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Date: 06.07.2022

Ref: SMAL/EC/MoEF-HCR-1/IRO/2022-23

To,
The Joint Director (S),
Ministry of Environment, Forests and Climate Change,
Government of India,
Integrated Regional Office, Green House,
Gopala Reddy Road, Vijayawada-520010
Andhra Pradesh.

Dear Sir,

Sub: Submission of Half-Yearly Compliance report for the period of October'2021-March'2022

Ref: EC No:F.No.J-11011/164/2009-IIA(I) dated on 26.11.2009(GC-1

With respect to the above subject M/s Sarda Metals & Alloys Limited would like to submit Half-Yearly compliance report for the period of October'2021 to March'2022.

We request you to kindly acknowledge the same.

Thanking You

Yours Sincerely, FonM/s. Sarda Metals & Alloys Ltd,

Surya Bhaskar Assistant General Manager- EHS Authorised Signatory

Encl: Half-Yearly compliance report

ENVIRONMENTAL CLEARANCE HALF-YEARLY COMPLIANCE REPORT

For the period of October'2021 to March'2022

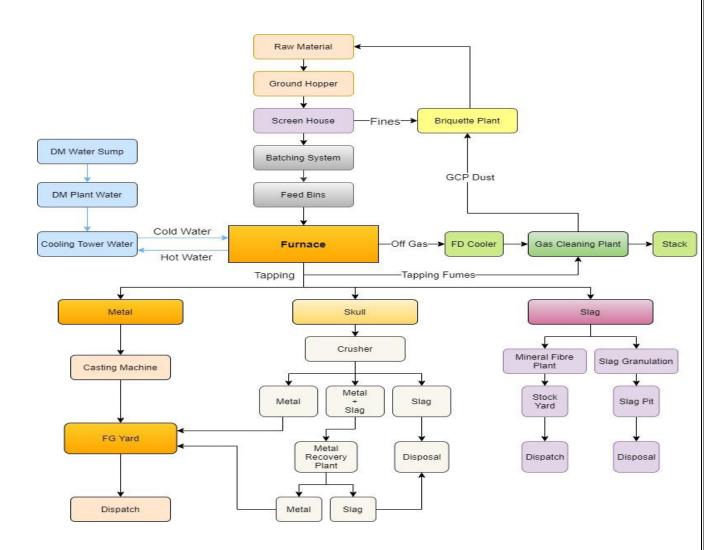


M/s. SARDA METALS & ALLOYS Ltd.

Kantakapalli vill, Kothavalasa M, Vizianagaram Dist, Andrapradesh.

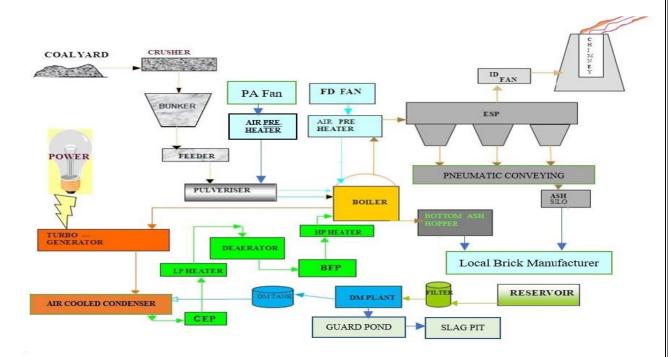


Ferro Alloy Plant





Captive Power Plant





EC No: F.No.j-11011/164/2009-IA II (I) Dated 26-11-2009

S No	SPECIFIC CONDITIONS	Compliance
1	Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan shall be submitted. On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks and sufficient air pollution control devices viz. Electro Static Precipitator (ESP), gas cleaning plant, multi-cyclone, bag filter, DEduster etc. shall be provided to keep the emission levels below 100 mg/Nm3. At no time, the emission level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit. Analysis reports shall be submitted to the Ministry's Regional Office at Bangalore, CPCB and APPCB	To minimize the RSPM level in the ambient air quality in the plant we have adopted one 5KL capacity mobile water tanker for haulage road dust suppression and accordingly water sprinkling system in the key areas. In addition to that manual mechanical sweeping for haul road cleaning is adopted for haulage road dust suppression. Green belt of broad leafed; dust tolerant and pollution resistant native species have been developed adjacent to the haul roads for fugitive emissions. 3 No's of Continuous Ambient Air Quality Monitoring stations are adopted in Up wind, down wind and cross wind direction to monitor the ambient air quality in the industry premises. All the stacks are connected to Continuous Emission Monitoring system and the effective air pollution control devices are connected .2 No's of RBAH are connected to Furnace -1 & 2 in Ferro Alloy Plant. 1 No's of Electro Static Precipitator is attached to Boiler Stack of Captive Power Plant the emission are below the mentioned norms. Interlocking system is adopted if any change in the raw material feed in excess all the pollution control equipments got tripped and leads to process equipments trip.
2	Hot gases from DRI kiln shall be passed through Dust Settling Chamber (DSC) to remove coarse solids and After Burning Chamber (ABC) to burn CO completely and used in waste heat recovery boiler (WHRB). The gas then shall be cleaned in ESP before leaving out into the atmosphere through ID fan and stack. Electro Static Precipitator (ESP) shall be provided to DRI plant, WHRB and ABC boilers to control air emissions within 100 mg/Nm3.	The industry has not established DRI Kiln .Hence this is condition is not applicable
3	Electro Static Precipitator (ESP) to Sinter plant; ESP/multi-cyclone bag filter, DE-duster to pellet plant; ESP and bag filter to power plant and DRI plant shall be provided to control air emissions within 100 mg/Nm3. Bag filter and DE-duster to coke oven plant; dust extraction system with bag filters to blast furnace stock house, Ferro alloys plant	The industry has not established Sinter plant& DRI plant, Blast furnace & Coke oven plants. To control the emissions 2No's RABH Reverse Air Bag Houses are provided at Ferro Alloy plant. For 1*80MW capacity Captive Power Plant One Number ESP is provided to control the air emissions. Stack height for Ferro Alloy Plant & Captive



	and ladle furnace; gas cleaning plant and bag filter to blast furnace; fume extraction system with cyclone to Induction furnace and heat remunerator shall be provided to rolling mill. The flue gas from rolling mill shall be discharged into the atmosphere through stacks of adequate height. Stacks of adequate height shall also be provided to all the concerned plants for effective dispersion of emissions into the atmosphere.	Power Plant designed according to the air dispersion model with respect to the pollution load and it is submitted to the board at the time of EIA, EC process. The height of the Ferro Alloy Plant Stack is 65 mts (Stack attached to RABH) and Captive Power Plant is 120 mts (stack attached to ESP).
4	Dry coke quenching method shall be adopted in the proposed coke oven plant as per the commitment submitted	The industry has not established Dry coke plant. Hence this condition is not applicable.
5	All the standards prescribed for the coke oven plants vide notification no. GSR 46 (E) dated 3rd February, 2006 shall be followed as per the latest guidelines. Proper and full utilization of coke oven gases in power plant using waste heat recovery steam generators shall be ensured and no flue gases shall be discharged into the air	The industry has not established Dry coke plant. Hence this condition is not applicable.
6	Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines / Code of Practice issued by the CPCB shall be followed. The emission standards issued by the Ministry in May, 2008 for the sponge plants shall be followed	The industry has not established sponge iron plant. To control the fugitive emission, raw materials are stored in the closed sheds and covered with tarpaulin coverings. Water sprinkling system is provided in crushers and conveyor belts to arrest the fugitive emissions. The raw materials are transported in the closed conveyors provided with dust extraction system with auxiliary bag filters. One 5KL capacity mobile water tanker is adopted for haul road dust suppression and green belt is developed all the haul roads and some pockets in the industry.
7	Vehicular pollution due to transportation of raw material and finished product shall be controlled. Proper arrangements shall also be made to control dust emissions during loading and unloading of the raw material and finished product	The raw materials are covered with tarpaulin coverings and finished product is transported in the Closed containers. High pressure water sprinkling water system and dry fog system is adopted in the crusher areas. Stacker reclaimer with inbuilt sprinkler system provided inside coal yard. The raw material from the yards is transported through the closed conveyor and auxiliary bag filters are arranged at each conveyor point. The photos are annexed
8	In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Dust suppression system with spray nozzles shall be provided to raw material handling area and material	Noted and being followed.



	transfer points. Cyclones, bag filters, venturi scrubber shall be provided to transfer points to control fugitive emissions. Fume extraction and dry DE-dusting system with bag filters shall be provided at the screening stations of ore, coke and other raw material handling areas to control fugitive emissions. Dust suppression system shall be provided in unloading areas. All internal roads shall be asphalted to prevent the fugitive dust emissions. Further, specific measures like water sprinkling around the stockpiles shall be done to control fugitive emissions	
9	Total water requirement from Thatipudi reservoir shall not exceed 396 m³/hr. No ground water shall be used. Air cooled condenser shall be provided to reduce the water consumption. Acidic and Alkaline effluent from DM water plant shall be neutralized and reused in the plant through ash pond. All the effluent shall be treated and recycled in the re-circulating system or used for ash handling, dust suppression and green belt development. All the wastewater from process and domestic sources shall be treated and recycled and reused. No wastewater shall be discharged outside the premises and Zero effluent discharge shall be ensured	Water required from Thatipudi reservoir is being maintained within the stipulated limit of less than 396 m3 /hr. No Ground water is being used for process cooling purpose. Provided Air cooled condenser at captive power plant neutralizing pit for Boiler blow down water and DM plant back wash and softener regeneration water for zero effluent discharge. Effluent water and treated domestic waste water being used for dust suppression & green belt development. The waste water is totally recycled within the plant & Zero liquid discharge is attained.
10	Prior permission for the drawl of 396 m3/hr water from Thatipudi reservoir from the concerned department shall be obtained and a copy of the permission letter shall be submitted to the Ministry and its Regional Office at Bangalore	At present, permission for supply of 62.5m3/hr (1500 KL/day) is obtained from the Greater Visakhapatnam Municipal Corporation for existing Captive Power Plant and Ferro Alloys Plant.
11	The water consumption shall not exceed 16 m3/Ton of Steel as per prescribed standard	The industry has not established steel plant. Hence this condition is not applicable.
12	Ground water monitoring around the solid waste disposal site / secured landfill (SLF) shall be carried out regularly and report submitted to the Ministry's Regional Office at Bangalore, CPCB and APPCB	Noted and being followed.
13	No coal fines shall be imported as proposed. DRI Fines, coke breeze, Sinter dust, GCP dust, blast furnace dust, SMS dust, scale, iron ore fines shall be used in Sinter plant. Scrap from rolling mill shall be used as raw material in SMS. Char/Dolochar shall be used in power plant / brick manufacturing	Noted for compliance this condition is not applicable as the industry has not established sinter plant and steel melting shop. The GCP dust generated is used as a feed raw material in making mineral briquette in briquette plant. The Oil generated is used waste oil and it is



	plants. Manganese slag from Ferro alloy plant shall be used as raw material for Silico-Manganese production. All the other solid wastes including broken refractory mass shall be properly disposed off in environment-friendly manner. Oily waste shall be provided to authorized recyclers/re	disposed to the authorised recycler authorised by APPCB. The refractory is consumed in furnace areas.
14	All type of slag shall be used for road making only after passing through Toxic Chemical Leach-ability Potential (TCLP) test. Otherwise, toxic waste shall be recovered from the slag and output waste shall be disposed in secured landfill as per CPCB guidelines. Spent oil shall be sold to APPCB authorized recyclers	Noted and being followed.
15	Proper handling, storage, utilization and disposal of all the solid waste shall be ensured and regular report regarding toxic metal content in the waste material and its composition, end use of solid/hazardous waste shall be submitted to the Ministry's Regional Office at Bangalore, APPCB and CPCB	Noted and being followed.
16	A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal	Noted and being followed.
17	Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 and subsequent amendment in 2003. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding shall be submitted to the Ministry's Regional Office at Bangalore	Fly ash generated is disposed to the brick manufacturing industries as feed raw material in making bricks.
18	As proposed, green belt shall be developed in 92.72 acres (33 %) out of total 280.96 acres in and around the plant as per the CPCB guidelines in consultation with DFO	Noted and being followed.
19	Proper rain water harvesting measures shall be adopted to make use of water within the plant premises for various activities including dust suppression and green belt development	Noted and being followed.
20	All the environment management measures given in the EIA/EMP shall be implemented and complied with	The industry is bound to the mentioned condition and complying all the conditions in given order and environment safeguards recommended in the EIA/EMP report
21	All the recommendations made in the	The industry has not established steel plant and



	Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Sector including Coke Oven Plants	coke oven plants. Hence this condition is not applicable
22	shall be implemented Permission and recommendations of the State Forest Department regarding impact of proposed plant on Adanapalem RF shall be obtained regarding likely impact of the proposed steel plant on the surrounding reserve forest and recommendations, if any, shall be implemented	As per the Study report made by the Divisional Forest Officer, Vizianagaram & Principal Chief Conservator of Forests; it is concluded that there will be no impact on the nearby Forest blocks due the proposed SMAL Project.
24	The company shall provide housing for construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project	Noted for compliance .The industry has established 2-10 KLD Capacity of Sewage Treatment Plant for domestic waste water treatment. One at RMHS & the other near to Furnace toilets area. The treated waste water after treatment is used for On land irrigation for green belt development in the plant. Good housekeeping is maintained and toilet facility is also provided for male and female. Drinking water facility is also provided at required location and one bed occupational health care centre is established at the project site for health checkup for the employee as well.
В	GENERAL CONDITIONS	
1	The project authorities shall strictly adhere to the stipulations made by the Andhra Pradesh Pollution Control Board (APPCB)	The industry is bound the mentioned conditions issued by the Board
2	At no time, the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved	In such events the industry will isolate the bag filters and do the maintenance activity and change the bag filters and take the system to normalcy condition and the same has been intimated to the board through E -mail.
3	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	The industry is bound to mentioned condition and shall intimate to the Board for prior approval and act accordingly with board directions. At present the industry has not done any modifications.
4	The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19th May, 1993 and standards prescribed from	This condition is complied by providing the Online Continuous Emission monitoring system for Ferro Alloy Division RABH Stack Parameter - PM (Particulate Matter) and Captive Power Plant



	THE APPENDING	C DIA (EGD.: 11.1) O.D 111
	time to time. The APPCB may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time, the emission level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit	for PM (ESP is provided) & Remote calibration system facility to SO2,NOX parameter and the data is synchronized to APPCB &CPCB servers respectively. The APPCB URL: http://aprtpms.ap.gov.in/#/login CPCBURL: http://cpcbrtdms.nic.in Accordingly manual monitoring is carried out once in a month with NABL accredited laboratory M/s. S.V. Enviro Labs and we care under the specified limits. In case of excess raw material the interlocking system will act. Third party Reports attached in Annexure-1.
5	The project authorities shall strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October, 1994 and January, 2000. Authorization from the APPCB shall be obtained for collection, treatment, storage, and disposal of hazardous wastes	This condition is not applicable to us. The waste generated is Used waste oil Schedule-1 of 5.1 clause and waste grease of clause 5.2 of Hazardous & Other waste (Management & Trans boundary Movement) Rules, 2016 and its amendments.
6	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management and Handling) Rules, 2003. Authorization from the A. P. Pollution Control Board must be obtained for collection / treatment / storage / disposal of hazardous wastes	The waste oil & waste grease generated is collected and stored in closed iron barrels and kept in an isolated place of oil storage shed provided with collection pit. This waste oil is disposed to the authorised recycler authorised by APPCB. We are following Hazardous Wastes (Management and Handling) Rules, 2003 & its amendment rules the Hazardous & Other waste (Management & Trans boundary Movement) Rules, 2016 etc
7	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	This condition is complied .The monitoring is carried out by NABL accredited laboratory M/s. S.V. Enviro Labs and we are under the specified limits.
8	The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table	Noted and being followed.
9	Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act	The occupational health surveillance checkup of the workers and employee are carried out once in a year and the records are maintained. Reference attached in Annexure-2 .
10	A separate Environmental Management Cell equipped with full-fledged laboratory	Noted for compliance. The Organo gram is attached as annexure-3



	facilities shall be set up to carry out the	
	environmental management and monitoring	
	functions	
11	As proposed, Rs. 100.00 Crore and Rs. 5.00	Noted and being followed.
	Crore shall be earmarked towards capital	
	cost and recurring cost/annum for	
	environment pollution control measures	
	shall be judiciously used to implement the	
	conditions stipulated by the Ministry of	
	Environment and Forests as well as the State	
	Government. A time bound implementation	
	schedule shall be submitted to the Ministry	
	and its Regional Office at Bangalore to	
	implement all the conditions stipulated	
	herein. The funds so provided shall not be	
	diverted for any other purpose	
12	A copy of clearance letter shall be sent by	This condition is compiled at the time of EC is
	the proponent to concerned Panchayat, Zilla	granted to the industry.
	Parishad / Municipal Corporation, Urban	
	Local Body and the local NGO, if any, from	
	whom suggestions / representations, if any,	
	were received while processing the	
	proposal. The clearance letter shall also be	
	put on the web site of the company by the	
	proponent	
13	The project proponent shall upload the	The industry has established one Digital Display
	status of compliance of the stipulated	Board at the main gate entrance, to display the
	environment clearance conditions, including	Emission and Effluent data for easy access to
	results of monitored data on their website	Public domain.
	and shall update the same periodically. It	All the critical pollutants parameters are well
	shall simultaneously be sent to the Regional	within the stipulated norms and all the process
	Office of the MOEF at Bangalore, the	stacks and effluent are connected online to APPCB
	respective Zonal Office of CPCB and the	& CPCB server directly without any intervention.
	APPCB. The criteria pollutant levels	APPCB <u>URL:http://aprtpms.ap.gov.in</u>
	namely; SPM, RSPM, SO2, NOx (ambient	CPCB URL http://cpcbrtdms.nic.in
	levels as well as stack emissions) or critical	
	sectoral parameters, indicated for the	
	projects shall be monitored and displayed at	
	a convenient location near the main gate of	
14	the company in the public domain The project propopert shall also submit six	Noted for compliance this condition is complied
14	The project proponent shall also submit six monthly reports on the status of the	the condition wise compliance report is uploaded
	compliance of the stipulated environmental	in the company's website www.seml.co.in
	conditions including results of monitored	APPCB https://pcb.ap.gov.in,and
	data (both in hard copies as well as by e-	MOEFCC website
	mail) to the Regional Office of MOEF, the	
	respective Zonal Office of CPCB and the	http://parivesh.nic.in/accordingly as per the recent circular amendments issued by the Board.
	APPCB. The Regional Office of this	eneural amendments issued by the board.
	<u> </u>	
	Ministry at Bangalore / CPCB / APPCB	



15		
15	shall monitor the stipulated conditions	
	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the	The Last Environment Statement is submitted or September-2021.
	project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986,	
	as amended subsequently, shall also be put on the website of the company along with	
	the status of compliance of environmental conditions and shall also be sent to the	
	respective Regional Offices of the MOEF by e-mail	
16	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and	This condition is complied and published in the two local newspapers that are widely circulated in the region one in vernacular language and the
	copies of the clearance letter are available with the APPCB and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in. This shall be	other in English language and details are depicte in the c) Ministry of Environment, Forests an Climate Change (MoEF&CC) a http://envfor.nic.in.
	advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality	
	concerned and a copy of the same should be forwarded to the Regional office	
17	Project authorities 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 and the date of commencing the land development work	Noted for compliance. This condition is complied
7.0	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory	The industry is complying all the conser conditions mentioned in the order and if an improvements are needed we will rectify our gap and do it in a time bound manner by pricintimation to the board with proper action plan.
8.0	The Ministry reserves the right to stipulate additional conditions if found necessary. The company in a time bound manner shall implement these conditions	The industry is very co operative and bound to the timely amendments issued by the board in view of improving the quality of environment
9.0	Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority ,if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Act ,1997	Noted for compliance.



inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974 the Air (Prevention & Control of Pollution Act, 1981, the) Environment(Protection) 1986, Act, Management and Hazardous Wastes(Handling) Rules, 2003 and Public (Insurance)Liability Act, 1991 along with their amendments and rules.

and following all the rules and regulations and its timely amendments towards improving the quality of Environment in terms of Air quality, water quality, waste management - Solid Waste and Hazardous Waste and health safety-Occupational health safety of the worker etc



EC No: F.No.j-11011/164/2009-IA II (I) Dated 26-11-2009

DETAILS OF PRODUCTION AND CONSUMPTION

	Ferro Alloy Division-Raw material Consumption & Production Details						
Raw Material Consumption-MT						Product-Tons	
Month & Year	Mn Ore	RB3 & RB2- Coal	Nut Coke	Quartz	Dolomit e	Mill Scale	Ferro Alloys
Oct-21	15256.37	3914.2	927.62	1090.52	5.1	0	5732.933
Nov-21	15859.8	3622.5	1247.93	1007.48	727.33	0	6056.07
Dec-21	17602.81	5269	726	1952	0	0	7351.01
Jan-22	18093.87	5144	940	2178	0	0	7474.16
Feb-22	15904.69	4674.51	716.78	1983	0	4.04	6651.56
Mar-22	18276.52	4810.23	918.47	2291	0	0	7704.61
Total	100994.06	27434.38	5476.62	10502	732.44	4.04	40970.34

Captive Power Plant-Raw Material Consumption and Production Details.

Month & Year	Raw material Consumption Coal Consumption (MT)	Production Electricity (MWH)
Oct-21	28467.90	36675.00
Nov-21	19457.19	27947.00
Dec-21	25606.65	36895.00
Jan-22	26005.69	37370.00
Feb-22	24916.21	34863.00
Mar-22	33432.13	45545.00
Total	157885.76	219295.00



EC No: F.No.j-11011/164/2009-IA II (I) Dated 26-11-2009

Month & Year	Solid Waste from Pollution Control Equipments/Facility Gas Cleaning Plant-RABH (Bi Product Tons)	Solid Waste from Process (Waste Tons)		
	Si Mn (GCP Dust)	Fe Mn GCP Dust	Si Mn Slag	MnO Slag
Oct-21	167.66	57.376	4908.18	1382.63
Nov-21	127.51	120.317	3096.267	3100.974
Dec-21	247.76	0	8112.1	0
Jan-22	248.6	0	8110.37	0
Feb-22	220	0	6740.17	0
Mar-22	233.89	7981.84	0	
TOTAL	1245.41	177.69	38948.93	4483.61

Captive Power Plant Solid Waste Generation Details (MT)

Cuptive	-)			
Month & Year	Fly Ash Generation	Fly Ash Sold	Bottom Ash Generation	Bottom Ash Sold
Oct-21	3764.00	3776.51	153	147.83
Nov-21	2904.00	2891.72	160	168.16
Dec-21	3513.00	3503.33	248	246.55
Jan-22	3509.00	3533.35	196	179.49
Feb-22	5045.00	5041.99	213	207.1
Mar-22	4966.00	4966.1	203	202.28
Total	23701.00	23713.00	1173.00	1151.41

Process / Industrial Cooling water Consumption (in M3) Details Ferro Ferro Alloy Allov & Captive **Captive Power Plant Domestic Division** power plant Month & Raw water Year **Cooling** Softener Cooling Boiler required for **Tower** regeneratio **Tower DM** water feed Makeup makeup n generation Oct-21 9075 160 1197 2099 3412 275 Nov-21 7985 160 1076 1255 2003 267 Dec-21 11053 200 1308 411 646 332 Jan-22 10753 240 1254 402 775 324 Feb-22 9146 210 1189 406 765 292 Mar-22 270 1490 557 742 329 11067 **TOTAL** 59079 1240 **7514** 5130 8343 1819



DIGITAL DISPLAY BOARD AT MAIN GATE





WATER SPRINKLERS



Water Sprinkling System & Haulage Road Dust Suppression



Road Sweeping Machine



Water sprinkling system for Haulage Road and Green Bel



Inbuilt water sprinkler system for stacker at coal handling plant



High Pressure Water Sprinkling System



Dry bottom ash handling system-1*80 mw captive power plant



WATER FLOW METERS





CLOSED BELT CONVEYORS & TAURPAULIN COVERED TRANSPORTATION





Covered Conveyor Belt at Captive Power plant







Covered Conveyor Belt at Ferro Alloys



Raw materials are received with tarpaulin



Finished products are transported in closed containers



ANNEXURE-1 THIRD PARTY MONITORING Report

THIRD PARTY AAQ, WATER QUALITY & NOISE MONITORING REPORTS



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/21-12/01

NAME AND ADDRESS

M/s. SARDA METALS AND ALLOYS LTD., VIZAG COMMON PURCHASING PLANT,

Date: 17-12-2021

APIIC, Industrial Park, Kantakapalli,

Kothavalasa-535240, Vizianagaram.

SAMPLE PARTICULARS

: AMBIENT AIR QUALITY

SOURCE OF COLLECTION

NEAR SECURITY GATE

DATE & TIME OF START

08-12-2021@ 10:30hr

DURATION OF SAMPLING

24 Hours

ATMOSPHERE CONDITION

Clear Sky

TEST REPORT

S.No	PARAMETER	UNIT	RESULT	NAAQ STANDARDS	МЕТНОD
1.	Particulate Matter(Size<10μ) or PM ₁₀	μg/m³	64.6	100	IS:5182 (P-23) Gravimetric
2.	Particulate Matter(Size<2.5μ) or PM _{2.5}	μg/m³	37.8	60	IS:5182 (P-24) Gravimetric
3.	Sulphur Dioxide – SO ₂	μg/m³	14.2	80	IS:5182 (P-2)- West and Gaeke Method
4.	Oxides of Nitrogen - NOx	μg/m³	12.0	80	IS:5182(P-6) - Jacob & Hochheiser Method

CHECKED BY

WISAKHAPATNAM F







SV ENVIRO LABS & CONSULTANTS

(Environmental Engineers & Consultants in Pollution Control)

& Laboratory

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. **Branch Office**

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

Date: 17-12-2021

Ref: SVELC/SMAL/21-12/02

NAME AND ADDRESS

M/s. SARDA METALS AND ALLOYS LTD.,

VIZAG COMMON PURCHASING PLANT,

APIIC, Industrial Park, Kantakapalli,

Kothavalasa-535240, Vizianagaram.

SAMPLE PARTICULARS

AMBIENT AIR QUALITY

SOURCE OF COLLECTION

NEAR ADMIN BUILDING

DATE & TIME OF START

08-12-2021@ 10:45hr

DURATION OF SAMPLING

24 Hours

ATMOSPHERE CONDITION

Clear Sky

TEST REPORT

S.No	PARAMETER	UNIT	RESULT	NAAQ STANDARDS	METHOD
1.	Particulate Matter(Size<10μ) or PM ₁₀	μg/m³	55.6	100	IS:5182 (P-23) Gravimetric
2.	Particulate Matter(Size<2.5μ) or PM _{2.5}	μg/m³	26.2	60	IS:5182 (P-24) Gravimetric
3.	Sulphur Dioxide – SO ₂	μg/m³	12.5	80	IS:5182 (P-2)- West and Gaeke Method
4.	Oxides of Nitrogen - NO _X	μg/m³	10.9	80	IS:5182(P-6) - Jacob & Hochheiser Method



EC No: F.No.j-11011/164/2009-IA II (I) Dated 26-11-2009



(7)

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Ref: SVELC/SMAL/21-12/03

Date: 17-12-2021

NAME AND ADDRESS

M/s. SARDA METALS AND ALLOYS LTD.,

VIZAG COMMON PURCHASING PLANT, APIIC, Industrial Park, Kantakapalli,

Kothavalasa-535240,

Vizianagaram.

SAMPLE PARTICULARS

AMBIENT AIR QUALITY

SOURCE OF COLLECTION

NEAR RO PLANT

DATE & TIME OF START

08-12-2021@11:00hr

DURATION OF SAMPLING

24 Hours

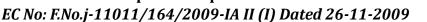
ATMOSPHERE CONDITION

Clear Sky

TEST REPORT

S.No	PARAMETER	UNIT	RESULT	NAAQ STANDARDS	METHOD
1.	Particulate Matter(Size<10μ) or PM ₁₀	μg/m³	53.4	100	IS:5182 (P-23) Gravimetric
2.	Particulate Matter(Size<2.5μ) or PM _{2.5}	μg/m³	22.9	60	IS:5182 (P-24) Gravimetric
3.	Sulphur Dioxide – SO ₂	μg/m³	12.0	80	IS:5182 (P-2)- West and Gaeke Method
4.	Oxides of Nitrogen - NO _X	μg/m³	11.6	80	IS:5182(P-6) - Jacob & Hochheiser Method

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Ref: SVELC/SMAL/21-12/04

NAME AND ADDRESS

Date: 17-12-2021

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

09-12-2021@ 10:00hr

DURATION OF SAMPLING

08 hours

ATMOSPHERE CONDITION

Clear Sky

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	МЕТНОО
1.	Total Suspended Particulate Matter – TSPM	mg/m³	1.16	IS:5182 (P-4)
2.	Respirable Suspended Particulate Matter –RSPM	mg/m ³	0.89	IS:5182 (P-23)

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EC No: F.No.j-11011/164/2009-IA II (I) Dated 26-11-2009



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Ref: SVELC/SMAL/21-12/05

NAME AND ADDRESS

M/s. SARDA METALS AND ALLOYS LTD.,

Date: 17-12-2021

VIZAG COMMON PURCHASING PLANT,

APIIC, Industrial Park, Kantakapalli,

Kothavalasa-535240, Vizianagaram.

SAMPLE PARTICULARS

FUGITIVE EMISSIONS

SOURCE OF COLLECTION

NEAR TAPPING EMISSION AREA

 $\left(\frac{1}{2} \right)$ DATE & TIME OF START

09-12-2021@ 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/m³	1.33	IS:5182 (P-4)
2.	Respirable Suspended Particulate Matter –RSPM	mg/m³	1.02	IS:5182 (P-23)

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Date: 17-12-2021

Ref: SVELC/SMAL/21-12/06

NAME AND ADDRESS

M/s. SARDA METALS AND ALLOYS LTD.,

VIZAG COMMON PURCHASING PLANT,

APIIC, Industrial Park, Kantakapalli,

Kothavalasa-535240, Vizianagaram.

SAMPLE PARTICULARS

FUGITIVE EMISSIONS

SOURCE OF COLLECTION

NEAR FMY AREA

DATE & TIME OF START

09-12-2021@ 10:30hr

DURATION OF SAMPLING

08 hours

ATMOSPHERE CONDITION

Clear Sky

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	METHOD
1.	Total Suspended Particulate Matter – TSPM	mg/m ³	0.86	IS:5182 (P-4)
2.	Respirable Suspended Particulate Matter –RSPM	mg/m³	0.68	IS:5182 (P-23)

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Ref: SVELC/SMAL/21-12/07

NAME AND ADDRESS

M/s. SARDA METALS AND ALLOYS LTD.,

Date: 17-12-2021

VIZAG COMMON PURCHASING PLANT,

APIIC, Industrial Park, Kantakapalli,

Kothavalasa-535240, Vizianagaram.

SAMPLE PARTICULARS

FUGITIVE EMISSIONS

SOURCE OF COLLECTION

NEAR MRP AREA

(F) DATE & TIME OF START 09-12-2021@ 10:45hr

DURATION OF SAMPLING

08 hours

ATMOSPHERE CONDITION

Clear Sky

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	METHOD
1.	Total Suspended Particulate Matter – TSPM	mg/m ³	0.70	IS:5182 (P-4)
2.	Respirable Suspended Particulate Matter –RSPM	mg/m³	0.51	IS:5182 (P-23)

(1)

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Ref: SVELC/SMAL/21-12/08

NAME AND ADDRESS

M/s. SARDA METALS AND ALLOYS LTD.,

Date: 17-12-2021

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

: 09-12-2021@ 11:00hr

DURATION OF SAMPLING

08 hours

ATMOSPHERE CONDITION

Clear Sky

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	METHOD
	Total Suspended Particulate Matter— TSPM	mg/m³	0.98	IS:5182 (P-4)
2.	Respirable Suspended Particulate Matter –RSPM	mg/m³	0.72	IS:5182 (P-23)

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Ref: SVELC/SMAL/21-12/09

NAME AND ADDRESS

Date: 17-12-2021

M/s. SARDA METALS AND ALLOYS LTD., VIZAG COMMON PURCHASING PLANT,

APIIC, Industrial Park, Kantakapalli,

Kothavalasa-535240, Vizianagaram.

SAMPLE PARTICULARS

STACK EMISSIONS

SOURCE OF COLLECTION

250 KVA DG Set -1

DATE & TIME OF COLLECTION

08-12-2021@ 11:30hr

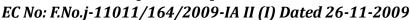
TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Diameter of the Stack	m	0.0762
2.	C/s Area of Stack		
3.	Pitot Coefficient	102	0.0045
4.	Specific Gravity of Fluid	•	0.87
5.		-	1.0
	Temperature @ DGM	°C	31
6.	Stack Temperature	°C	160
7.	Nozzle Diameter	mm	06
8.	Exit Velocity	m/sec	
9.	Gas Quantity		14.7
10	Duration of Sampling	Nm³/hr	162
	- armon or bamping	minutes	45

EMISSION RATE

S.No	PARAMETER	UNITS	RESULT	CPCB STANDARD
ı.	Particulate Matter – PM	g/kw-hr	0.15	0.3
2.	Oxides of Nitrogen – NOx	g/kw-hr	1.90	9.2
3.	Carbon Monoxide - CO	g/kw-hr	0.81	3.5
4.	Hydrocarbons - HC	g/kw-hr	0.19	1.3

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Ref: SVELC/SMAL/21-12/10

NAME AND ADDRESS

M/s. SARDA METALS AND ALLOYS LTD.,

Date: 17-12-2021

VIZAG COMMON PURCHASING PLANT,

APIIC, Industrial Park, Kantakapalli, Kothavalasa-535240,

Vizianagaram.

SAMPLE PARTICULARS

: STACK EMISSIONS

SOURCE OF COLLECTION

250 KVA DG Set -2

DATE & TIME OF COLLECTION

08-12-2021@ 12:15hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Diameter of the Stack	m	0.0762
2.	C/s Area of Stack	m ²	0.0045
3.	Pitot Coefficient	- +2	0.87
4.	Specific Gravity of Fluid	-	1.0
5.	Temperature @ DGM	°C	31
6.	Stack Temperature	°C	174
7.	Nozzle Diameter	mm	06
8.	Exit Velocity	m/sec	16,0
9.	Gas Quantity	Nm³/hr	171
10	Duration of Sampling	minutes	45

EMISSION RATE

(;)

S.No	PARAMETER	UNITS	RESULT	CPCB STANDARD
1.	Particulate Matter - PM	g/kw-hr	0.19	0.3
2.	Oxides of Nitrogen - NOx	g/kw-hr	2.28	9.2
3.	Carbon Monoxide - CO	g/kw-hr	0.84	3.5
4.	Hydrocarbons - HC	g/kw-hr	0.26	1.3

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Ref: SVELC/SMAL/21-12/11

Date: 17-12-2021

NAME AND ADDRESS

M/s. SARDA METALS AND ALLOYS LTD., VIZAG COMMON PURCHASING PLANT,

APIIC, Industrial Park, Kantakapalli,

Kothavalasa-535240,

Vizianagaram.

SAMPLE PARTICULARS

STACK EMISSIONS

SOURCE OF COLLECTION

Stack Attached to FAD

DATE & TIME OF COLLECTION

08-12-2021@13:15hr

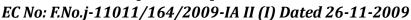
TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT	
1.	Stack Height	m	65	
2.	Diameter of the Stack	m	4.0	
3.	C/s Area of Stack	m ²	12.56	
4.	Pitot Coefficient	-	0.87	
5.	Specific Gravity of Fluid	-	1.0	
6.	Temperature @ DGM	°C	32	
7.	Stack Temperature	°C	150	
8.	Nozzle Diameter	mm	09	
9.	Exit Velocity	m/sec	6.04	
10.	Gas Quantity	m³/hr	273104	
11.	Duration of Sampling	minutes	45	

EMISSION RATE

S.No	PARAMETER	UNITS	RESULT	PCB STANDARD
1.	Particulate Matter – PM	mg/Nm ³	31.6	50
2.	Sulphur Dioxide – SO ₂	mg/Nm ³	72.8	70
3.	Oxides of Nitrogen – NOx	mg/Nm ³	85.2	-
4.	Mercury – Hg	mg/Nm ³	< 0.0056	-

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Ref: SVELC/SMAL/21-12/12

NAME AND ADDRESS

Date: 17-12-2021

M/s. SARDA METALS AND ALLOYS LTD., VIZAG COMMON PURCHASING PLANT,

APIIC, Industrial Park, Kantakapalli,

Kothavalasa-535240,

Vizianagaram.

SAMPLE PARTICULARS

STACK EMISSIONS

SOURCE OF COLLECTION

POWER PLANT CHIMNEY

DATE & TIME OF COLLECTION

08-12-2021@ 14:30hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Stack Height	m	120
2.	Diameter of the Stack	m	6.69
3,	C/s Area of Stack	m ²	35.13
4.	Pitot Coefficient	111	0.87
5.	Specific Gravity of Fluid		1.0
6.	Temperature @ DGM	°C	31
7.	Stack Temperature	°C	135
8.	Nozzle Diameter	mm	09
9.	Exit Velocity	m/sec	5.64
10.	Gas Quantity	m³/hr	713279
11.	Duration of Sampling	minutes	60

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	PCB STANDARD		
1.	Particulate Matter – PM	mg/Nm ³	33.8	50		
2.	Sulphur Dioxide – SO ₂	mg/Nm ³	272	600		
3.	Oxides of Nitrogen – NOx	mg/Nm ³	167			
4.	Mercury – Hg	mg/Nm³	< 0.0056	300		

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EC No: F.No.j-11011/164/2009-IA II (I) Dated 26-11-2009

ANNEXURE-2 ANNUAL MEDICAL CHECKUP-2021-22

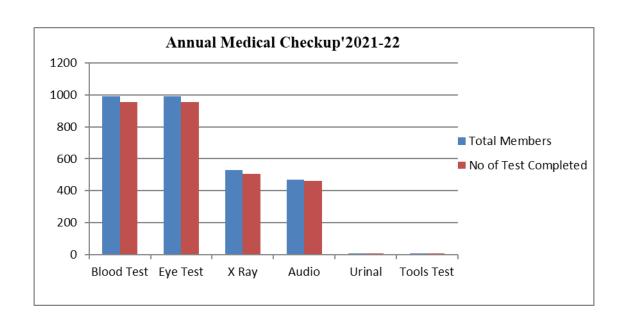




Audio Metric

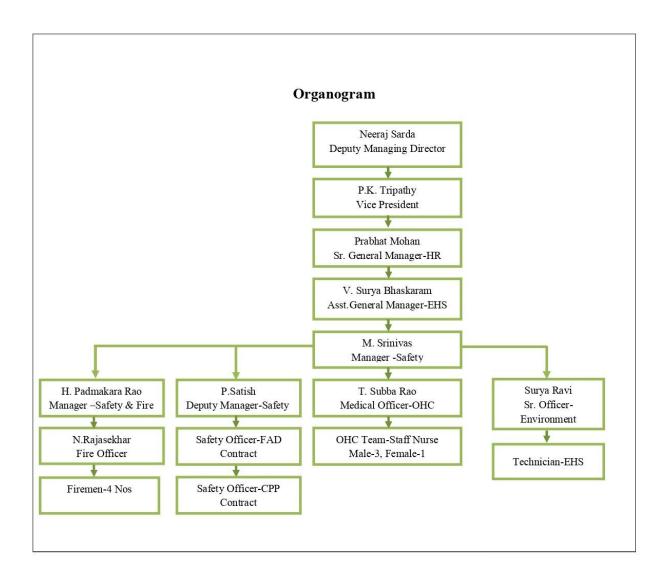
Eye Test

Annual Medical Checkup 2021-22							
	Blood Test	Tools Test					
Total Members	990	990	530	470	9	9	
No of Test Completed	953	953	507	462	9	9	





ANNEXURE-3 ORGANO GRAM





EC No: F.No.j-11011/164/2009-IA II (I) Dated 26-11-2009

Hazardous Waste Manifest

			MANIFESTFORH	FORM SEE RULE AZARDO	19 (1)] US AND OTH	IER WAS	STE				
Sender's name and mailing address (including Phone No. and E-mail)					M/3. Sarda Melalv and Alloys LAS: APTIC Industrial Park, Kantak apalli(1) Rothavalara (M) Vizianagaram 03-535240 ehs (Smal. co.in, 7382627553 APPCB/VSP/VZN/200/CFO/HO/2021						fd: Nalli(V) 535240
	2.	Sender's auth	norisation No.		APPCB/VS/	DIVZNI	200/	CFO/+	40/0	2021	
	Manifest Document No.				02		· · · · ·				
	4.		name and address : one No. and e-mail)		Si siva Sai Pedrose producti Plot No. 263, Block No: B-OL Near souto Nagar, Karuh (V) Amamaluru (M), IDA, Krihna (Fit), 92469286 SSSPP 66 Egmail Com, 9246629888, 92469286						LY 6 92866
	5.	Type of vehicl	e		(Truck/Tanker/S			-		7.	
Ì	6.	Transporter's	registration No.								
I	7.	Vehicle regist	tration No.		APIGTLI	276		*			
	8.	Receiver's name and mailing address (including Phone No. and e-mail)			Sri Eiva fai Peters producte plot NO: 223, Blee NO. B-01, New Autorian Kanuru (V), Penamaluru (19), IPA,						
	9.	15 1			W8	4 60	17-102				
	10.	Waste descr	iption		wed water oil						1,100
	11.	Total quantity									mt.
		No. of Conta	iners		Solid/Semi- Semsolid.						
	12.	12. Physical form			(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)						
	13.	Special hand	lling instructions and additional	information							
	14.	Sender's Cer	¥.T.A.I	S & ALL	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.						
	Name and stamp: Balaj i Keddy M Dala Dala Dala Dala Dala Dala Dala Dal		30	Day Month Year 3 D 1 D 2 D 2							
	15.	Transporter a	acknowledgement of receipt of	Wasta	Producte						
		Name and s	tamp : Signature	10000	Todacts	Day	14				
	Name and stamp: Gr. Chimmedian. Signature: Prop 16. Receiver's certification for receipt of hazardous and other			G -30	20 0 3 D 1 D 2 D 1						1
		Name and stamp: Signature: For Sri Siva Sai Petro			leum Products	3 D.	Monti	2	Y d	ear	7
*	Сору	1 (White)	To be forwarded by the sender to t	he State Pollution	n Control Board after	r signingall th	ne seven	copies			
/		2 (Yellow)	To be retained by the sender after be carried by the transporter.	taking signature	on it from the transp	porter and the	e rest of th	e five sig			to
		3 (Pink)	To be retained by the receiver (act waste and the remaining four copie	es are to be dur	y signed by the recei	ver.	operator	after re	ceiving	the	
<		4 (Orange) 5 (Green)	To be handed over to the transpor To be sent by the receiver to the St	ter by the receive	ver after accepting w	aste.		-			
		6 (Blue)	To be sent by the receiver to the se	ender.							
		7 (Grey)	To be sent by the receiver to the Si	tate Pollution Co	ntrol Board of the se	nder in case	the sende	r is in an	other S	State	~