



ANDHRA PRADESH POLLUTION CONTROL BOARD
Paryavaran Bhavan, APIIC Colony Road, Gurunanak Colony,
Autonagar, Vijayawada- 520007
Phone. No.0866-2463200, Website : <https://pcb.ap.gov.in>

RED CATEGORY
RENEWAL OF CONSENT TO OPERATE & AUTHORISATION ORDER

Consent Order No : APPCB/VSP/VZN/200/CTO/HO/2013- 28/04/2023

CONSENT is hereby granted for Operation under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21/22 of Air (Prevention & Control of Pollution) Act 1981 and amendments thereof and Authorisation under Rule 6 of the Hazardous & Other Wastes (Management and Transboundary, Movement) Rules, 2016 and the rules and orders made there under (hereinafter referred to as 'the Acts', 'the Rules') to:

M/s. Sarda Metals & Alloys Ltd.,
APIIC, Industrial Area,
Kantakapalli (V), Kothavalasa (M),
Vizianagaram District.
E-mail: nsarda@smal.co.in

(Hereinafter referred to as 'the Applicant') authorizing to operate the industrial plant to discharge the effluents from the outlets and the quantity of emissions per hour from the chimneys as detailed below:

i) Out lets for discharge of effluents:

Outlet No.	Outlet Description	Max Daily Discharge KLD	Point of Disposal
1.	RO Reject and DM Plant Back Wash(Ferro Alloy & Captive Power Plant)	30.0	After treatment in the ETP, the treated effluents shall be recycled back / dust suppression./ used on land for irrigation within the industry's premises.
2.	Boiler blow down	5.0	
3.	Cooling Blow Down	112.0	
4.	Other service water	6.0	
5.	Domestic wastewater	47.3	After treatment in STP, the treated waste water shall be used onland for irrigation, within the industry premises duly meeting the Board's discharge standards (BOD-30 mg/l).
	Total	200.3	

ii) Emissions from chimneys:

Chimney No.	Description of Chimney
1.	Attached to 2x33 MVA Electrical Arc Furnaces
2.	Attached to 1x36 MVA Electrical Arc Furnaces
3.	Attached to 1x 309 TPH Coal fired boiler
4.	Attached to 2x250 KVA D.G. Sets

5.	Attached to 1x1250 KVA D.G. Sets
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iii) HAZARDOUS WASTE AUTHORISATION (FORM – II) [See Rule 6 (2)]:

M/s. Sarda Metals & Alloys Ltd., APIIC, Industrial Area, Kantakapalli (V), Kothavalasa (M), Vizianagaram District, is hereby granted an authorization to operate a facility for collection, reception, storage, treatment, transport and disposal of Hazardous Wastes namely:

S.No	Name of the waste	Stream	Quantity	Disposal Option.
1.	Waste oil	5.1 of Schedule – I	224 Lt/Month	Shall be routed through APEMC to authorized recyclers / re-processors

Non Hazardous

S.No	Name of the waste	Quantity	Disposal Option.
1.	Bag house Dust(Gas cleaning plant dust)	7500 TPA	The industry shall use the bag house dust for making Briquettes for captive consumption.
2.	Dust from De dusting Units like transverse points of coal conveyors and silos	200 TPA	The industry shall reuse the dust from de dusting units as fuel for captive consumption and the fly ash generated shall be sent to nearby brick manufacturing units .
3.	Ash From Power Plant (80MW) bottom and fly ash	90,000 TPA	Shall be sold to nearby cement plants (grinding) / fly ash brick manufacturing units
4.	Ferro Manganese Slag (2x33 MVA) (80 to 85% of Product)	55000 TPA	Shall be reused for production of silico manganese.
5.	Silico Manganese Slag(85 to 90 % of Product)	3,00,000 TPA	Shall be disposed in Land fill/ for making roads with in the premises, after TCLP test.
6.	GCP dust	4500 TPA	Shall be used as a raw material for briquetting plant in making briquettes
7.	Dust laden fumes from IF primary Fume Extraction System	3640 TPA	Shall be reused as feed material for briquetting plant.
8.	Dust laden fumes from IF secondary FES	1680 TPA	Shall be reused as feed material for briquetting plant.
9.	Mill scale from CCM & rolling mill	3000 TPA	Shall be reused as feed material for ferro alloys plant.
10.	Slag from induction furnace	31,880 TPA	Shall be used as road ballast / road fill material

The consent order is valid for the manufacture of the following products with quantities mentioned below only:

S.No.	Product	Quantity
1.	*Ferro Alloys	1,50,000 MTPA (or) 417 MT/ per day (2x33 MVA & 1 X 36 MVA)
2.	Thermal power plant(captive)	1x80 MW

3.	Briquette plant	1,05,000 MTPA
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* Industry shall manufacture only Ferro Silicon, Ferro Manganese & Silico Manganese only.

This order is subject to the provisions of 'the Acts' and the Rules' and orders made thereunder and further subject to the terms and conditions incorporated in the schedule A, B & C enclosed to this order.

This combined order of Consent to Operate & Hazardous Waste Authorisation shall be valid for a period ending with the **31st day of May, 2026.**

B SREEDHAR IAS, MS(BS), O/o MEMBER SECRETARY-APPCB

To

**M/s. Sarda Metals & Alloys Ltd.,
APIIC, Industrial Area,
Kantakapalli (V), Kothavalasa (M),
Vizianagaram District**

Copy to:

1. The JCEE, Zonal Office, **Visakapatnam** for information and necessary action.
2. The EE, Regional Office, **Vizianagaram** for information and necessary action.

SCHEDULE – A

1. Any up-set condition in any industrial plant / activity of the industry, which result in, increased effluent / emission discharge and/ or violation of standards stipulated in this order shall be informed to this Board, under intimation to the Collector and District Magistrate and take immediate action to bring down the discharge / emission below the limits.
2. The industry should carryout analysis of waste water discharges or emissions through chimneys for the parameters mentioned in this order on quarterly basis and submit to the Board.
3. Notwithstanding anything contained in this consent order, the Board hereby reserves the right and powers to review / revoke any and/or all the conditions imposed herein above and to make such variations as deemed fit for the purpose of the Acts by the Board.
4. The industry shall ensure that there shall not be any change in the process technology, source & composition of raw materials and scope of working without prior approval from the Board.
5. The applicant shall submit Environment statement in Form V before 30th September every year as per Rule No.14 of E(P) Rules, 1986 & amendments thereof.
6. The applicant should make applications through Online for renewal of Consent (under Water and Air Acts) and Authorization under HWM Rules at least 120 days before the date of expiry of this order, along with prescribed fee under Water and Air Acts and detailed compliance of CTO conditions for obtaining Consent & HW Authorization of the Board.
7. The industry should immediately submit the revised application for consent to this Board in the event of any change in the raw material used, processes employed, quantity of trade effluents & quantity of emissions. Any change in the management shall be informed to the Board. The person authorized should not let out the premises / lend / sell / transfer their industrial premises without obtaining prior permission of the State Pollution Control Board.
8. Any person aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of Water Act, 1974 or Section 21 of Air Act, 1981 may within thirty

days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules, 1976 and Air Rules 1982, to Appellate authority constituted under Section 28 of the Water(Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air(Prevention and Control of Pollution) Act, 1981.

9. The industry shall be liable to pay Environmental Compensation / Other Environmental Taxes, if any environmental damage caused to the surroundings, as fixed by the Collector & District Magistrate or any other competent authority as per the Rules in vogue.
10. The industry may explore the possibility of tapping the solar energy for their energy requirements.
11. The industry should educate the workers and nearby public of possible accidents and remedial measures.

SCHEDULE – B

The industry shall comply with the following conditions:

1. The industry shall rectify the damaged coal shed and remove the stored openly coal & other raw materials by August 2023.
2. The industry shall ensure ash and sulphur content in fuel (non-coking coal) used in power plant shall be less than 4.06% and 0.85% respectively.
3. The industry shall dispose 1358 T of bag filter dust, 600 T of fly ash & 30 T of bottom ash.
4. The industry shall complete new rain water harvest ponds of capacity 345 ML & 75 KL towards North east & south west directions respectively

WATER POLLUTION:

5. The effluent discharged shall not contain constituents in excess of the tolerance limits mentioned below:

Outlet	Parameter No.	Limiting Standards
1 to 4	pH	6.5 – 8.5
	Total Suspended Solids (TSS at 103 ⁰ – 105 ⁰ C)	100 mg/l
	Total Dissolved Solids	2100 mg/l
	Oil & Grease	10 mg/l
	Chemical Oxygen Demand	250 mg/l
	Biochemical Oxygen Demand (BOD at 27 ⁰ C 3 days)	30 mg/l
5	pH	6.5 – 9.0
	TSS	<100 mg/l
	BOD	30 mg/l
	Fecal coliform (FC) (Most Probable Number per 100 milliliter, MPN/100 ml)	< 1000

6. The source of water is Thatipudi Reservoir and the maximum permitted water consumption shall not exceed the quantities mentioned below:

S.No.	Purpose	Quantity in KLD
1.	Cooling tower makeup	758.0
2.	RO feed / DM feed (Boiler feed)	110.0
3.	Softener regeneration	34.0

4.	Slag generation	225.0
5.	Domestic	62.84
6.	Process (for expansion – 9.0 KLD)	36.7
	Total	1226.54

7. The industry shall maintain separate meters with necessary pipe-line for assessing the quantity of water used for cooling / water spraying and domestic purposes and maintain records for the same.
8. The industry shall install flow meters with totalizer for the purpose of measuring the quantity of treated effluents recycled for various uses.
9. Closed circuit cooling system shall be adopted for cooling system. No wastewater shall be discharged outside the factory premises under any circumstances and zero effluent discharge shall be adopted.
10. The industry shall maintain the flow meter of Cooling tower bleed off for FAD & Boiler feed and the industry shall provide truck tyre washing facility by

AIR POLLUTION:

11. The emissions shall not contain constituents in excess of the prescribed limits mentioned below:

Chimney No.	Parameter	Emission Standards
1&2	Particulate Matter	50 mg/Nm ³
3	Particulate Matter	50 mg/Nm ³
	Sulphur Dioxide (SO ₂)	600 mg/Nm ³
	Oxides of Nitrogen (NO _x)	300 mg/Nm ³
	Mercury (Hg)	0.03 mg/Nm ³

12. The industry shall comply with emission limits for DG sets upto 800 KW as per the Notification G.S.R.520 (E), dated 01.07.2003 under the Environment (Protection) Amendment Rules, 2003 and G.S.R.448(E), dated 12.07.2004 under the Environment (Protection) Second Amendment Rules, 2004. In case of DG sets more than 800 KW shall comply with emission limits as per the Notification G.S.R.489 (E), dated 09.07.2002 at serial no.96, under the Environment (Protection) Act, 1986.
13. The industry shall comply with ambient air quality standards of PM10 (Particulate Matter size less than 10mm) - 100 mg/ m³; PM2.5 (Particulate Matter size less than 2.5 mm) - 60 mg/ m³; SO₂ - 80 mg/ m³; NO_x - 80 mg/m³, outside the factory premises at the periphery of the industry.

Standards for other parameters as mentioned in the National Ambient Air Quality Standards CPCB Notification No.B-29016/20/90/PCI-I, dated 18.11.2009 shall be complied. Following standards prescribed for noise shall be complied.

Noise Levels: Day time - (6 AM to 10 PM) - 75 dB (A)

Night time - (10 PM to 6 AM) - 70 dB (A).

14. The industry shall always maintain 25% of additional bags as spare in the bag house to meet the emergency requirements.
15. The industry shall always place hood over the furnaces to extract the emissions from the furnace, except during charging of raw materials into the furnace.
16. The industry shall maintain interlocking system between APC equipment and fuel (electricity) feeding system, so that the electricity supply to furnaces would stop automatically in case the APC fails or not effective to control fugitive emissions.
17. All the raw materials shall be stored in closed sheds and adequate dust containment / suppression measures shall be maintained to control fugitive emissions. The industry

- shall not cause any air pollution / dust nuisance in the surroundings.
- 18.The industry under no circumstances shall bypass the emissions from stacks.
 - 19.The industry shall operate the Air Pollution Control Equipments regularly and maintain the log registers.
 - 20.All the conveyors shall be covered with G.I. Sheets to prevent fugitive emissions.
 - 21.Secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Board and regularly monitored. Guidelines / Code of Practice issued by the CPCB shall be followed.
 - 22.The industry shall install dust extraction system at dusty material handling areas, stock piles transfer and other vulnerable dusty arrears to control dust emissions.
 - 23.The industry shall provide dust suppression system at all the discharge and feed points.
 - 24.The industry shall maintain online stack monitoring system to all stacks. Calibration of CAAQM system shall be carried out periodically and informed to Board Office.
 - 25.The industry shall start consumption of accumulated the bag filter dust immediately and dispose the bag filter dust completely.

GENERAL:

- 26.The industry shall not manufacture new products other than the mentioned in CTO order and not increase the capacity beyond the permitted capacity mentioned in this order.
- 27.The industry shall dispose Ferro Alloy slag for land filling inside the plant premises or used as building material only after pasting through Toxic Chemical Leachability Potential (TCLP) test.
- 28.The industry shall ensure proper solid waste management plan to dispose the solid waste generated.
- 29.The industry shall maintain good house-keeping within the plant premises.
- 30.The industry shall provide data logger enabled damper to the natural draft chimneys connected to the furnaces to record the bypassing timings and duration or permanently close the damper.
- 31.The industry shall provide slag granulators at each furnace.
- 32.All the internal roads shall be concerted / asphalted to control fugitive emissions.
- 33.The industry shall maintain the following records and the same shall be made available to the Board Officials during the inspection.
 - a. Daily production details, RG-I records and Central Excise Returns.
 - b. Quantity of Effluents generated, treated and recycled.
 - c. Log Books for pollution control systems.
 - d. Daily solid waste generated and disposed.
- 34.The industry shall maintain green belt with native species atleast in an area of 33 % of total area. Sampling shall be planted along the boundary and in vacant places during the monsoon season.
- 35.The industry shall not halt the material transport vehicles in front of the main gate adjacent to the Vizianagaram-Kothavalasa main road and maintain green belt in the halting area.
- 36.The industry shall comply with the conditions stipulated in the EC orders dt.26.11.2009, dt.02.07.2018 & 27.05.2022 issued by MoEF&CC, GoI. The industry shall obtain necessary amendments from MoEF&CC / Board if any changes in the products / capacities.
- 37.The industry shall maintain valid PLI policy which includes Environmental Relief Fund (ERF) and submit copy to RO, Vizianagaram on yearly base.

38. The industry shall install digital display boards at publicly visible places at the main gate indicating the products manufactured Vs permitted quantities, Treated effluent concentrations Vs discharge standards, Stack emission & AAQ concentrations Vs standards, hazardous waste generation, disposed, stock Vs permitted quantities and validity of CTO; and exhibit the CTO order at a prominent place in the factory premises, as per Hon'ble Supreme Court order.
39. The industry shall submit Half yearly compliance reports to all the stipulated conditions in Environmental Clearance (EC), Consent to Establishment (CTE) and Consent to Operation (CTO) through website i.e., <https://pcb.ap.gov.in> by 1st of January and 1st July of every year. The first half yearly compliance reports shall be furnished by the industry and second half yearly compliance reports shall be the audited through MoEF&CC recognized and National Accreditation Board for Laboratory Testing (NABL) accredited third party.
40. Any other directions / circulars / notices issued by CPCB, MoEF&CC and APPCB shall be followed from time to time.
41. The conditions are stipulated without prejudice to the rights and contentions of this Board in any Hon'ble Court of Law.

Special conditions:

42. The industry shall submit a copy of the NOC issued by the Andhra Pradesh State Disaster Response and Fire Service Dept., (APSDRFSD) at concerned Regional Office, APPCB.
43. The industry shall prepare a safety report and carry out an independent safety audit report of the respective industrial activities including chemical storages / isolated storages by an expert not associated with such industrial activity as required under Rule 10 of MSIHC Rules, 1989 and get it approved by the Factories Dept., and submit the compliance along with copy of the safety report, safety audit report and safety certificate at concerned Regional Office, APPCB.
44. The industry shall extend training to the working personnel for the prevention of accidents and necessary antidotes to ensure safety, as per the MSIHC Rules, 1989.
45. The industry shall carryout calibration of safety equipment and leak detection systems at regular intervals and shall certify the same with the Factories Department. That certified copy shall be submitted to the APPCB, Regional Office.
46. The industry shall install fluorescent Wind Vane at the highest point in the industry premises.
47. The industry shall submit Risk analysis and risk assessment covering worst scenario clearly describing impact within the industry premises and outside the industry premises and emergency response system.
48. The industry shall submit the copy of the safety audit report and On-Site / Off Site Emergency Plans as applicable after being certified by the Factories Department to the APPCB, Regional Office from time to time, if the storage quantity of hazardous chemicals is equal to or, in excess of the threshold quantities specified in schedule 2 & 3 of MSIHC Rules, 1989.

SCHEDULE - C

[see rule 6(2)]

**[CONDITIONS OF AUTHORISATION FOR OCCUPIER OR OPERATOR
HANDLING HAZARDOUS WASTES]**

1. The authorised person shall comply with the provisions of the Environment

(Protection) Act, 1986, and the rules made there under.

2. The authorisation shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.
3. The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.
4. Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.
5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;
6. The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on “Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty”.
7. It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility.
8. An application for the renewal of an authorisation shall be made as laid down under these Rules.
9. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.

Specific Conditions:

10. Annual return shall be filed by June 30th for the period ensuring 31st March of the year.
11. The industry shall store Used / Waste Oil and Used Lead Acid Batteries in a secured way in their premises till its disposal to the manufacturers / dealers on buyback basis.
12. The industry shall comply with the provisions of HWM Rules, 2016.
13. The industry shall maintain 7 copy manifest system for transportation of waste generated and a copy shall be submitted to concerned Regional Office of APPCB. The driver who transports Hazardous Waste should be well acquainted about the procedure to be followed in case of an emergency during transit. The transporter should carry a Transport Emergency (TREM) Card.
14. The industry shall maintain proper records for Hazardous and Other Wastes stated in Authorisation in Form-3 i.e., quantity of Incinerable waste, land disposal waste, recyclable waste etc., and file annual returns in Form-4 as per Rule 20 (2) of the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.

B SREEDHAR IAS, MS(BS), O/o MEMBER SECRETARY-APPCB

To

**M/s. Sarda Metals & Alloys Ltd.,
APIIC, Industrial Area, Kantakapalli (V), Kothavalasa (M),
Vizianagaram District**