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SMAL/IR0-MoEF&CC/HCR/2022-23

Date: 06 .06.2023.

To

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

Dear Sir,

Sub: Submission of EC Half yearly Compliance Report for the period of Oct'2022 to March'2023 Reg.

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

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 EC Half yearly condition wise compliance report for the period of Oct'2022 to March'2023 to your good office.

This is for your kind information and records.

Please acknowledge same.

Yours sincerely,

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

V. Surya Bhaskaram AGM - EHS Authorised Signatory

Encl. Half Yearly Compliance report



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

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

	ecific Conditions	Compliance		
S No	Condition	Compliance		
i	Three-tier Green Belt shall be developed in	SMAL has developed green belt of 33% i.e.,		
	33% of the total project area by August' 2022	93.23 acres as per MoEF&CC		
	with native species all along the periphery of	guidelines.17000 trees were planted in the		
	the project site of adequate width and tree	plant. As advised by the committee, SMAL		
	density shall not be less than 2500 per ha. The	will undertake the planting of additional trees		
	survival rate of the green belt developed shall	to comply with the norm of 2500 trees per		
	be monitored on periodic basis to ensure that	Hectare. The details are given below:		
	damaged plants are replaced with new plants in	Area of Greenbelt:93.23 Acres/37.72 Ha.		
	the subsequent years. Compliance status in this	Tree Density : 2500 trees / Ha. Or 1012 trees/ Acro		
	regard, shall be submitted to the concerned Regional Office of the MoEF&CC.	Width of Greenbelt : 15m all along the periphery of th plant boundary		
	Regional Office of the Moeracc.	Required No. of : 94311 trees Saplings to be planted : :		
		Number of trees already 30000 trees Planted :		
		Plantation will be done phase-wise and the		
		status of the same will be submitted to RO,		
		MoEF & CC.		
ii	Greening and Paving shall be implemented in	Noted for compliance and being followed.		
	the plant area to arrest soil erosion and dust			
	pollution from the exposed soil surface.			
iii	Following additional arrangements to control			
	fugitive dust shall be provided.			
	a. Fog / Mist Sprinklers at all conveyors	Noted. Fog / Mist Sprinklers provided at		
	point and on bulk raw material storage	applicable areas at conveyors points and on		
	area (at the transfer points) like Iron	bulk raw material storage areas (at the transfer		
	Ore, Coal and for Fly Ash and similar	points) like Iron Ore, Coal and for Fly Ash,		
	solid waste storage areas.	and similar solid waste storage areas. For		
		your reference attached in Annexure-1		
	b. Proper covered vehicle shall be used	Noted and Being followed and for your		
	while transport of materials.	reference attached in Annexure-2.		
	c. Wheel washing mechanism shall be	Complied. For your reference attached in		
	provided in entry and exit gates with	Annexure-3.		
	complete recirculation system.			
iv	All internal roads and connecting roads from	Noted and Being followed and for your		
. '	the project site to the main highway shall be	reference attached in Annexure-4 .		
	developed and maintained with suitable			
	Million Axle Standard (MSA) as per the traffic			
	load due to the existing and proposed project.			
V	Performance tests shall be conducted on all	Noted and being followed and for your		
v		e .		
	pollution control systems every year and a	reference attached inAnnexure-5.		



	1			
	report shall be submitted to the Regional Office of the MoEF&CC.			
vi	Particulate matter emission from stacks shall be less than 30 mg/Nm ³ .	synchronized to APPCB & CPCB server respectively. The data is uploading to APPCH server URL: http://aprtpms.ap.gov.in. & CPCB http://rtdms.cpcb.gov.in-status		
vii	Submerged Arc Furnace shall be equipped with the fourth hole fume extraction system.	Noted and the Fume extraction system is provided as guided and for your reference attached in Annexure-6 .		
viii	100% slag generated from the process shall be utilized. Compliance status in this regard shall be submitted to the Regional Office of the MoEF&CC.	Noted and slag being disposed as guided by APPCB. compliance status being submitted to R.O, MoEF & CC.		
ix	PP shall do 3-tier green belt along the perimeter boundary of the project, surrounding coal dumping and raw material yard, besides block plantation within the project area.	Noted and industry started developing green belt as guided. Completion will be done in phased manner and for your reference attached in Annexure-7 .		
x	PP shall improve the Housekeeping of the project premises with best standards.	SMAL continuously strives to maintain housekeeping by using 5S and TPM practices which are internationally followed.		
xi	10 numbers of truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere and the black dust on the nearby Mango orchards of the villagers.	10 numbers of truck-mounted Fog/Mist water cannons will be provided in phase-wise and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere and the black dust on the nearby Mango orchards of the villagers. Phase-1:1Nos, Phase-2:2 Nos, Phase- 3:7Nos		
xii	Mechanical road sweeping shall be done in the surrounding villages also periodically.	Noted for compliance and being followed. Earlier industry is using three manual machines of three numbers which were ineffective. Industry purchased One high capacity jumbo sweeping machine for road sweeping and for your reference attached in Annexure-8.		
xiii	Project proponent shall follow safeguards to control the exposure of silica dust and some formaldehyde exposures arising out during production of mineral fibers. Compliance status in this regard, shall be submitted to concern Regional Office of the MoEF&CC.	Not applicable at this stage as Industry still has not established mineral fiber plant.		



General Conditions

I. Stat	Statutory compliance:					
S No	Condition	Compliance				
	The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., Required to be obtained or standards/conditions to be followed under any	Noted for compliance.				
	other Acts / Rules / Subordinate legislation, etc.,					
TT	as may be applicable to the project.					
	quality monitoring and preservation	C P				
S No	Condition	Compliance				
i	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as two Continuous Ambient Air Quality Station (CAAQS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specifications through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Noted for compliance. SMAL has been provided online stack monitoring system and CAAQM systems for existing plants. The same will be implemented for the proposed project. Periodic Calibration of the same will be carried out as per the condition. OCEMS data is synchronized to APPCB & CPCB servers respectively. The data is uploading to APPCB server URL: http://aprtpms.ap.gov.in. & CPCB http://rtdms.cpcb.gov.in-status				
ii	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Noted and being followed and for your confirmation attached in Annexure-9 .				
iii	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.	Noted for compliance. SMAL has provided Bag house at FAD and ESP at the power plant. Dust extraction systems have been provided at transverse points and dust suppression systems at conveyors. Same systems will be implemented for proposed plants For your confirmation attached in Annexure-10 .				
iv	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	Noted for compliance. Differential pressure system being implemented for the existing plant. Same systems will be implemented for proposed plants.				



v vi vi	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. The project proponent shall ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust	 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. Noted and all the vehicles are covered during transportation of coal and other material and for your reference attached in Annexure-2 		
vii	generation. The project proponent shall provide primary and secondary fume extraction system at all melting furnaces.	Noted and provided primary and secondary fume extraction system at all melting furnaces. Same will be followed during expansion and for your reference attached in Annexure-6.		
viii	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.	Noted and provided in the applicable areas for your reference attached in Annexure-11 .		
III	Water quality monitoring and preservation			
S No	Condition	Compliance		
i	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 (G.S.R 414 (E) dated 30th May 2008; G.S.R 277 (E) dated 31st March 2012 (applicable to IF/EAF) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Complied. Continuous effluent monitoring data is synchronized to APPCB & CPCB servers respectively. The data is uploading to APPCB server URL: http://aprtpms.ap.gov.in. & CPCB http://rtdms.cpcb.gov.in-status		
ii	The project proponent shall monitor regularly groundwater quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories	SMAL has installed Piezometer for your reference attached in Annexure-12. Groundwater is being tested once in a quarter. Accordingly manual monitoring with NABL accredited laboratory M/s. S.V. Enviro Labs and we care under the specified limits.		
iii	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards	Noted for compliance and will be implemented and for your reference attached in Annexure-13 .		
iv	The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R 277 (E) 31st March 2012 (applicable to IF/EAF) as amended from time to	Noted and will be provided after installing rolling mills.		



		or more time in the or the second		
	time.			
V	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.	Noted and provided garland drains at applicable areas and for your reference attached in Annexure-14 .		
vi	Tyre washing facilities shall be provided at the entrance/exit of the plant gates.	Complied. For your reference attached in Annexure-3 .		
IV	Noise monitoring and prevention			
	Noise quality shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.	Complied. Accordingly manual monitoring with NABL accredited laboratory M/s. S.V. Enviro Labs and we care under the specified limits and reports attached in Annexure-9 .		
V	Energy Conservation measures			
	Energy conservation measures may be adopted such as adoption of solar energy and provision of LED lights etc., to minimize the energy consumption.			
VI	Waste management			
	i. Used refractories shall be recycled.	Noted and being followed		
	ii. Kitchen waste shall be composted or converted to biogas for further use.	Noted. Biogas system provided and kitchen waste being composted in the same. Generated bio-gas is being used in the kitchen for cooking image attached in Annexure-15.		
VII	Green Belt			
i	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation. 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.	time-bound action plan will be submitted for the same TCD-30.09.2023 .		



VIII	Dublic bearing and Human bealth issues	
VIII i	Public hearing and Human health issues	Noted and HIRA and DMP will be submitted
1	Emergency preparedness plan based on the Hazard Identification and Risk Assessment	
	(HIRA) and Disaster Management Plan shall be	during the project phase.
	implemented.	
ii	1	Noted and an industrial hypriana survey was
11	The project proponent shall carry out heat stress analysis for the workmen who work in the high-	Noted and an industrial hygiene survey was conducted to assess workplace exposure of
	temperature work zone and provide Personal	workmen. Action was taken as per
	Protection Equipment (PPE) as per the norms of	guidelines.
	the Factory Act.	guidennes.
iii		Noted and being followed Annual medical
111	Occupational health surveillance of the workers	Noted and being followed. Annual medical
	shall be done on a regular basis and records	tests being carried out for the workers and
INZ	maintained.	reports attached in Annexure-16 .
IX ·	Environment Management	
i	The project proponent shall comply with the	Noted for compliance and SMAL will
	provisions contained in this Ministry's OM vide	undertake community development activities
	F.No. 22-65/2017-IA.III dated 30/09/2020. As	in consultation with the village Panchayat
	part of Corporate Environment Responsibility	and the District Administration in phase-
	(CER) activity, company shall adopt	wise.
	Kantakapalli, Katakapalli, Kotturu, Patta	
	Sunkarapalem, Kotha Sunkarapalem, Gollapeta,	
	Chinnaraopalli, Baligattam, Chiinipalem,	
	Sambayyapalem, Appannapalem and	
	Nimmalapalem villages based on the socio-	
	economic survey and undertake community	
	development activities in consultation with the	
	village Panchayat and the District	
••	Administration as committed.	
ii	The company shall have a well-laid down	Noted for compliance.
	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.	This section 1. 1. 1 ACM FUG. 1
iii	A separate Environmental Cell both at the	This condition has complied. AGM-EHS and
	project and company headquarter level, with	senior Officer.
	qualified personnel shall be set up under the	AGM-EHS directly reports to the Head of



	control of a senior Executive, who will directly	the organization.	
X	to the head of the organization. Miscellaneous		
i The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local news papers of the District or State, of which one shall be in the vernacular language within seven days and in addition, this shall also be displayed in the project proponent's website permanently.		Industry made public the environmental clearance granted in two local newspapers of the District of which one is in the vernacular language and for your reference attached in Annexure-17 .	
ii	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Noted. The copies of the environmental clearance are submitted to the Heads of local bodies, Panchayats, and Municipal Bodies in addition to the relevant offices of the Government.	
iii	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Noted and being followed.	
iv	The project proponent shall monitor the criteria pollutants level namely; PM_{10} , SO_2 , 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.	Noted and provided display board at the main gate and attached in Annexure-18 .	
V	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Noted and being followed as per the condition.	
vi	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Noted. Will be followed as per condition and Acknowledgement attached for your reference in Annexure-19 .	
vii	The project proponent shall inform the Regional Office as well as the Ministry, the date of	1	



	financial closure and final approval of the	
	project by the concerned authorities,	
	commencing the land development work and	
	start of production operation by the project.	
viii	The project proponent shall abide by all the	Noted as SMAL will abide by the condition
	commitments and recommendations made in the	as committed.
	EIA/EMP report, commitment made during	
	Public Hearing and also that during their	
	presentation to the Expert Appraisal Committee.	
ix	No further expansion or modifications in the	Noted and will ensure the same.
	plant shall be carried out without prior approval	
	of the Ministry of Environment, Forests and	
	Climate Change (MoEF&CC).	
X	Concealing factual data or submission of	Noted.
	false/fabricated data may result in revocation of	
	this environmental clearance and attract action	
	under the provisions of Environment	
	(Protection) Act, 1986.	
xi	The Ministry may revoke or suspend the	Noted
	clearance, if implementation of any of the above	
	conditions is not satisfactory.	
xii	The Ministry reserves the right to stipulate	Noted and SMAL will implement applicable
	additional conditions if found necessary. The	conditions in time-bound manner during the
	Company in a time bound manner shall	project phase.
	implement these conditions.	
xiii	The Regional Office of this Ministry shall	Noted
	monitor compliance of the stipulated conditions.	
	The project authorities should extend full	
	cooperation to the officer (s) of the Regional	
	Office by furnishing the requisite data /	
	information/monitoring reports.	
xiv	Any appeal against this EC shall lie with the	Noted.
	National Green Tribunal, if preferred, within a	
	period of 30 days as prescribed under Section	
	16 of the National Green Tribunal Act, 2010.	

CSK EATENDITUKE DUKING FT 2022-25					
S. No	CSR Initiative	EXPENDITURE			
1	Education	37,77,837			
2	Sustainable Livelihood	2,30,000			
3	Environmental	21,60,000			
4	Infrastructure Development	76,18,285			
5	Health	24,16,258			
6	Art, Culture and Sports	9,42,727			
7	Disaster Management	13,32,142			
8	Charity & Donation	9,84,000			
	Total 19461249				

CSR EXPENDITURE DURING FY 2022-23



DETAILS OF PRODUCTION AND CONSUMPTION

	Ferro Alloy Division-Raw material Consumption & Production Details							
		Product-Tons						
Month & Year	Mn Ore	RB3 & RB2- Coal	Nut Coke	Quartz	Dolomite	Mill Scale	Ferro Alloys	
Oct-22	17522.80	4910.91	1046.80	1360.43	0	0	6299.06	
Nov-22	18332.48	4412.16	1486.18	1725.04	0	0	6924.12	
Dec-22	20382.41	4754.59	1752.80	2367.57	0	0	7790.04	
Jan-23	24850.505	5615.066	1989.808	3842.158	0	0	10393.74	
Feb-23	23169.201	5876.5	1912.48	2570.59	0	0	9396.92	
Mar-23	24911.025	5600.12	2318.02	2526.243	0	0	10063.62	
Total	202099.15	48261.03	16726.39	23331.02	0	0	80721.78	

Captive Power Plant-Raw Material Consumption and Production Details.

Month & Year	Coal Consumption (MT)	Production Electricity (MWH)	
Oct-22	30314.98	36313.00	
Nov-22	30925.71	37366.00	
Dec-22	34440.03	43746.00	
Jan-23	39104.77	54239.00	
Feb-23	36100.09	49614.00	
Mar-23	39718.94	52007.00	
Total	210604.52	273285.00	

Non Hazardous Waste Generation Details								
Month & Year	Solid Waste from Pollut Equipments / Facility Gas C RABH (Bi Product Tot	Solid Waste from Process (Waste Tons)						
	Si Mn (GCP Dust)	Fe Mn GCP Dust	Si Mn Slag	MnO Slag				
Oct-22	302.23	0	7763.57	0				
Nov-22	301.96	0	8551.04	0				
Dec-22	297.58	0	9118.51	0				
Jan-23	400.70	0	11340.43	0				
Feb-23	318.10	0	10011.42	0				
Mar-23	322.32	0	10839.70	0				
Total	1942.89	0	57624.67	0				



Month & Year	Fly Ash Generation (MT)	Fly Ash Sold (MT)	Bottom Ash Generation (MT)	Bottom Ash Sold (MT)
Oct-22	4131.00	3844.16	121.00	117.33
Nov-22	6554.00	6027.43	204.00	190.27
Dec-22	6637.00	7290.31	135.00	138.15
Jan-23	4960.00	4989.79	119.00	121.06
Feb-23	6210.00	6219.79	110.36	109.51
Mar-23	8588.00	8585.80	129.00	129.39
Total	37080	36957.28	818.36	805.71

Captive Power Plant Solid Waste Generation Details (MT)

	Ferro Alloy Division and Captive Power Plant						
	Process/ Industrial Cooling Water Consumption (in M ³) Details						
Month & Year	Cooling Tower Makeup	Softener Regeneration	Slag & Process Water	Boiler Feed	Domestic		
Oct-22	11576	200	14190	5003	262		
Nov-22	13980	240	11236	2541	282		
Dec-22	14008	280	7387	1640	272		
Jan-23	19356	280	14078	1670	252		
Feb-23	20294	400	14825	1650	275		
Mar-23	19872	360	18029	2050	216		
Total	99086	1760	79745	14554	1559		



ANNEXURE-1 WATER SPRINKLER SYSTEM



Inbuilt water sprinkler system for stacker at coal handling plant

Water sprinkling system for Haulage Road and Green Belt







ANNEXURE-2 MATERIAL TRANSPORTATION COVERED WITH TOURPALIN







ANNEXURE-3 Tyre Washing Facility at Main Gate





ANNEXURE-4 BITUMEN ROAD INSIDE PLANT





ANNEXURE-5 OCEMS CALIBRATION CERTIFICATES

VASTHI INSTRUMENTS PRIVATE LIMITED IT'S ALL ABOUT SAFETY

P.O.No: 4400100156 Order Date: 08.06.2021

Instrument Model No:V_ Air-1000

0.6mg/m3, PM2.5: 0-0.6mg/m3.

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

TEST & CALIBRATION REPORT

DATE OF CALIBRATION: 18.06.2022

NEXT CALIBRATION Due : 17.06.2023

Instrument Type: Air Quality Monitoring System Range: SO2:0-10 PPM, NOx:0-10 PPM, PM10:0-

CUSTOMER: M/s Sarda Metals & Alloys Ltd Vizag Common Purchasing Plant, APPIIC, Industrial Park , Kantaka Palli , Kothavalasa-535240, Vizanagaram ,India

Instrument Location Instruments Serial No Voltage Rating Calibrator used Standard gases Used

: Power plant : VI202100234 : 230V AC, 50Hz : Model: Air -Q-rate :SO2: 5 PPM , NOx: 10PPM.

1. N2-99.9% GAS FED:

Parameter	Concentration value on display	Before Calibration	After Calibration	Difference PPM	% Error
502	000	000	000	000	000
NOX	000	000	000	000	000

2. SO2 -5 PPM GAS FED:

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

ASTHI INSTRUMENTS PRIVATE LIMITED IT'S ALL ABOUT SAFET



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

3. NOX -10 PPM GAS FED:

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

3 .PM-10/2.5 Monitor : 0.6 mg/m3 :

Parameter	Reference Value mg/m3	Gain Value mg/m3	OFF Set Value mg/m3	Calibrated Value mg/m3
PM10	0.5	0.42	1.12	0.6
PM2.5	0.5	0.42	0.268	0.54

Functionality: Tested ok

TESTED BY P. Suttoopa P. Swaroopa)



CHECKED BY	
CODE	
(D.Govindaraju)	



VASTHI INSTRUMENTS PRIVATE LIMITED IT'S ALL ABOUT SAFETY

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

TEST & CALIBRATION REPORT

DATE OF CALIBRATION: 14.08.2022

NEXT CALIBRATION Due : 13.08.2023

CUSTOMER: M/s Sarda Metals & Alloys Ltd P.O.No: 4400101416 Order Date: 14.08.2021 Vizag Common Purchasing Plant Instrument Model No:V_ Air-1000 APPIIC, Industrial Park, Kantaka Palli Instrument Type: Air Quality Monitoring System Kothavalasa-535240, Vizanagaram Range: SO2:0-10 PPM, NOx :0-10 PPM, PM10 : 0-India 0.6mg/m3 , PM2.5 : 0-0.6mg/m3.

Instrument Location Instruments Serial No Voltage Rating Calibrator used Standard gases Used

: Main Gate : VI202100257 : 230V AC, 50Hz : Model: Air -Q-rate :SO2: 5 PPM , NOx: 10PPM.

1. N2-99.9% GAS FED:

Parameter	Concentration value on display	Before Calibration	After Calibration	Difference PPM	Error(%)
SO2	000	000	000	000	00
NOX	000	000	000	000	00

2. SO2 -5 PPM GAS FED:

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

ASTHI INSTRUMENTS PRIVATE LIMITED IT'S ALL ABOUT SAFET



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

3. NOX -10 PPM GAS FED:

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

3 .PM-10/2.5 Monitor : 0.6 mg/m3 :

Parameter	Reference Value mg/m3	Gain Value mg/m3	OFF Set Value mg/m3	Calibrated Value mg/m3
PM10	0.5	0.42	1.12	0.6
PM2.5	0.5	0.42	0.268	0.54

Functionality: Tested ok

TESTED BY

(P.Swaroopa)



CHECKED BY 200 (D.Govindaraju)



VASTHI INSTRUMENTS PRIVATE LIMITED

VE

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

TEST & CALIBRATION REPORT

DATE OF CALIBRATION: 13.08.2022	Next calibration Due : 12.08.2023
CUSTOMER:	P.O.No: 4400101416
M/s Sarda Metals & Alloys Ltd	Order Date: 14.08.2021
Vizag Common Purchasing Plant,	Instrument Model No:V_ Air-1000
APPIIC, Industrial Park , Kantaka Palli , Kothavalasa-535240, Vizanagaram	Instrument Type: Air Quality Monitoring System
,India	Range: SO2:0-10 PPM, NOx:0-10 PPM, PM10:0-
	0.6mg/m3 , PM2.5 : 0-0.6mg/m3.

Instrument Location Instruments Serial No Voltage Rating Calibrator used Standard gases Used : DM Plant : V1202100258 : 230V AC, 50Hz : Model: Air -Q-rate :SO2: 5 PPM , NOx: 10PPM.

1. N2-99.9% GAS FED:

Parameter	Concentration value on display	Before Calibration	After Calibration	Difference PPM	Error(%)
SO2	000	000	000	000	00
NOX	000	000	000	000	00

2. SO2 -5 PPM GAS FED:

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

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3. NOX -10 PPM GAS FED:

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

3 .PM-10/2.5 Monitor : 0.6 mg/m3 :

Parameter	Reference Value mg/m3	Gain Value mg/m3	OFF Set Value mg/m3	Calibrated Value mg/m3
PM10	0.5	0.42 1.1		0.6
PM2.5	0.5	0.42	0.268	0.54

Functionality: Tested ok

TESTED BY

P.Swaroopa)







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

Clibration Date: 22.06.2	022	Next Calibration Due	: 21.06.2023
CUSTOMER: M/s Sarda Metals & Alloys Pvt Ltd Vizag Common Purchasing Plant, APPIIC, Industrial Park, Kantaka Palli ,Kothavalasa-535240, Vizanagaram, India		Po.No: 6000029146 Dt.: 24.06.2021 Instrument.Location: Fad Stac Make: Land ,UK Model:4200	
Instruments Serial No	: C42-13020		
Test Items	Technical Requirements		Test Results
Appearance and Structure	Accessories Complete; Glass Clean; No Scratch on Surface		Passed
Zero Drift	± 2%F.S/24h		1.2%
Span Drift	± 2%F.S/24h		1.1%
Relativity	R≥0.85		1.3
Half width of the confidence interval	Half width of the confidence interval $\leq 10\%$		6%
Half width of the allowed interval	Half width of the allowed interval ≤ 25%		18%
Accuracy	When > 200m	g/m ³ , relative error $\le \pm 15\%$	10%

Testd By

P. Evalopa P. Swaroopa



Checked By

Y.Nandini

VASTHI INSTRUMENTS PRIVATE LIMITED

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

CALIBRATION REPORT

Calibration Date: 22.06.2022

Next Calibration Due: 21.06.2023

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

Instruments Serial No : 183415-14

SI.No	Parameter	Before Calibration	After Calibration	Cal Check
1	Zero(0)	. Opacity =1.5%	Opacity =0.2%	1.3%
2	Span(100)	Opacity = 98.6%	Opacity =100%	1.4%

Checked By

P. Swaroopa P.Swaroopa



Tested By Y. Nandini



VASTHI INSTRUMENTS PRIVATE LIMITED

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

CALIBRATION REPORT

Next calibration Due : 21.06.2023

nstrument Type: Stack Opacity Meter Range :SO2: 0 -2000PPM, NOx:0-	P/P
2	

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

Calibration Gas Range Functional Tests

: CO : 796PPM, SO2:990 PPM, Nox:967PPM, : O.K

1. Nitrogen - 99.99 % Gas Fed

Clibration Date: 22.06.2022

Concentration value on display	Before Calibration	After Calibration		% Error
0000	0000	0000		000
0000	0000	0000		000
0000	0000	0000		000
	value on display 0000 0000	value on display Calibration 0000 0000 0000 0000	value on display Calibration Calibration 0000 0000 0000 0000 0000 0000	value on display Calibration Calibration mg/m³ 0000 0000 0000 0000 0000 0000 0000 0000

2. CO - 796PPM Gas Fed

Concentration value	Before Calibration	After Calibration	Difference mg/m ³	% Error
796	795	796	0001	0.1%
	0000			and the second se
	0000		the second se	000
	value 796	value Calibration 796 795 0000	value Calibration Calibration 796 795 796 0000 0000	value Calibration Calibration Interface mg/m ³ 796 795 796 0001 0000 0000 0000 0000

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

3. SO2-990 PPM Gas Fed

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

4. NOx- 967 PPM Gas Fed

Gases used	Concentration value	Before Calibration	After Calibration	Difference PPM	% Error
NOx	967 PPM	966 PPM	967 PPM	1	0.1%
502		0000	0000	0000	000
CO		0000	0000	0000	000

C O

00

Checked By

p. Swatcopa



Tested By

Y. Nauction Y.Nandini



ANNEXURE-6 FUMES EXTRACTION SYSTEM





ANNEXURE-7 3 TIRE GREENBELT DEVELOPMENT-PLANT INSIDE





ANNEXURE-8 SWEEPING MACHINES



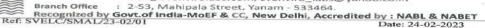




ANNEXURE-9 THIRD PARTY MONITORING REPORTS



SV ENVIRO LABS & CONSULTANTS (Environmental Engineers & Consultants in Pollution Control) Corporate Office: & Laboratory & Laboratory Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam-530012 www.svenvirolabs.com, Ph:0891-275528, Cell: +91 9440338628 info@svenvirolabs.com, svenviro_labs@yahoo.co.in Proseb Office: 2-53 Mahinala Street, Yanam - 533464



NAME AND ADDRESS	:	M/s. SARDA METALS AND ALLOYS LTD., VIZAG COMMON PURCHASING PLANT, APIIC, Industrial Park, Kantakapalli, Kothavalasa-535240, Vizianagaram.
SAMPLE PARTICULARS	4	AMBIENT AIR QUALITY
SOURCE OF COLLECTION		NEAR SECURITY GATE
DATE & TIME OF START	:	17-02-2023 @ 09:30hr
DURATION OF SAMPLING	:	24 Hours
ATMOSPHERE CONDITION	:	Clear Sky
	TESTI	REPORT

S.No	PARAMETER	UNIT	RESULT	NAAQ STANDARDS	METHOD
1.	Particulate Matter(Size<10µ) or PM10	µg/m ³	69.7	100	IS:5182 (P-23) Gravimetric
2.	Particulate Matter(Size<2.5µ) or PM _{2.5}	µg/m ³	28.5	60	IS:5182 (P-24) Gravimetric
3.	Sulphur Dioxide – SO ₂	μg/m ³	15.4	80	IS:5182 (P-2) - Wes and Gacke Method
4.	Oxides of Nitrogen - NOx	µg/m ³	13.2	80	IS:5182(P-6) - Jacob & Hochheiser Method

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

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AMBIENT AIR QUALITY NEAR ADMIN BUILDING

SAMPLE PARTICULARS	
SOURCE OF COLLECTION	
DATE & TIME OF START	
DURATION OF SAMPLING	

ATMOSPHERE CONDITION

A.P.

CHECKED BY

NAME AND ADDRESS

17-02-2023 @ 09:45hr : 121 24 Hours

2 Clear Sky

TEST REPORT

:

S.No	PARAMETER	UNIT	RESULT	NAAQ STANDARDS	METHOD
1.	Particulate Matter(Size<10µ) or PM ₁₀	µg/m³	61.0	100	IS:5182 (P-23) Gravimetric
2.	Particulate Matter(Size<2.5µ) or PM _{2.5}	µg/m³	27.4	60	IS:5182 (P-24) Gravimetric
3.	Sulphur Dioxide – SO ₂	µg/m³	14.3	80	IS:5182 (P-2) - West and Gaeke Method
4.	Oxides of Nitrogen $-NO_X$	µg/m³	12.5	80	IS:5182(P-6) - Jacob & Hochheiser Method



ABET

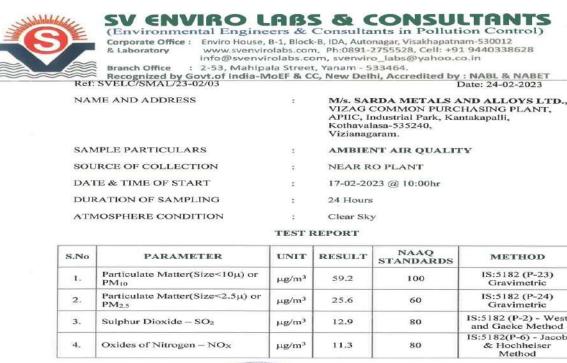
METHOD IS:5182 (P-23)

Gravimetric IS:5182 (P-24)

Gravimetric IS:5182 (P-2) - West and Gaeke Method

IS:5182(P-6) - Jacob

& Hochheiser Method



DA. CHECKED BY

NAME AND ADDRESS



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Date: 24-02-2023 2 M/s. SARDA METALS AND ALLOYS LTD., VIZAG COMMON PURCHASING PLANT, APIIC, Industrial Park, Kantakapalli,

Kothavalasa-535240, Vizianagaram.

SAMPLE PARTICULARS	:	FUGITIVE EMISSIONS	
SOURCE OF COLLECTION	:	NEAR CHP AREA	
DATE & TIME OF START	:	17-02-2023 @ 10:15hr	
DURATION OF SAMPLING	:	08 hours	
ATMOSPHERE CONDITION	:	Clear Sky	

TEST REPORT

S.No	PARAMETER	UNIT	RESULT	METHOD
1.	Total Suspended Particulate Matter – TSPM	mg/m ³	1.54	IS:5182 (P-4)
2.	Respirable Suspended Particulate Matter – RSPM	mg/m ³	0.96	IS:5182 (P-23)

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 & Laboratory
 Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam-530012

 www.svenvirolabs.com, Ph:0891-275528, Cell: +91 9440338628

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NAME AND ADDRESS		z	M/s. SARDA METALS AND ALLOYS LTD., VIZAG COMMON PURCHASING PLANT, APIIC, Industrial Park, Kantakapalli, Kothavalasa-535240, Vizianagaram.
SAMPLE PARTICULARS		:	FUGITIVE EMISSIONS
SOURCE OF COLLECTION		:	NEAR TAPPING EMISSION AREA
DATE & TIME OF START	100	:	18-02-2023 @ 09:45hr
DURATION OF SAMPLING		:	08 hours
ATMOSPHERE CONDITION		:	Clear Sky
		TEST R	EPORT

S.No	PARAMETER	UNIT	RESULT	METHOD
1.	Total Suspended Particulate Matter – TSPM	mg/m ³	1.78	IS:5182 (P-4)
2.	Respirable Suspended Particulate Matter – RSPM	mg/m ³	1.06	IS:5182 (P-23)

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NAME AND ADDRESS

SAMPLE PARTICULARS

SOURCE OF COLLECTION

DURATION OF SAMPLING

ATMOSPHERE CONDITION

DATE & TIME OF START

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

- : FUGITIVE EMISSIONS
 - NEAR FMY AREA
 - 18-02-2023 @ 10:00hr
 - : 08 hours
 - : Clear Sky

TEST REPORT

S.No	PARAMETER	UNIT	RESULT	METHOD
1.	Total Suspended Particulate Matter – TSPM	mg/m ³	0.79	IS:5182 (P-4)
2.	Respirable Suspended Particulate Matter – RSPM	mg/m ³	0.53	IS:5182 (P-23)





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NAME AND ADDRESS	:	M/s. SARDA METALS AND ALLOYS LTD., VIZAG COMMON PURCHASING PLANT, APIIC, Industrial Park, Kantakapalli, Kothavalasa-535240, Vizianagaram.
SAMPLE PARTICULARS	:	FUGITIVE EMISSIONS
SOURCE OF COLLECTION	:	NEAR MRP AREA
DATE & TIME OF START	:	18-02-2023 @ 10:15hr
DURATION OF SAMPLING	:	08 hours
ATMOSPHERE CONDITION	:	Clear Sky

TEST REPORT

S.No	PARAMETER	UNIT	RESULT	METHOD
1.	Total Suspended Particulate Matter – TSPM	mg/m ³	0.85	IS:5182 (P-4)
2.	Respirable Suspended Particulate Matter – RSPM	mg/m ³	0.47	IS:5182 (P-23)

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NAME

NAME AND ADDRESS	:	M/s. SARDA METALS AND ALLOYS LTD., VIZAG COMMON PURCHASING PLANT, APIIC, Industrial Park, Kantakapalli, Kothavalasa-535240, Vizianagaram.
SAMPLE PARTICULARS	:	FUGITIVE EMISSIONS
SOURCE OF COLLECTION	:	NEAR RMHS AREA
DATE & TIME OF START	:	18-02-2023 @ 10:30hr
DURATION OF SAMPLING	1	08 hours
ATMOSPHERE CONDITION	:	Clear Sky

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	0.81	IS:5182 (P-23)

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EMISSION RATE

Duration of Sampling

11

S.No	PARAMETER	UNIT	RESULT	PCB STANDARD
1.	Particulate Matter – PM	mg/Nm ³	23.6	50
2.	Sulphur Dioxide – SO ₂	mg/Nm ³	220	600
3.	Oxides of Nitrogen - NOx	mg/Nm ³	134	300
4.	Mercury – Hg	mg/Nm ³	< 0.0056	

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minutes

60





g/kw-hr

0.27

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Hydrocarbons - HC





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NAME AND ADDRESS

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

WORK ZONE NOISE (CPP)

SAMPLE PARTICULARS

DATE OF COLLECTION

. 17-02-2023

TEST REPORT

S.No	SOURCE OF COLLECTION	Noise levels measured in dB(A)	Method
1.	Near Boiler Area	73.4	
2.	Near TG Building	76.1	
3.	Near CHP Ground Hopper	69.8	
4.	Near CHP Crushes House	71.6	IS:4954 - 1968
5.	Near FD Fan	64.9	Noise Level
6.	Near Coal Mill Area	72.5	Meter
7.	Compressor Area	75.2	ineter
8.	Near ID Fan Area	74.7	
	CPCB STANDARDS	90.0	

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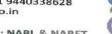
WORK ZONE NOISE (FAD)

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:

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SAMPLE PARTICULARS DATE OF COLLECTION

: 17-02-2023

S.No	SOURCE OF COLLECTION	Noise levels measured in dB(A)	Method
1.	Near Furnace 1	67.8	
2.	Near Furnace 2	68.6	
3.	Metal Breaking Yard	72.9	IS:4954 - 1968
4.	28 Metre Area	74.3	Noise Level
5.	RMHS Area	68.5	Meter
	CPCB STANDARDS	90.0	





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SAMPLE PARTICULARS

NOISE LEVEL 17-02-2023

DATE OF COLLECTION

TEST REPORT

S.No	SOURCE OF COLLECTION	Noise leve	Method	
		DAY	NIGHT	
1.	Near Security Gate	69.4	60.8	IS:4954 – 1968 Noise Level Meter
2.	Near RO Plant	62.1	56.5	
3.	Near Admin Building	58.3	51.9	
	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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NAME AND ADDRESS

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

SAMPLE PARTICULARS	:	EFFLUENT WATER
SOURCE OF COLLECTION	:	FAD - COOLING TOWER
DATE OF COLLECTION	:	17-02-2023

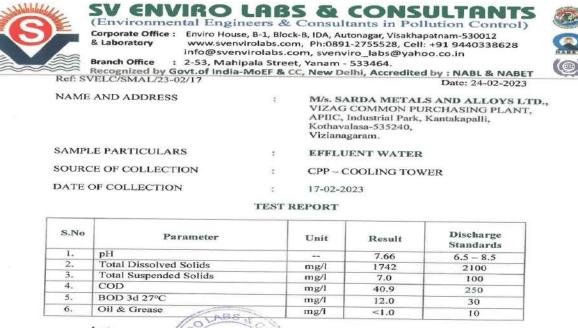
:

S.No	Parameter	Unit	Result	Discharge Standards
1.	pH		8.37	6.5 - 8.5
2.	Total Dissolved Solids	mg/l	1168	2100
3.	Total Suspended Solids	mg/l	4.0	100
4.	COD	mg/l	10.0	250
5.	BOD 3d 27°C	mg/l	3.0	30
6.	Oil & Grease	mg/l	<1.0	10

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

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:

NAME AND ADDRESS

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SAMPLE PARTICULARS	:	EFFLUENT WATER
SOURCE OF COLLECTION	:	GUARD POND
DATE OF COLLECTION	:	17-02-2023

S.No	Parameter	Unit	Result	Discharge Standards
1.	pH		8.08	6.5 - 8.5
2.	Total Dissolved Solids	mg/l	1234	2100
3.	Total Suspended Solids	mg/l	6.0	100
4.	COD	mg/l	30.1	250
5.	BOD 3d 27°C	mg/l	8.0	30
6.	Oil & Grease	mg/l	<1.0	10

CHECKED BY

P.B.S







SV ENVIRO LABS & CONSULTANTS

(Environmental Engineers & Consultants in Pollution Control) Corporate Office : Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam-530012 www.svenvirolabs.com, Ph:0891-2755528, Cell: +91 9440338628 info@svenvirolabs.com, svenviro_labs@yahoo.co.in



: 2-53, Mahipala Street, Yanam - 533464. Recognized by Govt.of India-MoEF & CC, New Delhi, Accredited by : NABL & NABET Ref: SVELC/SMAL/23-02/19 Date: 24-02-2023

NAME AND ADDRESS	:	M/s. SARDA METALS AND ALLOYS LTD., VIZAG COMMON PURCHASING PLANT, APIIC, Industrial Park, Kantakapalli, Kothavalasa-535240, Vizianagaram.
SAMPLE PARTICULARS	:	EFFLUENT WATER
SOURCE OF COLLECTION	2	NEUTRALISATION PIT
DATE OF COLLECTION	:	17-02-2023
	TROT	PEDODY

TEST REPORT

S.No	Parameter	Unit	Result	Discharge Standards
1.	pH		7.74	6.5 - 8.5
2.	Total Dissolved Solids	mg/l	682	2100
3.	Total Suspended Solids	mg/l	3.0	100
4.	COD	mg/l	10.0	250
5.	BOD 3d 27°C	mg/l	3.0	30
6.	Oil & Grease	mg/l	<1.0	10

BS&C

CHECKED BY

SV ENVIRO LABS & CONSULTANTS

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



SV ENVIRO LABS & CONSULTANTS (Environmental Engineers & Consultants in Pollution Control)

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



Recognized by Govt.of India-MoEF & CC, New Delhi, Accredited by : NABL & NABET Ref: SVELC/SMAL/23-02/20 Date: 24-02-2023 Date: 24-02-2023

> Kothavalasa-535240, Vizianagaram.

EFFLUENT WATER

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

:

1

1

NAME AND ADDRESS

SAMPLE PARTICULARS SOURCE OF COLLECTION

DATE OF COLLECTION

: 17-02-2023

S.No	Parameter	Unit	1	2	3	4	Discharge Standards
1.	pH		7.04	7.48	6.75	7.23	6.5 - 8.5
2.	Total Dissolved Solids	mg/l	192	160	468	148	2100
3.	Total Suspended Solids	mg/l	26.0	23.0	37.0	6.0	100
4.	COD	mg/l	30.1	10.9	180	<10	250
5.	BOD 3days 27°C	mg/l	16	4.0	83.0	<3	30
6.	Oil & Grease	mg/l	<1.0	<1.0	1.6	<1.0	10
7.	Fecal Coliforms	MPN/100ml	382	22	694	16	
CHI	AR	administration of the	SV	ENVIRO	LABS	CONSI	ULTANTS





SV ENVIRO LABS & CONSULTANTS

 (Environmental Engineers & Consultants in Pollution Control)

 Corporate Office :
 Enviro House, 8-1, Block-B, IDA, Autonagar, Visakhapatnam-530012

 & Laboratory
 www.svenvirolabs.com, Ph:0891-2755528, Cell: +91 9440338628

 info@svenvirolabs.com, svenviro_labs@yahoo.co.in

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



Recognized by Govt.of India-MoEF & CC, New Delhi, Accredited by : NABL & NABET Ref: SVELC/SMAL/23-02/21 Date: 24-02-2023

NAME AND ADDRESS:M/s. SARDA METALS AND ALLOYS LTD.,
VIZAG COMMON PURCHASING PLANT,
APIIC, Industrial Park, Kantakapalli,
Kothavalasa-535240,
Vizianagaram.SAMPLE PARTICULARS:WATERSOURCE OF COLLECTION:ARIHANT BOREWELL

DATE OF COLLECTION

18-02-2023

TEST REPORT

:

S.No	Parameter	Unit	Result	IS 10500:2012 Drinking Water Specifications
1.	Colour	Hazen	<1.0	5.0
2.	Odour	-	Agreeable	Agreeable
3.	Taste	-	Agreeable	Agreeable
4.	Turbidity	NTU	0.26	1.0
5.	pH	-	6.63	6.5 - 8.5
6.	Total Dissolved Solids	mg/l	294	500
7.	Total Alkalinity as CaCO ₃	mg/l	114	200
8.	Total Hardness as CaCO ₃	mg/l	181	200
9.	Calcium as Ca	mg/l	38.4	75
10.	Magnesium as Mg	mg/l	20.8	30
11.	Chlorides as Cl	mg/l	73.2	250
12.	Fluorides as F	mg/l	< 0.01	1.0
13.	Nitrates as NO3	mg/l	11.6	45
14.	Sulphates as SO ₄	mg/l	25.3	200
15.	Iron as Fe	mg/l	< 0.01	0.3
16.	Free Residual Chlorine	mg/l	<0.1	0.2
17.	Phenolic Compounds as C6H5OH	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	0.03
25.	Barium as Ba	mg/l	<0.01	0.2
26.	Chloramines (as Cl2)	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	0.01

MICE	ROBIOLOGY:			
31.	E. coliforms	CFU/ 100mL	Not Detected	Shall not be detected in 100 ml
32.	Total Coliforms	CFU/ 100mL	Not Detected	Shall not be detected in 100 ml

Note: All the above parameters are tested as per APHA methods, 23rd Edition, 2017 Remarks: As per the above report, all the parameters are within IS 10500:2012 Drinking Water Specifications.

CHECKED BY

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SV ENVIRO LABS & CONSULTANTS

 (Environmental Engineers & Consultants in Pollution Control)

 Corporate Office :
 Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam-530012

 & Laboratory
 www.svenvirolabs.com, Ph:0891-2755528, Cell: +91 9440338628

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



Branch Office : 2-53, Mahipala Street, Yanam - 533464. Recognized by Govt.of India-MoEF & CC, New Delhi, Accredited by : NABL & NABET Ref: SVELC/SMAL/23-02/22 Date: 24-02-2023

NAME AND ADDRESS	:	M/s. SARDA METALS AND ALLOYS LTD., VIZAG COMMON PURCHASING PLANT, APIIC, Industrial Park, Kantakapalli, Kothavalasa-535240, Vizianagaram.
SAMPLE PARTICULARS		WATER
SOURCE OF COLLECTION	:	DM PLANT DRINKING WATER
DATE OF COLLECTION	:	18-02-2023

TEST REPORT

S.No	Parameter	Unit	Result	IS 10500:2012 Drinking Water Specifications
1.	Colour	Hazen	<1.0	5.0
2.	Odour	-	Agreeable	Agreeable
3.	Taste	-	Agreeable	Agreeable
4.	Turbidity	NTU	0.14	1.0
5.	pH	-	6.58	6.5 - 8.5
6.	Total Dissolved Solids	mg/l	120	500
7.	Total Alkalinity as CaCO ₃	mg/l	106	200
8.	Total Hardness as CaCO ₃	mg/l	86.3	200
9.	Calcium as Ca	mg/l	22.4	75
10.	Magnesium as Mg	mg/l	7.38	30
11.	Chlorides as Cl	mg/l	12.7	250
12.	Fluorides as F	mg/l	< 0.01	1.0
13.	Nitrates as NO ₃	mg/l	1.10	45
14.	Sulphates as SO ₄	mg/l	4.56	200
15.	Iron as Fe	mg/l	< 0.01	0.3
16.	Free Residual Chlorine	mg/l	<0.1	0.2
17.	Phenolic Compounds as C6H5OH	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 Cl2)	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.	E. coliforms	CFU/ 100mL	Not Detected	Shall not be detected in 100 ml
32.	Total Coliforms	CFU/ 100mL	Not Detected	Shall not be detected in 100 ml

Note: All the above parameters are tested as per APHA methods, 23rd Edition, 2017 Remarks: As per the above report, all the parameters are within IS 10500:2012 Drinking Water

VERMERANT

Specifications. D CHECKED BY

20 0 SV ENVIRO LABS & CONSULTANTS



ANNEXURE-10 FAD-DUST EXTRACTION SYSTEM



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



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

Covered Conveyor Belt at Captive Power plant



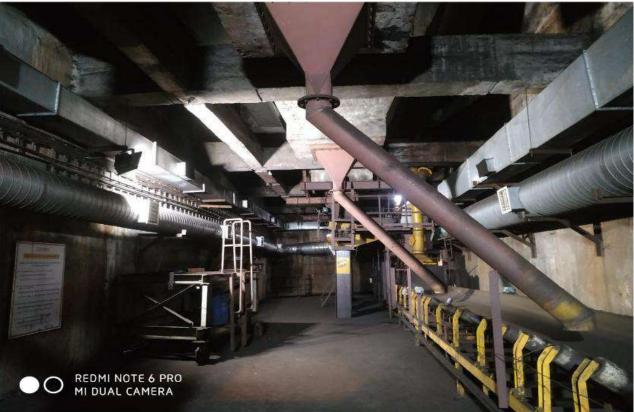
Product is loading in the closed containers







ANNEXURE-11 TUNNEL VENTILATION SYSTEM AT PP GROUND HOPPER





ANNEXURE-12 OPEN BORE WELL-PIEZOMETER





ANNEXURE-13 STP (Waste water treatment facilities) RMHS AREA STP



Automatic Compressor System

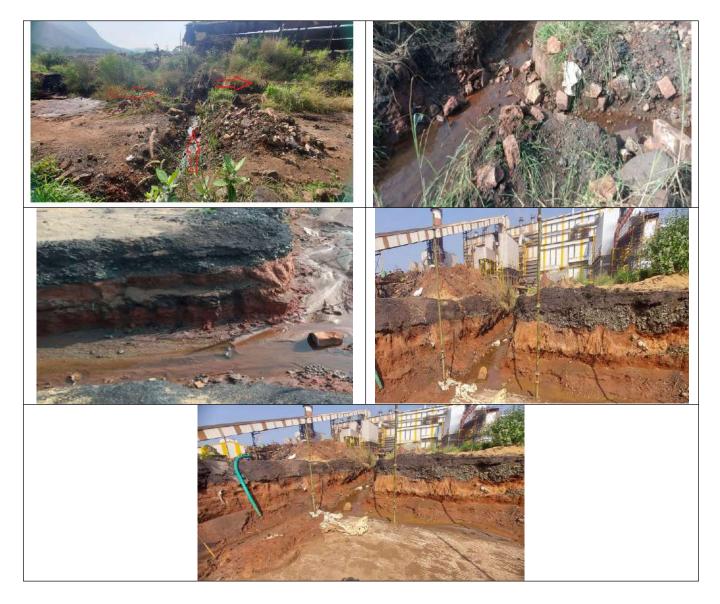


Digital flow meter for outlet water





ANNEXURE-14 GARLAD DRAINS





ANNEXURE-15 BIO GAS PLANT AT MAIN CANTEEN



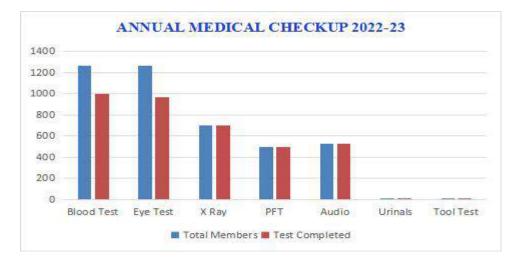


ANNEXURE-16 ANNUAL MEDICAL CHECK UP



PFT Test

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





ANNEXURE-17 EC - NEWS PAPER PUBLICATIONS



 M/s. సర్దా మెటల్స్ & అల్లాయ్స్ లిమిటెడ్ వారు పర్యావరణ, అటవీ మరియు వాతావరణ మంత్రిత్వ శాఖ ద్వారా పర్యావరణ అనుమతులు (అర్డర్ నెం. J-11011/164/2009-IA. II(I)- Dt.: 27.05.2022), పొందినారు. ప్రతిపాదిత విస్తరణ క్లియరెన్స్ లెటర్ కాపీలు ఆంధ్రప్రదేశ్ కాలుష్య నియంత్రణ మండలి వద్ద అందుబాటులో ఉన్నాయి. మరియు MoEFCC వెబ్సేట్లో కూడా చూడవచ్చు (http/parvesh.nic.in)
 M/s సాద్దా మెటల్స్ & ఆలగ్రాయం, కొత్తవలస మండలం, విజయనగరం జిల్లా, అంధ్రప్రదేశ్-535240.

PUBLIC NOTICE

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

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

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

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



Date: 30.05.2022

Ref: SMAL/APPCB/EC/5-22

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

Dear Sir

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

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

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

A copy of Environmental clearance is attached for your reference.

Thanking You

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



Encl: Copy of EC

YND

Factory APIIC Industrial Park, Kantakapali, Kothavalasa Vizianagaram - 535-240, (AP) Iosa, (CI) +91.8922-248203 sgistered Office 125 Mittal Court B wing, Nariman Point, Mumbai - 400021 (MH) Tat +91.22-22884640.811F +022-22828680

D. No. 50-96-4/1, Floor II & III Srigowri Nilayam, Seethammadhara NE Visakhapatnam -530013 CIN : U51420MH2008PLC187689 Tel +91 891 2858200 Fax +91 891 2700864 www.seml.co.in



Date:30.05.2022

Ref: SMAL/APPCB/EC/5-22

To, The District Collector & Magistrate, Vizianagaram.

Dear Sir

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

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

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

A copy of Environmental clearance is attached for your reference.

Thanking You

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

H Surva Bhaskaram.

Surya Bhaskaram, Assistant General Manager- EHS

Encl: Copy of EC

Co ERO ERCO apts 3 0 MAR 2322 Alactic to the P

+91 891 2858200 +91 891 2700864 w semil.co.in



SARDA METALS & ALLOYS LTE

Date: 30.05.2022

D. No. 50-96-4/1. Floor II & III Srigown Nilayam, Seuthammadhara NE Visakhapatnam, 530013 CIN: US1420MH2008PLC187689

Ref: SMAL/APPCB/EC/5-22

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

Dear Sir,

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

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

Fax

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

A copy of Environmental clearance is attached for your reference.

Thanking You

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

12

Surya Bhaskaram, Assistant General Manager- EHS

Encl: Copy of EC

Recci, ved Cony 2C. Co AL 20/01/2010 PANCHAYAT SECRETARY GRAM PANCHARAT KANTAKAPALLI Kothavalasa Mandal, V2H

D. No. 50-96-4/1, Floor II & III Srigowri Nilayam, Seethammadhara NE Visakhapatnam -530013 CIN - U51420MH2008PLC187689 Tel :+91 891 2858200 Fax +91 891 2700864 www.seml.co.in



Date:30.05.2022

Ref: SMAL/APPCB/EC/5-22

To, General Manager, District Industries Centre, Vizianagaram.

Dear Sir

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

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

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Thanking You

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

A

Surya Bhaskaram, Assistant General Manager- EHS

Encl: Copy of EC



D. No. 50-96-4/1, Eloor II & III Srigowri Nilayam, Seethammadhara NE Visakhapatnam -530013 CIN U51420MH2008FLC187689 Tet +91 891 2858200 Fax +91 891 2700864 www.seml.co.in



Date: 30.05.2022

Ref: SMAL/APPCB/EC/5-22

To, The District Revenue Officer, Vizianagaram.

Dear Sir

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

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

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

A copy of Environmental clearance is attached for your reference.

Thanking You

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

Surya Bhaskaram, Assistant General Manager- EHS

Encl: Copy of EC

AND SACA ab AY 2022 30

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.semil.co.in



Date: 30.05.2022

Ref: SMAL/APPCB/EC/5-22

To, The Revenue Divisional Officer, Vizianagaram.

Dear Sir

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

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

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A copy of Environmental clearance is attached for your reference.

Thanking You

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

Surya Bhaskaram, Assistant General Manager- EHS

Encl: Copy of EC





D. No. 50-96-4/1, Floor II & III Srigowri Nilayam, Seethammadhara NE Visakhapatnam -530013 CIN : U51420MH2008PLC187689 Tel: +91 891 2858200 Fax: +91 891 2700864 www.seml.co.in



Date:30.05.2022

Ref: SMAL/APPCB/EC/5-22

To,

The Tahsildar, Tahsildar office, Kothavalasa, Vizianagaram.

Dear Sir

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

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

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A copy of Environmental clearance is attached for your reference.

Thanking You

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

Surya Bhaskaram, Assistant General Manager- EHS

Encl: Copy of EC



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



ANNEXURE-18 Digital Display Board At Main Gate





ANNEXURE-19 FORM-V

D. No. 50-96-4/1, Floor II & III Srigowri Nilayam, Seethammadhara NE Visakhapatnam -530013 CIN : U51420MH2008PLC187689 Tel : +91 891 2858200 Fax : +91 891 2700864 www.seml.co.in



То

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

Sub: Submission of Environment Statement Form-V.

Dear Sir,

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

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

Thank you.

Yours Faithfully For Sarda Metals & Alloys Limited

V. Surya Bhaskaram Assistant General Manager-EHS Authorized Signatory

Copy to: 1. IRO-Vijayawada

2. APSPCB-Vijayawada

Annexure: Environment Statement Form-V.

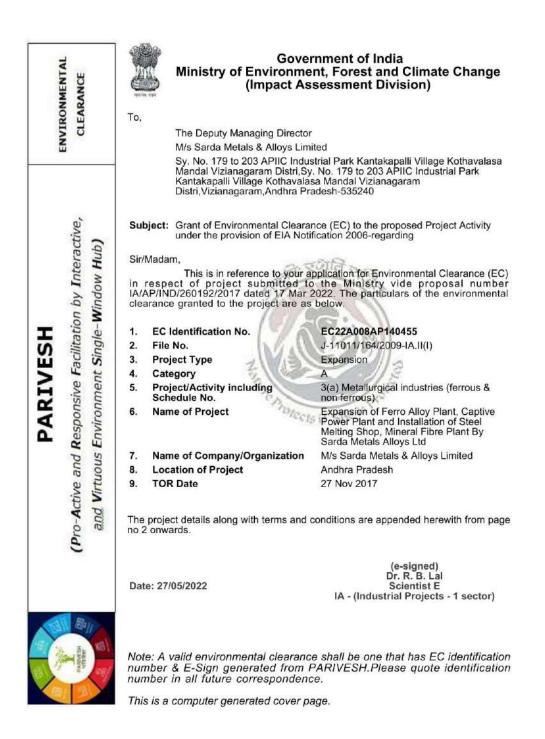


Factory : APIIC, Industrial Park, Kantakapalli, Kothavalasa, Vizianagaram - 535 240, (AP) India. (0) : +91 8922 248203 Registered Office :125 Mittal Court B wing, Nariman Point, Mumbai - 400021 (MH) Tel : +91 22 22884640-81 F : +022-22826680





ENVIRONMENTAL CLEARANCE



EC Identification No. - EC22A008AP140455 File No. - J-11011/164/2009-IA.II(I) Date of Issue EC - 27/05/2022 Page 1 of 14



By Speed Post/Online

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

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

Dated: 27th May, 2022

To,

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

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

Sir,

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

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

S. No.	Faciliti es	EC dated 26/11/2009	EC Amended on 04/05/2010	EC Amended on 02/07/2018	Implementation Status as on 17/03/2021	Production as per CTO
1.	Ferro Alloys *	2x33 MVA (1,50,000 TPA)	No change	3x33 MVA (1,50,000 TPA)	2x33 MVA 1,00,000 Implemented	2x33 MVA (1,00,000 TPA)
2.	Sinter Plant	1x24m ² (1,25,000 TPA)	No change	No change	Not Implemented	
3.	Thermal Power Plant	4x60 (240 MW)	Configuration change as 3x80 (240 MW)	No change	1x80 MW Implemented	1x80 MW
4.	Coke Oven with Stamp	4,00,000 TPA	No change	Drop the facility	Not Implemented	-

3. The details of Implementation status of the existing EC are as under:

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	Charging	б. П.				
5.	Sponge Iron Plant	2x500 TPD (3,00,000 TPA)	No change	No change	Not Implemented	-
6.	Blast Furnace	1x350 m ³ (2,50,000 TPA)	No change	No change	Not Implemented	-
7.	SMS			-5 161		
7a	Inductio n Furnace	5x15 T (2,50,000 TPA)	No change	4x22T (3,50,000 TPA)	Not Implemented	-
7b	ARC Furnace	1x40 T (2,50,000 TPA)	No change	Drop the facility	1777	1920
8.	Rolling Mills	4,50,000 TPA	No change	3,50,000 TPA	Not Implemented	-
9.	Iron Ore Crushing Plant	6,00,000 TPA	No change	Drop the facility		and the second sec
10.	Pellet Plant	6,00,000 TPA	No change	No change	Not Implemented	
11.	Railway Siding	-200	No change	No change	Not Implemented	-
12.	Briquetti ng Plant**	-//	~~~		1,05,000 TPAImplemented	1,05,000 TPA

* As per CFO dated 19/10/2021 PP shall manufacture only Ferro Silicon, Ferro Manganese & Silico Manganese only.

**Briquetting Plant does not require the Environmental Clearance and is now categorized as Green Category as per CPCB guidelines. Hence, CFE dated 10/08/2021 for the Briquetting Plant of capacity 1,05,000 TPA was obtained by PP.

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

S No	Particulars		Deta	ils		
a.	Terms of Reference for undertaking EIA study	22/04/2020				
b.	Period of baseline data collection	December, 20	020 to February	, 2021		
c.	Date of Public Consultation	10/12/2021				
d.	Action plan to address the PH issues	Attached as Annexure 1				
e.	Location of the project	Kantakapalli Village, Kothavalasa Manda Vizianagaram District, Andhra Pradesh.				
f.	Latitude and Longitude of the	SNo L	atitude	Longitude		
	project site	A 17	7°56'47.70"N	83°13'4.60"E		
		B 17	7°56'12.89"N	83°13'31.44"E		
		C 17	7°56'39.92"N	83°12'46.32"E		
		D 1	7°56'31.16"N	83°13'47.88"E		

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S No	Particulars	Details					
g.	Total land	113.7	ha (280.96 acre	s) [Private land	d: 113.7 ha]		
		S No	DETAILS	Existing	Total (After Expansion)		
		01	Process Area	32.69	117.91		
		02	Common utility area	21.43	21.43		
			Green Belt				
		03	a. Developed Greenbelt	93.23	93.23		
		03	b. Proposed Miyawaki Plantation	-	1.12		
		04	Vacant Land	133.61	47.27		
			Total Area	280.96	280.96		
	Existence of habitation & involvement of R&R, if any	project proponent. No additional land is required for the expansion project. Plant Site: NIL Study Area:					
	invertenien er fidig i dity		tation	Distance	Direction		
		Kantakapalli Village		0.46 km	North		
			capalli Village	1.0km	NNE		
			avalasa	0.70 km	NNW		
j.	Elevation of the project site	102 m	above mean sea	level			
k.	Involvement of Forest land if any.	Nil	0				
1.	Water body exists within the project site as well as study area	e <u>Project site</u> : Nil. Study area:					
			r Body	Distance	Direction		
	Z	Pond		0.27 km	West		
			a Gedda	5.55 km	SE		
		the second se	nadri Gedda	3.45 km	SW		
	<u> </u>		(Nala)	7.1 km	NE		
m.	Existence of ESZ / ESA / national park / wildlife Sanctuary / biosphere Reserve / tiger reserve / elephant reserve etc. if any within the study area	However, following Forests are located within study area:					
n.	Project cost	INR 1	242 Crores				
0.	EMP cost	17.194	Cr.				
p.	Employment opportunity	2523					
	Water and Power requirement	Water - 980 m3/day, Power - 54.30 MW					

Unit configuration and capacity:

S. No	Nam of the product	per ÉC 26/11/2 ameno 04/06/2	emented as C dated 009 and ded on 2016 & 018 (A)		expansion 3)	Total (A+B) Capacity	
		Config- uration	Capacity (TPA)	Config- uration		Capacity (TPA)		
1.	Ferro Alloys	2x33 MVA	1,00,000	Existing	2,50,000	5x36 MVA	2,50,000	

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				2x33 MVA upgraded to 2x36 MVA and add new 3x36 MVA			
2.	Captive Power Plant	1x80 MW	80 MW	1x80 MW	80 MW	2x80 MW	160 MW
3.	Steel Melting Shop	225		IF: 4x22 T	3,00,000	IF: 4x22 T	3,00,000
4.	Mineral Fiber Plant- 5 lines	1000		-	Add New unit 1,50,000		1,50,000
5.	Briquetting Plant		1,05,000	-	-	-	1,05,000

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

A. Specific Conditions:

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



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

A. General conditions

I. Statutory compliance:

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

II. Air quality monitoring and preservation

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



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

III. Water quality monitoring and preservation

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

IV. Noise monitoring and prevention

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

V. Energy Conservation measures

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

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VI. Waste management

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

VII. Green Belt

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

VIII. Public hearing and Human health issues

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

IX. Environment Management

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



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

X. Miscellaneous

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

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- xiii. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
- xiv. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
- 8. This issues with the approval of the Competent Authority.

(Dr. R. B. Lal) Scientist 'E'/Additional Director Tel: 011-20819346 Email-rb.lal@nic.in

Encl. as above at Annexure Copy to: -

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

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