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**SMAL/IRO-MoEF&CC/HCR/2024-25**

Date: 15.04.2025

To

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

Dear Sir,

**Sub:** Submission of Half yearly EC compliance report for the period of October 2024 to  
March 2025 - Reg

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

With reference to the above subject, we 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 Environmental Clearance compliance report for the period of **October 2024 to March 2025** 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**  
DGM - EHS  
Authorised Signatory

Encl: Half Yearly EC Compliance report.

**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 01<sup>ST</sup> OCTOBER 2024 TO 31<sup>ST</sup> MARCH 2025**

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	<div>The industry has developed green belt above 33% i.e., 94.11 acres as per MoEF&amp;CC guidelines. 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:</div> <table><tr><td>Area of Greenbelt</td><td>94.11 Acres/38.08 Ha</td></tr><tr><td>Tree Density</td><td>2500 trees / Ha. Or 1012 trees/ Acre</td></tr><tr><td>Width of Greenbelt</td><td>15m all along the periphery of the plant boundary</td></tr><tr><td>Required No. of Saplings to be planted</td><td>95200 trees</td></tr><tr><td>Number of trees already Planted</td><td>47055 trees</td></tr></table> <div>Plantation will be done phase-wise and the status of the same will be submitted to RO, MoEF &amp; CC.</div>	Area of Greenbelt	94.11 Acres/38.08 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	95200 trees	Number of trees already Planted	47055 trees
Area of Greenbelt	94.11 Acres/38.08 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	95200 trees											
Number of trees already Planted	47055 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. 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.	<div>a. The industry have provided Fog / Mist Sprinklers 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. Fog / Mist Sprinklers Photographs are attached as <b>Annexure-1</b>.</div> <div>b. The industry is Covering the vehicles while transporting the material. Photographs are attached as <b>Annexure-2</b>.</div> <div>c. The industry has provided the tyre washing facility. <b>Annexure 3</b></div>										

S. No.	CONDITIONS	COMPLIANCES
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-4</b> .
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 <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.	The industry has provided Fume extraction system <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.	The industry is disposing slag 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.	The industry is 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.	The industry is 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.	One number of truck-mounted Fog/Mist water cannons was provided for operate 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.	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. <b>Annexure-7</b> .
xiii.	Project proponent shall follow safeguards to control the exposure of	Not applicable at this stage as Industry still has not established mineral fiber plant.

S. No.	CONDITIONS	COMPLIANCES
	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.	
<b>GENERAL CONDITIONS:</b>		
<b>I. Statutory Compliance:</b>		
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.
<b>II. Air quality monitoring and preservation</b>		
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. The industry has 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 serverURL: <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 fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	<b>Noted and being followed</b> The industry is monitoring fugitive emissions in the plant premises at least once in every quarter through with third party NABL accredited laboratory M/s. S.V. Enviro Labs and Consultants. <b>Annexure-8</b>
iii.	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust	Noted for compliance. The industry has provided Bag house at FAD and ESP at the power plant. Dust extraction

S. No.	CONDITIONS	COMPLIANCES
	from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.	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 by the industry 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.	The industry is covering all vehicles during transportation of coal and other material.
vii.	The project proponent shall provide primary and secondary fume extraction system at all melting furnaces.	The industry has 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.	The industry has provided the ventilation system for adequate air changes in the applicable areas. Ventilation system photographs are attached as <b>Annexure-10</b>

### 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: <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>
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S. No.	CONDITIONS	COMPLIANCES
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 The industry 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	The industry has provided sewage treatment plant for treatment of domestic wastewater to meet the prescribed standards. <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 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 run-off in the event of heavy rains and to check the water pollution due to surface run off.	The industry has provided garland drains at applicable areas
vi.	Tyre washing facilities shall be provided at the entrance/exit of the plant gates.	The industry has provided tyre washing facility and it is working condition.
<b>IV. Noise monitoring and prevention</b>		
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. Noise monitoring conducting regularly with NABL accredited laboratory M/s. S.V. Enviro Labs and reports being submitted to RO MoEF. Monitoring reports are attached as <b>annexure-8</b>
<b>V. Energy Conservation measures</b>		
i.	Energy conservation measures may be adopted such as adoption of solar energy and provision of LED lights etc., to minimize the energy consumption.	The industry has 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. Waste management</b>		
i.	Used refractories shall be recycled.	Noted and being followed
ii.	Kitchen waste shall be composted or converted to biogas for further use.	The industry has provided Biogas system and kitchen waste being composted in the same. Generated bio-gas is being used in the kitchen

S. No.	CONDITIONS	COMPLIANCES
		for cooking. Biogas system and kitchen photographs are attached as <b>Annexure-13</b>
<b>VII. 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. The industry 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 able with defined time frames.	The industry will submit study report on Decarbonization program and time-bound action plan.
<b>VIII. 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 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.	The industry has conducted industrial hygiene survey 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 by the industry.
<b>IX. 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,	The industry will undertake community development activities in consultation with the village Panchayat and the District Administration in phasewise.

S. No.	CONDITIONS	COMPLIANCES
	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.	
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.	Complied by the industry. Environment cell formed with Asst.Manager and DGM-EHS. DGM-EHS directly reports to the Head of the organization.
<b>X. 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 by the industry. Industry made public the environmental clearance granted in two local newspapers of the District of which one is in the vernacular language <b>Annexure-14</b>



S. No.	CONDITIONS	COMPLIANCES
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.	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. The industry is submitting status of compliance of the stipulated environment clearance conditions, including results of monitored data on parivesh portal
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.	The industry has provided display board at the main gate. Digital Display board photographs are attached as <b>Annexure-15</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 amended subsequently and put on the website of the company.	The industry has submitted Form-V to APPCB. Form-V Acknowledgement Copy is attached as <b>Annexure-16</b>
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.

<b>S. No.</b>	<b>CONDITIONS</b>	<b>COMPLIANCES</b>
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.	The industry 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 by the industry.
xi.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted by the industry.
xii.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	The industry 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 by the industry.
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 by the industry.

## 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>
	

## IMAGE OF FOG MIST CANNON



**MATERIAL TRANSPORTATION COVERED WITH TOURPALIN**



**Tyre Washing Facility at Main Gate**





**CONCRETE/ BITUMEN ROADS INSIDE PLANT**



## FUMES EXTRACTION SYSTEM





**GREEN BELT PHOTOGRAPHS IN THE PLANT AREA**





## SWEEPING MACHINES



**THIRD PARTY ENVIRONMENT MONITORING REPORTS**



# 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.  
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Recognized by Govt. of India-MoEF & CC, New Delhi, Accredited by : NABL & NABET



**Ref: SVELC/SMAL/25-01/01**

**Date: 30-01-2025**

**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 :** 20-01-2025 @ 09:45hr

**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>	$\mu\text{g}/\text{m}^3$	66.7	100	IS:5182 (P-23) Gravimetric
2.	Particulate Matter(Size<2.5 $\mu$ ) or PM <sub>2.5</sub>	$\mu\text{g}/\text{m}^3$	27.3	60	IS:5182 (P-24) Gravimetric
3.	Sulphur Dioxide – SO <sub>2</sub>	$\mu\text{g}/\text{m}^3$	15.9	80	IS:5182 (P-2) - West and Gaeke Method
4.	Nitrogen Dioxide – NO <sub>2</sub>	$\mu\text{g}/\text{m}^3$	16.4	80	IS:5182(P-6) - Jacob & Hochheiser Method

  
**CHECKED BY**



  
**SV ENVIRO LABS & CONSULTANTS**



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**Ref: SVELC/SMAL/25-01/02**

**Date: 30-01-2025**

**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 :** 20-01-2025 @ 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 $\mu$ ) or PM <sub>10</sub>	$\mu\text{g}/\text{m}^3$	56.2	100	IS:5182 (P-23) Gravimetric
2.	Particulate Matter(Size<2.5 $\mu$ ) or PM <sub>2.5</sub>	$\mu\text{g}/\text{m}^3$	19.5	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.	Nitrogen Dioxide – NO <sub>2</sub>	$\mu\text{g}/\text{m}^3$	11.7	80	IS:5182(P-6) - Jacob & Hochheiser Method

  
**CHECKED BY**



  
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**Ref: SVELC/SMAL/25-01/03**

**Date: 30-01-2025**

**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 DM PLANT

**DATE & TIME OF START :** 20-01-2025 @ 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<10μ) or PM <sub>10</sub>	μg/m <sup>3</sup>	58.7	100	IS:5182 (P-23) Gravimetric
2.	Particulate Matter(Size<2.5μ) or PM <sub>2.5</sub>	μg/m <sup>3</sup>	20.9	60	IS:5182 (P-24) Gravimetric
3.	Sulphur Dioxide – SO <sub>2</sub>	μg/m <sup>3</sup>	13.6	80	IS:5182 (P-2) - West and Gaeke Method
4.	Nitrogen Dioxide – NO <sub>2</sub>	μg/m <sup>3</sup>	12.1	80	IS:5182(P-6) - Jacob & Hochheiser Method

*AP*  
**CHECKED BY**



*guy*  
**SV ENVIRO LABS & CONSULTANTS**





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(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.  
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**Ref: SVELC/SMAL/25-01/04**

**Date: 30-01-2025**

**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 :** 20-01-2025 @ 10:30hr

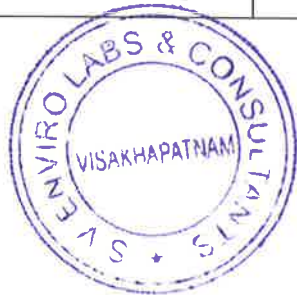
**DURATION OF SAMPLING :** 24 Hours

**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>	$\mu\text{g}/\text{m}^3$	67.1	100	IS:5182 (P-23) Gravimetric
2.	Particulate Matter(Size<2.5 $\mu$ ) or PM <sub>2.5</sub>	$\mu\text{g}/\text{m}^3$	29.3	60	IS:5182 (P-24) Gravimetric
3.	Sulphur Dioxide – SO <sub>2</sub>	$\mu\text{g}/\text{m}^3$	14.9	80	IS:5182 (P-2) - West and Gaeke Method
4.	Nitrogen Dioxide – NO <sub>2</sub>	$\mu\text{g}/\text{m}^3$	13.8	80	IS:5182(P-6) - Jacob & Hochheiser Method

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**Ref: SVELC/SMAL/25-01/05**

**Date: 30-01-2025**

**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 :** 21-01-2025 @ 10:15hr

**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>	1.03	IS:5182 (P-4)
2.	Respirable Suspended Particulate Matter – RSPM	mg/m <sup>3</sup>	0.68	IS:5182 (P-23)

  
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**Ref: SVELC/SMAL/25-01/06**

**Date: 30-01-2025**

**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 :** 20-01-2025 @ 10:45hr

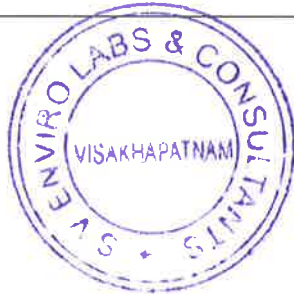
**DURATION OF SAMPLING :** 08 hours

**ATMOSPHERE CONDITION :** Clear Sky

## TEST REPORT

S.No	PARAMETER	UNIT	RESULT	METHOD
1.	Total Suspended Particulate Matter –TSPM	mg/m <sup>3</sup>	0.97	IS:5182 (P-4)
2.	Respirable Suspended Particulate Matter – RSPM	mg/m <sup>3</sup>	0.54	IS:5182 (P-23)

  
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**Ref: SVELC/SMAL/25-01/07**

**Date: 30-01-2025**

**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 FINISHED GOODS YARD AREA

**DATE & TIME OF START :** 20-01-2025 @ 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 <sup>3</sup>	0.83	IS:5182 (F-4)
2.	Respirable Suspended Particulate Matter – RSPM	mg/m <sup>3</sup>	0.51	IS:5182 (P-23)

  
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**Ref: SVELC/SMAL/25-01/08**

**Date: 30-01-2025**

**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 :** 20-01-2025 @ 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>	0.86	IS:5182 (P-4)
2.	Respirable Suspended Particulate Matter – RSPM	mg/m <sup>3</sup>	0.39	IS:5182 (P-23)

  
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**Ref: SVELC/SMAL/25-01/09**

**Date: 30-01-2025**

**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 RMHS AREA

**DATE & TIME OF START :** 21-01-2025 @ 10:30hr

**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>	1.05	IS:5182 (P-4)
2.	Respirable Suspended Particulate Matter – RSPM	mg/m <sup>3</sup>	0.73	IS:5182 (P-23)

  
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**Ref: SVELC/SMAL/25-01/10**

**Date: 30-01-2025**

**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 - I

**DATE & TIME OF COLLECTION :** 21-01-2025 @ 11:15 hr

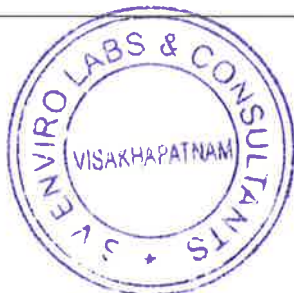
## TEST REPORT

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	°C	30
7.	Stack Temperature	°C	137
8.	Nozzle Diameter	mm	09
9.	Exit Velocity	m/sec	9.10
10.	Gas Quantity	m <sup>3</sup> /hr	411465
11.	Duration of Sampling	minutes	45

## EMISSION RATE

S.No	PARAMETER	UNIT	RESULT	CPCB STANDARD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	37.9	50

  
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**Ref:** SVELC/SMAL/25-01/11

**Date:** 30-01-2025

**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 - II

**DATE & TIME OF COLLECTION :** 21-01-2025 @ 12:00 hr

## 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	31
7.	Stack Temperature	<sup>0</sup> C	147
8.	Nozzle Diameter	mm	09
9.	Exit Velocity	m/sec	8.72
10.	Gas Quantity	m <sup>3</sup> /hr	394283
11.	Duration of Sampling	minutes	45

## EMISSION RATE

S.No	PARAMETER	UNIT	RESULT	CPCB STANDARD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	34.1	50

  
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**Ref:** SVELC/SMAL/25-01/12

**Date:** 30-01-2025

**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 :** 20-01-2025 @ 12:15 hr

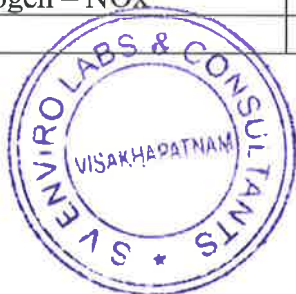
## TEST REPORT

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 <sup>2</sup>	35.13
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	147
8.	Nozzle Diameter	mm	09
9.	Exit Velocity	m/sec	7.21
10.	Gas Quantity	m <sup>3</sup> /hr	911834
11.	Duration of Sampling	minutes	60

## EMISSION RATE

S.No	PARAMETER	UNIT	RESULT	CPCB STANDARD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	38.4	50
2.	Sulphur Dioxide – SO <sub>2</sub>	mg/Nm <sup>3</sup>	207	600
3.	Oxides of Nitrogen – NO <sub>x</sub>	mg/Nm <sup>3</sup>	119	300
4.	Mercury – Hg	mg/Nm <sup>3</sup>	< 0.0056	0.03

  
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**Ref: SVELC/SMAL/25-01/13**

**Date: 30-01-2025**

**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 :** 250 KVA DG Set -I (POWER PLANT)

**DATE & TIME OF COLLECTION :** 20-01-2025 @ 13:00hr

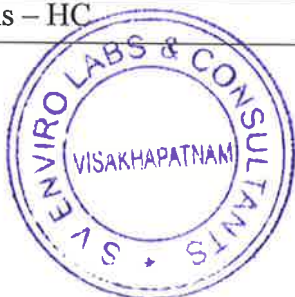
## TEST REPORT

S.No	DESCRIPTION	UNIT	RESULT
1.	Diameter of the Stack	m	0.0762
2.	C/s Area of Stack	m <sup>2</sup>	0.0045
3.	Pitot Coefficient	-	0.87
4.	Specific Gravity of Fluid	-	1.0
5.	Temperature @ DGM	°C	30
6.	Stack Temperature	°C	124
7.	Nozzle Diameter	mm	06
8.	Exit Velocity	m/sec	9.71
9.	Gas Quantity	Nm <sup>3</sup> /hr	117
10.	Duration of Sampling	minutes	45

## EMISSION RATE

S.No	PARAMETER	UNITS	RESULT	CPCB STANDARD
1.	Particulate Matter – PM	g/kw-hr	0.10	0.3
2.	Oxides of Nitrogen – NOx	g/kw-hr	1.24	9.2
3.	Carbon Monoxide – CO	g/kw-hr	0.60	3.5
4.	Hydrocarbons – HC	g/kw-hr	0.12	1.3

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**Ref: SVELC/SMAL/25-01/14**

**Date: 30-01-2025**

**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 :** 250 KVA DG Set –II (FAD)

**DATE & TIME OF COLLECTION :** 20-01-2025 @ 13:45hr

## TEST REPORT

S.No	DESCRIPTION	UNIT	RESULT
1.	Diameter of the Stack	m	0.0762
2.	C/s Area of Stack	m <sup>2</sup>	0.0045
3.	Pitot Coefficient	-	0.87
4.	Specific Gravity of Fluid	-	1.0
5.	Temperature @ DGM	<sup>0</sup> C	32
6.	Stack Temperature	<sup>0</sup> C	164
7.	Nozzle Diameter	mm	06
8.	Exit Velocity	m/sec	10.2
9.	Gas Quantity	Nm <sup>3</sup> /hr	112
10.	Duration of Sampling	minutes	45

## EMISSION RATE

S.No	PARAMETER	UNITS	RESULT	CPCB STANDARD
1.	Particulate Matter – PM	g/kw-hr	0.12	0.3
2.	Oxides of Nitrogen – NOx	g/kw-hr	1.57	9.2
3.	Carbon Monoxide – CO	g/kw-hr	0.73	3.5
4.	Hydrocarbons – HC	g/kw-hr	0.24	1.3

  
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**Ref:** SVELC/SMAL/25-01/15

**Date:** 30-01-2025

**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 :** 21-01-2025

## TEST REPORT

S.No	SOURCE OF COLLECTION	Noise levels measured in dB(A)		Method
		DAY	NIGHT	
1.	Near Security Gate	68.5	62.7	IS:4954 – 1968 Noise Level Meter
2.	Near RO Plant	64.9	59.3	
3.	Near Admin Building	67.3	61.8	
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/25-01/16**

**Date: 30-01-2025**

**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 :** 21-01-2025

## TEST REPORT

S.No	PARAMETER	UNIT	RESULT	Discharge Standards
1.	pH	--	7.64	6.5 – 8.5
2.	Total Dissolved Solids – TDS	mg/l	729	2100
3.	Total Suspended Solids – TSS	mg/l	3.0	100
4.	Chemical Oxygen Demand - COD	mg/l	<10.0	250
5.	Bio-Chemical oxygen demand - BOD (3 Days Incubation at 27°C)	mg/l	<3.0	30
6.	Oil & Grease	mg/l	<1.0	10

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**Ref: SVELC/SMAL/25-01/17**

**Date: 30-01-2025**

**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 :** CPP – COOLING TOWER

**DATE OF COLLECTION :** 21-01-2025

## TEST REPORT

S.No	PARAMETER	UNIT	RESULT	Discharge Standards
1.	pH	--	7.81	6.5 – 8.5
2.	Total Dissolved Solids – TDS	mg/l	913	2100
3.	Total Suspended Solids – TSS	mg/l	14.0	100
4	Chemical Oxygen Demand - COD	mg/l	40.0	250
5.	Bio-Chemical oxygen demand - BOD (3 Days Incubation at 27°C)	mg/l	16.0	30
6.	Oil & Grease	mg/l	<1.0	10

  
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**Ref: SVELC/SMAL/25-01/18**

**Date: 30-01-2025**

**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

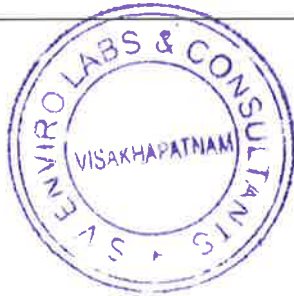
**SOURCE OF COLLECTION :** GUARD POND

**DATE OF COLLECTION :** 21-01-2025

## TEST REPORT

S.No	PARAMETER	UNIT	RESULT	Discharge Standards
1.	pH	--	7.15	6.5 – 8.5
2.	Total Dissolved Solids – TDS	mg/l	1024	2100
3.	Total Suspended Solids – TSS	mg/l	7.0	100
4.	Chemical Oxygen Demand - COD	mg/l	34.0	250
5.	Bio-Chemical oxygen demand - BOD (3 Days Incubation at 27°C)	mg/l	12.0	30
6.	Oil & Grease	mg/l	<1.0	10

  
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**Ref: SVELC/SMAL/25-01/19**

**Date: 30-01-2025**

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Kothavalasa-535240,  
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**SAMPLE PARTICULARS :** EFFLUENT WATER

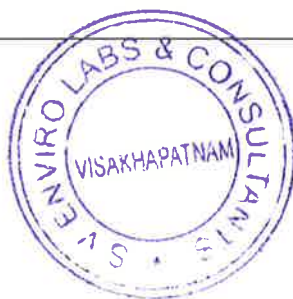
**SOURCE OF COLLECTION :** NEUTRALISATION PIT

**DATE OF COLLECTION :** 21-01-2025

## TEST REPORT

S.No	PARAMETER	UNIT	RESULT	Discharge Standards
1.	pH	--	7.05	6.5 – 8.5
2.	Total Dissolved Solids – TDS	mg/l	491	2100
3.	Total Suspended Solids - TSS	mg/l	2.0	100
4.	Chemical Oxygen Demand - COD	mg/l	<10.0	250
5.	Bio-Chemical oxygen demand - BOD (3 Days Incubation at 27°C)	mg/l	<3.0	30
6.	Oil & Grease	mg/l	<1.0	10

  
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**Ref: SVELC/SMAL/25-01/20**

**Date: 30-01-2025**

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

**SAMPLE PARTICULARS :** SEWAGE TREATED WATER

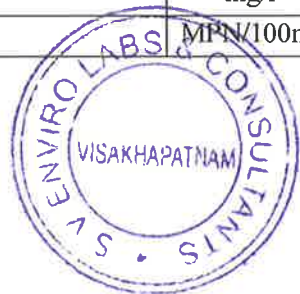
**SOURCE OF COLLECTION :** 1. STP OUTLET – NEAR RHMS  
2. STP OUTLET – NEAR FAD  
3. STP OUTLET – NEAR MRP  
4. STP OUTLET – NEAR POWER PLANT

**DATE OF COLLECTION :** 21-01-2025

## TEST REPORT

S.No	PARAMETER	UNIT	1	2	3	4	Discharge Standards
1.	pH	--	7.12	6.76	7.21	7.17	6.5 – 8.5
2.	Total Dissolved Solids - TDS	mg/l	369	815	548	374	2100
3.	Total Suspended Solids - TSS	mg/l	2.0	72.0	65.0	5.0	100
4.	Chemical Oxygen Demand - COD	mg/l	50.0	220	190	48.0	250
5.	Bio-Chemical oxygen demand - BOD (3 Days Incubation at 27°C)	mg/l	19.0	29.0	28.0	17.0	30
6.	Oil & Grease	mg/l	<1.0	2.0	2.0	<1.0	10
7.	Fecal Coliforms	MPN/100ml	12.0	163	47.0	15.0	<1000

  
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**Ref: SVELC/SMAL/25-01/21**

**Date: 30-01-2025**

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

**SAMPLE PARTICULARS :** GROUND WATER

**SOURCE OF COLLECTION :** ARIHANT BOREWELL

**DATE OF COLLECTION :** 21-01-2025

## 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	0.24	1.0
5.	pH	-	6.49	6.5 – 8.5
6.	Total Dissolved Solids	mg/l	326	500
7.	Total Alkalinity as CaCO <sub>3</sub>	mg/l	142	200
8.	Total Hardness as CaCO <sub>3</sub>	mg/l	174	200
9.	Calcium as Ca	mg/l	33.7	75
10.	Magnesium as Mg	mg/l	21.9	30
11.	Chlorides as Cl	mg/l	89.3	250
12.	Fluorides as F	mg/l	0.07	1.0
13.	Nitrates as NO <sub>3</sub> <sup>-</sup>	mg/l	11.2	45
14.	Sulphates as SO <sub>4</sub>	mg/l	36.8	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
<b>MICROBIOLOGY:</b>				
31.	<i>E. coliforms</i>	CFU/100mL	Not Detected	Shall not be detected in 100 ml



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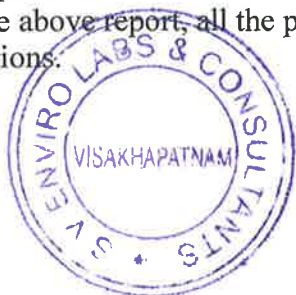


32.	Total Coliforms	CFU/ 100mL	Not Detected	Shall not be detected in 100 ml
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**Note:** All the above parameters are tested as per APHA methods, 24<sup>th</sup> Edition, 2023

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

  
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**Ref: SVELC/SMAL/25-01/22**

**Date: 30-01-2025**

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

**SAMPLE PARTICULARS :** DRINKING WATER

**SOURCE OF COLLECTION :** RO WATER

**DATE OF COLLECTION :** 21-01-2025

## 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	0.10	1.0
5.	pH	-	7.61	6.5 – 8.5
6.	Total Dissolved Solids	mg/l	127	500
7.	Total Alkalinity as CaCO <sub>3</sub>	mg/l	93.0	200
8.	Total Hardness as CaCO <sub>3</sub>	mg/l	87.0	200
9.	Calcium as Ca	mg/l	22.8	75
10.	Magnesium as Mg	mg/l	7.29	30
11.	Chlorides as Cl	mg/l	19.4	250
12.	Fluorides as F	mg/l	0.07	1.0
13.	Nitrates as NO <sub>3</sub> <sup>-</sup>	mg/l	1.19	45
14.	Sulphates as SO <sub>4</sub>	mg/l	6.93	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
31.	Cadmium as Cd	mg/l	<0.001	0.003
32.	Cyanide as CN	mg/l	<0.02	0.05
33.	Lead as Pb	mg/l	<0.01	0.01
34.	Mercury as Hg	mg/l	<0.001	0.001



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35.	Molybdenum as Mo	mg/l	<0.01	0.07
36.	Nickel as Ni	mg/l	<0.01	0.02
37.	Total Arsenic as As	mg/l	<0.01	0.01
38.	Total Chromium as Cr	mg/l	<0.01	0.05
39.	Polychlorinated biphenyls	mg/l	<0.0001	0.0005
40.	Polynuclear aromatic Hydrocarbons as PAH	mg/l	<0.0001	0.0001

## MICROBIOLOGY:

41.	<i>E. coliforms</i>	CFU/100mL	Not Detected	Shall not be detected in 100 ml
42.	<i>Total Coliforms</i>	CFU/100mL	Not Detected	Shall not be detected in 100 ml

## PESTICIDES:

43.	Alpha HCH	µg/l	Not Detected	0.01
44.	Beta HCH	µg/l	Not Detected	0.04
45.	Butachlor	µg/l	Not Detected	125
46.	Chlorpyrifos	µg/l	Not Detected	30
47.	Delta HCH	µg/l	Not Detected	0.04
48.	2,4- Dichlorophenoxyacetic Acid	µg/l	Not Detected	30
49.	DDT (o,p and p,p-Isomers of DDT, DDE and DDD)	µg/l	Not Detected	1.0
50.	Endosulfan (alpha, beta and Sulphate)	µg/l	Not Detected	0.4
51.	Ethion	µg/l	Not Detected	3.0
52.	Gamma-HCH (Lindane)	µg/l	Not Detected	2.0
53.	Isoproturon	µg/l	Not Detected	9.0
54.	Malathion	µg/l	Not Detected	190
55.	Methyl Parathion	µg/l	Not Detected	0.3
56.	Alachlor	µg/l	Not Detected	20
57.	Atrazine	µg/l	Not Detected	2.0
58.	Aldrin/ Dieldrin	µg/l	Not Detected	0.03
59.	Monocrotophos	µg/l	Not Detected	1.0
60.	Phorate	µg/l	Not Detected	2.0

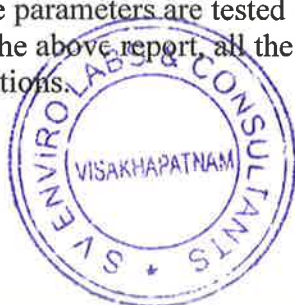
## TRIHALOMETHANES

61.	Bromoform	mg/l	Not Detected	0.1
62.	Dibromochloromethene	mg/l	Not Detected	0.1
63.	Bromodichloromethene	mg/l	Not Detected	0.6
64.	Chloroform	mg/l	Not Detected	0.2

**Note:** All the above parameters are tested as per APHA methods, 24<sup>th</sup> 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/25-01/23**

**Date: 30-01-2025**

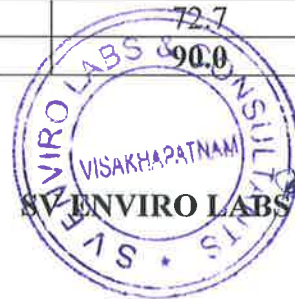
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Vizianagaram.

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

**DATE OF COLLECTION :** 20-01-2025

## TEST REPORT

S.No	SOURCE OF COLLECTION	Noise levels measured in dB(A)	Method
1.	Near Boiler Area	73.1	IS:4954 – 1968 Noise Level Meter
2.	Near TG Building	70.9	
3.	Near CHP Ground Hopper	65.3	
4.	Near CHP Crushes House	71.5	
5.	Near FD Fan	64.8	
6.	Near Coal Mill Area	72.6	
7.	Compressor Area	75.2	
8.	Near ID Fan Area	72.7	
CPCB STANDARDS		90.0	



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**Ref: SVELC/SMAL/25-01/24**

**Date: 30-01-2025**

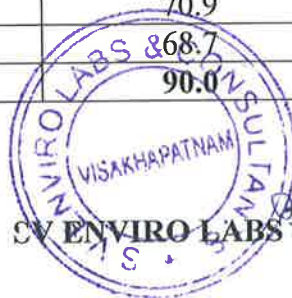
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APIIC, Industrial Park, Kantakapalli,  
Kothavalasa-535240,  
Vizianagaram.

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

**DATE OF COLLECTION :** 20-01-2025

## TEST REPORT

S.No	SOURCE OF COLLECTION	Noise levels measured in dB(A)	Method
1.	Near Furnace 1	69.5	IS:4954 – 1968 Noise Level Meter
2.	Near Furnace 2	67.3	
3.	Metal Breaking Yard/MRP	72.1	
4.	28 Meter Area	70.9	
5.	RMHS Area	68.7	
CPCB STANDARDS		90.0	



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# SV ENVIRO LABS & CONSULTANTS

(ENVIRONMENTAL ENGINEERS & CONSULTANTS IN POLLUTION CONTROL)

**Corporate Office & Laboratory :** Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam-530012.  
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**Recognized by Govt. of India-MoEF & CC, New Delhi, Accredited by : NABL & NABET**



**Ref: SVELC/SMAL/25-01/25**

**Date: 30-01-2025**

**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 :** 1250 KVA DG Set - III

**DATE & TIME OF COLLECTION :** 20-01-2025 @ 14:45hr

## TEST REPORT

S.No	DESCRIPTION	UNIT	RESULT
1.	Diameter of the Stack	m	0.350
2.	C/s Area of Stack	m <sup>2</sup>	0.096
3.	Pitot Coefficient	-	0.87
4.	Specific Gravity of Fluid	-	1.0
5.	Temperature @ DGM	<sup>0</sup> C	32
6.	Stack Temperature	<sup>0</sup> C	191
7.	Nozzle Diameter	mm	10
8.	Exit Velocity	m/sec	14.6
9.	Gas Quantity	Nm <sup>3</sup> /hr	3219
10	Duration of Sampling	minutes	45

## EMISSION RATE

S.No	PARAMETER	UNITS	RESULT	CPCB STANDARD
1.	Particulate Matter – PM	g/kw-hr	0.21	0.3
2.	Oxides of Nitrogen – NOx	g/kw-hr	1.13	9.2
3.	Carbon Monoxide – CO	g/kw-hr	0.69	3.5
4.	Hydrocarbons – HC	g/kw-hr	0.24	1.3

CHECKED BY 



SV ENVIRO LABS & CONSULTANTS 

# 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*



**TUNNEL VENTILATION SYSTEM AT PP GROUND HOPPER**





**OPEN BORE WELL - PIEZOMETER**





STP (Waste water treatment facilities)



**BIO GAS PLANT AT MAIN CANTEEN**



## 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 కాలుష్య 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.**



## DIGITAL DISPLAY BOARD



## FORM-V

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Ref No: SMAL/APPCB-RO/Form-V/2023-24

Date: 18.09.2024

To

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

**Dear Sir/ Madam,**

**Sub:** Submission of Environment Statement F.Y. 2023-2024 - 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 2023-2024 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**

Dy. General Manager - EHS

(Authorized Signatory)

Encl: As above.

