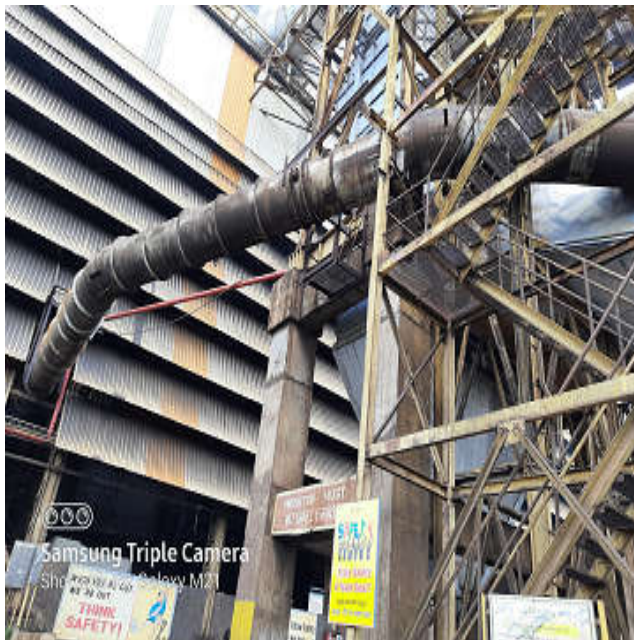


ANNEXURE-3
BITUMEN ROAD INSIDE PLANT

| <i>Project Office to Main Gate road</i> | <i>Project Office to Stores</i> |
|--|---|
|  |  |
| <i>Plant inside Connectivity Junction</i> | <i>Stores to Main gate</i> |
|  |  |

ANNEXURE-4

FUMES EXTRACTION SYSTEM



ANNEXURE-5

3 TIRE GREENBELT DEVELOPMENT-PLANT INSIDE



ANNEXURE-6
SWEEPING MACHINES



ANNEXURE-7
THIRD PARTY MONITORING REPORTS



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Ref: SVELC/SMAL/23-10/01

Date: 23-10-2023

NAME AND ADDRESS : **M/s. SARDA METALS AND ALLOYS LTD.,
VIZAG COMMON PURCHASING PLANT,
APIIC, Industrial Park, Kantakapalli,
Kothavalasa-535240,
Vizianagaram.**

SAMPLE PARTICULARS : **AMBIENT AIR QUALITY**

SOURCE OF COLLECTION : **NEAR SECURITY GATE**

DATE & TIME OF START : **13-10-2023 @ 10:00hr**

DURATION OF SAMPLING : **24 Hours**

ATMOSPHERE CONDITION : **Clear Sky**

TEST REPORT

| S.No | PARAMETER | UNIT | RESULT | NAAQ STANDARDS | METHOD |
|------|--|--------------------------|--------|----------------|--|
| 1. | Particulate Matter(Size<10 μ) or PM ₁₀ | $\mu\text{g}/\text{m}^3$ | 67.9 | 100 | IS:5182 (P-23) Gravimetric |
| 2. | Particulate Matter(Size<2.5 μ) or PM _{2.5} | $\mu\text{g}/\text{m}^3$ | 28.1 | 60 | IS:5182 (P-24) Gravimetric |
| 3. | Sulphur Dioxide – SO ₂ | $\mu\text{g}/\text{m}^3$ | 14.7 | 80 | IS:5182 (P-2) - West and Gaeke Method |
| 4. | Oxides of Nitrogen – NO _x | $\mu\text{g}/\text{m}^3$ | 13.4 | 80 | IS:5182(P-6) - Jacob & Hochheiser Method |


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Ref: SVELC/SMAL/23-10/02

Date: 23-10-2023

NAME AND ADDRESS : **M/s. SARDA METALS AND ALLOYS LTD.,
VIZAG COMMON PURCHASING PLANT,
APIIC, Industrial Park, Kantakapalli,
Kothavalasa-535240,
Vizianagaram.**

SAMPLE PARTICULARS : **AMBIENT AIR QUALITY**

SOURCE OF COLLECTION : **NEAR ADMIN BUILDING**

DATE & TIME OF START : **13-10-2023 @ 10:15hr**

DURATION OF SAMPLING : **24 Hours**

ATMOSPHERE CONDITION : **Clear Sky**

TEST REPORT

| S.No | PARAMETER | UNIT | RESULT | NAAQ STANDARDS | METHOD |
|------|--|--------------------------|--------|----------------|--|
| 1. | Particulate Matter(Size<10 μ) or PM ₁₀ | $\mu\text{g}/\text{m}^3$ | 60.2 | 100 | IS:5182 (P-23) Gravimetric |
| 2. | Particulate Matter(Size<2.5 μ) or PM _{2.5} | $\mu\text{g}/\text{m}^3$ | 25.6 | 60 | IS:5182 (P-24) Gravimetric |
| 3. | Sulphur Dioxide – SO ₂ | $\mu\text{g}/\text{m}^3$ | 15.8 | 80 | IS:5182 (P-2) - West and Gaeke Method |
| 4. | Oxides of Nitrogen – NO _x | $\mu\text{g}/\text{m}^3$ | 14.2 | 80 | IS:5182(P-6) - Jacob & Hochheiser Method |


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Ref: SVELC/SMAL/23-10/03

Date: 23-10-2023

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VIZAG COMMON PURCHASING PLANT,
APIIC, Industrial Park, Kantakapalli,
Kothavalasa-535240,
Vizianagaram.

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR DM PLANT

DATE & TIME OF START : 13-10-2023 @ 10:30hr

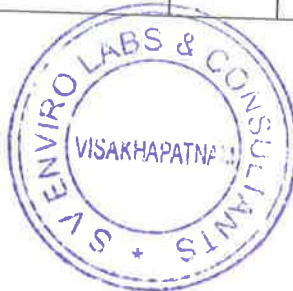
DURATION OF SAMPLING : 24 Hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

| S.No | PARAMETER | UNIT | RESULT | NAAQ STANDARDS | METHOD |
|------|--|--------------------------|--------|----------------|--|
| 1. | Particulate Matter(Size<10 μ) or PM ₁₀ | $\mu\text{g}/\text{m}^3$ | 65.1 | 100 | IS:5182 (P-23) Gravimetric |
| 2. | Particulate Matter(Size<2.5 μ) or PM _{2.5} | $\mu\text{g}/\text{m}^3$ | 27.5 | 60 | IS:5182 (P-24) Gravimetric |
| 3. | Sulphur Dioxide – SO ₂ | $\mu\text{g}/\text{m}^3$ | 13.7 | 80 | IS:5182 (P-2) - West and Gaeke Method |
| 4. | Oxides of Nitrogen – NO _x | $\mu\text{g}/\text{m}^3$ | 12.3 | 80 | IS:5182(P-6) - Jacob & Hochheiser Method |

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Ref: SVELC/SMAL/23-10/04

Date: 23-10-2023

NAME AND ADDRESS : **M/s. SARDA METALS AND ALLOYS LTD.,**
VIZAG COMMON PURCHASING PLANT,
APIIC, Industrial Park, Kantakapalli,
Kothavalasa-535240,
Vizianagaram.

SAMPLE PARTICULARS : **AMBIENT AIR QUALITY**

SOURCE OF COLLECTION : **NEAR FAD AREA**

DATE & TIME OF START : **14-10-2023 @ 10:30hr**

DURATION OF SAMPLING : **24 Hours**

ATMOSPHERE CONDITION : **Clear Sky**

TEST REPORT

| S.No | PARAMETER | UNIT | RESULT | NAAQ STANDARDS | METHOD |
|------|--|--------------------------|--------|----------------|--|
| 1. | Particulate Matter(Size<10 μ) or PM ₁₀ | $\mu\text{g}/\text{m}^3$ | 68.9 | 100 | IS:5182 (P-23) Gravimetric |
| 2. | Particulate Matter(Size<2.5 μ) or PM _{2.5} | $\mu\text{g}/\text{m}^3$ | 29.2 | 60 | IS:5182 (P-24) Gravimetric |
| 3. | Sulphur Dioxide – SO ₂ | $\mu\text{g}/\text{m}^3$ | 14.8 | 80 | IS:5182 (P-2) - West and Gaeke Method |
| 4. | Oxides of Nitrogen – NO _x | $\mu\text{g}/\text{m}^3$ | 13.4 | 80 | IS:5182(P-6) - Jacob & Hochheiser Method |

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Ref: SVELC/SMAL/23-10/05

Date: 23-10-2023

NAME AND ADDRESS : M/s. SARDA METALS AND ALLOYS LTD.,
VIZAG COMMON PURCHASING PLANT,
APIIC, Industrial Park, Kantakapalli,
Kothavalasa-535240,
Vizianagaram.

SAMPLE PARTICULARS : FUGITIVE EMISSIONS

SOURCE OF COLLECTION : NEAR CHP AREA

DATE & TIME OF START : 13-10-2023 @ 10:45hr

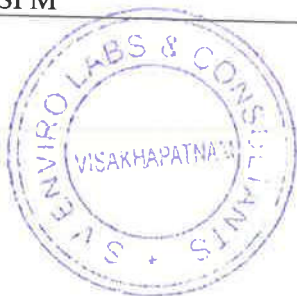
DURATION OF SAMPLING : 08 hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

| S.No | PARAMETER | UNIT | RESULT | METHOD |
|------|--|-------------------|--------|----------------|
| 1. | Total Suspended Particulate Matter – TSPM | mg/m ³ | 1.32 | IS:5182 (P-4) |
| 2. | Respirable Suspended Particulate Matter – RSPM | mg/m ³ | 0.84 | IS:5182 (P-23) |

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Ref: SVELC/SMAL/23-10/06

Date: 23-10-2023

NAME AND ADDRESS : **M/s. SARDA METALS AND ALLOYS LTD.,**
VIZAG COMMON PURCHASING PLANT,
APIIC, Industrial Park, Kantakapalli,
Kothavalasa-535240,
Vizianagaram.

SAMPLE PARTICULARS : **FUGITIVE EMISSIONS**

SOURCE OF COLLECTION : **NEAR TAPPING EMISSION AREA**

DATE & TIME OF START : **13-10-2023 @ 11:00hr**

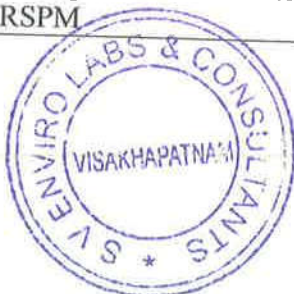
DURATION OF SAMPLING : **08 hours**

ATMOSPHERE CONDITION : **Clear Sky**

TEST REPORT

| S.No | PARAMETER | UNIT | RESULT | METHOD |
|------|--|-------------------|--------|----------------|
| 1. | Total Suspended Particulate Matter – TSPM | mg/m ³ | 1.86 | IS:5182 (P-4) |
| 2. | Respirable Suspended Particulate Matter – RSPM | mg/m ³ | 1.15 | IS:5182 (P-23) |


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Ref: SVELC/SMAL/23-10/07

Date: 23-10-2023

NAME AND ADDRESS : M/s. SARDA METALS AND ALLOYS LTD.,
VIZAG COMMON PURCHASING PLANT,
APIIC, Industrial Park, Kantakapalli,
Kothavalasa-535240,
Vizianagaram.

SAMPLE PARTICULARS : FUGITIVE EMISSIONS

SOURCE OF COLLECTION : NEAR FMY AREA

DATE & TIME OF START : 14-10-2023 @ 10:45hr

DURATION OF SAMPLING : 08 hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

| S.No | PARAMETER | UNIT | RESULT | METHOD |
|------|--|-------------------|--------|----------------|
| 1. | Total Suspended Particulate Matter – TSPM | mg/m ³ | 0.71 | IS:5182 (P-4) |
| 2. | Respirable Suspended Particulate Matter – RSPM | mg/m ³ | 0.49 | IS:5182 (P-23) |

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Ref: SVELC/SMAL/23-10/08

Date: 23-10-2023

NAME AND ADDRESS : **M/s. SARDA METALS AND ALLOYS LTD.,
VIZAG COMMON PURCHASING PLANT,
APIIC, Industrial Park, Kantakapalli,
Kothavalasa-535240,
Vizianagaram.**

SAMPLE PARTICULARS : **FUGITIVE EMISSIONS**

SOURCE OF COLLECTION : **NEAR MRP AREA**

DATE & TIME OF START : **14-10-2023 @ 11:00hr**

DURATION OF SAMPLING : **08 hours**

ATMOSPHERE CONDITION : **Clear Sky**

TEST REPORT

| S.No | PARAMETER | UNIT | RESULT | METHOD |
|------|--|-------------------|--------|----------------|
| 1. | Total Suspended Particulate Matter – TSPM | mg/m ³ | 0.88 | IS:5182 (P-4) |
| 2. | Respirable Suspended Particulate Matter – RSPM | mg/m ³ | 0.43 | IS:5182 (P-23) |


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Ref: SVELC/SMAL/23-10/09

Date: 23-10-2023

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VIZAG COMMON PURCHASING PLANT,
APIIC, Industrial Park, Kantakapalli,
Kothavalasa-535240,
Vizianagaram.

SAMPLE PARTICULARS : **FUGITIVE EMISSIONS**

SOURCE OF COLLECTION : **NEAR RMHS AREA**

DATE & TIME OF START : **13-10-2023 @ 11:15hr**

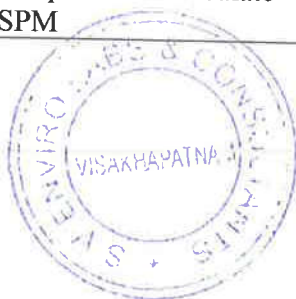
DURATION OF SAMPLING : **08 hours**

ATMOSPHERE CONDITION : **Clear Sky**

TEST REPORT

| S.No | PARAMETER | UNIT | RESULT | METHOD |
|------|--|-------------------|--------|----------------|
| 1. | Total Suspended Particulate Matter – TSPM | mg/m ³ | 1.01 | IS:5182 (P-4) |
| 2. | Respirable Suspended Particulate Matter – RSPM | mg/m ³ | 0.75 | IS:5182 (P-23) |


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Ref: SVELC/SMAL/23-10/10

Date: 23-10-2023

NAME AND ADDRESS : **M/s. SARDA METALS AND ALLOYS LTD.,
VIZAG COMMON PURCHASING PLANT,
APIIC, Industrial Park, Kantakapalli,
Kothavalasa-535240,
Vizianagaram.**

SAMPLE PARTICULARS : **STACK EMISSIONS**

SOURCE OF COLLECTION : **POWER PLANT CHIMNEY**

DATE & TIME OF COLLECTION : **14-10-2023 @ 12:30 hr**

TEST REPORT

| S.No | DESCRIPTION | UNIT | RESULT |
|------|---------------------------|--------------------|--------|
| 1. | Stack Height | m | 120 |
| 2. | Diameter of the Stack | m | 6.69 |
| 3. | C/s Area of Stack | m ² | 35.13 |
| 4. | Pitot Coefficient | - | 0.87 |
| 5. | Specific Gravity of Fluid | - | 1.0 |
| 6. | Temperature @ DGM | °C | 34 |
| 7. | Stack Temperature | °C | 149 |
| 8. | Nozzle Diameter | mm | 09 |
| 9. | Exit Velocity | m/sec | 6.28 |
| 10. | Gas Quantity | m ³ /hr | 794219 |
| 11. | Duration of Sampling | minutes | 60 |

EMISSION RATE

| S.No | PARAMETER | UNIT | RESULT | PCB STANDARD |
|------|--------------------------------------|--------------------|----------|--------------|
| 1. | Particulate Matter – PM | mg/Nm ³ | 26.8 | 50 |
| 2. | Sulphur Dioxide – SO ₂ | mg/Nm ³ | 229 | 600 |
| 3. | Oxides of Nitrogen – NO _x | mg/Nm ³ | 141 | 300 |
| 4. | Mercury – Hg | mg/Nm ³ | < 0.0056 | - |

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ANNEXURE-8
FAD-DUST EXTRACTION SYSTEM



***Dry Bottom Ash Handling System-1*80 MW
Captive Power Plant***

Covered Conveyor Belt at Captive Power plant



***Stack attached to RABH-Reverse Air Bag House
(2No's) in Ferro Alloy Division.***



Product is loading in the closed containers



ANNEXURE-9
TUNNEL VENTILATION SYSTEM AT PP GROUND HOPPER



ANNEXURE-10
OPEN BORE WELL - PIEZOMETER





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Ref: SVELC/SMAL/23-10/19

Date: 23-10-2023

NAME AND ADDRESS : **M/s. SARDA METALS AND ALLOYS LTD.,
VIZAG COMMON PURCHASING PLANT,
APIIC, Industrial Park, Kantakapalli,
Kothavalasa-535240,
Vizianagaram.**

SAMPLE PARTICULARS : **WATER**

SOURCE OF COLLECTION : **ARIHANT BOREWELL**

DATE OF COLLECTION : **14-10-2023**

TEST REPORT

| S.No | Parameter | Unit | Result | IS 10500:2012 Drinking Water Specifications |
|------|--|-------|-----------|---|
| 1. | Colour | Hazen | <1.0 | 5.0 |
| 2. | Odour | - | Agreeable | Agreeable |
| 3. | Taste | - | Agreeable | Agreeable |
| 4. | Turbidity | NTU | 0.28 | 1.0 |
| 5. | pH | - | 6.54 | 6.5 – 8.5 |
| 6. | Total Dissolved Solids | mg/l | 339 | 500 |
| 7. | Total Alkalinity as CaCO ₃ | mg/l | 147 | 200 |
| 8. | Total Hardness as CaCO ₃ | mg/l | 162 | 200 |
| 9. | Calcium as Ca | mg/l | 34.6 | 75 |
| 10. | Magnesium as Mg | mg/l | 18.3 | 30 |
| 11. | Chlorides as Cl | mg/l | 81.8 | 250 |
| 12. | Fluorides as F | mg/l | <0.01 | 1.0 |
| 13. | Nitrates as NO ₃ ⁻ | mg/l | 15.2 | 45 |
| 14. | Sulphates as SO ₄ | mg/l | 31.7 | 200 |
| 15. | Iron as Fe | mg/l | <0.01 | 0.3 |
| 16. | Free Residual Chlorine | mg/l | <0.1 | 0.2 |
| 17. | Phenolic Compounds as C ₆ H ₅ OH | mg/l | Nil | 0.001 |
| 18. | Copper as Cu | mg/l | <0.01 | 0.05 |
| 19. | Manganese as Mn | mg/l | <0.01 | 0.1 |
| 20. | Zinc as Zn | mg/l | <0.01 | 5.0 |
| 21. | Aluminum as Al | mg/l | <0.01 | 0.03 |
| 22. | Boron as B | mg/l | <0.01 | 0.5 |
| 23. | Sulphide as H ₂ S | mg/l | <0.1 | 0.05 |
| 24. | Anionic Detergents (as MBAS) | mg/l | <0.01 | 0.2 |
| 25. | Barium as Ba | mg/l | <0.01 | 0.7 |
| 26. | Chloramines (as Cl ₂) | mg/l | <1.0 | 4.0 |
| 27. | Ammonia as total ammonia-N | mg/l | <0.01 | 0.5 |
| 28. | Mineral Oil | mg/l | <0.01 | 0.5 |
| 29. | Selenium as Se | mg/l | <0.005 | 0.01 |
| 30. | Silver as Ag | mg/l | <0.01 | 0.1 |



SV ENVIRO LABS & CONSULTANTS

(ENVIRONMENTAL ENGINEERS & CONSULTANTS IN POLLUTION CONTROL)

Corporate Office & Laboratory : Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam-530012.
Hyderabad: Flat No. 302, H.No. 7-1-396/B/12, Sai Ram Residency, Balkampet Road, S.R.Nagar, Hyderabad-500038.
☎ +91-9440338628, +91-7207664444 ✉ svenviro_labs@yahoo.co.in, info@senvirolabs.com 🌐 www.svenirolabs.com
Recognized by Govt. of India-MoEF & CC, New Delhi, Accredited by : NABL & NABET



MICROBIOLOGY:

| | | | | |
|-----|------------------------|---------------|--------------|------------------------------------|
| 31. | <i>E. coliforms</i> | CFU/ 100mL | Not Detected | Shall not be detected in 100 ml |
| 32. | <i>Total Coliforms</i> | CFU/ 100mL | Not Detected | Shall not be detected in 100 ml |

Note: All the above parameters are tested as per APHA methods, 24th Edition, 2023

Remarks: As per the above report, all the parameters are within IS 10500:2012 Drinking Water Specifications.


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Ref: SVELC/SMAL/23-10/20

Date: 23-10-2023

NAME AND ADDRESS : M/s. SARDA METALS AND ALLOYS LTD.,
VIZAG COMMON PURCHASING PLANT,
APIIC, Industrial Park, Kantakapalli,
Kothavalasa-535240,
Vizianagaram.

SAMPLE PARTICULARS : WATER

SOURCE OF COLLECTION : DM PLANT DRINKING WATER

DATE OF COLLECTION : 14-10-2023

TEST REPORT

| S.No | Parameter | Unit | Result | IS 10500:2012 Drinking Water Specifications |
|------|---|-------|-----------|---|
| 1. | Colour | Hazen | <1.0 | 5.0 |
| 2. | Odour | - | Agreeable | Agreeable |
| 3. | Taste | - | Agreeable | Agreeable |
| 4. | Turbidity | NTU | 0.16 | 1.0 |
| 5. | pH | - | 7.31 | 6.5 – 8.5 |
| 6. | Total Dissolved Solids | mg/l | 134 | 500 |
| 7. | Total Alkalinity as CaCO_3 | mg/l | 112 | 200 |
| 8. | Total Hardness as CaCO_3 | mg/l | 86.8 | 200 |
| 9. | Calcium as Ca | mg/l | 21.6 | 75 |
| 10. | Magnesium as Mg | mg/l | 7.98 | 30 |
| 11. | Chlorides as Cl | mg/l | 16.9 | 250 |
| 12. | Fluorides as F | mg/l | <0.01 | 1.0 |
| 13. | Nitrates as NO_3^- | mg/l | 1.52 | 45 |
| 14. | Sulphates as SO_4 | mg/l | 6.45 | 200 |
| 15. | Iron as Fe | mg/l | <0.01 | 0.3 |
| 16. | Free Residual Chlorine | mg/l | <0.1 | 0.2 |
| 17. | Phenolic Compounds as $\text{C}_6\text{H}_5\text{OH}$ | mg/l | Nil | 0.001 |
| 18. | Copper as Cu | mg/l | <0.01 | 0.05 |
| 19. | Manganese as Mn | mg/l | <0.01 | 0.1 |
| 20. | Zinc as Zn | mg/l | <0.01 | 5.0 |
| 21. | Aluminum as Al | mg/l | <0.01 | 0.03 |
| 22. | Boron as B | mg/l | <0.01 | 0.5 |
| 23. | Sulphide as H_2S | mg/l | <0.1 | 0.05 |
| 24. | Anionic Detergents (as MBAS) | mg/l | <0.01 | 0.2 |
| 25. | Barium as Ba | mg/l | <0.01 | 0.7 |
| 26. | Chloramines (as Cl_2) | mg/l | <1.0 | 4.0 |
| 27. | Ammonia as total ammonia-N | mg/l | <0.01 | 0.5 |
| 28. | Mineral Oil | mg/l | <0.01 | 0.5 |
| 29. | Selenium as Se | mg/l | <0.005 | 0.01 |
| 30. | Silver as Ag | mg/l | <0.01 | 0.1 |



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MICROBIOLOGY:

| | | | | |
|-----|------------------------|---------------|--------------|------------------------------------|
| 31. | <i>E. coliforms</i> | CFU/ 100mL | Not Detected | Shall not be detected in 100 ml |
| 32. | <i>Total Coliforms</i> | CFU/ 100mL | Not Detected | Shall not be detected in 100 ml |

Note: All the above parameters are tested as per APHA methods, 24th Edition, 2023.

Remarks: As per the above report, all the parameters are within IS 10500:2012 Drinking Water Specifications.


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ANNEXURE-11

STP (Waste water treatment facilities)

RMHS AREA STP



Automatic Compressor System



Digital flow meter for outlet water





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Ref: SVELC/SMAL/23-10/14

Date: 23-10-2023

NAME AND ADDRESS : M/s. SARDA METALS AND ALLOYS LTD.,
VIZAG COMMON PURCHASING PLANT,
APIIC, Industrial Park, Kantakapalli,
Kothavalasa-535240,
Vizianagaram.

SAMPLE PARTICULARS : EFFLUENT WATER

SOURCE OF COLLECTION : FAD – COOLING TOWER

DATE OF COLLECTION : 14-10-2023

TEST REPORT

| S.No | Parameter | Unit | Result | Discharge Standards |
|------|------------------------|------|--------|---------------------|
| 1. | pH | -- | 7.96 | 6.5 – 8.5 |
| 2. | Total Dissolved Solids | mg/l | 1053 | 2100 |
| 3. | Total Suspended Solids | mg/l | 5.0 | 100 |
| 4. | COD | mg/l | 14.0 | 250 |
| 5. | BOD 3d 27°C | mg/l | 4.0 | 30 |
| 6. | Oil & Grease | mg/l | <1.0 | 10 |


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Ref: SVELC/SMAL/23-10/15

Date: 23-10-2023

NAME AND ADDRESS : **M/s. SARDA METALS AND ALLOYS LTD.,
VIZAG COMMON PURCHASING PLANT,
APIIC, Industrial Park, Kantakapalli,
Kothavalasa-535240,
Vizianagaram.**

SAMPLE PARTICULARS : **EFFLUENT WATER**

SOURCE OF COLLECTION : **CPP – COOLING TOWER**

DATE OF COLLECTION : **14-10-2023**

TEST REPORT

| S.No | Parameter | Unit | Result | Discharge Standards |
|------|------------------------|------|--------|---------------------|
| 1. | pH | -- | 7.53 | 6.5 – 8.5 |
| 2. | Total Dissolved Solids | mg/l | 1694 | 2100 |
| 3. | Total Suspended Solids | mg/l | 8.0 | 100 |
| 4. | COD | mg/l | 46.0 | 250 |
| 5. | BOD 3d 27°C | mg/l | 13.0 | 30 |
| 6. | Oil & Grease | mg/l | <1.0 | 10 |


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Ref: SVELC/SMAL/23-10/16

Date: 23-10-2023

NAME AND ADDRESS : **M/s. SARDA METALS AND ALLOYS LTD.,
VIZAG COMMON PURCHASING PLANT,
APIIC, Industrial Park, Kantakapalli,
Kothavalasa-535240,
Vizianagaram.**

SAMPLE PARTICULARS : **EFFLUENT WATER**

SOURCE OF COLLECTION : **GUARD POND**

DATE OF COLLECTION : **14-10-2023**

TEST REPORT

| S.No | Parameter | Unit | Result | Discharge Standards |
|------|------------------------|------|--------|---------------------|
| 1. | pH | -- | 8.01 | 6.5 – 8.5 |
| 2. | Total Dissolved Solids | mg/l | 1384 | 2100 |
| 3. | Total Suspended Solids | mg/l | 7.0 | 100 |
| 4. | COD | mg/l | 34.0 | 250 |
| 5. | BOD 3d 27°C | mg/l | 9.0 | 30 |
| 6. | Oil & Grease | mg/l | <1.0 | 10 |

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Ref: SVELC/SMAL/23-10/17

Date: 23-10-2023

NAME AND ADDRESS : **M/s. SARDA METALS AND ALLOYS LTD.,
VIZAG COMMON PURCHASING PLANT,
APIIC, Industrial Park, Kantakapalli,
Kothavalasa-535240,
Vizianagaram.**

SAMPLE PARTICULARS : **EFFLUENT WATER**

SOURCE OF COLLECTION : **NEUTRALISATION PIT**

DATE OF COLLECTION : **14-10-2023**

TEST REPORT

| S.No | Parameter | Unit | Result | Discharge Standards |
|------|------------------------|------|--------|---------------------|
| 1. | pH | -- | 7.71 | 6.5 – 8.5 |
| 2. | Total Dissolved Solids | mg/l | 609 | 2100 |
| 3. | Total Suspended Solids | mg/l | 5.0 | 100 |
| 4. | COD | mg/l | 13.0 | 250 |
| 5. | BOD 3d 27°C | mg/l | 4.0 | 30 |
| 6. | Oil & Grease | mg/l | <1.0 | 10 |


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ANNEXURE-12
GARLAD DRAINS



ANNEXURE-13
NOISE MONITORING DATA



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(ENVIRONMENTAL ENGINEERS & CONSULTANTS IN POLLUTION CONTROL)

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Ref: SVELC/SMAL/23-10/13

Date: 23-10-2023

NAME AND ADDRESS

:

M/s. SARDA METALS AND ALLOYS LTD.,
VIZAG COMMON PURCHASING PLANT,
APIIC, Industrial Park, Kantakapalli,
Kothavalasa-535240,
Vizianagaram.

SAMPLE PARTICULARS

:

NOISE LEVEL

DATE OF COLLECTION

:

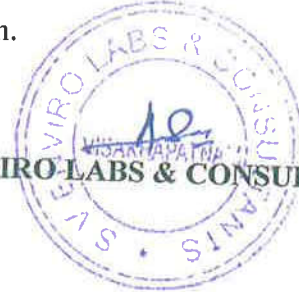
14-10-2023

TEST REPORT

| S.No | SOURCE OF COLLECTION | Noise levels measured in dB(A) | | Method |
|----------------|----------------------|--------------------------------|-------|-------------------------------------|
| | | DAY | NIGHT | |
| 1. | Near Security Gate | 70.1 | 63.9 | IS:4954 – 1968 Noise Level Meter |
| 2. | Near RO Plant | 61.5 | 56.3 | |
| 3. | Near Admin Building | 60.8 | 53.7 | |
| CPCB STANDARDS | | 75.0 | 70.0 | |

Note: Day time shall mean from 6.00 am to 10.00 pm
Night time shall mean from 10.00 p.m. to 6.00 a.m.

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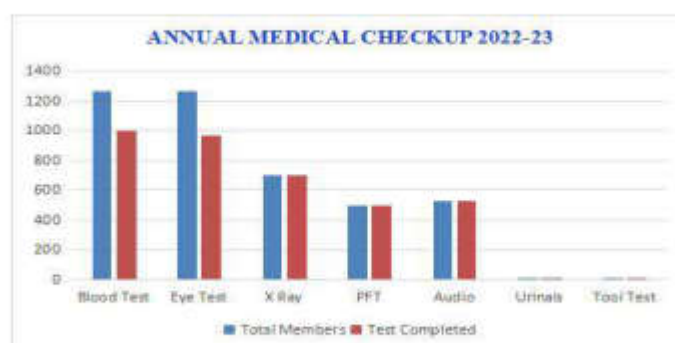
ANNEXURE-14
BIO GAS PLANT AT MAIN CANTEEN



ANNEXURE-15 ANNUAL MEDICAL CHECK UP



| ANNUAL MEDICAL CHECKUP 2022-23 | | | | | | | |
|--------------------------------|------------|----------|-------|-----|-------|---------|-----------|
| | Blood Test | Eye Test | X Ray | PFT | Audio | Urinals | Tool Test |
| Total Members | 1264 | 1264 | 699 | 496 | 528 | 8 | 8 |
| Test Completed | 999 | 968 | 699 | 496 | 528 | 8 | 8 |



ANNEXURE-16

EC - NEWS PAPER PUBLICATIONS

గమనిక

M/s. సర్దా మెటల్స్ & అల్యాయ్స్ లిమిటెడ్ వారు పర్యావరణ, అటవీ మరియు వాతావరణ మంత్రిత్వ శాఖ ద్వారా పర్యావరణ అనుమతులు (ఆర్డర్ నెం. J-11011/164/2009-IA, II(I)- Dt.: 27.05.2022), పొందినారు. ప్రతిపాదిత విస్తరణ క్లియరెన్స్ లెటర్ కాపీలు ఆంధ్రప్రదేశ్ కాలువ్య నియంత్రణ మండలి వద్ద అందుబాటులో ఉన్నాయి. మరియు MoEFCC వెబ్సైట్లో కూడా చూడవచ్చు (<http://parvesh.nic.in>)

M/s సర్దా మెటల్స్ & అల్యాయ్స్ లిమిటెడ్
APIIC ఇండస్ట్రియల్ పార్క్, కంటకపల్లి గ్రామం, కొత్తవలస మండలం, విజయనగరం జిల్లా, ఆంధ్రప్రదేశ్-535240.

PUBLIC NOTICE

M/s. Sarda Metals & Alloys Limited is pleased to inform the general public that it has been accorded Environmental Clearance (F. No. J-11011/164/2009-IA, II(I)- Dt.: 27.05.2022) by the Ministry of Environment, Forest and Climate Change (MoEFCC) for the Proposed Expansion of Ferro Alloy Plant, Captive Power Plant and Installation of Steel Melting Shop, Mineral Fibre Plant at APIIC Industrial Park, Kantakapalli Village, Kothavalasa Mandal, Vizianagaram District, Andhra Pradesh. Copies of the clearance letter are available with Andhra Pradesh Pollution Control Board and can also be seen at website of the MoEFCC at <http://parvesh.nic.in>.

M/s. Sarda Metals & Alloys Limited
APIIC Industrial Park, Kantakapalli Village Kothavalasa
Mandal, Vizianagaram District, Andhra Pradesh-535240.

ANNEXURE-17

DIGITAL DISPLAY BOARD AT MAIN GATE



**ANNEXURE-18
FORM-V**

D. No. 50-96-4/1, Floor II & III
Srigowri Nilayam, Seethammadhara NE
Visakhapatnam -530013
CIN : U51420MH2008PLC187689

Tel : +91 891 2858200
Fax : +91 891 2700864
www.seml.co.in



Ref No: SMAL/APPCB-RO/Form-V/2022-23

Date: 12.09.2023.

To

The Environmental Engineer,
Regional Office,
Andhra Pradesh Pollution Control Board,
Thotapalem, Vizianagaram, AP.

Dear Sir/ Madam,

Sub: Submission of Environment Statement F.Y. 2022-2023 - Reg..


With reference to the above subject, We, M/s. Sarda Metals & Alloys Ltd., APIIC Industrial Area, Kantakapalli (V), Kothavalasa (M), Vizianagaram District, Andhra Pradesh, are herewith submitting the Environment Statement for the Financial Year 2022-2023 to your good office.

This is for your kind information and records.

Please acknowledge same.

Thanking you.

Yours Faithfully
for M/s. Sarda Metals & Alloys Ltd.,


V. Surya Bhaskaram
Assistant General Manager - EHS
(Authorized Signatory)

Encl: As above.



Factory : APIIC, Industrial Park, Kantakapalli, Kothavalasa, Vizianagaram - 535 240, (AP) India, (O) : +91 8922 248203
Registered Office : 125 Mittal Court B wing, Nariman Point, Mumbai - 400021 (MH) Tel : +91 22 22884640-81 F : +022-22826680