

**SMAL/IRO-MoEF&CC/HCR/2022**

Date: 26.12.2022

To

**The Joint Director (S),  
MoEF & CC,  
Government of India,  
Integrated Regional Office, Green House,  
Gopala Reddy Road, Vijayawada-520010,  
Andhra Pradesh.**

Dear Sir,


Sub: Submission of the EC Compliance report for the period of April'2022 to September'2022  
Reg...

**Ref: F. No. J-11011/164/2009-IA.II(I), Dated: 27<sup>th</sup> May, 2022.**

With reference to the above subject M/s Sarda Metals & Alloys Limited, located at APIIC Industrial area, Kantakapalli Village, Kothavalasa Mandal, Vizianagaram Dist, Andhra Pradesh State, Pin Code-535240., are herewith submitting the Half yearly condition wise compliance report for the period of April'2022 to September'2022 to your good office.

This is for your kind information and records.  
Please acknowledge same.

Your's sincerely  
For Sarda Metals & Alloys Limited.



**V. Surya Bhaskaram**  
AGM -EHS  
Authorised Signatory

Encl; Half Yearly Compliance report.

Cc to: APSPCB-Vijayawada  
CPCB-Banglore.

# **ENVIRONMENTAL CLEARANCE HALF-YEARLY COMPLIANCE REPORT**

**For the period of  
April'2022 to September'2022**



**M/s. SARDA METALS & ALLOYS Ltd.**  
Kantakapalli Vill, Kothavalasa M, Vizianagaram Dist,  
Andrapradesh.

**Status of Environmental Clearances received from MOEF vide MoEF No. F. No.J-11011/164/2009-IA.II (I), Dated 27.05.2022.**

- i. Compliance report is enclosed herewith for all the conditions stipulated by MoEF & CC.

<b>A. Specific Conditions</b>																	
<b>S No</b>	<b>Condition</b>	<b>Compliance</b>															
i	Three-tier Green Belt shall be developed in 33% of the 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. The survival rate of the 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 the concerned Regional Office of the MoEF&CC.	<p>SMAL has developed green belt of 33% i.e., 93.23 acres as per MoEFCC guidelines.17000 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>17000 trees</td> </tr> </table> <p>Plantation will be done phase-wise and the status of the same will be submitted to RO, MoEF &amp; 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	:	17000 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	:	17000 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.																
	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.	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. <b>Annexure-1</b>															
	b. Proper covered vehicle shall be used while transport of materials.	Noted and Being followed and for your reference attached in <b>Annexure-2</b> .															
	c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.	Noted. The tyre washing facility is planned and the work will be completed within two month.															
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 <b>Annexure-3</b> .															
v	Performance tests shall be conducted on all pollution control systems every year and a	Noted and being followed. <b>Annexure-4</b>															

	report shall be submitted to the Regional Office of the MoEF&CC.	
vi	Particulate matter emission from stacks shall be less than 30 mg/Nm <sup>3</sup> .	Complied. Continuous monitoring data is synchronized to APPCB & CPCB servers respectively. The data is uploading to APPCB server URL: <a href="http://aprtcms.ap.gov.in">http://aprtcms.ap.gov.in</a> . & CPCB <a href="http://rtdms.cpcb.gov.in-status">http://rtdms.cpcb.gov.in-status</a>
vii	Submerged Arc Furnace shall be equipped with the fourth hole fume extraction system.	Noted and the Fume extraction system is provided as guided. <b>Annexure-5</b>
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. <b>Annexure-6.</b>
x	PP shall improve the Housekeeping of the project premises with best standards.	SMAL continuously strives to maintain housekeeping by using 5S and TPM 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, Phase-3:7Nos
xii	Mechanical road sweeping shall be done in the surrounding villages also periodically.	Noted for compliance and being followed 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. <b>Annexure-7.</b>
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:**

S No	Condition	Compliance
	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**

S No	Condition	Compliance
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 specifications through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Noted for compliance. SMAL has been provided online stack monitoring system and CAAQM systems for 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 server URL: <a href="http://aprtptms.ap.gov.in">http://aprtptms.ap.gov.in</a> . & CPCB <a href="http://rtdms.cpcb.gov.in-status">http://rtdms.cpcb.gov.in-status</a>
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. <b>Annexure-8</b>
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. <b>Annexure-9</b>
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. <b>Annexure-2</b>
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. <b>Annexure-5.</b>
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. <b>Annexure-10</b>
<b>III Water quality monitoring and preservation</b>		
<b>S No</b>	<b>Condition</b>	<b>Compliance</b>
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: <a href="http://aprtcms.ap.gov.in">http://aprtcms.ap.gov.in</a> & CPCB <a href="http://rtdms.cpcb.gov.in-status">http://rtdms.cpcb.gov.in-status</a>
ii	The project proponent shall monitor regularly groundwater 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 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 <b>Annexure-11.</b>
iii	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards	Noted for compliance and will be implemented. <b>Annexure-12</b>
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	Noted and will be provided after installing rolling mills.

	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.	Noted and provided garland drains at applicable areas <b>Annexure-13</b>
vi	Tyre washing facilities shall be provided at the entrance/exit of the plant gates.	Noted. The tyre washing facility is planned and the work will be completed within two month.
<b>IV</b>	<b>Noise monitoring and prevention</b>	
	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 <b>Annexure-14</b>
<b>V</b>	<b>Energy Conservation measures</b>	
	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.
<b>VI</b>	<b>Waste management</b>	
	<b>i.</b> Used refractories shall be recycled.	Noted and being followed
	<b>ii.</b> 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 <b>Annexure-15</b>
<b>VII</b>	<b>Green Belt</b>	
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 from fossil fuels to Renewable energy, etc. All these activities / assessments should be measurable and monitor	Noted and a study report on De-carbonization program and time-bound action plan will be submitted for the same. <b>TCD-31.03.2023</b>

	able with defined time frames.	
<b>VIII</b>	<b>Public hearing and Human health issues</b>	
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 <b>Annexure-16</b> .
<b>IX</b>	<b>Environment Management</b>	
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 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 phase-wise.
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 / 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.	Noted for compliance.



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 senior Officer. AGM-EHS directly reports to the Head of the organization.
<b>X</b>	<b>Miscellaneous</b>	
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 <b>Annexure-17</b> .
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 are 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 06.07.2022.
iv	The project proponent shall monitor the criteria pollutants level namely; PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>x</sub> (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. <b>Annexure-18</b> .
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	Noted. Will be followed as per condition and Acknowledgement attached for your reference in <b>Annexure-19</b> .

**M/s. Sarda Metals & Alloys Limited::Kantakapalli**  
**EC No: F.No.J-11011/164/2009-IA.II (I) Dated 27.05.2022**



	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.	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.
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.

**DETAILS OF PRODUCTION AND CONSUMPTION**

<b>Ferro Alloy Division-Raw material Consumption &amp; Production Details</b>							
<b>Month &amp; Year</b>	<b>Raw Material Consumption-MT</b>						<b>Product-Tons</b>
	<b>Mn Ore</b>	<b>RB3 &amp; RB2-Coal</b>	<b>Nut Coke</b>	<b>Quartz</b>	<b>Dolomite</b>	<b>Mill Scale</b>	<b>Ferro Alloys</b>
Apri-22	18579.37	4592.98	1216.88	2365.90	0	0	7620.86
May-22	18980.00	4738.00	1277.00	2185.00	0	0	7537.69
June-22	16876.41	4280.88	1080.88	1739.91	0	0	6850.16
July-22	12962.6	3243.71	856.37	1114.95	0	0	5255.48
Aug-22	0	0	0	0	0	0	0
Sept-22	1038.41	265.17	103.2	86.29	0	0	287.57
<b>Total</b>	<b>68436.79</b>	<b>17120.74</b>	<b>4534.33</b>	<b>7492.05</b>	<b>0</b>	<b>0</b>	<b>27551.76</b>

**Captive Power Plant-Raw Material Consumption and Production Details.**

<b>Month &amp; Year</b>	<b>Coal Consumption (MT)</b>	<b>Production Electricity (MWH)</b>
Apr-22	40094.07	53457.00
May-22	38031.43	45608.00
Jun-22	36699.35	43439.00
July-22	27006.72	31480.00
Aug-22	0	0
Sept-22	5400.40	5436.00
<b>Total</b>	<b>147231.97</b>	<b>179420.00</b>

<b>Non Hazardous Waste Generation Details</b>				
<b>Month &amp; Year</b>	<b>Solid Waste from Pollution Control Equipments / Facility Gas Cleaning Plant - RABH (Bi Product Tons)</b>		<b>Solid Waste from Process (Waste Tons)</b>	
	<b>Si Mn (GCP Dust)</b>	<b>Fe Mn GCP Dust</b>	<b>Si Mn Slag</b>	<b>MnO Slag</b>
Apri-22	299.92	0	8300.77	0
May-22	371.51	0	5867.09	0
June-22	351.08	0	7512.90	0
July-22	277.89	0	5812.93	0
Aug-22	0	0	0	0
Sept-22	14.06	0	334.43	0
<b>Total</b>	<b>1314.46</b>	<b>0</b>	<b>27828.12</b>	<b>0</b>

**Captive Power Plant Solid Waste Generation Details (MT)**

Month & Year	Fly Ash Generation (MT)	Fly Ash Sold (MT)	Bottom Ash Generation (MT)	Bottom Ash Sold (MT)
Apr-22	5956.00	5953.52	218	218.98
May-22	5279.00	5278.38	200	199.83
Jun-22	5665.00	5665.1	192	189.9
July-22	4586.00	4591.74	261	254.7
Aug-22	0	0	0	0
Sept-22	345.00	13.27	19	0
<b>Total</b>	<b>21831.00</b>	<b>21502.01</b>	<b>890.00</b>	<b>863.41</b>

<b>Ferro Alloy Division and Captive Power Plant</b>					
<b>Process/ Industrial Cooling Water Consumption (in M<sup>3</sup>) Details</b>					
Month & Year	Cooling Tower Makeup	Softener Regeneration	Slag & Process Water	Boiler Feed	Domestic
Apr-22	12734	240	11892	576	339
May-22	14146	320	10196	655	311
Jun-22	12694	240	9891	614	273
Jul-22	10412	240	8439	626	294
Aug-22	1518	40	2389	644	340
Sep-22	1458	0	2374	5260	294
<b>TOTAL</b>	<b>52962</b>	<b>1080</b>	<b>45181</b>	<b>8375</b>	<b>1851</b>

**ANNEXURE-1**  
**WATER SPRINKLER SYSTEM**

<p><i>High Pressure Water Sprinkling System</i></p> 	<p><i>Water sprinkling system for Haulage Road and Green Belt</i></p> 
<p><i>Inbuilt water sprinkler system for stacker at coal handling plant</i></p> 	<p><i>Water Sprinkling System &amp; Haulage Road Dust Suppression</i></p> 

**ANNEXURE-2**  
**MATERIAL TRANSPORTATION COVERED WITH TOURPALIN**



**ANNEXURE-3**  
**BITUMEN ROAD INSIDE PLANT**



**ANNEXURE-4**  
**OCEMS CALIBRATION CERTIFICATES**

**VASTHI INSTRUMENTS PRIVATE LIMITED**  
IT'S ALL ABOUT SAFETY



Plot No. 21 & 22, 3<sup>rd</sup> and 4<sup>th</sup> Floor Phase IV, Mangalagiri Road, Auto Nagar, Guntur -  
522002, [info@vasthi.com](mailto:info@vasthi.com) Tele No. 0863-2238 667, Fax No.0863-2262 667

**TEST & CALIBRATION REPORT**

DATE OF CALIBRATION: 18.06.2022

NEXT CALIBRATION Due : 17.06.2023

<b>CUSTOMER:</b> M/s Sarda Metals & Alloys Ltd Vizag Common Purchasing Plant , APPIIC,Industrial Park ,Kantaka Palli ,Kothavalasa-535240, Vizanagaram ,India	P.O.No: 4400100156 Order Date: 08.06.2021 Instrument Model No:V_ Air-1000 Instrument Type: Air Quality Monitoring System Range: SO <sub>2</sub> : 0-10 PPM, NO <sub>x</sub> :0-10 PPM, PM10 : 0- 0.6mg/m <sup>3</sup> , PM2.5 : 0-0.6mg/m <sup>3</sup> .
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Instrument Location : Power plant  
Instruments Serial No : VI202100234  
Voltage Rating : 230V AC, 50Hz  
Calibrator used : Model: Air -Q-rate  
Standard gases Used :SO<sub>2</sub>: 5 PPM , NO<sub>x</sub>: 10PPM.

1. N<sub>2</sub>-99.9% GAS FED:

Parameter	Concentration value on display	Before Calibration	After Calibration	Difference PPM	% Error
SO <sub>2</sub>	000	000	000	000	000
NO <sub>x</sub>	000	000	000	000	000

2. SO<sub>2</sub> -5 PPM GAS FED:

Stand Gas concentration	Measured before Calibration	Measured After Calibration	Difference	Error (%)
0 ppm	0 ppm	0 ppm	0 ppm	0 %
5 ppm	7 ppm	5.09 ppm	0.09 ppm	1.8 %

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3. NO<sub>x</sub> -10 PPM GAS FED:

Stand Gas concentration	Measured before Calibration	Measured After Calibration	Difference
0 ppm	0 ppm	0 ppm	0 ppm
8ppm	7.4 ppm	6 ppm	02 ppm

3 .PM-10/2.5 Monitor : 0.6 mg/m<sup>3</sup> :

Parameter	Reference Value mg/m <sup>3</sup>	Gain Value mg/m <sup>3</sup>	OFF Set Value mg/m <sup>3</sup>	Calibrated Value mg/m <sup>3</sup>
PM10	0.5	0.42	1.12	0.6
PM2.5	0.5	0.42	0.268	0.54

Functionality: Tested ok

TESTED BY  
P. Swaroopa  
P.Swaroopa)



CHECKED BY  
  
( D.Govindaraju)



**VASTHI INSTRUMENTS PRIVATE LIMITED**  
IT'S ALL ABOUT SAFETY



Plot No. 21 & 22, 3<sup>rd</sup> and 4<sup>th</sup> Floor Phase IV, Mangalagiri Road, Auto Nagar, Guntur - 522002, [info@vasthi.com](mailto:info@vasthi.com) Tele No. 0863-2238 667, Fax No.0863-2262 667

**TEST & CALIBRATION REPORT**

DATE OF CALIBRATION: 14.08.2022

NEXT CALIBRATION Due : 13.08.2023

<b>CUSTOMER:</b> M/s Sarda Metals & Alloys Ltd Vizag Common Purchasing Plant , APPIIC,Industrial Park ,Kantaka Palli ,Kothavalasa-535240, Vizanagaram ,India	P.O.No: 4400101416 Order Date: 14.08.2021 Instrument Model No:V_ Air-1000 Instrument Type: Air Quality Monitoring System Range: SO <sub>2</sub> :0-10 PPM, NO <sub>x</sub> :0-10 PPM, PM <sub>10</sub> : 0-0.6mg/m <sup>3</sup> , PM <sub>2.5</sub> : 0-0.6mg/m <sup>3</sup> .
---	--

Instrument Location : Main Gate  
Instruments Serial No : VI202100257  
Voltage Rating : 230V AC, 50Hz  
Calibrator used : Model: Air -Q-rate  
Standard gases Used :SO<sub>2</sub>: 5 PPM , NO<sub>x</sub>: 10PPM.

1. N<sub>2</sub>-99.9% GAS FED:

Parameter	Concentration value on display	Before Calibration	After Calibration	Difference PPM	Error(%)
SO <sub>2</sub>	000	000	000	000	00
NO <sub>x</sub>	000	000	000	000	00

2. SO<sub>2</sub> -5 PPM GAS FED:

Stand Gas concentration	Measured before Calibration	Measured After Calibration	Difference	Error (%)
0 ppm	0 ppm	0 ppm	0 ppm	0 %
5 ppm	7 ppm	5.07 ppm	0.07 ppm	1.4 %

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3. NO<sub>x</sub> -10 PPM GAS FED:

Stand Gas concentration	Measured before Calibration	Measured After Calibration	Difference	Error (%)
0 ppm	0 ppm	0 ppm	0 ppm	0 %
8ppm	7.4 ppm	8.02 ppm	0.02 ppm	0.25 %

3 .PM-10/2.5 Monitor : 0.6 mg/m<sup>3</sup> :

Parameter	Reference Value mg/m <sup>3</sup>	Gain Value mg/m <sup>3</sup>	OFF Set Value mg/m <sup>3</sup>	Calibrated Value mg/m <sup>3</sup>
PM <sub>10</sub>	0.5	0.42	1.12	0.6
PM <sub>2.5</sub>	0.5	0.42	0.268	0.54

Functionality: Tested ok

TESTED BY

P Swaroopa  
(P.Swaroopa)



CHECKED BY

  
(D.Govindaraju)

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**TEST & CALIBRATION REPORT**

DATE OF CALIBRATION: 13.08.2022

Next calibration Due : 12.08.2023

<b>CUSTOMER:</b> M/s Sarda Metals & Alloys Ltd Vizag Common Purchasing Plant , APPIIC,Industrial Park ,Kantaka Palli ,Kothavalasa-535240, Vizanagaram ,India	P.O.No: 4400101416 Order Date: 14.08.2021 Instrument Model No:V_ Air-1000 Instrument Type: Air Quality Monitoring System Range: SO <sub>2</sub> : 0-10 PPM, NO <sub>x</sub> :0-10 PPM, PM <sub>10</sub> : 0- 0.6mg/m <sup>3</sup> , PM <sub>2.5</sub> : 0-0.6mg/m <sup>3</sup> .
---	---

Instrument Location : DM Plant  
Instruments Serial No : VI202100258  
Voltage Rating : 230V AC, 50Hz  
Calibrator used : Model: Air-Q-rate  
Standard gases Used :SO<sub>2</sub>: 5 PPM , NO<sub>x</sub>: 10PPM.

1. N<sub>2</sub>-99.9% GAS FED:

Parameter	Concentration value on display	Before Calibration	After Calibration	Difference PPM	Error(%)
SO <sub>2</sub>	000	000	000	000	00
NO <sub>x</sub>	000	000	000	000	00

2. SO<sub>2</sub> -5 PPM GAS FED:

Stand Gas concentration	Measured before Calibration	Measured After Calibration	Difference	Error (%)
0 ppm	0 ppm	0 ppm	0 ppm	0 %
5 ppm	7 ppm	5.04 ppm	0.04 ppm	0.8 %

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522002, [info@vasthi.com](mailto:info@vasthi.com) Tele No. 0863-2238 667, Fax No.0863-2262 667

3. NO<sub>x</sub> -10 PPM GAS FED:

Stand Gas concentration	Measured before Calibration	Measured After Calibration	Difference	Error %
0 ppm	0 ppm	0 ppm	0 ppm	0 %
8ppm	7.4 ppm	8.06 ppm	0.06 ppm	0.75 %

3 .PM-10/2.5 Monitor : 0.6 mg/m<sup>3</sup> :

Parameter	Reference Value mg/m <sup>3</sup>	Gain Value mg/m <sup>3</sup>	OFF Set Value mg/m <sup>3</sup>	Calibrated Value mg/m <sup>3</sup>
PM <sub>10</sub>	0.5	0.42	1.12	0.6
PM <sub>2.5</sub>	0.5	0.42	0.268	0.54

Functionality: Tested ok

TESTED BY  
P.Swaroopa  
( P.Swaroopa )



CHECKED BY  
  
( D.Govindaraju )

M/s. Sarda Metals & Alloys Limited::Kantakapalli  
EC No: F.No.J-11011/164/2009-IA.II (I) Dated 27.05.2022



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CALIBRATION REPORT

Calibration Date: 22.06.2022

Next Calibration Due : 21.06.2023

<b>CUSTOMER:</b> M/s Sarda Metals & Alloys Pvt Ltd Vizag Common Purchasing Plant , APPIIC,Industrial Park ,Kantaka Palli ,Kothavalasa-535240, Vizanagaram ,India	Po.No : 6000029146 Dt.: 24.06.2021 Instrument.Location: Fad Stack Make: Land ,UK Model:4200
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Instruments Serial No : C42-13020

Test Items	Technical Requirements	Test Results
Appearance and Structure	Accessories Complete; Glass Clean; No Scratch on Surface	Passed
Zero Drift	$\pm 2\%F.S./24h$	1.2%
Span Drift	$\pm 2\%F.S./24h$	1.1%
Relativity	$R \geq 0.85$	1.3
Half width of the confidence interval	Half width of the confidence interval $\leq 10\%$	6%
Half width of the allowed interval	Half width of the allowed interval $\leq 25\%$	18%
Accuracy	When $> 200mg/m^3$ , relative error $\leq \pm 15\%$	10%

Tested By

P. Swaroopa  
P.Swaroopa



Checked By

Y.Nandini  
Y.Nandini

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Plot No. 21 & 22, Phase IV, Auto Nagar, Guntur - 522002.  
info@vasthi.com Tele No. 0863-2238 667, Fax No.0863-2262 667

CALIBRATION REPORT

Calibration Date: 22.06.2022

Next Calibration Due : 21.06.2023

<b>CUSTOMER:</b> M/s Sarda Metals & Alloys Pvt Ltd Vizag Common Purchasing Plant , APPIIC,Industrial Park ,Kantaka Palli , Kothavalasa-535240, Vizanagaram , India.	Po.No : 6000029145 Dt.: 24.06.2021 Instrument Type: Dust /Opacity monitor
--	---

Instruments Serial No : 183415-14

SLNo	Parameter	Before Calibration	After Calibration	Cal Check
1	Zero(0)	Opacity =1.5%	Opacity =0.2%	1.3%
2	Span(100)	Opacity = 98.6%	Opacity =100%	1.4%

Checked By

P. Swaroopa  
P.Swaroopa



Tested By

Y.Nandini  
Y.Nandini

**M/s. Sarda Metals & Alloys Limited::Kantakapalli**  
**EC No: F.No.J-11011/164/2009-IA.II (I) Dated 27.05.2022**



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**CALIBRATION REPORT**

Calibration Date: 22.06.2022

Next calibration Due : 21.06.2023

<b>CUSTOMER:</b> M/s Sarda Metals & Alloys Ltd Vizag Common Purchasing Plant , APPIC,Industrial Park ,Kantaka Palli ,Kothavalasa-535240, Vizanagaram ,India	Po.No : 6000029145 Dt.: 24.06.2021 Instrument Type: Stack Opacity Meter <b>P/P</b> Range :SO2: 0 -2000PPM, NOx:0- 1000PPM,CO:0-2000PPM
---	--

Instrument model : PSGM-1-D-AGS(M)  
 Instrument Make : Prima  
 Instrument location : Power Plant  
 Instruments Serial No : 1706020  
 Voltage Rating : 230V AC, 50Hz

Calibration Gas Range : CO : 796PPM, SO2:990 PPM, Nox:967PPM,  
 Functional Tests : O.K

**1. Nitrogen - 99.99 % Gas Fed**

Gases used	Concentration value on display	Before Calibration	After Calibration	Difference mg/m <sup>3</sup>	% Error
SO2	0000	0000	0000	0000	000
NOx	0000	0000	0000	0000	000
CO	0000	0000	0000	0000	000

**2. CO - 796PPM Gas Fed**

Gases used	Concentration value	Before Calibration	After Calibration	Difference mg/m <sup>3</sup>	% Error
CO	796	795	796	0001	0.1%
SO2	----	0000	0000	0000	000
NOx	----	0000	0000	0000	000

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**3. SO2-990 PPM Gas Fed**

Gases used	Concentration value	Before Calibration	After Calibration	Difference PPM	% Error
SO2	990 PPM	995 PPM	993 PPM	2	0.2%
NOx	----	0000	0000	0000	000
CO	----	0000	0000	0000	000

**4. NOx- 967 PPM Gas Fed**

Gases used	Concentration value	Before Calibration	After Calibration	Difference PPM	% Error
NOx	967 PPM	966 PPM	967 PPM	1	0.1%
SO2	----	0000	0000	0000	000
CO	----	0000	0000	0000	000

Checked By

P. Swaroopa  
 P.Swaroopa



Tested By

Y. Nandini  
 Y.Nandini

**ANNEXURE-5**  
**FUMES EXTRACTION SYSTEM**



**ANNEXURE-6**  
**3 TIRE GREENBELT DEVELOPMENT-PLANT INSIDE**



**ANNEXURE-7**  
**SWEEPING MACHINES**



**ANNEXURE-8**  
**THIRD PARTY MONITORING REPORTS**



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Info@svenviolabs.com, svenviro\_labs@yahoo.co.in

Branch Office : 2-53, Mahipala Street, Yanam - 533464.

Ref: SVELC/SMAL/22-10/01

Date: 21-10-2022

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 : 11-10-2022 @ 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 $\mu$ ) or PM <sub>10</sub>	$\mu\text{g}/\text{m}^3$	59.8	100	IS:5182 (P-23) Gravimetric
2.	Particulate Matter(Size<2.5 $\mu$ ) or PM <sub>2.5</sub>	$\mu\text{g}/\text{m}^3$	27.4	60	IS:5182 (P-24) Gravimetric
3.	Sulphur Dioxide – SO <sub>2</sub>	$\mu\text{g}/\text{m}^3$	13.9	80	IS:5182 (P-2) - West and Gaeke Method
4.	Oxides of Nitrogen – NO <sub>x</sub>	$\mu\text{g}/\text{m}^3$	11.7	80	IS:5182(P-6) - Jacob & Hochheiser Method

  
CHECKED BY



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Branch Office : 2-53, Mahipala Street, Yanam - 533464.

Ref: SVELC/SMAL/22-10/02

Date: 21-10-2022

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 : 11-10-2022 @ 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 $\mu$ ) or PM <sub>10</sub>	$\mu\text{g}/\text{m}^3$	52.7	100	IS:5182 (P-23) Gravimetric
2.	Particulate Matter(Size<2.5 $\mu$ ) or PM <sub>2.5</sub>	$\mu\text{g}/\text{m}^3$	25.9	60	IS:5182 (P-24) Gravimetric
3.	Sulphur Dioxide – SO <sub>2</sub>	$\mu\text{g}/\text{m}^3$	12.8	80	IS:5182 (P-2) - West and Gaeke Method
4.	Oxides of Nitrogen – NO <sub>x</sub>	$\mu\text{g}/\text{m}^3$	10.1	80	IS:5182(P-6) - Jacob & Hochheiser Method

  
CHECKED BY



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M/s. Sarda Metals & Alloys Limited::Kantakapalli  
EC No: F.No.J-11011/164/2009-IA.II (I) Dated 27.05.2022



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Ref: SVELC/SMAL/22-10/03

Date: 21-10-2022



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 RO PLANT

DATE & TIME OF START : 11-10-2022 @ 10:45hr

DURATION OF SAMPLING : 24 Hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

S.No	PARAMETER	UNIT	RESULT	NAAQ STANDARDS	METHOD
1.	Particulate Matter(Size<10µ) or PM <sub>10</sub>	µg/m <sup>3</sup>	51.4	100	IS:5182 (P-23) Gravimetric
2.	Particulate Matter(Size<2.5µ) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	22.7	60	IS:5182 (P-24) Gravimetric
3.	Sulphur Dioxide – SO <sub>2</sub>	µg/m <sup>3</sup>	12.1	80	IS:5182 (P-2) - West and Gaeke Method
4.	Oxides of Nitrogen – NO <sub>x</sub>	µg/m <sup>3</sup>	10.9	80	IS:5182(P-6) - Jacob & Hochheiser Method

Checked by: *Abhishek*

CHECKED BY



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Ref: SVELC/SMAL/22-10/04

Date: 21-10-2022



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 : 11-10-2022 @ 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 <sup>3</sup>	1.02	IS:5182 (P-4)
2.	Respirable Suspended Particulate Matter – RSPM	mg/m <sup>3</sup>	0.75	IS:5182 (P-23)

Checked by: *Abhishek*

CHECKED BY



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Ref: SVELC/SMAL/22-10/05

Date: 21-10-2022



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 : 11-10-2022 @ 11:30hr

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 <sup>3</sup>	1.21	IS:5182 (P-4)
2.	Respirable Suspended Particulate Matter – RSPM	mg/m <sup>3</sup>	0.89	IS:5182 (P-23)

  
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Ref: SVELC/SMAL/22-10/06

Date: 21-10-2022



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 : 11-10-2022 @ 11:45hr

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 <sup>3</sup>	0.68	IS:5182 (P-4)
2.	Respirable Suspended Particulate Matter – RSPM	mg/m <sup>3</sup>	0.49	IS:5182 (P-23)

  
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Date: 21-10-2022



Ref: SVELC/SMAL/22-10/07

NAME AND ADDRESS : M/s. SARVA 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 : 11-10-2022 @ 12:00hr

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 <sup>3</sup>	0.57	IS:5182 (P-4)
2.	Respirable Suspended Particulate Matter – RSPM	mg/m <sup>3</sup>	0.38	IS:5182 (P-23)

  
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Date: 21-10-2022



Ref: SVELC/SMAL/22-10/08

NAME AND ADDRESS : M/s. SARVA METALS AND ALLOYS LTD.,  
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 : 11-10-2022 @ 12:15hr

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 <sup>3</sup>	0.84	IS:5182 (P-4)
2.	Respirable Suspended Particulate Matter – RSPM	mg/m <sup>3</sup>	0.63	IS:5182 (P-23)

  
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(Environmental Engineers & Consultants in Pollution Control)

Corporate Office : Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam-530012  
& Laboratory www.svenviolabs.com, Ph:0891-2755528, Cell: +91 9440338628  
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Branch Office : 2-53, Mahipala Street, Yanam - 533464.

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Ref: SVELC/SMAL/22-10/11

Date: 21-10-2022

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 : Stack Attached to FAD

DATE & TIME OF COLLECTION : 11-10-2022 @ 14:45hr

**TEST REPORT**

S.No	DESCRIPTION	UNIT	RESULT
1.	Stack Height	m	65
2.	Diameter of the Stack	m	4.0
3.	C/s Area of Stack	m <sup>2</sup>	12.56
4.	Pitot Coefficient	-	0.87
5.	Specific Gravity of Fluid	-	1.0
6.	Temperature @ DGM	<sup>0</sup> C	33
7.	Stack Temperature	<sup>0</sup> C	145
8.	Nozzle Diameter	mm	09
9.	Exit Velocity	m/sec	6.28
10.	Gas Quantity	m <sup>3</sup> /hr	283956
11.	Duration of Sampling	minutes	45

**EMISSION RATE**

S.No	PARAMETER	UNITS	RESULT	PCB STANDARD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	36.8	50
2.	Sulphur Dioxide – SO <sub>2</sub>	mg/Nm <sup>3</sup>	77.4	-
3.	Oxides of Nitrogen – NO <sub>x</sub>	mg/Nm <sup>3</sup>	91.6	-
4.	Mercury – Hg	mg/Nm <sup>3</sup>	< 0.0056	-

  
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Ref: SVELC/SMAL/22-10/12

Date: 21-10-2022

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 : 11-10-2022 @ 15:30hr

### 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 <sup>2</sup>	35.13
4.	Pitot Coefficient	-	0.87
5.	Specific Gravity of Fluid	-	1.0
6.	Temperature @ DGM	<sup>o</sup> C	32
7.	Stack Temperature	<sup>o</sup> C	133
8.	Nozzle Diameter	mm	09
9.	Exit Velocity	m/sec	5.57
10.	Gas Quantity	m <sup>3</sup> /hr	704426
11.	Duration of Sampling	minutes	60

### EMISSION RATE

S.No	PARAMETER	UNIT	RESULT	PCB STANDARD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	32.7	50
2.	Sulphur Dioxide – SO <sub>2</sub>	mg/Nm <sup>3</sup>	271	600
3.	Oxides of Nitrogen – NO <sub>x</sub>	mg/Nm <sup>3</sup>	165	300
4.	Mercury – Hg	mg/Nm <sup>3</sup>	< 0.0056	-

  
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**ANNEXURE-9**  
**FAD-DUST EXTRACTION SYSTEM**



**ANNEXURE-10**  
**TUNNEL VENTILATION SYSTEM AT PP GROUND HOPPER**



**ANNEXURE-11**  
**OPEN BORE WELL-PIEZOMETER**





**GROUND WATER QUALITY DATA**



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Ref: SVELC/SMAL/22-10/18

Date: 21-10-2022

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 BOREWELL

DATE OF COLLECTION : 11-10-2022

**TEST REPORT**

S.No	Parameter	Unit	Result	IS 10500:2012 Drinking Water Specifications
1.	Colour	Hazen	3.28	5.0
2.	Odour	-	Agreeable	Agreeable
3.	Taste	-	Agreeable	Agreeable
4.	Turbidity	NTU	<0.01	1.0
5.	pH	-	6.82	6.5 – 8.5
6.	Total Dissolved Solids	mg/l	276	500
7.	Total Alkalinity as CaCO <sub>3</sub>	mg/l	145	200
8.	Total Hardness as CaCO <sub>3</sub>	mg/l	148	200
9.	Calcium as Ca	mg/l	45.3	75
10.	Magnesium as Mg	mg/l	8.57	30
11.	Chlorides as Cl	mg/l	59.2	250
12.	Fluorides as F	mg/l	0.50	1.0
13.	Nitrates as NO <sub>3</sub> <sup>-</sup>	mg/l	1.49	45
14.	Sulphates as SO <sub>4</sub>	mg/l	15.6	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 <sub>6</sub> H <sub>5</sub> 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 <sub>2</sub> 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 <sub>2</sub> )	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

**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, 23<sup>rd</sup> Edition, 2017

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

  
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Ref: SVELC/SMAL/22-10/19

Date: 21-10-2022

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 : 11-10-2022

**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	0.41	1.0
5.	pH	-	7.79	6.5 - 8.5
6.	Total Dissolved Solids	mg/l	243	500
7.	Total Alkalinity as CaCO <sub>3</sub>	mg/l	73.1	200
8.	Total Hardness as CaCO <sub>3</sub>	mg/l	172	200
9.	Calcium as Ca	mg/l	36.2	75
10.	Magnesium as Mg	mg/l	20.0	30
11.	Chlorides as Cl	mg/l	61.4	250
12.	Fluorides as F	mg/l	<0.01	1.0
13.	Nitrates as NO <sub>3</sub> <sup>-</sup>	mg/l	8.03	45
14.	Sulphates as SO <sub>4</sub>	mg/l	19.8	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 <sub>6</sub> H <sub>5</sub> 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 <sub>2</sub> 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 <sub>2</sub> )	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

**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, 23<sup>rd</sup> Edition, 2017

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

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**ANNEXURE-12**  
**STP (Waste water treatment facilities)**  
**AUTOMATIC COMPRESSOR**





**WASTE WATER QUALITY REPORTS**  
**SV ENVIRO LABS & CONSULTANTS**  
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Ref: SVELC/SMAL/22-10/17

Date: 21-10-2022



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 : 1. CPP- STP INLET  
2. CPP - STP OUTLET  
3. FAD-STP INLET  
4. FAD-STP OUTLET

DATE OF COLLECTION : 11-10-2022

**TEST REPORT**

S.No	Parameter	Unit	1	2	3	4	Discharge Standards
1.	pH	--	7.29	7.82	7.16	7.65	6.5 - 8.5
2.	Total Dissolved Solids	mg/l	282	239	578	224	2100
3.	Total Suspended Solids	mg/l	35	34	50	13	100
4.	COD	mg/l	57.4	34.6	256	<10	250
5.	BOD 3days 27°C	mg/l	25.0	16.0	110	<3	30
6.	Oil & Grease	mg/l	<1.0	<1.0	2.2	<1.0	10
7.	Fecal Coliforms	-MPN/100ml	439	36	792	28	-

  
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Ref: SVELC/SMAL/22-10/16

Date: 21-10-2022



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

SAMPLE PARTICULARS : EFFLUENT WATER

SOURCE OF COLLECTION : 1. FAD-COOLING TOWER  
2. CPP - COOLING TOWER  
3. GUARD POND  
4. NEUTRALISATION PIT

DATE OF COLLECTION : 11-10-2022

**TEST REPORT**

S.No	Parameter	Unit	1	2	3	4	Discharge Standards
1.	pH	--	8.52	7.36	6.61	7.04	6.5 - 8.5
2.	Total Dissolved Solids	mg/l	1716	1653	1755	1268	2100
3.	Total Suspended Solids	mg/l	11.0	5.0	9.0	15.0	100
4.	COD	mg/l	25.8	32.6	30.4	22.9	250
5.	BOD 3d 27°C	mg/l	12	17	15	10	30
6.	Oil & Grease	mg/l	<1.0	<1.0	<1.0	<1.0	10

  
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**ANNEXURE-13  
GARLAD DRAINS**



ANNEXURE-14  
NOISE MONITORING DATA



**SV ENVIRO LABS & CONSULTANTS**  
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Ref: SVELC/SMAL/22-10/15

Date: 21-10-2022



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Kothavalasa-535240,  
Vizianagaram.

SAMPLE PARTICULARS : NOISE LEVEL

DATE OF COLLECTION : 11-10-2022

TEST REPORT

S.No	SOURCE OF COLLECTION	Noise levels measured in dB(A)		Method
		DAY	NIGHT	
1.	Near Security Gate	70.5	61.3	IS:4954 – 1968 Noise Level Meter
2.	Near RO Plant	63.7	57.8	
3.	Near Admin Building	58.9	52.6	
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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Ref: SVELC/SMAL/22-10/14

Date: 21-10-2022



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

SAMPLE PARTICULARS : WORK ZONE NOISE (FAD)

DATE OF COLLECTION : 11-10-2022

TEST REPORT

S.No	SOURCE OF COLLECTION	Noise levels measured in dB(A)	Method
1.	Near Furnace 1	68.2	IS:4954 – 1968 Noise Level Meter
2.	Near Furnace 2	69.6	
3.	Metal Breaking Yard	73.4	
4.	28 Metre Area	75.1	
5.	RMHS Area	68.7	
CPCB STANDARDS		90.0	



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Ref: SVELC/SMAL/22-10/13

Date: 21-10-2022



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APIIC, Industrial Park, Kantakapalli,  
Kothavalasa-535240,  
Vizianagaram.**

SAMPLE PARTICULARS : **WORK ZONE NOISE (CPP)**

DATE OF COLLECTION : 11-10-2022

**TEST REPORT**

S.No	SOURCE OF COLLECTION	Noise levels measured in dB(A)	Method
1.	Near Boiler Area	72.4	IS:4954 – 1968 Noise Level Meter
2.	Near TG Building	75.7	
3.	Near CHP Ground Hopper	69.2	
4.	Near CHP Crushes House	71.3	
5.	Near FD Fan	63.9	
6.	Near Coal Mill Area	71.6	
7.	Compressor Area	74.5	
8.	Near ID Fan Area	74.1	
<b>CPCB STANDARDS</b>		<b>90.0</b>	



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**ANNEXURE-15**  
**BIO GAS PLANT AT MAIN CANTEEN**

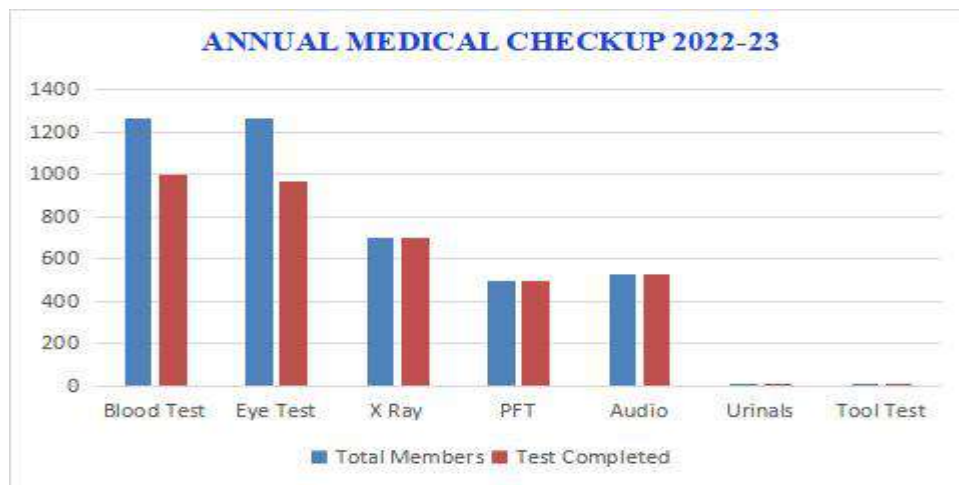




**ANNEXURE-16  
 ANNUAL MEDICAL CHECK UP**



<b>ANNUAL MEDICAL CHECKUP 2022-23</b>							
	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-17**  
**EC - NEWS PAPER PUBLICATIONS**

**గమనిక**

M/s. సర్దా మెటల్స్ & అల్యాయిస్ 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 ఆండ్రప్రదేశ్ కాలుష్య నియంత్రణ మండలి వద్ద అందుబాటులో ఉన్నాయి. మరియు MoEFCC వెబ్సైట్లో కూడా చూడవచ్చు (<http://parvesh.nic.in>)

**M/s సర్దా మెటల్స్ & అల్యాయిస్ లిమిటెడ్**  
APIIC ఇండస్ట్రియల్ పార్క్, కంటకపల్లి గ్రామం, కొత్తవలస మండలం, విజయనగరం జిల్లా, ఆండ్రప్రదేశ్-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.**

**M/s. Sarda Metals & Alloys Limited::Kantakapalli**  
**EC No: F.No.J-11011/164/2009-IA.II (I) Dated 27.05.2022**



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



**Ref: SMAL/APPCB/EC/5-22**

**Date:30.05.2022**

**To,**  
**The Environmental Engineer,**  
**Andhra Pradesh Pollution Control board,**  
**Vizianagaram.**

Dear Sir

**Sub: Proposed Expansion of Expansion of Ferro Alloy Plant, Captive Power Plant and installation of Steel Melting Shop, Mineral Fibre Plant by M/s. Sarda Metals & Alloys Ltd. in APIIC Industrial Park, Kantakapalli (V), Kothavalasa (M), Vizianagaram (Dist.), A.P**

**Ref: – Environmental Clearance Lr. No: J-11011/164/2009-IA. II (I) dated 27.05.2022**

We are pleased to inform you that Ministry of Environment, Forest and Climate Change (MoEFCC) has granted Environmental Clearance for our proposed expansion vide reference above.

A copy of Environmental clearance is attached for your reference.

Thanking You

Yours Sincerely  
For M/s. Sarda Metals and Alloys Limited

**Surya Bhaskaram,**  
**Assistant General Manager- EHS**

**Encl: Copy of EC**



Factory : APIIC, Industrial Park, Kantakapalli, Kothavalasa Vizianagaram - 535 240, (AP) India. (C) : +91 8922 248203  
Registered Office : 125 Mittal Court B wing, Nariman Point, Mumbai - 400021 (MH) Tel: +91 22 22884640 B.T.F. : +022 22826689

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

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



**Ref: SMAL/APPCB/EC/5-22**

**Date:30.05.2022**

**To,**  
**The District Collector & Magistrate,**  
**Vizianagaram.**

Dear Sir

**Sub: Proposed Expansion of Expansion of Ferro Alloy Plant, Captive Power Plant and installation of Steel Melting Shop, Mineral Fibre Plant by M/s. Sarda Metals & Alloys Ltd. in APIIC Industrial Park, Kantakapalli (V), Kothavalasa (M), Vizianagaram (Dist.), A.P**

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**Surya Bhaskaram,**  
**Assistant General Manager- EHS**

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**M/s. Sarda Metals & Alloys Limited::Kantakapalli**  
**EC No: F.No.J-11011/164/2009-IA.II (I) Dated 27.05.2022**



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

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



**Ref: SMAL/APP/EC/5-22**

**Date:30.05.2022**

To,  
The Panchayat Secretary,  
Gram Panchayat,  
Kantakapalli,  
Kothavalasa mandalam,  
Vizianagaram.

Dear Sir,

**Sub: Proposed Expansion of Expansion of Ferro Alloy Plant, Captive Power Plant and installation of Steel Melting Shop, Mineral Fibre Plant by M/s. Sarda Metals & Alloys Ltd. in APIIC Industrial Park, Kantakapalli (V), Kothavalasa (M), Vizianagaram (Dist.), A.P**

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Thanking You

Yours Sincerely  
For **M/s. Sarda Metals and Alloys Limited**

**Surya Bhaskaram,**  
**Assistant General Manager- EHS**

**Encl: Copy of EC**

Received copy  
30.5.2022  
PANCHAYAT SECRETARY  
GRAM PANCHAYAT  
KANTAKAPALLI  
Kothavalasa Mandel, VZM

D. No. 50-96-4/1, Floor II & III  
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**Ref: SMAL/APP/EC/5-22**

**Date:30.05.2022**

To,  
General Manager,  
District Industries Centre,  
Vizianagaram.

Dear Sir

**Sub: Proposed Expansion of Expansion of Ferro Alloy Plant, Captive Power Plant and installation of Steel Melting Shop, Mineral Fibre Plant by M/s. Sarda Metals & Alloys Ltd. in APIIC Industrial Park, Kantakapalli (V), Kothavalasa (M), Vizianagaram (Dist.), A.P**

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For **M/s. Sarda Metals and Alloys Limited**

**Surya Bhaskaram,**  
**Assistant General Manager- EHS**

**Encl: Copy of EC**



**M/s. Sarda Metals & Alloys Limited::Kantakapalli**  
**EC No: F.No.J-11011/164/2009-IA.II (I) Dated 27.05.2022**



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Ref: SMAL/APPCB/EC/5-22

Date:30.05.2022

To,  
The District Revenue Officer,  
Vizianagaram.

Dear Sir

**Sub: Proposed Expansion of Expansion of Ferro Alloy Plant, Captive Power Plant and installation of Steel Melting Shop, Mineral Fibre Plant by M/s. Sarda Metals & Alloys Ltd. in APIIC Industrial Park, Kantakapalli (V), Kothavalasa (M), Vizianagaram (Dist.), A.P**

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Yours Sincerely  
For **M/s. Sarda Metals and Alloys Limited**

  
**Surya Bhaskaram,**  
**Assistant General Manager- EHS**  
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Ref: SMAL/APPCB/EC/5-22

Date:30.05.2022

To,  
The Revenue Divisional Officer,  
Vizianagaram.

Dear Sir

**Sub: Proposed Expansion of Expansion of Ferro Alloy Plant, Captive Power Plant and installation of Steel Melting Shop, Mineral Fibre Plant by M/s. Sarda Metals & Alloys Ltd. in APIIC Industrial Park, Kantakapalli (V), Kothavalasa (M), Vizianagaram (Dist.), A.P**

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Yours Sincerely  
For **M/s. Sarda Metals and Alloys Limited**

  
**Surya Bhaskaram,**  
**Assistant General Manager- EHS**  
Encl: Copy of EC



**M/s. Sarda Metals & Alloys Limited::Kantakapalli**  
**EC No: F.No.J-11011/164/2009-IA.II (I) Dated 27.05.2022**



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**Ref: SMAL/APPCB/EC/5-22**

**Date:30.05.2022**

To,

**The Tahsildar,  
Tahsildar office,  
Kothavalasa,  
Vizianagaram.**

Dear Sir

**Sub: Proposed Expansion of Expansion of Ferro Alloy Plant, Captive Power Plant and installation of Steel Melting Shop, Mineral Fibre Plant by M/s. Sarda Metals & Alloys Ltd. in APIIC Industrial Park, Kantakapalli (V), Kothavalasa (M), Vizianagaram (Dist.), A.P**

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Yours Sincerely  
For **M/s. Sarda Metals and Alloys Limited**

  
**Surya Bhaskaram,  
Assistant General Manager- EHS**

Encl: Copy of EC



**ANNEXURE-18**  
**Digital Display Board At Main Gate**



**ANNEXURE-19**  
**FORM-V**

D. No. 50-96-4/1, Floor II & III  
Srigowri Nilayam, Seethammadhara NE  
Visakhapatnam -530013  
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Tel : +91 891 2858200  
Fax : +91 891 2700864  
www.seml.co.in



Ref No: SMAL/Envi/Form-V/2021-22

Date: 13 /09/2022.

To

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

Sub: Submission of Environment Statement Form-V.

Dear Sir,

With reference to the above subject we M/s. Sarda Metals and Alloys Limited located at Kantakapalli, Kothavalasa Mandal, and Vizianagaram District are herewith submitting the Environment Statement in Form-V as per the rule 14 of Environment Protection Rules for the financial year 2021-2022.

This is for your kind information and kindly acknowledge the receipt of the same.

Thank you.

Yours Faithfully  
For Sarda Metals & Alloys Limited

**V. Surya Bhaskaram**  
Assistant General Manager-EHS  
Authorized Signatory

Copy to:

1. IRO-Vijayawada
2. APSPCB-Vijayawada

Annexure: Environment Statement Form-V.

