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SMAL/IRO-MoEF&CC/HCR/2025-26-2

Date: 21.04.2026

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 2025 to
March 2026 - Reg

Ref: F. No. J-11011/164/2009-IA.II(I), Dated: 27th 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 2025 to March 2026** 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
Authorised Signatory

Encl: Half Yearly EC Compliance report.



SARDA Metals and Alloys Limited

Kantakapalli, Vizianagaram.

S. No.	EC CONDITIONS	2022	2018	2016	2015	2010	2009	Present Status/ Compliance
		Existing EC	EC Amendme nt	EC Validity Extension	EC Validity Extension	EC Amendme nt	First EC	
1	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.	SC i.	Not Available (NA)	These extensions and amendments are not having any conditions in the EC document.			NA	Complied. Three tier green belt developed above 33% of total project area with native species all along the periphery of the project site of adequate width and tree density is 2500 per ha. Survival rate of green belt being monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years.
2	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from the exposed soil surface.	SC ii.	NA				NA	Greening and Paving implemented in the plant area to arrest soil erosion and dust pollution. Complied
3	Following additional arrangements to control fugitive dust shall be provided.	SC iii.	NA				NA	-
	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.		NA				NA	Complied. 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 Annexure-1 .
	b. Proper covered vehicle shall be used while transport of materials.		NA				NA	Noted and being followed. All the vehicles being covered while transporting materials Photos are attached as annexure -2
	c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.		General Condition (GC) 4.e				NA	Complied. Provided Wheel washing mechanism at Main gate with complete recirculation system. Photos are attached as annexure -3
4	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.	SC iv.	NA				NA	Complied. Developed all internal roads and connecting roads from the project site to the main high way and maintained with suitable Million Axle Standard (MSA) as per the traffic load due to the existing and proposed project. Photos are attached as annexure -4
5	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.	SC v.	NA				NA	Complied. Performance tests being conducted on all pollution control systems every year.
6	Particulate matter emission from stacks shall be less than 30 mg/Nm ³ .	SC vi.	NA				NA	Complied.Plants installed before 2017 emission has to be 50mg/Nm3. Plants installed after 2017 emission levels shall be 30 mg/Nm3. SMAL is ensuring that emission level as per specified standards.



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7	Submerged Arc Furnace shall be equipped with the fourth hole fume extraction system.	SC vii.	NA				NA	Complied. Provided fume extraction system. Photos are attached as annexure -5
8	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.	SC viii.	NA				NA	Complied. Slag generated from the process being utilised and reports being submitted as guided.
9	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.	SC ix.	NA				NA	Developed 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. Photos are attached as annexure -6
10	PP shall improve the Housekeeping of the project premises with best standards.	SC x.	NA				NA	The industry continuously strives to maintain housekeeping by using 5S and TPM practices which are internationally followed.
11	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.	SC xi.	NA				NA	Three fog mist canon's provided and remaining will be provided in next phase. 1st Phase: 1 No. of Fog Cannon is provided. 2nd Phase: 2 No's of Fog Cannon's provided. Photos are attached as Annexure -1
12	Mechanical road sweeping shall be done in the surrounding villages also periodically.	SC xii.	NA				NA	Complied 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. Photos are attached as annexure -7
13	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.	SC xiii.	NA				NA	The industry established a mineral fiber plant in April 2025. As per the condition, the management has taken all necessary precautions to store formaldehyde and other chemicals.
14	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.	GC I i.	NA				NA	Noted and being followed.



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15	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.	GC -II i.	GC 1-A &2-A				NA	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 being carried out as per the condition. OCEMS data is synchronized to APPCB & CPCB servers respectively. The data is uploading to APPCB server URL: http://aprtcms.ap.gov.in . & CPCB http://rtdms.cpcb.gov.in-status
16	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.	GC -II ii.	GC 1b				NA	Complied. SMAL is monitoring fugitive emissions in the plant premises once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories and reports being submitted to R.O,APPCB. Environmental Monitoring reports are attached as Annexure-8
17	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.	GC -II iii.	GC 3A				NA	Noted for compliance. The industry 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. Photos are attached as annexure -9
18	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	GC -II iv.	GC 3B				NA	Complied. Differential pressure system has been implemented in the existing plant and will also be used in the proposed plants
19	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.	GC -II v.	GC 3F				NA	Complied and being followed. 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.
20	The project proponent shall ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation.	GC -II vi.	NA				SC VII	Complied and being followed. SMAL is ensuring covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation.
21	The project proponent shall provide primary and secondary fume extraction system at all melting furnaces.	GC -II vii.	NA				SC VIII	Complied. Provided primary and secondary fume extraction system at all melting furnaces.



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22	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.	GC -II viii.	GC 3-i				NA	Complied. Provided the ventilation system with adequate air changes. Photos are attached as annexure -10
23	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.	GC -III i.	GC 2-a				NA	Complied Continuous effluent monitoring data is synchronized to APPCB & CPCB servers respectively. The data is uploading to APPCB server URL: http://aprtcms.ap.gov.in . & CPCB http://rtdms.cpcb.gov.in-status
24	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	GC -III ii.	GC 2-b				NA	Complied and being followed. The industry has installed a piezometer for monitoring groundwater, and samples are collected once every quarter for analysis by NABLaccredited laboratory with all monitored parameters consistently found within the specified regulatory limits. reports attached in Annexure-8 . and Image attached as annexure-11
25	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards	GC -III iii.	GC 4-c				NA	Complied. Provided STP's to treat domestic water. Image attached as annexure-12
26	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	GC -III iv.	GC 4-a				NA	Noted and will be provided after installing rolling mills.
27	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.	GC -III v.	GC 4-d				NA	Complied. The industry has provided garland drains at applicable areas.
28	Tyre washing facilities shall be provided at the entrance/exit of the plant gates.	GC -III vi.	GC 4.e				NA	Complied. Tyre washing facility provided at main gate.
29	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.	GC -IV i.	GC 24				GC -VII	Complied. Noise being monitored once in month and reports being submitted to R.O,VZM, APPCB and R.O,BZA,MoEF. reports attached in Annexure-8



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30	Energy conservation measures may be adopted such as adoption of solar energy and provision of LED lights etc., to minimize the energy consumption.	GC -V i.	GC - 6				NA	Complied. The industry has already provided LED lights in the existing plane and the same practices will be followed for new plants. SMAL installed 1.5MW solar energy systems at applicable areas as part of energy conservation measures minimize the energy consumption.
31	Used refractories shall be recycled.	GC -VI i.	GC - 10				NA	Complied and being followed.
32	Kitchen waste shall be composted or converted to biogas for further use.	GC -VI ii.	GC - 27					The industry has provided Biogas system and kitchen waste being composted in the same. Generated bio-gas is being used in the kitchen for cooking. image attached in Annexure-13
33	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.	GC -VII i.	GC - 13				NA	Noted for compliance. The industry prepare GHG emissions inventory for the plant and submitted the program for reduction of the same including carbon sequestration including plantation. Report attached in Annexure-14
34	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.	GC -VII ii.	NA				NA	Noted and being followed. Carbon intenisty calculated for scope-1 and scope-2 and action plan is under progress to reduce carbon intensity. Report attached in Annexure-14
35	Emergency preparedness plan based on the Hazard Identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	GC -VIII i.	GC - 14				NA	Complied. Identified emergencies as per process and prepared emergency response plan.
36	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.	GC -VIII ii.	GC - 15				NA	Complied. An industrial hygiene survey was conducted to assess workplace exposure of workmen. Action was taken as per guidelines. Aluminised suits provides for the persons working at Furnaces.
37	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.	GC -VIII iii.	GC - 25				GC -IX	Complied and being followed. SMAL conducting medical check up once in year to all the persons working inside the premises and records being maintained for verification.



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38	The project proponent shall comply with the provisions contained in this Ministry ' s OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt Kantakapalli, Katakapalli, Kotturu, Patta Sunkarapalem, Kotha Sunkarapalem, Gollapeta, Chinnaraopalli, Baligattam, Chiinipalem, Sambayyapalem, Appannapalem and Nimmalapalem villages based on the socioeconomic survey and undertake community development activities in consultation with the village Panchayat and the District Administration as committed.	GC -IX i.	GC - 16				NA	Complied and being followed. The industry has undertaken community development activities in consultation with the village Panchayat and the District Administration in phase wise.
39	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.	GC -IX ii.	NA				NA	Noted
40	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.	GC -IX iii.	NA				NA	Complied. Environment cell formed with Asst. Manager and DGM-EHS. DGM-EHS directly reports to the Head of the organization.
41	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.	GC -X i.	NA				NA	Complied. SMAL notified the public the environmental clearance granted for the project along with the environmental conditions in two local news papers of the District or State.Also displayed in the SMAL website permanently. image attached in Annexure-15
42	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.	GC -X ii.	GC 28-a				GC - XVI	Complied. The copies of the environmental clearance submitted to the Heads of local bodies, Panchayats and Municipal Bodiesand to the relevant offices of the Government who in turn has to display.



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43	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.	GC -X iii.	NA				NA	Complied and being followed. The industry is submitting status of compliance of the stipulated environment clearance conditions, including results of monitored data on parivesh portal
44	The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (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.	GC -X iv.	GC 28-e				NA	Complied and being followed. Displayed the board indicating critical parameters like PM10, SO2, NOx (ambient levels as well as stack emissions). image attached in Annexure-16
45	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.	GC -X v.	GC 28-f				GC - XIV	Complied and being followed. SMAL is submitting 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.
46	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.	GC -X vi.	GC 28-g				GC - XV	Complied and being followed. SMAL is submitting the Form-V to the R.O,VZM,APPCB and alos displaying on the website of the SMAL. Image attached in Annexure-17
47	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.	GC -X vii.	GC 28-h				NA	Noted and will be followed as per the condition.
48	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.	GC -X viii.	GC 11.0				SC - XXI	Noted as SMAL will abide by the condition as committed.
49	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).	GC -X ix.	GC - 21				GC - III	Noted and will ensure the same.
50	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.	GC -X x.	NA				NA	Noted and will ensure the same.
51	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	GC -X xi.	9.0				7.0	Noted



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52	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	GC -X xii.	10.0				8.0	Noted and SMAL will implement applicable conditions in time-bound manner during the project phase.
53	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.	GC -X xiii.	NA				GC - XIV	Noted
54	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.	GC -X xiv.	NA				NA	Noted
55	The EC will be construed to the above faculties and valid up to 25th November 2019 for implementation and start of production operations.	NA	SC 1				NA	Noted
56	In case the project proponent fail to implement and start of production operations before 25th November 2019, shall obtain the environmental clearance as de-novo as per the procedure envisaged in the EIA Notification, 2006	NA	SC 2				NA	Noted. Industry has established with few units in 2013 and later taken fresh EC for future expansions as per direction.
57	Install system carryout to continuous ambient air quality monitoring for common/criterion parameters relevant to the main pollutants released (PM10 and PM2.5 in reference to PM emission, and SO2 and NOX in reference to SO2 and NOx emissions) within and outside the plant area at least at four locations (One within and three outside the plant area at an angle of 120 each), covering upwind and downwind directions.	NA	SC 1c				NA	Providing outside is having security concerns. Hence, CAAQMS stations are provided in 3 location inside the plant premises as per CPCB guidelines maintaing 120 degree angle.
58	Submit monthly summary report of continous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality/fugitive emissions to Regional office of MoEF&CC, Zonal office of CPCB and Regional office of SPCB along with six-monthly monitoring report.	NA	SC 1d				NA	Monthly Environmental monitoring reports being submitted to the RO APPCB for revery 3 months.Complied.
59	submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional office of MoEF&CC, Zonal office of CPCB and Regional office of SPCB along with six-monthly monitoring report.	NA	SC 2c				NA	Complied. Monthly Environmental monitoring reports being submitted to the RO APPCB for revery 3 months.
60	Provide secondary emission control system SMS converters.	NA	GC 3-C				NA	Noted. SMS is not established.



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61	Provide pollution control system in the steel plant as per the CREP Guidelines fo CPCB	NA	GC 3-D				NA	Not Applicable as Steel plant not yet established.
62	Provide sufficient number of mobile vacuum cleaners to clean plant roads, shop floors, roof regularly	NA	GC 3-E				NA	The industry has provided mobile vacuum cleaners and mechanical sweeping machine for clean the plant roads and other areas
63	use leak proof trucks/dumbers carrying coal and other raw materials and vocer them with tarpaulin	NA	GC 3-G				NA	Noted. The industry using the leak proof trucks to carrying the coal and other raw materials and also ensuring all are covered.
64	provide wind shelter fence and chemical spraying on the raw material stock piles.	NA	GC 3-H				NA	It is under process.
65	design the ventilaitaion system for adequate changes as per ACGIH document for all turnels, motor houses, Oil Cellars.	NA	GC 3-I				NA	Complied. The industry arranged the ventilation at applicable areas.
66	Adhere to 'Zero liquid discharge'	NA	GC 4-B				NA	The industry using the generated waste water for slag granulation process after treatment.
67	interduce CO2 injection in GCP of SMS to reduce PH in circulating water to ensure optimal recycling of treated waer for voncerter gas cleaning	NA	GC 4-F				NA	Not Applicable as Steel plant not yet established.
68	Practice rainwater harvesting to maximum possible extent	NA	GC 5-A				NA	The industry created rain water harvesting pond for the storage capacity of 345 Million KL capacity.
69	provide water meters at the inlet to all unit processes in the steel plants	NA	GC 5-B				NA	Not Applicable as Steel plant not yet established.
70	Make efforts to minimise water consumption in the settl plant complex by segregation of used water, practicing cascade use and by recycling treated water	NA	GC 5-C				NA	The industry is recycling the waste water and reusing the water for gardening and road sprinkling.
71	Practice waste heat recovery from Sinter Plants coolers and sinter machines	NA	GC 6-A				NA	Not Applicable as Sinter plant is not established
72	use torpedo ledle for hot metal transfer as far as possible. if not use ladles covers for open top ladles	NA	GC 6-B				NA	The industry using conitunous pig casting machine for metal transferring which completely avoided laddle handling.
73	use hot charging of slabs and billets/blooms as far as possible	NA	GC 6-C				NA	Not Applcable as plant not yet started.
74	provide waste heat recovery systems in all units where the flue gas or process gas exceeds 300°C	NA	GC 6-D				NA	The waste heat recovery system is at procuremnet stage. Will be completed by March'2027
75	explore feasibility to install WHRS at Waste Gases from Sinter machine; sinter cooler, and all reheating furnace and if fesible shall be installed;	NA	GC 6-E				NA	The waste heat recovery system is at procuremnet stage. Will be completed by March'2027.



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76	provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;	NA	GC 6-F				NA	Complied. The industry provided the solar power generation on roof tops of the buildings. The industry has already provided LED lights in the existing plant and the same practices will be followed for new plants. SMAL installed 1.5MW solar energy systems at applicable areas as part of energy conservation measures minimize the energy consumption.
77	provide LED lights in their offices and residential areas	NA	GC 6-G				NA	The industry has provided LED lights in the entire plant premises
78	ensure installation of regenerative type burners on all reheating furnaces	NA	GC 6-H				NA	Not applicable as SMS not established
79	the project proponent shall install Dry Gas Cleaning Plant with bag filter for SMS converter	NA	GC 7				NA	The industry has provided Dry Gas cleaning plants with bag filter to control the dust emissions
80	Carbon recovery plant to recover the elemental carbon present in GCP slurries for use in sinter plant shall be installed	NA	GC 8				NA	Sinter plant not established
81	waste recycling plant shall be installed to revocer scrap, metallic and flux for recycling to sinter plant and SMS.	NA	GC 9				NA	Sinter plant and SMS plants are not established yet
82	SMS slag after metal recovery in waste recycling facility shall be coditioned and used for road making, railway track ballast and other applications. the project proponent shall install a waste recycling facility to revocer metalic and flux for recycle to sinter plant. The project proponent shall establish linkage for 100% reuse for rejects from Waste Recycling Plant	NA	GC 11				NA	Not applicable as SMS is not established.
83	100% utilization of fly ash shall be ensured. all the fly ash shall be provided to cement and brick manufacturers for further utilization and memorandum of understanding in this regard shall be submitted to the Ministry's Regional Office	NA	GC 12				NA	100% utilization of fly ash is being ensured. all the fly ash sent to cement and brick manufacturers for further utilization .
84	All the recommendations make in the Charter on Corporate Responsibility for Environment Protection (CREP) for the iron and steel plants shall be implemented.	NA	GC 17				NA	Iron and steep plants not established.
85	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe driking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project	NA	GC 19				NA	Complied. The industry has provide all the required utilities in the project site. Housing provide out side the premises.



SARDA Metals and Alloys Limited

Kantakapalli, Vizianagaram.

S. No.	EC CONDITIONS	2022	2018	2016	2015	2010	2009	Present Status/ Compliance
		Existing EC	EC Amendme nt	EC Validity Extension	EC Validity Extension	EC Amendme nt	First EC	
86	The project authorites mush strictly adhere to the stipulations made by the State Pollution Controul Board and the State Government.	NA	GC 20				NA	Noted and being followed.
87	The waste oil, grease and other hazardous waste like acidic suldge from Pickling galvanising, chrome plating mills etc. shall be disposed of as per the Hazardous & other waste(Management & Transboundary Movement) Rules, 2016.	NA	GC 22				NA	Complied. The generated waste oil sending to authorised dealers through APEMCL portal.
88	Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil. oil collection trays shall be provided under coils on saddles in cold rolled coil storage area	NA	GC 23				NA	Complied. The industry has provided oil collection pits for spilled oil collection.
89	The project proponent shall also comply with all the environmental protection measures and safeguards revommended in the EIA/EMP report	NA	GC 26				NA	Noted and taking all necessary precautions to safeguard the recommendations in the EIA report.
90	Put on the clearance letter on the web site of the company for access to the public	NA	GC 28-B				NA	Complied. Clearance letter kept in the company website.
91	Inform the public through advertisement within seven days form the date of issue of the clearance letter, at least in Two local newspapers that are widely cicultated in the region of which one shall be in the veracular language that the project has been acorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Minisry of Environment, forest and Climate Change (MoEF&CC) at http://envfor.nic.in ,	NA	GC 28-C				NA	Complied. The industry has informed to the public throgh news paper advertisement with in the time form the date of issue of EC
92	upload the status of compliance of the stipulated environment clearance conditions including results of monitored data on their website and update the same periodically;	NA	GC 28-D				NA	Complied. Six months compliance reports are uploading in the company website.
93	The above conditions shall be enforced, inter-alia under the provisions of the Water(Prevention & Control Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act,1986, Hazardous and Other waste (Management and Transboundary Movement) Rules, 2016 and the Public Libility Insurance Act, 19911 along with their amendments and rules	NA	GC 12.0				10	Noted for compliance
94	all othe terms prescribed in the environement clearance letter vide R.No J-11011/164/2009-IA.II(I) Dated 26.11.2009 shall remain same.	NA	GC 13.0				NA	Noted



SARDA Metals and Alloys Limited

Kantakapalli, Vizianagaram.

S. No.	EC CONDITIONS	2022	2018	2016	2015	2010	2009	Present Status/ Compliance
		Existing EC	EC Amendme nt	EC Validity Extension	EC Validity Extension	EC Amendme nt	First EC	
95	Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan shall be submitted. On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks and sufficient air pollution control devices viz. Electro Static Precipitator (ESP), gas cleaning plant, multi-cyclone, bag filter, DE-duster etc. shall be provided to keep the emission levels below 100 mg/Nm3. At no time, the emission level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit. Analysis reports shall be submitted to the Ministry's Regional Office at Bangalore, CPCB and APPCB	NA	NA				SC I	Provided Electro Static Precipitator (ESP), gas cleaning plant, multi-cyclone, bag filter, DE-systems etc. provided to keep the emission levels below 100 mg/Nm3 On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks and sufficient air pollution control devices are arrange to measure air quality.
96	Hot gases from DRI kiln shall be passed through Dust Settling Chamber (DSC) to remove coarse solids and After Burning Chamber (ABC) to burn CO completely and used in waste heat recovery boiler (WHRB). The gas then shall be cleaned in ESP before leaving out into the atmosphere through ID fan and stack. Electro Static Precipitator (ESP) shall be provided to DRI plant, WHRB and ABC boilers to control air emissions within 100 mg/Nm3.	NA	NA				SC II	Dri kiln plant, WHRB and ABC boilers are not established.
97	Electro Static Precipitator (ESP) to Sinter plant; ESP/multi-cyclone bag filter, DE-duster to pellet plant; ESP and bag filter to power plant and DRI plant shall be provided to control air emissions within 100 mg/Nm3. Bag filter and DE-duster to coke oven plant; dust extraction system with bag filters to blast furnace stock house, Ferro alloys plant and ladle furnace; gas cleaning plant and bag filter to blast furnace; fume extraction system with cyclone to Induction furnace and heat remunerator shall be provided to rolling mill. The flue gas from rolling mill shall be discharged into the atmosphere through stacks of adequate height. Stacks of adequate height shall also be provided to all the concerned plants for effective dispersion of emissions into the atmosphere.	NA	NA				SC III	Coke oven pant not established in this phase
98	Dry coke quenching method shall be adopted in the proposed coke oven plant as per the commitment submitted	NA	NA				SC IV	Coke oven pant not established.



SARDA Metals and Alloys Limited

Kantakapalli, Vizianagaram.

S. No.	EC CONDITIONS	2022	2018	2016	2015	2010	2009	Present Status/ Compliance
		Existing EC	EC Amendme nt	EC Validity Extension	EC Validity Extension	EC Amendme nt	First EC	
99	All the standards prescribed for the coke oven plants vide notification no. GSR 46 (E) dated 3rd February, 2006 shall be followed as per the latest guidelines. Proper and full utilization of coke oven gases in power plant using waste heat recovery steam generators shall be ensured and no flue gases shall be discharged into the air	NA	NA				SC V	Coke oven plant not established in this phase
100	Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines / Code of Practice issued by the CPCB shall be followed. The emission standards issued by the Ministry in May, 2008 for the sponge plants shall be followed	NA	NA				SC VI	Sponge Iron plant not established.
101	Total water requirement from Thatipudi reservoir shall not exceed 396 m ³ /hr. No ground water shall be used. Air cooled condenser shall be provided to reduce the water consumption. Acidic and Alkaline effluent from DM water plant shall be neutralized and reused in the plant through ash pond. All the effluent shall be treated and recycled in the re-circulating system or used for ash handling, dust suppression and green belt development. All the wastewater from process and domestic sources shall be treated and recycled and reused. No wastewater shall be discharged outside the premises and Zero effluent discharge shall be ensured	NA	NA				SC IX	The industry received the clearance from GVMC to with draw Thatipudi reservoir. Air cooled condenser provided to reduce the water consumption. All the effluent is being treated and recycled in the re-circulating system or used for ash handling, dust suppression and green belt development. All the wastewater from process and domestic sources is being treated and recycled and reused. No wastewater being discharged outside the premises and Zero effluent discharge is being maintained.
102	Prior permission for the drawl of 396 m3/hr water from Thatipudi reservoir from the concerned department shall be obtained and a copy of the permission letter shall be submitted to the Ministry and its Regional Office at Bangalore	NA	NA				SC X	That industry has received permission from the GVMC to draw water from the Thatipudi Reservoir.
103	The water consumption shall not exceed 16 m3/Ton of Steel as per prescribed standard	NA	NA				SC XI	Steel plant not established.



SARDA Metals and Alloys Limited

Kantakapalli, Vizianagaram.

S. No.	EC CONDITIONS	2022	2018	2016	2015	2010	2009	Present Status/ Compliance
		Existing EC	EC Amendme nt	EC Validity Extension	EC Validity Extension	EC Amendme nt	First EC	
104	No coal fines shall be imported as proposed. DRI Fines, coke breeze, Sinter dust, GCP dust, blast furnace dust, SMS dust, scale, iron ore fines shall be used in Sinter plant. Scrap from rolling mill shall be used as raw material in SMS. Char/Dolochar shall be used in power plant / brick manufacturing plants. Manganese slag from Ferro alloy plant shall be used as raw material for Silico-Manganese production. All the other solid wastes including broken refractory mass shall be properly disposed off in environment-friendly manner. Oily waste shall be provided to authorized recyclers/re processors	NA	NA				SC XIII	The industry is not importing coal fines. All the raw materials are coarse grade.
105	AFBC plant shall be installed before installation of sponge iron plant so that utilization of char in the AFBC boiler is ensured. all the char from DRI plant shall be utilized in AFBC boiler of p[ower plant and no char shall be disposed off anywhere else. All the best furnace (BF) slag shall be granulated and provided to cement manufacturers for further utilization. Sludge from STP shall be used as manure for green belt development.	NA	NA				SC XIV	Sponge iron plant not established in this phase
106	All type of slag shall be used for road making only after passing through Toxic Chemical Leach-ability Potential (TCLP) test. Otherwise, toxic waste shall be recovered from the slag and output waste shall be disposed in secured landfill as per CPCB guidelines. Spent oil shall be sold to APPCB authorized recyclers	NA	NA				SC XV	Complied. Slag being used for road making only after passing through Toxic Chemical Leach-ability Potential (TCLP) test. Waste oil being sold to APPCB authorized recyclers. TCLP test reports are attached as annexure - 18 .
107	Proper handling, storage, utilization and disposal of all the solid waste shall be ensured and regular report regarding toxic metal content in the waste material and its composition, end use of solid/hazardous waste shall be submitted to the Ministry's Regional Office at Bangalore, APPCB and CPCB	NA	NA				SC XVI	All the solid waste being handled. No toxic content in the soild waste at present. Ash from power plant being sent to cement plans and brick manufacturing units. Slag being sent to road construction purposes and cement industries.
108	A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal	NA	NA				SC XVII	A time bound action plan submitted to the board
109	Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 and subsequent amendment in 2003. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding shall be submitted to the Ministry's Regional Office at Bangalore	NA	NA				SC XIII	All the solid waste being handled. No toxic content in the soild waste at present. Ash from power plant being sent to cement plans and brick manufacturing units. Slag being sent to road construction purposes and cement industries.



SARDA Metals and Alloys Limited

Kantakapalli, Vizianagaram.

S. No.	EC CONDITIONS	2022	2018	2016	2015	2010	2009	Present Status/ Compliance
		Existing EC	EC Amendme nt	EC Validity Extension	EC Validity Extension	EC Amendme nt	First EC	
110	As proposed, green belt shall be developed in 92.72 acres (33 %) out of total 280.96 acres in and around the plant as per the CPCB guidelines in consultation with DFO	NA	NA				SC XIX	Complied. SMAL developed green belt of 94.11 acres out of 280.96 acres which is morethan the specified standards.
111	Proper rain water harvesting measures shall be adopted to make use of water within the plant premises for various activities including dust suppression and green belt development	NA	NA				SC XX	Complied. Rain water harvesting system provided.
112	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Sector including Coke Oven Plants shall be implemented	NA	NA				SC XXII	SMS and Coke oven not established.
113	Permission and recommendations of the State Forest Department regarding impact of proposed plant on Adanapalem RF shall be obtained regarding likely impact of the proposed steel plant on the surrounding reserve forest and recommendations, if any, shall be implemented	NA	NA				SC XXIII	Complied. NOC taken from Forest department.
114	The company shall provide housing for construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project	NA	NA				SC XXIV	Complied. Industry providing housing outside the premises with contractor and being ensured the facilities as guided.
115	The project authorities shall strictly adhere to the stipulations made by the Andhra Pradesh Pollution Control Board (APPCB)	NA	NA				GC I	Noted.
116	At no time, the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved	NA	NA				GC II	Noted and being followed.
117	The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The APPCB may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time, the emission level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit	NA	NA				GC IV	Noted and being followed.



SARDA Metals and Alloys Limited

Kantakapalli, Vizianagaram.

S. No.	EC CONDITIONS	2022	2018	2016	2015	2010	2009	Present Status/ Compliance
		Existing EC	EC Amendme nt	EC Validity Extension	EC Validity Extension	EC Amendme nt	First EC	
118	The project authorities shall strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October, 1994 and January, 2000. Authorization from the APPCB shall be obtained for collection, treatment, storage, and disposal of hazardous wastes	NA	NA				GC V	Noted and being followed.
119	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management and Handling) Rules, 2003. Authorization from the A. P. Pollution Control Board must be obtained for collection / treatment / storage / disposal of hazardous wastes	NA	NA				GC VI	Noted and being complied.
120	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	NA	NA				GC VII	The overall noise levels in and around the plant area always being ensured well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.
121	The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table	NA	NA				GC VIII	SMAL develoedp rain water harvesting to harvest the rain water for utilization in the lean season besides recharging the ground water table
122	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the environmental management and monitoring functions	NA	NA				GC X	Separate environment cell provided with DHM-EHS and AM-EHS leaded by Plant head.
123	As proposed, Rs. 100.00 Crore and Rs. 5.00 Crore shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures shall be judiciously used to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. A time bound implementation schedule shall be submitted to the Ministry and its Regional Office at Bangalore to implement all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose	NA	NA				GC XI	Noted and complied.around 50 crores invested on pollution control and monitoring systems out of 700 crores project.

**SARDA Metals and Alloys Limited**

Kantakapalli, Vizianagaram.

S. No.	EC CONDITIONS	2022	2018	2016	2015	2010	2009	Present Status/ Compliance
		Existing EC	EC Amendme nt	EC Validity Extension	EC Validity Extension	EC Amendme nt	First EC	
124	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad / Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent	NA	NA				GC XII	A copy of clearance letter sent by the SMAL to concerned Panchayat, Zilla Parishad / Municipal Corporation, Urban Local Body. The clearance letter also kept on the web site of the company.
125	Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority ,if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Act ,1997	NA	NA				9	Complied. SMAL uploaded the status of compliance of the stipulated environment clearance conditions in the website. Also being sent to the APPCB. The criteria pollutant levels namely; SPM, SO2, NOx and displayed at the main gate of the company.

WATER SPRINKLER SYSTEM

<i>High Pressure Water Sprinkling System</i>	<i>Water sprinkling system for Haulage Road and Green Belt</i>
	
<i>Inbuilt water sprinkler system for stacker at coal handling plant</i>	<i>Water Sprinkling System & Haulage Road Dust Suppression</i>
	
<i>Fixed Fog Mist Cannon at Dump hopper</i>	<i>Fog Mist Cannon</i>
	

MATERIAL TRANSPORTATION COVERED WITH TOURPALIN



A CLOSED CONVEYOR SYSTEM FOR LOADING FINISHED PRODUCTS.



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 & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions



Ref: SV/SMAL/26-03/01

Date: 23-03-2026

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

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR SECURITY GATE

DATE & TIME OF START : 13-03-2026 @ 09:50hr

DURATION OF SAMPLING : 24 Hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

S.No	PARAMETER	UNIT	RESULT	NAAQS	METHOD
1.	Particulate Matter – PM ₁₀	µg/m ³	74.1	100	IS : 5182 – P-23
2.	Particulate Matter – PM _{2.5}	µg/m ³	32.8	60	IS : 5182 – P-24
3.	Sulphur Dioxide – SO ₂	µg/m ³	19.5	80	IS:5182 (P-2)
4.	Oxides of Nitrogen - NO _x	µg/m ³	25.3	80	IS:5182(P-6)
5.	Lead as (Pb)	µg/m ³	BDL	1.0	IS:5182 -P22
6.	Ammonia as (NH ₃)	µg/m ³	<20	400	IS 5182- P25
7.	Arsenic as (As)	ng/m ³	BDL	06	CPCB Guidelines
8.	Ozone as (O ₃)	µg/m ³	13.4	100	IS:5182 P 9
9.	Nickel as (Ni)	ng/m ³	BDL	20	IS 5182- P26
10.	Carbon Monoxide as (CO)	µg/m ³	40.7	2000	IS:5182- P 10
11.	Benzene as (C ₆ H ₆)	µg/m ³	BDL	05(Annual)	IS: 5182-P 11
12.	Benzo (a) pyrene as (BaP)	ng/m ³	BDL	01	IS: 5182-P12

Remarks: As per the above report, all the parameters are within NAAQ standards

CHECKED BY



AUTHORIZED SIGNATORY

Corporate Office and Laboratory: Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam - 530012
Hyderabad Office: #402, SaiKrishna Villa, Behind CMR Shopping Mall, AS Raju Nagar, Kukatpally, Hyderabad - 500072

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Researching for better Environmental Solutions



Ref: SV/SMAL/26-03/02

Date: 23-03-2026

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

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR MINERAL FIBER PLANT

DATE & TIME OF START : 13-03-2026 @ 10:20hr

DURATION OF SAMPLING : 24 Hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

S.No	PARAMETER	UNIT	RESULT	NAAQS	METHOD
1.	Particulate Matter – PM ₁₀	µg/m ³	48.9	100	IS : 5182 – P-23
2.	Particulate Matter – PM _{2.5}	µg/m ³	15.3	60	IS : 5182 – P-24
3.	Sulphur Dioxide – SO ₂	µg/m ³	13.7	80	IS:5182 (P-2)
4.	Oxides of Nitrogen - NO _x	µg/m ³	15.1	80	IS:5182(P-6)
5.	Lead as (Pb)	µg/m ³	BDL	1.0	IS:5182 -P22
6.	Ammonia as (NH ₃)	µg/m ³	<20	400	IS 5182- P25
7.	Arsenic as (As)	ng/m ³	BDL	06	CPCB Guidelines
8.	Ozone as (O ₃)	µg/m ³	9.30	100	IS:5182 P 9
9.	Nickel as (Ni)	ng/m ³	BDL	20	IS 5182- P26
10.	Carbon Monoxide as (CO)	µg/m ³	24.3	2000	IS:5182- P 10
11.	Benzene as (C ₆ H ₆)	µg/m ³	BDL	05(Annual)	IS: 5182-P 11
12.	Benzo (a) pyrene as (BaP)	ng/m ³	BDL	01	IS: 5182-P12

Remarks: As per the above report, all the parameters are within NAAQ standards

CHECKED BY



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Researching for better Environmental Solutions



Ref: SV/SMAL/26-03/03

Date: 23-03-2026

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

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR DM PLANT

DATE & TIME OF START : 13-03-2026 @ 10:50hr

DURATION OF SAMPLING : 24 Hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

S.No	PARAMETER	UNIT	RESULT	NAAQS	METHOD
1.	Particulate Matter – PM ₁₀	µg/m ³	61.4	100	IS : 5182 – P-23
2.	Particulate Matter – PM _{2.5}	µg/m ³	23.7	60	IS : 5182 – P-24
3.	Sulphur Dioxide – SO ₂	µg/m ³	14.9	80	IS:5182 (P-2)
4.	Oxides of Nitrogen - NO _x	µg/m ³	12.6	80	IS:5182(P-6)
5.	Lead as (Pb)	µg/m ³	BDL	1.0	IS:5182 -P22
6.	Ammonia as (NH ₃)	µg/m ³	<20	400	IS 5182- P25
7.	Arsenic as (As)	ng/m ³	BDL	06	CPCB Guidelines
8.	Ozone as (O ₃)	µg/m ³	8.50	100	IS:5182 P 9
9.	Nickel as (Ni)	ng/m ³	BDL	20	IS 5182- P26
10.	Carbon Monoxide as (CO)	µg/m ³	19.4	2000	IS:5182- P 10
11.	Benzene as (C ₆ H ₆)	µg/m ³	BDL	05(Annual)	IS: 5182-P 11
12.	Benzo (a) pyrene as (BaP)	ng/m ³	BDL	01	IS: 5182-P12

Remarks: As per the above report, all the parameters are within NAAQ standards

CHECKED BY



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formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions



Ref: SV/SMAL/26-03/04

Date: 23-03-2026

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

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR FAD AREA

DATE & TIME OF START : 13-03-2026 @ 11:15hr

DURATION OF SAMPLING : 24 Hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

S.No	PARAMETER	UNIT	RESULT	NAAQS	METHOD
1.	Particulate Matter – PM ₁₀	µg/m ³	64.5	100	IS : 5182 – P-23
2.	Particulate Matter – PM _{2.5}	µg/m ³	26.1	60	IS : 5182 – P-24
3.	Sulphur Dioxide – SO ₂	µg/m ³	11.8	80	IS:5182 (P-2)
4.	Oxides of Nitrogen - NO _x	µg/m ³	9.50	80	IS:5182(P-6)
5.	Lead as (Pb)	µg/m ³	BDL	1.0	IS:5182 -P22
6.	Ammonia as (NH ₃)	µg/m ³	<20	400	IS 5182- P25
7.	Arsenic as (As)	ng/m ³	BDL	06	CPCB Guidelines
8.	Ozone as (O ₃)	µg/m ³	10.2	100	IS:5182 P 9
9.	Nickel as (Ni)	ng/m ³	BDL	20	IS 5182- P26
10.	Carbon Monoxide as (CO)	µg/m ³	25.9	2000	IS:5182- P 10
11.	Benzene as (C ₆ H ₆)	µg/m ³	BDL	05(Annual)	IS: 5182-P 11
12.	Benzo (a) pyrene as (BaP)	ng/m ³	BDL	01	IS: 5182-P12

Remarks: As per the above report, all the parameters are within NAAQ standards

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PAN: ABQCS0643F
CIN: U74909AP2025PTC119098





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formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions



Ref: SV/SMAL/26-03/05

Date: 23-03-2026

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

SAMPLE PARTICULARS : FUGITIVE EMISSIONS

SOURCE OF COLLECTION : NEAR CHP AREA

DATE & TIME OF START : 14-03-2026 @ 10:40hr

DURATION OF SAMPLING : 08 hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

S.No	PARAMETER	UNIT	RESULT	METHOD
1.	Total Suspended Particulate Matter --TSPM	mg/m ³	1.03	IS:5182 (P-4)
2.	Respirable Suspended Particulate Matter – RSPM	mg/m ³	0.86	IS:5182 (P-23)


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Ref: SV/SMAL/26-03/06

Date: 23-03-2026

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

SAMPLE PARTICULARS : FUGITIVE EMISSIONS

SOURCE OF COLLECTION : NEAR TAPPING EMISSION AREA

DATE & TIME OF START : 14-03-2026 @ 11:00hr

DURATION OF SAMPLING : 08 hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

S.No	PARAMETER	UNIT	RESULT	METHOD
1.	Total Suspended Particulate Matter –TSPM	mg/m ³	0.98	IS:5182 (P-4)
2.	Respirable Suspended Particulate Matter – RSPM	mg/m ³	0.31	IS:5182 (P-23)

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Ref: SV/SMAL/26-03/07

Date: 23-03-2026

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

SAMPLE PARTICULARS : FUGITIVE EMISSIONS

SOURCE OF COLLECTION : NEAR FINISHED GOODS YARD AREA

DATE & TIME OF START : 14-03-2026 @ 11:15hr

DURATION OF SAMPLING : 08 hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

S.No	PARAMETER	UNIT	RESULT	METHOD
1.	Total Suspended Particulate Matter –TSPM	mg/m ³	1.18	IS:5182 (P-4)
2.	Respirable Suspended Particulate Matter – RSPM	mg/m ³	0.39	IS:5182 (P-23)

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Ref: SV/SMAL/26-03/08

Date: 23-03-2026

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

SAMPLE PARTICULARS : FUGITIVE EMISSIONS

SOURCE OF COLLECTION : NEAR MRP AREA

DATE & TIME OF START : 14-03-2026 @ 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 ³	1.74	IS:5182 (P-4)
2.	Respirable Suspended Particulate Matter – RSPM	mg/m ³	0.65	IS:5182 (P-23)

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Ref: SV/SMAL/26-03/09

Date: 23-03-2026

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

SAMPLE PARTICULARS : FUGITIVE EMISSIONS

SOURCE OF COLLECTION : NEAR RMHS AREA

DATE & TIME OF START : 14-03-2026 @ 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 ³	1.44	IS:5182 (P-4)
2.	Respirable Suspended Particulate Matter – RSPM	mg/m ³	0.81	IS:5182 (P-23)


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Ref: SV/SMAL/26-03/10

Date: 23-03-2026

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

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : Stack Attached to FAD - I

DATE & TIME OF COLLECTION : 14-03-2026 @ 12:30 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 ²	12.56
4.	Pitot Coefficient	-	0.87
5.	Specific Gravity of Fluid	-	1.0
6.	Temperature @ DGM	°C	35
7.	Stack Temperature	°C	125
8.	Nozzle Diameter	mm	09
9.	Exit Velocity	m/sec	8.51
10.	Gas Quantity	m ³ /hr	384788
11.	Duration of Sampling	minutes	45

EMISSION RATE

S.No	PARAMETER	UNIT	RESULT	CPCB STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	29.2	50	IS: 11255-P-1

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Ref: SV/SMAL/26-03/11

Date: 23-03-2026

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

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : Stack Attached to FAD - II

DATE & TIME OF COLLECTION : 14-03-2026 @ 13:15 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 ²	12.56
4.	Pitot Coefficient	-	0.87
5.	Specific Gravity of Fluid	-	1.0
6.	Temperature @ DGM	⁰ C	34
7.	Stack Temperature	⁰ C	123
8.	Nozzle Diameter	mm	09
9.	Exit Velocity	m/sec	10.4
10.	Gas Quantity	m ³ /hr	470246
11.	Duration of Sampling	minutes	45

EMISSION RATE

S.No	PARAMETER	UNIT	RESULT	CPCB STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	25.8	50	IS: 11255-P-1

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Ref: SV/SMAL/26-03/12

Date: 23-03-2026

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

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : POWER PLANT CHIMNEY

DATE & TIME OF COLLECTION : 13-03-2026 @ 12:20 hr

TEST REPORT

S.No	DESCRIPTION	UNIT	RESULT
1.	Stack Height	m	120
2.	Diameter of the Stack	m	6.69
3.	C/s Area of Stack	m ²	35.13
4.	Pitot Coefficient	-	0.87
5.	Specific Gravity of Fluid	-	1.0
6.	Temperature @ DGM	⁰ C	32
7.	Stack Temperature	⁰ C	134
8.	Nozzle Diameter	mm	09
9.	Exit Velocity	m/sec	4.90
10.	Gas Quantity	m ³ /hr	619693
11.	Duration of Sampling	minutes	60

EMISSION RATE

S.No	PARAMETER	UNIT	RESULT	CPCB STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	36.7	50	IS: 11255-P-1
2.	Sulphur Dioxide – SO ₂	mg/Nm ³	394	600	IS: 11255-P-2
3.	Oxides of Nitrogen – NOx	mg/Nm ³	191	300	IS: 11255-P-7
4.	Mercury – Hg	mg/Nm ³	< 0.0056	0.03	USEEPA Method 29

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Ref: SV/SMAL/26-03/13

Date: 23-03-2026

NAME AND ADDRESS : M/s. SARDA METALS AND ALLOYS LTD.,
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 : 14-03-2026 @ 14:00hr

TEST REPORT

S.No	DESCRIPTION	UNIT	RESULT
1.	Diameter of the Stack	m	0.0762
2.	C/s Area of Stack	m ²	0.0045
3.	Pitot Coefficient	-	0.87
4.	Specific Gravity of Fluid	-	1.0
5.	Temperature @ DGM	°C	31
6.	Stack Temperature	°C	153
7.	Nozzle Diameter	mm	06
8.	Exit Velocity	m/sec	8.13
9.	Gas Quantity	Nm ³ /hr	91.5
10.	Duration of Sampling	minutes	45

EMISSION RATE

S.No	PARAMETER	UNITS	RESULT	CPCB STANDARD
1.	Particulate Matter – PM	g/kw-hr	0.02	0.3
2.	Oxides of Nitrogen – NOx	g/kw-hr	0.13	9.2
3.	Carbon Monoxide – CO	g/kw-hr	0.20	3.5
4.	Hydrocarbons – HC	g/kw-hr	0.01	1.3

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Ref: SV/SMAL/26-03/14

Date: 23-03-2026

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

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : 250 KVA DG Set -II (MFP)

DATE & TIME OF COLLECTION : 14-03-2026 @ 14:45hr

TEST REPORT

S.No	DESCRIPTION	UNIT	RESULT
1.	Diameter of the Stack	m	0.0762
2.	C/s Area of Stack	m ²	0.0045
3.	Pitot Coefficient	-	0.87
4.	Specific Gravity of Fluid	-	1.0
5.	Temperature @ DGM	°C	28
6.	Stack Temperature	°C	141
7.	Nozzle Diameter	mm	06
8.	Exit Velocity	m/sec	9.03
9.	Gas Quantity	Nm ³ /hr	104
10.	Duration of Sampling	minutes	45

EMISSION RATE

S.No	PARAMETER	UNITS	RESULT	CPCB STANDARD
1.	Particulate Matter – PM	g/kw-hr	0.03	0.3
2.	Oxides of Nitrogen – NO _x	g/kw-hr	0.16	9.2
3.	Carbon Monoxide – CO	g/kw-hr	0.22	3.5
4.	Hydrocarbons – HC	g/kw-hr	0.02	1.3

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Ref: SV/SMAL/26-03/15

Date: 23-03-2026

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

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : 1250 KVA DG Set – III (FAD)

DATE & TIME OF COLLECTION : 14-03-2026 @ 15:30hr

TEST REPORT

S.No	DESCRIPTION	UNIT	RESULT
1.	Diameter of the Stack	m	0.350
2.	C/s Area of Stack	m ²	0.096
3.	Pitot Coefficient	-	0.87
4.	Specific Gravity of Fluid	-	1.0
5.	Temperature @ DGM	⁰ C	30
6.	Stack Temperature	⁰ C	184
7.	Nozzle Diameter	mm	10
8.	Exit Velocity	m/sec	15.9
9.	Gas Quantity	Nm ³ /hr	3559
10.	Duration of Sampling	minutes	45

EMISSION RATE

S.No	PARAMETER	UNITS	RESULT	CPCB STANDARD
1.	Particulate Matter – PM	g/kw-hr	0.18	0.3
2.	Oxides of Nitrogen – NO _x	g/kw-hr	0.30	9.2
3.	Carbon Monoxide – CO	g/kw-hr	0.49	3.5
4.	Hydrocarbons – HC	g/kw-hr	0.07	1.3

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Ref: SV/SMAL/26-03/16

Date: 23-03-2026

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

SAMPLE PARTICULARS : NOISE LEVEL

DATE OF COLLECTION : 14-03-2026

TEST REPORT

S.No	SOURCE OF COLLECTION	Noise levels measured in dB(A)		Method
		DAY	NIGHT	
1.	Near Security Gate	66.9	58.3	IS:4954 – 1968 Noise Level Meter
2.	Near RO Plant	61.7	55.8	
3.	Near Admin Office	60.4	49.1	
4.	Mineral Fiber Plant Area	63.2	57.9	
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: SV/SMAL/26-03/17

Date: 23-03-2026

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

SAMPLE PARTICULARS : WORK ZONE NOISE (CPP)

DATE OF COLLECTION : 13-03-2026

TEST REPORT

S.No	SOURCE OF COLLECTION	Noise levels measured in dB(A)	Method
1.	Near Boiler Area	80.3	IS:4954 – 1968 Noise Level Meter
2.	Near TG Building	83.5	
3.	Near CHP Ground Hopper	71.9	
4.	Near CHP Crushes House	85.1	
5.	Near FD Fan	77.4	
6.	Near Coal Mill Area	70.6	
7.	Compressor Area	82.9	
8.	Near ID Fan Area	74.3	
CPCB STANDARDS		90.0	



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Ref: SV/SMAL/26-03/18

Date: 23-03-2026

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

SAMPLE PARTICULARS : WORK ZONE NOISE (FAD)

DATE OF COLLECTION : 13-03-2026

TEST REPORT

S.No	SOURCE OF COLLECTION	Noise levels measured in dB(A)	Method
1.	Near Furnace 1	83.7	IS:4954 – 1968 Noise Level Meter
2.	Near Furnace 2	85.9	
3.	Metal Breaking Yard/MRP	79.4	
4.	28 Meter Area	75.1	
5.	RMHS Area	73.9	
CPCB STANDARDS		90.0	



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Ref: SV/SMAL/26-03/19

Date: 23-03-2026

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

SAMPLE PARTICULARS : EFFLUENT WATER

SOURCE OF COLLECTION : FAD – COOLING TOWER BLOW DOWN

DATE OF COLLECTION : 14-03-2026

TEST REPORT

S.No	PARAMETER	UNIT	RESULT	Discharge Standards
1.	pH	--	7.15	6.5 – 8.5
2.	Total Dissolved Solids – TDS	mg/l	819	2100
3.	Total Suspended Solids – TSS	mg/l	9.0	100
4.	Chemical Oxygen Demand - COD	mg/l	20.0	250
5.	Bio-Chemical oxygen demand - BOD (3 Days Incubation at 27°C)	mg/l	5.0	30
6.	Oil & Grease	mg/l	<1.0	10

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Ref: SV/SMAL/26-03/20

Date: 23-03-2026

NAME AND ADDRESS : M/s. SARDA METALS AND ALLOYS LTD.,
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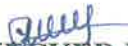
SAMPLE PARTICULARS : EFFLUENT WATER

SOURCE OF COLLECTION : CPP – COOLING TOWER BLOW DOWN

DATE OF COLLECTION : 14-03-2026

TEST REPORT

S.No	PARAMETER	UNIT	RESULT	Discharge Standards
1.	pH	--	7.74	6.5 – 8.5
2.	Total Dissolved Solids – TDS	mg/l	1023	2100
3.	Total Suspended Solids – TSS	mg/l	16.0	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	15.0	30
6.	Oil & Grease	mg/l	1.0	10


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Ref: SV/SMAL/26-03/21

Date: 23-03-2026

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

SAMPLE PARTICULARS : EFFLUENT WATER

SOURCE OF COLLECTION : RAIN WATER HARVESTING PIT

DATE OF COLLECTION : 14-03-2026

TEST REPORT

S.No	PARAMETER	UNIT	RESULT	Discharge Standards
1.	pH	--	7.84	6.5 – 8.5
2.	Total Dissolved Solids – TDS	mg/l	605	2100
3.	Total Suspended Solids – TSS	mg/l	4.0	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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Corporate Office and Laboratory: Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam - 530012
Hyderabad Office: #402, SaiKrishna Villa, Behind CMR Shopping Mall, AS Raju Nagar, Kukatpally, Hyderabad - 500072

Website: www.svenviolabs.com
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Contacts
0891-2755528, +91 7207664444

PAN: ABQCS0643F
CIN: U74909AP2025PTC119098





SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions



Ref: SV/SMAL/26-03/22

Date: 23-03-2026

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

SAMPLE PARTICULARS : EFFLUENT WATER

SOURCE OF COLLECTION : MFP COOLING TOWER BLOW DOWN

DATE OF COLLECTION : 14-03-2026

TEST REPORT

S.No	PARAMETER	UNIT	RESULT	Discharge Standards
1.	pH	--	7.06	6.5 – 8.5
2.	Total Dissolved Solids – TDS	mg/l	453	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: SV/SMAL/26-03/23

Date: 23-03-2026

NAME AND ADDRESS : M/s. SARDA METALS AND ALLOYS LTD.,
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 : 14-03-2026

TEST REPORT

S.No	PARAMETER	UNIT	1	2	3	4	Discharge Standards
1.	pH	--	6.98	7.24	7.10	6.93	6.5 – 8.5
2.	Total Dissolved Solids - TDS	mg/l	653	985	496	419	2100
3.	Total Suspended Solids - TSS	mg/l	3.0	9.0	2.0	5.0	100
4.	Chemical Oxygen Demand - COD	mg/l	40.0	10.0	25.0	10.0	250
5.	Bio-Chemical oxygen demand - BOD (3 Days Incubation at 27°C)	mg/l	16.0	3.0	9.0	3.0	30
6.	Oil & Grease	mg/l	<1.0	1.0	<1.0	<1.0	10
7.	Fecal Coliforms	MPN/100ml	9	18	6	11	<1000

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Ref: SV/SMAL/26-03/24

Date: 23-03-2026

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

SAMPLE PARTICULARS : GROUND WATER

SOURCE OF COLLECTION : ARIHANT BOREWELL

DATE OF COLLECTION : 14-03-2026

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	0.12	1.0
5.	pH	-	7.53	6.5 – 8.5
6.	Total Dissolved Solids	mg/l	179	500
7.	Total Alkalinity as CaCO ₃	mg/l	86.3	200
8.	Total Hardness as CaCO ₃	mg/l	55.2	200
9.	Calcium as Ca	mg/l	13.7	75
10.	Magnesium as Mg	mg/l	5.12	30
11.	Chlorides as Cl	mg/l	48.9	250
12.	Fluorides as F	mg/l	0.10	1.0
13.	Nitrates as NO ₃ ⁻	mg/l	6.58	45
14.	Sulphates as SO ₄	mg/l	19.3	200
15.	Iron as Fe	mg/l	0.09	0.3
16.	Free Residual Chlorine	mg/l	<0.1	0.2
17.	Phenolic Compounds as C ₆ H ₅ OH	mg/l	Nil	0.001
18.	Copper as Cu	mg/l	<0.01	0.05
19.	Manganese as Mn	mg/l	<0.01	0.1
20.	Zinc as Zn	mg/l	0.04	5.0
21.	Aluminum as Al	mg/l	<0.01	0.03
22.	Boron as B	mg/l	0.02	0.5
23.	Sulphide as H ₂ S	mg/l	<0.1	0.05
24.	Anionic Detergents (as MBAS)	mg/l	<0.01	0.2
25.	Barium as Ba	mg/l	<0.01	0.7
26.	Chloramines (as Cl ₂)	mg/l	<1.0	4.0
27.	Ammonia as total ammonia-N	mg/l	<0.01	0.5
28.	Mineral Oil	mg/l	<0.01	0.5
29.	Selenium as Se	mg/l	<0.005	0.01
30.	Silver as Ag	mg/l	<0.01	0.1
MICROBIOLOGY:				
31.	<i>E. coliforms</i>	CFU/100mL	Not Detected	Shall not be detected in 100 ml
32.	<i>Total Coliforms</i>	CFU/ 100mL	Not Detected	Shall not be detected in 100 ml

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

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

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Ref: SV/SMAL/26-03/25

Date: 23-03-2026

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

SAMPLE PARTICULARS : DRINKING WATER

SOURCE OF COLLECTION : WTP DRINKING WATER

DATE OF COLLECTION : 14-03-2026

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	0.01	1.0
5.	pH	-	6.94	6.5 – 8.5
6.	Total Dissolved Solids	mg/l	92.0	500
7.	Total Alkalinity as CaCO ₃	mg/l	47.9	200
8.	Total Hardness as CaCO ₃	mg/l	27.3	200
9.	Calcium as Ca	mg/l	5.97	75
10.	Magnesium as Mg	mg/l	3.02	30
11.	Chlorides as Cl	mg/l	27.8	250
12.	Fluorides as F	mg/l	0.03	1.0
13.	Nitrates as NO ₃ ⁻	mg/l	1.96	45
14.	Sulphates as SO ₄	mg/l	8.52	200
15.	Iron as Fe	mg/l	0.04	0.3
16.	Free Residual Chlorine	mg/l	<0.1	0.2
17.	Phenolic Compounds as C ₆ H ₅ OH	mg/l	Nil	0.001
18.	Copper as Cu	mg/l	<0.01	0.05
19.	Manganese as Mn	mg/l	<0.01	0.1
20.	Zinc as Zn	mg/l	<0.01	5.0
21.	Aluminum as Al	mg/l	<0.01	0.03
22.	Boron as B	mg/l	<0.01	0.5
23.	Sulphide as H ₂ S	mg/l	<0.1	0.05
24.	Anionic Detergents (as MBAS)	mg/l	<0.01	0.2
25.	Barium as Ba	mg/l	<0.01	0.7
26.	Chloramines (as Cl ₂)	mg/l	<1.0	4.0
27.	Ammonia as total ammonia-N	mg/l	<0.01	0.5
28.	Mineral Oil	mg/l	<0.01	0.5
29.	Selenium as Se	mg/l	<0.005	0.01
30.	Silver as Ag	mg/l	<0.01	0.1
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

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34.	Mercury as Hg	mg/l	<0.001	0.001
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

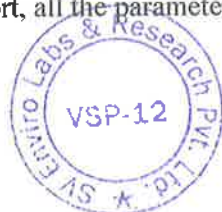
TRIHALOMETHANES

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, 24th Edition, 2023.

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

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AIR POLLUTION CONTROL SYSTEMS

ESP and Closed conveyor system



Fume extraction system at furnace



Closed Conveyor Belt at Raw material transfer



Stack attached to Bag House 3No'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



GHG EMISSIONS INVENTORY & DE-CARBONIZATION PROGRAM



Carbon foot-print Reduction management and De-carbonization program



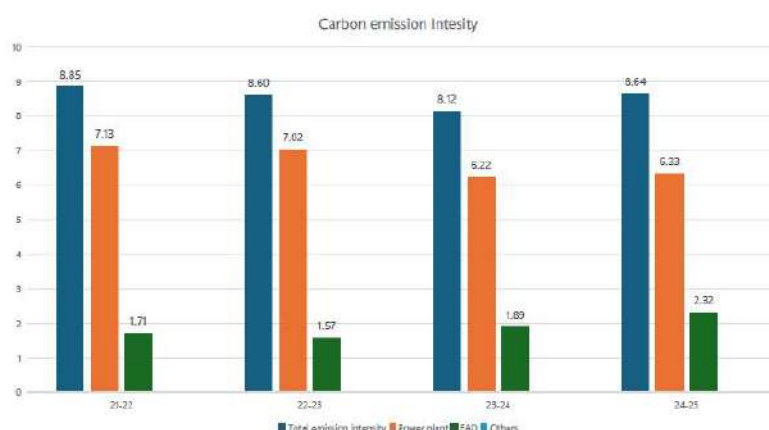
Reg. Office: 125 B Wing, Mittal Court, Nariman Point, Mumbai 400021, MH, India
Works: APHC Industrial Area, Kantakapalli, Vizianagaram District 535240, AP, India

Overall GHG Emissions - Summary

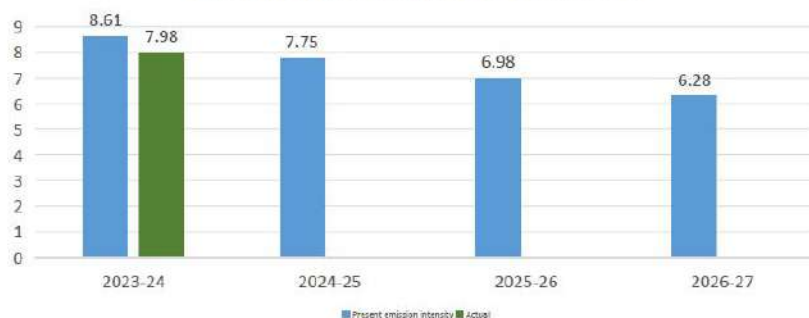


Emission Category	UOM	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
Production	Tonnes	81,199	79,050	114412	103443
Scope 1	t CO ₂ eq	7,18,168	6,80,029	928692	895897
Scope 2	t CO ₂ eq	228	747	399	930
Total Emission	t CO ₂ eq	7,18,396	6,80,776	9,12,654	8,96,827
Emission Intensity	t CO ₂ eq.	8.85	8.61	8.12	8.64

Scope 1 Emissions Intensity Distribution



Emission Intensity reduction Plan



Emission Intensity can be reduced by 25% to 30% by implementing following below action plan within 3 to 4 years.

Emission intensity reduction plans

S.No	Action plan	Quantity of Carbon emission Reduction (t CO ₂ e)	Target date
1	Converted two motors having capacity of 550KW to variable frequency drives in FAD at GCP-1.	1185	21.04.2024
2	Ecosystem restoration by planting 2500 trees(external)	62.5	26.03.2024
3	Ecosystem restoration by planting 2500 trees(internal)	62.5	30.10.2024
4	Installation of 344KW roof top solar panels by 30th November'2024.	3786	30.11.2024
5	Replacing two existing diesel operated vehicle with EV's.	13.0	31.03.2027
6	Installation of 15MW WHRB at FAD	141810	31.03.2027
	Total	146919.0	
	Total Emission Intensity reduction	1.79	

కృష్ణా

నర్సానీలకు ఇళ్లకట్టలాలు తీసుకువచ్చింది

• ఇంటికి వీలైనా నర్సానీలకు



నర్సానీలకు ఇళ్లకట్టలాలు తీసుకువచ్చింది. నర్సానీలకు ఇళ్లకట్టలాలు తీసుకువచ్చింది. నర్సానీలకు ఇళ్లకట్టలాలు తీసుకువచ్చింది.

దయల్ 104..!

నర్సానీలకు ఇళ్లకట్టలాలు తీసుకువచ్చింది

• ఇంటికి వీలైనా నర్సానీలకు



104 కోట్ల రూపాయల వరకు నర్సానీలకు ఇళ్లకట్టలాలు తీసుకువచ్చింది.

క్రీడలతో ఉజ్వల భవిష్యత్తు

నర్సానీలకు ఇళ్లకట్టలాలు తీసుకువచ్చింది

• ఇంటికి వీలైనా నర్సానీలకు



క్రీడలతో ఉజ్వల భవిష్యత్తు. నర్సానీలకు ఇళ్లకట్టలాలు తీసుకువచ్చింది.

మనస్యంలో ఇద్దరినీ హత్య?

నర్సానీలకు ఇళ్లకట్టలాలు తీసుకువచ్చింది

• ఇంటికి వీలైనా నర్సానీలకు



మనస్యంలో ఇద్దరినీ హత్య? నర్సానీలకు ఇళ్లకట్టలాలు తీసుకువచ్చింది.

గమనిక

నర్సానీలకు ఇళ్లకట్టలాలు తీసుకువచ్చింది

• ఇంటికి వీలైనా నర్సానీలకు



గమనిక. నర్సానీలకు ఇళ్లకట్టలాలు తీసుకువచ్చింది.

WANTED

నర్సానీలకు ఇళ్లకట్టలాలు తీసుకువచ్చింది

• ఇంటికి వీలైనా నర్సానీలకు



WANTED. నర్సానీలకు ఇళ్లకట్టలాలు తీసుకువచ్చింది.

2 VISAKHAPATNAM/REGION

Student embarks on 11,000-km drive to promote soil conservation



Correspondent of Dr. Lankapalli Sudhakar College G. Madhu Kumar flagging off the bike expedition of B. Sai Sampath in Visakhapatnam on Monday.

SPECIAL CORRESPONDENT VISAKHAPATNAM

A second-year degree student from Dr. L. Lankapalli Sudhakar College G. Madhu Kumar embarked on a solo motorcycle trip to Lakshadweep and back to Kanyakumari, from the city here on Monday. Sampath will cover about 11,000 km during his 45-day tour. Proceeding from Visakhapatnam, he will drive across almost nine States covering Hyderabad, Nagpur, Agra, Delhi, Jaipur, Lucknow, Madurai, Sikkim, and then drive down to South in the same route and proceed to Kanyakumari, Madurai and

Kanyakumari. He will be back to Visakhapatnam after touching Chennai. Flagging off the bike, Secretary and Correspondent of the college G. Madhu Kumar said it is good to see youngsters taking up issues and going on adventure trips. Earlier, a couple of months ago, Sampath had cycled all the way to Kanyakumari from Visakhapatnam to spread awareness on eradicating plastic waste. "This time, I will spread the message on the importance of soil conservation and organic farming," said Sampath.

Srikakulam Road station gets stainless steel FOB

Speaker and MP thank Railways

SPECIAL CORRESPONDENT VISAKHAPATNAM

The second stainless steel foot-over bridge (FOB), in India, was opened for public use at Srikakulam Road Railway Station in Srikakulam district on Monday. The first FOB was also commissioned at Nandigam railway station in Srikakulam district. The FOB was opened for public use by Speaker T. Seetharam in the presence

of Srikakulam MP K. Ramachandra Naidu, DDM Anup Sagathi and officials of the Water Division. Mr. Seetharam appreciated the efforts of Ministry of Railways and Water Division authorities for providing amenities at the station. Mr. Ramachandra Naidu said it was a proud moment that Srikakulam's first and second stainless steel FOBs were commissioned in Srikakulam district.

Dr. Ambedkar cannot be limited to a district: Chinta

'Naming a district after him and then fighting over it is undesirable'

SPECIAL CORRESPONDENT VISAKHAPATNAM

Dr. B.R. Ambedkar is a phenomenon and he is an international figure, he cannot be limited to a district, said former Union Minister Chinta Mohan.

Addressing a press conference here on Monday, he took strong exception to the recent rioting and arson at Anaparthi in Konaseema district. "I am not against Konaseema district being named after Dr. Ambedkar, but people and the State government should realise that Ambedkar is respected internationally and his principles and doctrines are practised across the globe. Naming a small district after him and then fighting over it is undesirable. By naming a



CWC member Chinta Mohan addressing the media in Visakhapatnam.

small district after him, the authorities concerned are equating him with VSR Rajasekhara Reddy," Mr. Mohan said. "Taking a dig at the ongoing Naga strike by the YSR Congress Party leaders, he said it was big failure in the name of propagating social justice.

He also criticised the YSRCP leaders and the leaders from other parties, including the Left parties, the way they were handling the Visakhapatnam Steel Plant privatisation issue.

"The Union Government had also tried to privatise the Tirupathi International Airport, but they could not do it after I took up the issue with the Union Government," Mr. Mohan said. "VSP is a prestigious plant and it had come up after sacrifices were made by the people of Andhra. It just cannot be given away to a private player. But at the same time the protest and the feeling of the people cannot be registered only by doing some hunger strike or rallies once in a while," he said.

DCIL reports turnaround performance in 2021-22

SPECIAL CORRESPONDENT VISAKHAPATNAM

Dredging Corporation of India Limited (DCIL) reported a turnaround performance for the financial year 2021-22 by growing a turnover of crore, which is said to be the highest achieved in 12 years.

They reported a profit after tax for 2021-22 of 55.46 crore, as compared to the loss of 572.41 crore, in the last year. It also reported an earning per share (EPS) of 51.84, as compared to a minus 500.05, in the previous year.

The EBTTA (earnings before interest, taxes, and amortisation) for the year ended was also the all-time high in recent times at 212.52 crore, as against a minus of 534.38 crore, in the previous year. As per CVC Victor, MD & CEO of DCIL, the performance could be achieved despite seven of its dredges being in the dry dock for a considerable period of time during the year.

The performance would

have been much better but for the abrupt increase in fuel prices in recent times, he said.

According to him, all the projects could be completed in the year in time and to the satisfaction of the clients and he attributed the turnaround to strict cost control measures and close monitoring of the contracts.

Left parties seek reversal of hike in prices of essential commodities



CPIM activists, led by State Secretariat member Ch. Narasimha Rao, staging a protest in Visakhapatnam on Monday.

SPECIAL CORRESPONDENT VISAKHAPATNAM

Leaders and activists of the Left parties staged a diurna demanding reversal of the hike in the prices of petrol, diesel, cooking gas, the Central government and the hike in power tariff, PTC, fares and municipal taxes by the State government, at the Collector's office here, on Monday.

State secretariat member Ch. Narasimha Rao, CPI leader A.J. Stalin, CPI-M (New Democracy) State leader M. Lakshmi, MCPI district secretary L. Sankara Rao and SUCI district secretary Govindarajulu,

who led the protesters, alleged that the Modi government was extending concessions to the tune of lakhs of rupees to corporate companies, while taxing the poor and middle class people. The price of petrol has gone up by 50 paise, while the price of diesel has gone up by 50 paise and 5000 for a cylinder. The BJP government has sacrificed the interest of consumers by lifting control on oil prices. They described the recent reduction in the prices as a mere 'eye wash' to deceive people.

Sl. No.	Item	Rate
1	Partial renovation of Nandigam Road, 100 ft. x 100 ft. x 100 ft.	10,00,000
2	Partial renovation of Nandigam Road, 100 ft. x 100 ft. x 100 ft.	10,00,000
3	Partial renovation of Nandigam Road, 100 ft. x 100 ft. x 100 ft.	10,00,000
4	Partial renovation of Nandigam Road, 100 ft. x 100 ft. x 100 ft.	10,00,000
5	Partial renovation of Nandigam Road, 100 ft. x 100 ft. x 100 ft.	10,00,000
6	Partial renovation of Nandigam Road, 100 ft. x 100 ft. x 100 ft.	10,00,000
7	Partial renovation of Nandigam Road, 100 ft. x 100 ft. x 100 ft.	10,00,000
8	Partial renovation of Nandigam Road, 100 ft. x 100 ft. x 100 ft.	10,00,000
9	Partial renovation of Nandigam Road, 100 ft. x 100 ft. x 100 ft.	10,00,000
10	Partial renovation of Nandigam Road, 100 ft. x 100 ft. x 100 ft.	10,00,000

CLASSIFIEDS MART

DIGITAL DISPLAY BOARD



FORM-V

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

Tel : +91 891 2858200
Fax : +91 891 2700864
www.sardametals.com



Ref No: SMAL/APPCB-RO/Form-V/2024-25

Date: 22.09.2025

To

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

Dear Sir/ Madam,

Sub: Submission of Environment Statement F.Y. 2024-2025 - 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 2024-2025 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 Bhaskar
Dy. General Manager - EHS
(Authorized Signatory)

Encl: As above.

Factory : APIIC, Industrial Park, Kantakapalli, Kothavalasa, Vizianagaram - 535 240, (AP) India, (O) : +91 8922 248203
Registered Office : 125 Mittal Court B wing, Nariman Point, Mumbai - 400021 (MH) Tel : +91 22 43472510 F : +022-22826680

TCLP Test Reports



CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-28508/2025-26 & 11.12.2025
Sample Number	N-28508/25-26
Name of the Customer	M/s. Sarda Metals & Alloys Ltd.,
Address	D.No.50-96-4/1, Floor II & III, Srigowri Nilayam, Seethammadhara NE, Visakhapatnam - 530 013.
Sample Drawn by	Customer
Sample Name	SiMn Slag
Sample Description	SiMn Slag
Sampling Location	NA
Sample Drawn on	NA
Sample Collected by	NA
Sampling Plan & Procedure	NA
Sample Quantity	250g
Sample Condition	Good & Received in Packed Condition
Environmental Conditions	NA
Equipment used for Sampling	NA
Sample Received on	03.12.2025
Analysis Started on	03.12.2025
Analysis Completed on	10.12.2025

Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
TCLP Analysis:					
1	Arsenic	SW - 846 Methods 1311 TCLP and Appendix II of section 66261 of Title 22 of California Code regulation / AAS	mg/l	BLQ(LOQ:0.01)	Max 5.0
2	Barium		mg/l	BLQ(LOQ:0.5)	Max 100
3	Cadmium		mg/l	BLQ(LOQ:0.05)	Max 1.0
4	Chromium		mg/l	0.16	Max 5.0
5	Lead		mg/l	0.47	Max 5.0
6	Mercury		mg/l	BLQ(LOQ:0.01)	Max 0.2
7	Selenium		mg/l	BLQ(LOQ:0.01)	Max 1.0
8	Silver		mg/l	BLQ(LOQ:0.1)	Max 5.0
9	Manganese		mg/l	9.03	Max 10.0
10	Antimony		mg/l	BLQ(LOQ:0.01)	Max 15.0
11	Hexavalent Chromium as Cr ⁶⁺		mg/l	BLQ(LOQ:0.05)	Max 5.0
12	Cobalt		mg/l	BLQ(LOQ:0.1)	Max 80.0
13	Copper		mg/l	0.12	Max 25.0
14	Molybdenum		mg/l	BLQ(LOQ:0.1)	Max 350
15	Nickel		mg/l	0.10	Max 20.0
16	Zinc		mg/l	1.34	Max 250
17	Beryllium		mg/l	BLQ(LOQ:0.1)	Max 0.75
18	Thallium		mg/l	BLQ(LOQ:0.5)	Max 7.0
19	Vanadium		mg/l	BLQ(LOQ:2.0)	Max 24.0

BLQ - Below Limit of Quantification; LOQ - Limit of Quantification.

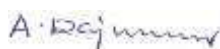
Limits - *Threshold Limit as Per HWM Rule 2016

END OF REPORT



Verified by

For Chennai Testing Laboratory Pvt Ltd



Authorised Signatory

A. RAJ KUMAR
SENIOR MANAGER
(CHEMICAL)

Page 1 of 1

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Phone : +91-44-2250 1757 | E-mail : chennaiesting@chennaiestinglab.com www.ctllabs.in

TEST REPORT

Test Report No & Date CTL/CH/N-28508/2025-26 & 11.12.2025
Sample Number N-28508/25-26
Name of the Customer M/s. Sarda Metals & Alloys Ltd.,
Address D.No.50-96-4/1, Floor II & III, Srigowri Nilayam,
 Seethammadhara NE, Visakhapatnam - 530 013.

Sample Drawn by Customer
Sample Name SiMn Slag
Sample Description **SiMn Slag**
Sampling Location NA
Sample Drawn on NA
Sample Collected by NA
Sampling Plan & Procedure NA
Sample Quantity 250g
Sample Condition Good & Received in Packed Condition
Environmental Conditions NA
Equipment used for Sampling NA
Sample Received on 03.12.2025
Analysis Started on 03.12.2025
Analysis Completed on 10.12.2025

Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Copper as Cu	EPA 3050B – 1996 (Rev -2)/EPA 7210-1986	mg/kg	12.42
2	Lead as Pb	EPA 3050B – 1996 (Rev -2)/EPA 7420 – 1986	mg/kg	73.05
3	Manganese as Mn	EPA 3050B–1996 (Rev-2)/EPA 7460-1986	%	6.21
4	Zinc as Zn	EPA 3050B–1996 (Rev-2)/EPA 7950-1986	mg/kg	224.6
5	Chromium as Cr	EPA 3050B–1996 (Rev-2)/EPA 7190-1986	mg/kg	41.83
6	Nickel as Ni	EPA 3050B – 1996 (Rev -2)/EPA 7520 – 1986	mg/kg	36.27
7	Cadmium as Cd	EPA 3050B–1996 (Rev-2)/EPA 7130-1986	mg/kg	BLQ(LOQ:2.0)
8	Arsenic as As	EPA 3050B–1996 (Rev-2)/EPA 7061A-1992 (Rev-1)	mg/kg	BLQ(LOQ:0.1)
9	Mercury as Hg	EPA 7471A-2007 (Rev-2)	mg/kg	BLQ(LOQ:0.2)

BLQ - Below Limit of Quantification; LOQ - Limit of Quantification.

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd


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TEST REPORT

Test Report No & Date CTL/CH/N-28509/2025-26 & 11.12.2025
Sample Number N-28509/25-26
Name of the Customer M/s. Sarda Metals & Alloys Ltd.,
Address D.No.50-96-4/1, Floor II & III, Srighowri Nilayam,
 Seethammadhara NE, Visakhapatnam - 530 013.

Sample Drawn by Customer
Sample Name Baghouse Dust
Sample Description Baghouse Dust
Sampling Location NA
Sample Drawn on NA
Sample Collected by NA
Sampling Plan & Procedure NA
Sample Quantity 250g
Sample Condition Good & Received in Packed Condition
Environmental Conditions NA
Equipment used for Sampling NA
Sample Received on 03.12.2025
Analysis Started on 03.12.2025
Analysis Completed on 10.12.2025

Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
TCLP Analysis:					
1	Arsenic	SW - 846 Methods 1311 TCLP and Appendix II of section 66261 of Title 22 of California Code regulation / AAS	mg/l	BLQ(LOQ:0.01)	Max 5.0
2	Barium		mg/l	BLQ(LOQ:0.5)	Max 100
3	Cadmium		mg/l	BLQ(LOQ:0.05)	Max 1.0
4	Chromium		mg/l	0.35	Max 5.0
5	Lead		mg/l	1.61	Max 5.0
6	Mercury		mg/l	BLQ(LOQ:0.01)	Max 0.2
7	Selenium		mg/l	BLQ(LOQ:0.01)	Max 1.0
8	Silver		mg/l	BLQ(LOQ:0.1)	Max 5.0
9	Manganese		mg/l	8.15	Max 10.0
10	Antimony		mg/l	BLQ(LOQ:0.01)	Max 15.0
11	Hexavalent Chromium as Cr ⁶⁺		mg/l	BLQ(LOQ:0.05)	Max 5.0
12	Cobalt		mg/l	BLQ(LOQ:0.1)	Max 80.0
13	Copper		mg/l	0.46	Max 25.0
14	Molybdenum		mg/l	BLQ(LOQ:0.1)	Max 350
15	Nickel		mg/l	0.65	Max 20.0
16	Zinc		mg/l	3.67	Max 250
17	Beryllium		mg/l	BLQ(LOQ:0.1)	Max 0.75
18	Thallium		mg/l	BLQ(LOQ:0.5)	Max 7.0
19	Vanadium		mg/l	BLQ(LOQ:2.0)	Max 24.0

BLQ - Below Limit of Quantification; LOQ - Limit of Quantification.

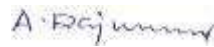
Limits - *Threshold Limit as Per HWM Rule 2016

END OF REPORT



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For Chennai Testing Laboratory Pvt Ltd



Authorised Signatory

A. RAJ KUMAR
SENIOR MANAGER
(CHEMICAL)

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TEST REPORT

Test Report No & Date	CTL/CH/N-28509/2025-26 & 11.12.2025
Sample Number	N-28509/25-26
Name of the Customer	M/s. Sarda Metals & Alloys Ltd.,
Address	D.No.50-96-4/1, Floor II & III, Srigowri Nilayam, Seethammadhara NE, Visakhapatnam - 530 013.
Sample Drawn by	Customer
Sample Name	Baghouse Dust
Sample Description	Baghouse Dust
Sampling Location	NA
Sample Drawn on	NA
Sample Collected by	NA
Sampling Plan & Procedure	NA
Sample Quantity	250g
Sample Condition	Good & Received in Packed Condition
Environmental Conditions	NA
Equipment used for Sampling	NA
Sample Received on	03.12.2025
Analysis Started on	03.12.2025
Analysis Completed on	10.12.2025

Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Copper as Cu	EPA 3050B – 1996 (Rev -2)/EPA 7210-1986	mg/kg	48.35
2	Lead as Pb	EPA 3050B – 1996 (Rev -2)/EPA 7420 – 1986	mg/kg	320.2
3	Manganese as Mn	EPA 3050B–1996 (Rev-2)/EPA 7460-1986	%	5.98
4	Zinc as Zn	EPA 3050B–1996 (Rev-2)/EPA 7950-1986	mg/kg	712.6
5	Chromium as Cr	EPA 3050B–1996 (Rev-2)/EPA 7190-1986	mg/kg	154.5
6	Nickel as Ni	EPA 3050B – 1996 (Rev -2)/EPA 7520 – 1986	mg/kg	116.3
7	Cadmium as Cd	EPA 3050B–1996 (Rev-2)/EPA 7130-1986	mg/kg	BLQ(LOQ:2.0)
8	Arsenic as As	EPA 3050B–1996 (Rev-2)/EPA 7061A-1992 (Rev-1)	mg/kg	BLQ(LOQ:0.1)
9	Mercury as Hg	EPA 7471A-2007 (Rev-2)	mg/kg	BLQ(LOQ:0.2)

BLQ - Below Limit of Quantification; LOQ - Limit of Quantification.

END OF REPORT


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For Chennai Testing Laboratory Pvt Ltd


A. Raj Kumar

Authorised Signatory

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TEST REPORT

Test Report No & Date	CTL/CH/N-28510/2025-26 & 11.12.2025
Sample Number	N-28510/25-26
Name of the Customer	M/s. Sarda Metals & Alloys Ltd.,
Address	D.No.50-96-4/1, Floor II & III, Srigowri Nilayam, Seethammadhara NE, Visakhapatnam - 530 013.
Sample Drawn by	Customer
Sample Name	Fly Ash
Sample Description	Fly Ash
Sampling Location	NA
Sample Drawn on	NA
Sample Collected by	NA
Sampling Plan & Procedure	NA
Sample Quantity	250g
Sample Condition	Good & Received in Packed Condition
Environmental Conditions	NA
Equipment used for Sampling	NA
Sample Received on	03.12.2025
Analysis Started on	03.12.2025
Analysis Completed on	10.12.2025

Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
TCLP Analysis:					
1	Arsenic	SW - 846 Methods 1311 TCLP and Appendix II of section 66261 of Title 22 of California Code regulation / AAS	mg/l	BLQ(LOQ:0.01)	Max 5.0
2	Barium		mg/l	BLQ(LOQ:0.5)	Max 100
3	Cadmium		mg/l	BLQ(LOQ:0.05)	Max 1.0
4	Chromium		mg/l	0.35	Max 5.0
5	Lead		mg/l	0.61	Max 5.0
6	Mercury		mg/l	BLQ(LOQ:0.01)	Max 0.2
7	Selenium		mg/l	BLQ(LOQ:0.01)	Max 1.0
8	Silver		mg/l	BLQ(LOQ:0.1)	Max 5.0
9	Manganese		mg/l	2.15	Max 10.0
10	Antimony		mg/l	BLQ(LOQ:0.01)	Max 15.0
11	Hexavalent Chromium as Cr ⁶⁺		mg/l	BLQ(LOQ:0.05)	Max 5.0
12	Cobalt		mg/l	BLQ(LOQ:0.1)	Max 80.0
13	Copper		mg/l	0.21	Max 25.0
14	Molybdenum		mg/l	BLQ(LOQ:0.1)	Max 350
15	Nickel		mg/l	0.23	Max 20.0
16	Zinc		mg/l	1.64	Max 250
17	Beryllium		mg/l	BLQ(LOQ:0.1)	Max 0.75
18	Thallium		mg/l	BLQ(LOQ:0.5)	Max 7.0
19	Vanadium		mg/l	BLQ(LOQ:2.0)	Max 24.0

BLQ - Below Limit of Quantification; LOQ - Limit of Quantification.

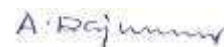
Limits - *Threshold Limit as Per HWM Rule 2016

END OF REPORT



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For Chennai Testing Laboratory Pvt Ltd



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A. RAJ KUMAR
SENIOR MANAGER
(CHEMICAL)

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TEST REPORT

Test Report No & Date CTL/CH/N-28510/2025-26 & 11.12.2025
Sample Number N-28510/25-26
Name of the Customer M/s. Sarda Metals & Alloys Ltd.,
Address D.No.50-96-4/1, Floor II & III, Srigowri Nilayam,
 Seethammadhara NE, Visakhapatnam - 530 013.

Sample Drawn by Customer
Sample Name Fly Ash
Sample Description Fly Ash
Sampling Location NA
Sample Drawn on NA
Sample Collected by NA
Sampling Plan & Procedure NA
Sample Quantity 250g
Sample Condition Good & Received in Packed Condition
Environmental Conditions NA
Equipment used for Sampling NA
Sample Received on 03.12.2025
Analysis Started on 03.12.2025
Analysis Completed on 10.12.2025

Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Copper as Cu	EPA 3050B – 1996 (Rev -2)/EPA 7210-1986	mg/kg	51.62
2	Lead as Pb	EPA 3050B – 1996 (Rev -2)/EPA 7420 – 1986	mg/kg	106.23
3	Manganese as Mn	EPA 3050B–1996 (Rev-2)/EPA 7460-1986	mg/kg	612.5
4	Zinc as Zn	EPA 3050B–1996 (Rev-2)/EPA 7950-1986	mg/kg	534.2
5	Chromium as Cr	EPA 3050B–1996 (Rev-2)/EPA 7190-1986	mg/kg	65.27
6	Nickel as Ni	EPA 3050B – 1996 (Rev -2)/EPA 7520 – 1986	mg/kg	59.23
7	Cadmium as Cd	EPA 3050B–1996 (Rev-2)/EPA 7130-1986	mg/kg	BLQ(LOQ:2.0)
8	Arsenic as As	EPA 3050B–1996 (Rev-2)/EPA 7061A-1992 (Rev-1)	mg/kg	BLQ(LOQ:0.1)
9	Mercury as Hg	EPA 7471A-2007 (Rev-2)	mg/kg	BLQ(LOQ:0.2)

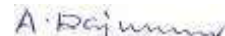
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For Chennai Testing Laboratory Pvt Ltd



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TEST REPORT

Test Report No & Date CTL/CH/N-28511/2025-26 & 11.12.2025
Sample Number N-28511/25-26
Name of the Customer M/s. Sarda Metals & Alloys Ltd.,
Address D.No.50-96-4/1, Floor II & III, Srigowri Nilayam,
 Seethammadhara NE, Visakhapatnam - 530 013.

Sample Drawn by Customer
Sample Name Bottom Ash
Sample Description Bottom Ash
Sampling Location NA
Sample Drawn on NA
Sample Collected by NA
Sampling Plan & Procedure NA
Sample Quantity 250g
Sample Condition Good & Received in Packed Condition
Environmental Conditions NA
Equipment used for Sampling NA
Sample Received on 03.12.2025
Analysis Started on 03.12.2025
Analysis Completed on 10.12.2025

Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
TCLP Analysis:					
1	Arsenic	SW - 846 Methods 1311 TCLP and Appendix II of section 66261 of Title 22 of California Code regulation / AAS	mg/l	BLQ(LOQ:0.01)	Max 5.0
2	Barium		mg/l	BLQ(LOQ:0.5)	Max 100
3	Cadmium		mg/l	BLQ(LOQ:0.05)	Max 1.0
4	Chromium		mg/l	0.45	Max 5.0
5	Lead		mg/l	0.36	Max 5.0
6	Mercury		mg/l	BLQ(LOQ:0.01)	Max 0.2
7	Selenium		mg/l	BLQ(LOQ:0.01)	Max 1.0
8	Silver		mg/l	BLQ(LOQ:0.1)	Max 5.0
9	Manganese		mg/l	2.49	Max 10.0
10	Antimony		mg/l	BLQ(LOQ:0.01)	Max 15.0
11	Hexavalent Chromium as Cr ⁶⁺		mg/l	BLQ(LOQ:0.05)	Max 5.0
12	Cobalt		mg/l	BLQ(LOQ:0.1)	Max 80.0
13	Copper		mg/l	0.29	Max 25.0
14	Molybdenum		mg/l	BLQ(LOQ:0.1)	Max 350
15	Nickel		mg/l	0.35	Max 20.0
16	Zinc		mg/l	1.39	Max 250
17	Beryllium		mg/l	BLQ(LOQ:0.1)	Max 0.75
18	Thallium		mg/l	BLQ(LOQ:0.5)	Max 7.0
19	Vanadium		mg/l	BLQ(LOQ:2.0)	Max 24.0

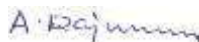
BLQ - Below Limit of Quantification; LOQ - Limit of Quantification.

Limits - *Threshold Limit as Per HWM Rule 2016

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd


Verified by


A. Raj Kumar

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A. RAJ KUMAR
SENIOR MANAGER
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TEST REPORT

Test Report No & Date CTL/CH/N-28511/2025-26 & 11.12.2025
Sample Number N-28511/25-26
Name of the Customer M/s. Sarda Metals & Alloys Ltd.,
Address D.No.50-96-4/1, Floor II & III, Srigowri Nilayam,
 Seethammadhara NE, Visakhapatnam - 530 013.

Sample Drawn by Customer
Sample Name Bottom Ash
Sample Description **Bottom Ash**
Sampling Location NA
Sample Drawn on NA
Sample Collected by NA
Sampling Plan & Procedure NA
Sample Quantity 250g
Sample Condition Good & Received in Packed Condition
Environmental Conditions NA
Equipment used for Sampling NA
Sample Received on 03.12.2025
Analysis Started on 03.12.2025
Analysis Completed on 10.12.2025

Test Results:

The above sample tested as received, and results are as follows:

S. NO	PARAMETERS	METHOD	UNITS	RESULTS
1	Copper as Cu	EPA 3050B – 1996 (Rev -2)/EPA 7210-1986	mg/kg	64.92
2	Lead as Pb	EPA 3050B – 1996 (Rev -2)/EPA 7420 – 1986	mg/kg	126.53
3	Manganese as Mn	EPA 3050B-1996 (Rev-2)/EPA 7460-1986	mg/kg	812.3
4	Zinc as Zn	EPA 3050B-1996 (Rev-2)/EPA 7950-1986	mg/kg	456.7
5	Chromium as Cr	EPA 3050B-1996 (Rev-2)/EPA 7190-1986	mg/kg	89.26
6	Nickel as Ni	EPA 3050B – 1996 (Rev -2)/EPA 7520 – 1986	mg/kg	93.29
7	Cadmium as Cd	EPA 3050B-1996 (Rev-2)/EPA 7130-1986	mg/kg	BLQ(LOQ:2.0)
8	Arsenic as As	EPA 3050B-1996 (Rev-2)/EPA 7061A-1992 (Rev-1)	mg/kg	BLQ(LOQ:0.1)
9	Mercury as Hg	EPA 7471A-2007 (Rev-2)	mg/kg	BLQ(LOQ:0.2)

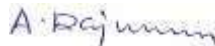
BLQ - Below Limit of Quantification; LOQ - Limit of Quantification.

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd



Verified by



Authorised Signatory

A. RAJ KUMAR
SENIOR MANAGER
(CHEMICAL)

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