ELECTROSTEEL CASTINGS LIMITED
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PIONEERING 25 YEARS OF DI PIPES

04.12.2025

To
The Inspector General of Forest,
Ministry of Environment, Forest and Climate Change,
Government of India,
Integrated Regional Office,
Vijayawada Green House Complex,
Vijayawada – 520010.

Dear Sir,

Sub: **Submission of Six monthly compliance report for the period April to September'2025** - Expansion of Ductile Iron Pipes Plant by installing 4x100 TPD Sponge Iron (1,30,000 TPA), Steel making facility (1,25,000 TPA), 4x9 MVA Ferro Alloy (Fe-Si:25,000 TPA or Si-Mn: 60,000 TPA or Fe-Mn: 75,000 TPA) along with 12 MW Captive power Plant (8 MW WHRB and 4 MW FBC) at Villages Merlapaka & Rachagunneri, Mandal Yerpedu & Srikalahasthi, District Tirupathi, Andhra Pradesh by **M/s Electrosteel Castings Ltd** – reg.

Ref: 1. J-11011/158/2011-IA. II (I) dated 11.01.2013, EC transfer dt 17.10.2016, validity extension dt 28.02.2020, Amendment dt 01.10.2020, EC transfer dated 21.02.2022.

With reference to the above, we are submitting six monthly compliance report for the period April to September'2025 for Environment clearance J-11011/158/2011-IA. II (I) dated 21.02.22 (Transfer of EC) for conditions stipulated in the order to Electrosteel Castings Ltd-Srikalahasthi Works.

Thanking you,

Yours Faithfully,

For **ELECTROSTEEL CASTINGS LTD**

4/12/25

G. Jothi
Sr. Manager (Environment)

ELECTROSTEEL CASTINGS LIMITED ★ RACHAGUNNERI ★

Cc: CPCB Regional Office/ APPCB Regional office

Enclosures:1. 3rd party Monitoring reports 2. CREP compliance Report
3. OCEMS/CAAQMS monitoring reports.

ELECTROSTEEL CASTINGS LTD
(SRIKALAHASTHI WORKS)

Name of the Project: Expansion of Ductile Iron Pipes Plant by installing 4x100 TPD Sponge Iron (1,30,000 TPA), Steel making facility (1,25,000 TPA), 4x9 MVA Ferro Alloy (Fe-Si:25,000 TPA or Si-Mn: 60,000 TPA or Fe-Mn: 75,000 TPA) along with 12 MW Captive power Plant (8 MW WHRB and 4 MW FBC) at Villages Merlapaka & Rahagunneri, Mandal Yerpedu & Srikalahasthi, District Chittoor, Andhra Pradesh – reg.

EC clearance letter with date. J-11011/158/2011-IA. II (I) dated 11.01.2013, EC transfer dt 17.10.2016, validity extension dt 28.02.2020, Amendment dt 01.10.2020, EC transfer dated 21.02.2022.

CFE obtained under NIPL and CFE reference: Order No. 391 /APPCB/CFE/RO-TPT/HO/2005 dated 03/08/2022
CFE expansion obtained under NIPL and CFE reference: Order No. 391/APPCB/CFE/RO-TPT/HO/ 2005 dated 16.08.2024

Combined CFO obtained on 24.01.2024 and CFO reference: 306687/APPCB/KNL/TPT/CTO & HWA/HO/2024 valid up to 30.04.2028

Period of Compliance: April to September -2025

Present Status of the project:

S No	Product	UOM	Capacity as per EC dt.11.01.2013	Capacity Obtained in CFE expansion under NIPL dt 16.08.2024	Capacity already installed and CFO Obtained dt 24.01.2024
1	Ductile Iron Pipes	TPA	4,00,000	8,00,000	6,00,000
2	Pig Iron / Liquid Metal	TPA	5,25,000	7,00,000	6,00,000
3	LAM Coke	TPA	4,62,000	3,60,000	4,00,000
4	Captive Power Generation	MW	58.5	40.5	25
5	Slag Cement (PSC/OPC/SRC/ PPC /CC / GGBS	TPA	3,90,000	3,90,000	2,00,000
6	Sponge (4X 100 TPD)	TPA	1,30,000	1,34,000	Yet to be implemented
7	Steel Products	A	1,25,000	dropped	------
8	Ferro alloys unit	TPA	FeSi-25,000 SiMn-60,000 FeMn-75,000 (4x9 MVA)	FeSi - 25,000 SiMn - 32,000 FeMn - 42,000 (4x9 MVA)	FeSi-20,000TPA SiMn-32,000TPA FeMn-42,000TPA (2x9 MVA)

A. SPECIFIC CONDITIONS

S. No	Specific conditions	Compliance Status
i.	On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks should be provide and sufficient air pollution control devices viz. electrostatic precipitator (ESP), and bag filters etc. shall be provided to keep the emission levels below 50 mg/Nm3 by installing energy efficient technology.	Three online real time continuous Ambient Air Quality Monitoring (CAAQM) stations installed in upwind, crosswind & download direction in consultation with APPCB and the online real time monitoring data is being transmitted to APPCB server for the parameters PM 10, PM 2.5, SO2 and NOx. Online continuous stack monitoring facility (PM & Gas measurement) have been provided to all the process stacks and data are being transmitted to the APPCB and CPCB portals. MOEF authorized 3rd party monitoring of Ambient and Stack also being carried out and reports are being submitted to the regional office of APPCB. Online Stack monitoring data from April to September'25 and 3rd party monitoring data of July'25 are attached as Annexure Air pollution control devices viz. Electrostatic precipitator (ESP), and bag filters etc. have been provided to keep the emission level below the standard limits. Necessary similar arrangements will be provided during set up of balance capacity as well.
ii.	The National ambient air, quality standards issued by the ministry vide G.S.R. No. 826 (E) dated 16th November, 2009 should be followed.	Noted and being complied.
iii.	Gaseous emission levels including secondary fugitive emissions from the all the sources should be controlled within the latest permissible limits issued by the ministry vide G.S.R. 41(E) dated 30th May, 2008 and regularly monitored. Guidelines / code of practice issued by	Gaseous emission levels including secondary fugitive emission from all the sources are being controlled within the latest permissible limits. Online stack gas monitors have fixed in all the process area and the data is being uploaded to the APPCB and

S. No	Specific conditions	Compliance Status
	the CPCB should be followed.	CPCB portals. Necessary similar arrangements will be provided during set up of balance capacity as well.
iv.	As per the commitment submitted, charcoal produced from patta lands only should be used. The requisite documents in this regard, shall be submitted to the ministry's regional office at Bangalore on regular basis.	Noted and being complied. 5% Coke fines is used along with Charcoal (75%). Charcoal is being used in our Ferro alloy plant which is being produced from Patta Land only.
v.	Dust suppression system and bag filters shall be installed to control the fugitive dust emissions at conveyor and transfer points, product handling, loading and unloading points.	Water spray dust suppression system has provided at conveyer fugitive emission sources. Material transfer points, material storage bunkers. Product handling areas were connected to the bag filter to control fugitive dust emission. Water sprinkling arrangements have made in loading and unloading points to control fugitive dust emission. Similar arrangements will be arranged during the set up of balance capacity as well.
vi.	Hot gases from the DRI kiln shall be passed thorough 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 dispersion into the atmosphere through ID fan stack, ESP shall be installed to control the particulate emissions from the WHRB.	Sponge Iron Project is not yet established. It will be implemented during commissioning of DRI plant.
vii.	Total water requirement shall not exceed 1,920 m3/day. Efforts shall further be made to use maximum water from the rain water harvesting sources if needed capacity of the reservoir should be enhanced to meet the maximum water requirement. Only balance water requirement should be met from other sources. Use of air-cooled condensers shall be explored and closed-circuit system shall be provided to reduce water consumption and water requirement shall be modified accordingly.	The total water permitted quantity in CFE expansion (under NIPL) is 13326 KLD. Fresh water is 11290 KLD and recycle water is 2036 KLD. Year 2025-26 half yearly (Apr'25 to Sep'25) average water consumption per day was 5054 KLD. Tirupathi municipality primary treated sewage water is being used for plant process requirement after treatment in STP. Roof top Rain water harvesting structures established and rain water being soaked in the ground to increase the ground water table. Already 26600 m3 reservoir is available to store the rain water. Additional 280 KLD collection pit arranged to collect the storm water from drains. All the process area has been

S. No	Specific conditions	Compliance Status
		established closed circuit cooling system to reduce the water consumption.
viii. 5096jjj	All the effluent shall be treated and used for ash handling, dust suppression and green belt development. No effluent shall be discharged and 'zero discharge shall be adopted; sanitary sewage shall be treated in septic tank followed by soak pit.	Effluent generated in Ductile Iron pipe plant and MBF are utilized for BF slag granulation, BF Gas cleaning plant, Pig Cast machine cooling, MBF yard spray and road spray Effluent generated in Captive power plant is neutralized in neutralization pit then used for Coke quenching, coal yard and road spray. The average effluent generation between Apr'25 to Sep'25 was 1072 KLD. No effluent is discharged outside and Zero liquid discharge is being maintained. Sanitary sewage is being sent to STP for treatment and then reused for gardening and process
ix.	Regular monitoring of influent and effluent surface, sub-surface and ground water shall be ensured and treated waste water shall meet the norms prescribed by the state pollution control board or described under the environment (protection) Act, 1986 whichever are more stringent. Leachate study for the effluent generated and analysis should also be regularly carried out and report submitted to the Ministry's regional office at Bangalore, SPCB and CPCB.	Influent and effluent are monitoring regularly and recorded. Effluent is not discharged outside and zero liquid discharge is being maintained. Generating effluent is fully used for BF slag granulation, Gas cleaning plant make up, Coke quenching, Raw material yard and road spray. Effluent water gets fully evaporated in the above reuse process. Effluent water analysis is being done regularly, MOEF & CC authorized 3rd party monitoring also being done and reports are being submitted to regional office of MOEF and CPCB every six month.
x.	All the char from DRI plant shall be utilized in FBC boiler of power plant and no char shall be disposed off anywhere else, FBC boiler shall be installed simultaneously along with the DRI plant to ensure full utilization of char from the beginning.	Sponge Iron Project is not yet established. No char generation at present. However, char will be disposed to authorized agencies once commissioning of DRI plant.
xi.	Slag produced in Ferro Manganese (Fe-Mn) production shall be used in manufacture of silico Manganese (Si-Mn). All the other ferro alloy slag shall be used in the preparation of building materials/laying of roads.	Ferro silicon slag is being recycled in Induction furnace to recover silicon and also sold to foundries. No production of Ferro Manganese and Silico manganese hence no generation of Ferro Manganese and Silica Manganese slag.
xii.	No Ferro chrome shall be manufactured without prior approval from the Ministry of Environment & Forests.	Noted and will be complied.

S. No	Specific conditions	Compliance Status
xiii.	Proper utilization of fly ash shall be ensured as per fly ash notification, 1999 and subsequent amendment in 2003 and 2009. All the fly ash should be provided to cement and brick manufactures for further utilization and memorandum of understanding should be submitted to the Ministry's regional office at Bangalore.	Coal-based power plant project dropped hence no generation of fly ash in the plant.
xiv.	Risk and disaster management plan along with mitigation measures should be prepared and a copy submitted to the ministry's regional office at Bangalore, SPCB and CPCB within 3 months of issue of environment clearance letter.	Emergency preparedness schemes are available and it is being implemented regularly through mock drills which is in line with Risk and disaster management plan. The same has been submitted to the regional office of MOEF, APPCB and CPCB.
xv.	As proposed, green belt shall be developed in 33% of plant area. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.	53.7 acres green belt had been developed as per EC amendment letter dated 1st October'2020. 15.2 acres green belt has been developed in additional land of 46.1 acres added in CFE -CPM dated 03.08.2022. The selection of plant species is as per the CPCB guidelines and in consultation with DFO. During the period 1928 saplings have been planted in the factory premises.
xvi.	All the recommendations made in the charter on corporate responsibility for environment protection (CREP) for the sponge iron plants and steel plants should be implemented.	Steel project dropped and CREP for the sponge Iron plants will be implemented during implementation of the project in future.
xvii.	All the commitments made to the public during the public hearing / public consultation meeting held on 15th September, 2011 shall be satisfactorily implemented and a separate budget for implementing the same be allocated and information submitted to the Ministry's regional office at Bangalore.	Providing Employment to the local people, Free Medical Camps to the nearby villages and Supplying of Drinking water to the nearby villages are the important commitments made during the public hearing and the same is being fulfilled regularly. Skill development on tailoring and embroidery for local women. Employment opportunity have been given to competent local people. Daily 18 KL drinking is being supplied to Rachagunneri village. First Aid Center established at near Rachagunneri village. Daily doctor is available 2 hrs to serve surrounding village people.
xviii.	At least 5% of the total cost of the project should be earmarked towards the	CSR committee is in place and CSR policy has been established,

S. No	Specific conditions	Compliance Status
	enterprise social commitment (ESC) based on public hearing issues and item-wise details along with time bound action plan should be prepared and submitted to the ministry's regional office at Bangalore. Implementation of such program should be ensured accordingly in a time bound manner.	accordingly activities are being taken up and completed. Rs 10 Lakhs has spent Apr'25 to Sep'25 under CSR, considering the public hearing issues, social infrastructure development, skill development, Education and health.
xix.	The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, 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 and being complied.
xx.	The company shall submit within three months their policy towards corporate environment responsibility which should inter-alia address (i) standard operating process/procedure to being into focus any infringement/deviation/violation of environmental or forest norms/conditions, (ii) Hierarchical system or administrative order of the company to deal with environmental issues and ensuring compliance to the environmental clearance conditions and (iii) system of reporting of non compliance/violation environmental norms to the board of directors of the company and / or stakeholders or shareholders.	Environmental Cell has been established in the company. Environmental head is responsible to highlight the Environmental issues, deviations, required improvements, objective and targets to all divisional heads and plant heads. In daily meeting, this will be discussed and division heads will direct the concern sections representative to resolve the issues. It will be reviewed periodically to ensure implementation. If not implemented it will be brought to the notice of plant head and he will conduct the meeting along with division heads for necessary action. An Internal audit system is existence in the company. The internal auditor periodically conducts audit and their report would include any non-compliance/violations if any and submitted to the audit committee of the board of directors. This will be followed by reporting of action taken on the non-compliance.

B. General Conditions

S.No	General conditions	Compliance status
i.	The project authorities shall strictly adhere to the stipulations made by the Andhra Pradesh Pollution Control Board (APPCB) and State Govt.	ECL has been adhering all the stipulations made by the APPCB. Consent for Operation (CFO) renewal has been obtained from the Andhra Pradesh Pollution Control Board and the same is valid up to 30.04.2028
ii.	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.	Efforts are being taken to control the emissions within the prescribed limits and assured that in the event of failure of any pollution control system adopted in the unit, will be immediately put out of operation and will not be started till the desired efficiency has been achieved.
iii.	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.	As per MoEFCC notification vide S.O. 980 (E) dt. 02.03.2021 ECL has been proposed capacity expansion under no increase in pollution load category and obtained CFE expansion. Details have been given in MOEFCC Parvesh portal and obtained acknowledgement.
iv.	The gaseous emissions from various process units shall confirm to the load/mass-based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The State Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.	The gaseous emissions from various processes are within the standards prescribed from time to time by authorities.
v.	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.	Hazardous waste like Used oil/waste lubricating oil, Zinc dust and used batteries are stored and disposed to the authorized recyclers as per HWM Rules-2016. HW authorizations were obtained from APPCB for collection, storage, reuse and disposal and the same is valid up to 30.04.2028.
vi.	The project authorities must strictly comply with the rules and regulations with regard to	Hazardous waste like Used oil/waste lubricating oil, Zinc dust

	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.	and used batteries are stored and disposed to the authorized recyclers as per HWM Rules-2016. HW authorizations were obtained from APPCB for collection, storage, reuse and disposal and the same is valid up to 30.04.2028.
vii.	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).	The overall noise levels in and around the plant area are being kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures on all sources of noise generation. The noise levels (day time and night time) is being monitored by MoEF & CC recognized laboratory at Six locations and the levels are within the limits. Personal protective equipments such as earplugs and mufflers are being provided to the workmen. The Noise level reports are being submitted to the Regional offices of MOEF&CC and APPCB and the same arrangements will be implemented in the expansion project also.
viii.	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.	1)26,000m3 rain water harvesting pit developed near colony to collect rain water from colony houses and utilized for plant process. 2) Roof top rain water harvesting system have implemented in MBF office (25 KL) and MBF Coal shed (32KL) to increase the ground water table. 3) 200 KL Sump constructed in CPP to collect Rain water through drain. 4) 4 Nos Rain water soaking pit developed in Canteen, SPP and DIP pipe storage yard area to collect rain water from the drain. 5) 25 KL roof top rain water harvesting system implemented in Ferro alloy plant. 6) 25 KL roof top rain water harvesting structure established in Gasket godown. Rain water harvesting structure

		will be implemented to the other expansion project also.
ix.	Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Occupational health surveillance (OHS) of the workers are being regularly carried out and records are maintained as per the factories act. OHS centre is equipped with doctor, supporting staffs and facilities. The workers are provided with earmuffs/earplugs those who are in the noise generating areas and undergoing periodic tests. Also, the workers especially working in the area of furnaces are wearing protective clothing to protect from the high level of heat radiation. First Aid trainings are being organized by experts to selected team members, so as to maintain First Aiders availability round the clock in various divisions.OHS facilities will be extended to the expansion unit also. Daily 2 hrs (10.00 am to 12.00 Noon) company doctor is available at OPD center in Rachagunneri village established by ECL. Surrounding village people are being treated for ailments and being provided medicines.
x.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report	As per EIA recommendations the environmental protection measures are being implemented regularly to improve the environment. EMP is being taken yearly with target and being implemented regularly.
xi.	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the environmental management and monitoring functions.	Separate Environmental Management Cell (EMC) with the following composition has been established: i. Dy. Chief Operating Officer. ii. All Divisional Heads iii. Sr. Manager – Environment; iv. All Functional heads and Environment assistants. EMC meets once in a month and reviews existing environment management system. Summary

		of the review meetings is prepared once in six months. Full-fledged environment Laboratory is established for the analysis of domestic and effluent water samples. Further environmental monitoring is also being carried out by third party recognized by MoEF & CC.
xii.	As proposed, Rs. 12 crore and 1.20 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.	As on 30th September'2025 the total Capital cost has been spent for the pollution control measures are Rs 111.67 Cr and the Recurring cost for the period April'25 to September'2025 was Rs 9.18 Cr. Environment pollution control measures are being judiciously used to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds provided shall not be diverted for any other purpose.
xiii.	A copy of clearance letter shall be sent by the proponent to concerned panchayat zilaparishad / Municipal corporation, Urban local body and the local NGO, if any from whom suggestion/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.	Complied.
xiv.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of CPCB and the APPCB. The criteria pollutant levels namely; RSPM (PM2.5 and PM10) SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at convenient location near the main gate of the company in the public domain.	Complied at regular interval. Ambient and Stack emission reports are being displayed at main gate digitally. It is uploaded to the company website as part of six-monthly compliance report.
xv.	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental	Being complied

	conditions including results of monitored data (both in hard copies as well as by e-mail) to the regional office of MoEF, the respective zonal office of CPCB and the APPCB. The regional office of this ministry / CPCB / APPCB shall monitor the stipulated conditions.	
xvi.	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned state pollution control board as prescribed under the environment (protection) Rules, 1986, as mended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall be also be sent to the respective regional offices of the MoEFCC by e-mail.	Being complied
Xvii	The project proponent shall inform the public that the project has been accorded environmental clearance by the ministry and copies of the clearance letter are available with the APPCB and may also be seen at website of the ministry of environment and forests and http:/envfor.nic.in. this shall be advertised within seven days from the date of issue of the clearance letter, at least in two local news papers 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.	Advertisements were given in two local newspapers namely Indian Express and vartha on 24.1.2013 and advertisement copies were submitted to the Regional Office of the MoEF& CC
xviii	The authorities shall inform the regional office as well as the Ministry, the date of financial closure and final approval of the project by the concern authorities and the date of commencing the land development work.	Being complied.
11	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted for compliance.
12	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner will implement these conditions.	Noted for compliance
13	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974,	Noted for compliance

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

Electrosteel Castings Limited

CREP Compliance for the period of April to September'25

Sl. No	Action point	Compliance Status/action taken
1.	**Coke Oven**	
A	To meet the parameters PLL, PLD & PLO as notified under EPA by Dec'06	Not Applicable since ours is Non recovery type coke oven plant.
B	To re-build at least 40% of Coke Oven Batteries by 2012	Not Applicable since ours is Non recovery type coke oven plant. Revamping of aged oven are happening regularly.
2.	**Blast furnace**	
A	Direct injection of reducing agents by June, 2013	Complied. PCI coal is injected as reducing agents.
3.	**Solid waste / Hazardous waste management**	
1	SMS & BF slag utilization 70% by '04, 80% by '06 and 100% by '08 – CREP	BF slag around 40% being utilized in our Cement plant.Balance quantity is being sold to other Cement Industries. 100% BF slag is being utilized.
2	Charge of tar sludge / ETP sludge in coke oven by June'03	There is no Tar Sludge generation in our plant. Hence Tar sludge is not charged to the Coke oven. ETP Sludge is being used in Sinter plant.
3	Inventorization of hazardous wastes	Hazardous waste generation and disposal are being recorded as and when. Monthly consolidated report is being maintained. Annual return is being submitted in form-4 regularly to the APPCB.
4	Water conservation & water pollution: reduce specific water consumption to 5 m3/tls	Complied
5	To operate COBP effluent treatment plant efficiently to achieve the standards by July'04	Effluents are neutralized in ETP and reused in Slag Granulation
6	Installation of continuous stack monitoring equipment by Jun'05	Complied. Major process stacks were provided with continuous stack monitoring equipment and connected to APPCB & CPCB.
7	Setting up of 3 nos. on-line ambient air quality monitoring stations by Jun '05	3 Nos Continuous Ambient Air Quality Monitoring stations were installed and connected to APPCB on Dec-2014 onwards. (Downwind, up wind and Cross wind)
8	To operate existing pollution control eqpt. & keep proper records	Complied
9	To implement the recommendations of LCA Study • Battery 1, 2, 3 repaired. In good health • Coke dry quenching, BF top gas recovery, LD gas recovery and 100% continuous casting. • Dog house- SMS: • PCI in BF 1&2: • Sp. Water Consumption • Specific Energy consumption	NA

0	Energy recovery from BF top gas pressure	BF gas is being utilized in MBF Stove, 2.5 MW gas-based power plant, Annealing furnaces and Sinter plant.
11	Use of tar free runners / BF	NA
12	De-dusting in cast house	Complied
13	Suppression of fugitive emission using N_2	NA
14	Processing of waste containing flux & ferrous wastes through waste recycling plant	Recycle in the sinter plant
15	To implement rain water harvesting measures	Complied
16	Reduction of greenhouse gasses by: a. Reduction in power consumption	In heat treatment furnace HSD is replaced with BF gas.
17	b. Use of by-products gases for power generation	BF gas and Coke oven waste heat being used to produce power
18	c. Promotion of Energy Optimization Technology incl. energy audit	Energy conservation process is being implemented
19	To set targets for Resource Conservation such as raw material, energy and water consumption	a) To conserve the resources ,75% of Iron ore lumps along with Lime stone and Dolomite are replaced with Sinter product. This sinter product is being produced from fines of Iron ore, limestone and dolomite. Thus conserving 75% of Raw material like Iron ore lumps, Lime stone and Dolomite. b) To conserve Ground water, daily around 5200 - 5500 KLD of primary treated Sewage water from 'Tirupathi municipality is being drawn and treated in 7 MLD STP at plant premises. Treated water is being used for plant process. Thus, conserving daily around 5000 - 5500 KLD ground water. c)To conserve the energy, 25 MW Captive power plant established to produce power from BF gas and Waste heat from Coke oven.
20	Up-gradation of the monitoring and analysis facilities for air and water pollutants. Also impart elaborate training to the manpower	Online monitoring facility provided for stacks and Ambient Air. Regular awareness programme on environmental aspects and impacts are being conducted for employees.
21	Power Plants should provide dry fly ash free of cost to the users	NA
22	Good housekeeping	5s Practice and TPM are being initiated and monitored to improve the house keeping.
Cement plant		
	Cement Plants, which are not complying with notified standards, shall do the following to meet the standards; Augmentation of existing Air Pollution Control Devices - by July 2003 Replacement of existing Air Pollution Control Devices - by July 2004	Pollution control equipment's were provided in all process locations to meet the standard as per CFO. Air pollution control equipment's bag filter were replaced as and when and regular maintenance is being carried out.

	Cement Plants located in critically polluted or urban areas (including 5 km distance outside urban boundary) will meet 100 mg/ Nm3 limit or particulate matter by December 2004 and continue working to reduce the emission of particulate matter to 50 mg/Nm3.	We are 11 KM away from urban boundary. The emission level of particulate matter is less than100 mg/Nm3 as per CFO for Vertical shaft kiln cement plant.
	The new cement kilns to be accorded NOC/Environmental Clearance w.e.f 01.04.2003 will meet the limit of 50 mg/Nm3 for particulate matter emissions.	Obtained Environment Clearance for the cementplant vide reference - . J-11011/914/2007-IA. II(I) dated 25.07.2008
	CPCB will evolve load- b a s e d standards by December 2003.	NA
	CPCB and NCBM will evolve SO2 and NOx emission standards by June 2004.	SO2 and NOx are well below the standard as notified by MOEF.
	The Cement industries will control fugitive emissions from all the raw material and products storage and transfer points by December 2003. However, the feasibility forthe control of fugitive emissions from limestone and coal storage areas will bedecided by the National Task Force (NTF). The NTF shall submit its recommendations within three months.	All conveyer belts, transfer points are covered by hood. Shed provided for some of the raw materials. Open area stock piles are covered with Tarpaulin. Regular water sprinkling on roads is being carried out to avoid fugitive emission.
	CPCB, NCBM, BIS and Oil refineries will jointly prepare the policy on use of petroleum cokes as fuel in cement kiln by July 2003.	NA
	After performance evaluation of various types of continuous monitoring equipment and feedback from the industries and equipment manufacturers, NTF will decide feasible unit operations/sections for installation of continuous monitoring equipment. The industry will install the continuous monitoring systems (CMS) by December 2003	All process stacks of the plant were installed onlineCEMS and data are connected to the APPCB and CPCB site.
	Tripping in kiln ESP to be minimized by July 2003 as per the recommendations of NTF.	NA
	Industries will submit the target date to enhance the utilization of waste material by April, 2003.	As such our cement plant is operating to consume blast furnace slag generated in MBF operation.40%to 50% of the slag used for cement manufacturing. Only ball mill is being operated now hence waste material is not possible to use in cement plant.
	NCBM will carry out a study on hazardous waste utilization in cement kiln by December 2003.	NA
	Cement industries will carry out feasibility study and submit target dates to CPCB for co-generation of power by July 2003.	NA

M/S Electrosteel Castings Ltd
Online OCEMS data Apr.25- Sep.25

Sl No.	Time	ZCD_1-PM_U	ZCD_2-PM_U	MCD_1-PM_U	MCD_2-PM_U	IFDDS-PM_U	MBF_STOVES-PM_U	MBF_STOVES-SO2_U	MBF_STOVES-NOx_U	MBF_SINTER_H-PM_U	MBF_SINTER_T-PM_U	MBF_CHDS-PM_U	FCDS-PM_U	CEMENT_MILL-PM_U
1	Apr-25	13.51	13.16	17.36	22.7	7.85	-3.41	9.17	30.19	31.15	21.68	1.21	16.35	6.4
2	May-25	6.22	11.4	19.65	21.53	6.42	1.74	13.22	9.03	25.82	27.51	1.17	15.9	8.66
3	Jun-25	6.12	16.95	18.05	23.63	9.12	1.95	13.44	2.5	20.74	18.28	6.3	15.5	5.8
4	Jul-25	3.18	9.04	19.87	21.4	9.18	0.45	12.23	2.16	12.29	12.04	7.55	14.81	10
5	Aug-25	12.16	7.31	31.07	7.48	9.32	14.75	26.38	52.7	17.2	24.59	8.31	15.03	7.39
6	Sep-25	12.21	7.54	9.22	6.79	9.02	29.32	9.23	54.72	15.92	27.52	8.27	14.56	3.96

Sl No.	Time	CEMENT_R_MILL-PM_U	SDDS-PM_U	TPH_BOILER-PM_U	TPH_BOILER-SO2_U	TPH_BOILER-NOx_U	Stack_22_Zinc_Coating_dedusting_III-PM_U	Stack_18_Annealing_Furnace_I-PM_U	Stack_19_Annealing_Furnace_II-PM_U	Stack_29_Pipe_Cooling_AirVentSystem-PM_U	Stack_13_15TPH_Boiler_2_5MW-PM_U	Stack_13_15TPH_Boiler_2_5MW-SO2_U	Stack_13_15TPH_Boiler_2_5MW-NOx_U	Stack_37_Coke_Oven_3_Battery_CPP_3_Boiler-PM_U
1	Apr-25	20.94	2.44	9.52	118.3	77.66	22.46	16.1	13.85	19.22	6.71	21.18	32.93	7.57
2	May-25	12.46	4.28	11.53	120.96	77.74	10.1	16.33	13.77	22.63	5.41	36.74	45.03	6.4
3	Jun-25	3	10.42	8.58	117.24	78.31	19.03	16.17	14.15	20.22	5.14	40.45	52.64	12.49
4	Jul-25	2.53	15.22	14.83	128.97	77.89	28.59	20.15	14.8	12.56	5.42	37.46	57.89	9.22
5	Aug-25	20.27	15.19	24.65	130.45	74.75	11.78	22.68	15.85	16.57	5.68	42.35	62.45	8.43
6	Sep-25	23.28	5.36	22.28	122.17	74.03	12.01	5.6	17.89	13.62	6.14	40.55	34.78	11.05

Sl No.	Time	Stack_37_Coke_Oven_3_Battery_CPP_3_Boiler-SO2_U	Stack_37_Coke_Oven_3_Battery_CPP_3_Boiler-NOx_U	Stack_42_Coke_Oven_4_Battery_CPP_4_Boiler-PM_U	Stack_42_Coke_Oven_4_Battery_CPP_4_Boiler-SO2_U	Stack_42_Coke_Oven_4_Battery_CPP_4_Boiler-NOx_U	Stack_43_Submerged_Arc_Furnace-PM_U	Stack_17_attached_to_Annealing_furnace_III-PM - (mg/Nm3) Raw	Stack_18_Pipe_cooling_air_vent_system_to_annealing_furnace_III-PM - (mg/Nm3) Raw	Stack_43_CPP_Boiler_5 PM - (mg/Nm3) Raw	Stack_43_CPP_Boiler_5 SO2 - (mg/Nm3) Raw	Stack_43_CPP_Boiler_5 NOx - (mg/Nm3) Raw
1	Apr-25	12.53	6.54	4.43	68.55	53.83	6.2	4.39	13.6	5.92	14.36	22.43
2	May-25	15.04	6.77	10.32	69.43	53.28	4.68	11.67	15.42	7.55	17.84	20.85
3	Jun-25	11.81	5.02	15.43	69.42	53.14	6.9	10.15	15.5	6.23	24.59	16.38
4	Jul-25	12.28	6.74	8.63	41.08	36.04	6.41	30.23	15.19	5.14	8.23	22.49
5	Aug-25	33.31	13.69	6.92	51.55	62.4	8.82	33.2	12.12	4.95	9.06	23.32
6	Sep-25	19.77	37.67	5.87	45.14	44.58	10.73	17.87	9.05	10.03	9.05	13.03

ELECTROSTEEL CASTINGS LIMITED ★ RACHAGUNNERI ★

4.12.25

M/S Electrosteel Castings Ltd
Online AAQMS data Apr.25- Sep.25

Sl No.	Time	STATION_1-PM10_U	STATION_1-PM2.5_U	STATION_1-SO2_U	STATION_1-NOx_U	STATION_2-PM10_U	STATION_2-PM2.5_U	STATION_3-PM10_U	STATION_3-PM2.5_U
1	Apr-25	21.85	14.89	5.22	9.13	26.25	14.25	16.02	11.9
2	May-25	20.42	8.8	13.73	9.13	22.96	11.95	16.38	9.29
3	Jun-25	13.94	7.8	21.87	9.16	22.15	8.22	17.67	7.46
4	Jul-25	14.45	9.17	20.76	9.16	17.78	10.55	9.45	4.88
5	Aug-25	47.72	18.93	12.98	9.19	43.77	13.86	19.7	8.52
6	Sep-25	67.07	22.85	13.32	9.19	71.7	21.32	20.47	7.46

ELECTROSTEEL CASTINGS LIMITED ★ RACHAGUNNERI ★

4/12/25

Noise level in plant boundary and inside plant for the year 2025 - 26 (Apr'25 to Sep'25) - Electrosteel Castings Ltd-SW.													
S.No	Location	Apr-25		May-25		Jun-25		Jul-25		Aug-25		Sep-25	
		Day time (dbA)	Night time (dbA)	Day time (dbA)	Night time (dbA)	Day time (dbA)	Night time (dbA)	Day time (dbA)	Night time (dbA)	Day time (dbA)	Night time (dbA)	Day time (dbA)	Night time (dbA)
Plant Boundary (STD)		75	70	75	70	75	70	75	70	75	70	75	70
1	Near Security Main Gate	64.5	62.0	67.0	63.0	62	64	69	65	67	61	67.5	65
2	Near Brick plant	67.0	62.0	68.0	64.0	67	63	72	70	68	62	68	66
3	Near Railway Track (Rly. gate)	69.0	64.1	66.5	67.0	69.5	63.2	67	61	69	64	72.5	71.2
4	Rachagunneri village	64.2	61.3	63.6	61.8	66.4	62.4	67.4	62.5	67	64.3	64	62
5	Coke Oven 2nd Gate	71.2	69.5	72.3	69.1	72.4	70.5	71.8	70.2	70.1	63	70.5	69.3
6	Cow Shed	63.2	58.5	57.4	53.2	59	52	64.5	63.5	68	62	65	61
7	Near 3 rd gate	66.0	59.4	66.8	63.4	68	64.3	69.2	64.5	67.3	66.2	71.5	69.8
8	Near STP	69.5	63.2	63.4	62.3	67.4	62.5	66.3	62.1	67.5	63.5	64.2	66.5
9	Railway track opp MBF office	71.2	70.2	69.3	67.3	65.3	63.5	67.9	62.5	73.2	69.5	72.1	66.5
Plant Inside (STD)		85dbA		85dbA		85dbA		85dbA		85dbA		85dbA	
1	DIP Mould shop road side	83	80.6	84.2	81.2	82.3	80.3	81.7	80.2	83	81	83.6	80.2
2	Cold Zone office-DIP	81.2	80.6	82.1	82.6	83.6	81.7	82.0	81.2	79.8	80.5	81.2	80.6
3	MBF lab	71.2	65.9	73.5	71.2	78.6	73.2	73.6	71.4	79.3	71.5	80.2	79.3
4	Sinter plant control room building	78.4	71.2	83.2	80.2	75.6	74.5	77.2	74.2	81.6	79.8	83.2	79.2
5	Near Cement plant office	82.4	76.8	84.2	79.2	74.5	72.3	78.7	81	82.3	74.8	81.2	80
6	COP- Near Lab	72.6	70.6	78.6	72.4	78.6	73.1	77.4	72.5	78.9	70.6	73.6	70.4
7	Near CPP office Building	79.6	72.5	78.6	73.1	75.6	73.1	78.3	76.2	73.6	73.5	77.4	72.1

ELECTROSTEEL CASTINGS LIMITED ★ RACHAGUNNERI ★

4/12/25

Electrosteel Castings Limited-SW				
Plant Fugitive emission status from April.2025 to September.2025				
SNO	Division	Location	Fugitive Emission	
			Jun-25	Aug-25
			µgm/m3	µgm/m3
1	Spun pipe	Between Induction furnace & Spinning machine-Hot Zone	1245	1476
2		Near Zn coating machines-Cold Zone	1054	1289
3	Pig Iron Div	MBF Cast house	1542	1466
3		infront of MBF Lab	1145	1389
4		Near Sinter plant Control room	1645	1578
5		Raw Material Yard	1788	1857
6	Cement Div	Near Cement Plant Office	1024	1162
		Raw Material Yard	1845	1766
7	COP	Coke oven Main Gate	1202	1352
8		Coal piles Yard	1896	1744
9	12MW CPP	Near 12 CPP building	1124	1358

ELECTROSTEEL CASTINGS LIMITED ★ RACHAGUNNERI ★

6/12/25

M/S Electrosteel Castings Ltd-SW

Ground water analysis report	
Location: Solid waste storage area	
Date of Sampling: 10.07.2025	
Parameters	Result
PH	7.9
Total Dissolved Solids (mg/l)	1245
Total Hardness (mg/l)	312
Sulphates (mg/l)	27
Chlorides(mg/l)	202
Iron (mg/l)	0.03
Turbidity (mg/l)	0.12
Oil & Grease (mg/l)	0.1

6/12/25

ELECTROSTEEL CASTINGS LIMITED
RACHAGUNNERI

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TEST REPORT

I ISSUE TO:
M/s. Electrosteel Castings Ltd.
Rachagunneri (V), Srikalahasti (M),

Issue Date: 05.08.2025

Sample Registration No: 0769/07/25
Sample Collection Date: 30.07.2025
Sample Registration Date: 31.07.2025
Sample Particulars: NOISE LEVELS
Lab Ref: CL/N/0769/07/25-007/25

TEST RESULTS

S.No	Name of the location	Day Time in Leq Db(A) 11.00 am	Night Time in Leq Db(A) 22.30 pm	CPCB Standards Day(dB)	CPCB Standards Night(dB)
1.	3rd Gate	68.8	46.5	< 75	< 70
2.	Near Old STP	65.9	40.7		
3.	Near SPP	58.8	30.8		
4.	Cow Shed	69.7	40.5		
5.	COP 2nd Gate	71.3	39.8		
6.	Near STP	65.9	42.7		
7	Near Main Gate	64.1	40.1		

Note: As per CPCB Standard: Day Time: (6am-10pm) < 75, Night Time: (10pm-6am) < 70.

Instrument Details:-

Instrument	: Digital Sound Level meter
Make	: Lutron
Model / Sl No	: SL-4035 SD/Q672908
Calibration Due	: 14.02.2026

Checked By

CARE LABS Regd. No. 2461/65 Hyderabad-500 074.

Authorized Signatory

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TEST REPORT

ISSUE TO:
M/s. Electrosteel Castings Ltd.
Rachagunneri (V), Srikalahasti (M),

Issue Date: 05.08.2025

Sample Registration No: 0769/07/25
Sample Collection Date: 30.07.2025 **Sample Registration Date:** 31.07.2025
Analysis Starting Date: 31.07.2025 **Analysis Completed Date:** 05.08.2025
Sample Particulars: AMBIENT AIR QUALITY
Sampling location-1: Near CPP2 Gasket storage room **Lab Ref.** CL/AAQ/0769/07/25-001/25

TEST RESULTS

S .No	PARAMETERS	TEST METHOD	UNITS	RESULTS	NAAQ STANDARDS
1.	Average Flow Rate	--	m^3/min	1.34	--
2.	Particulate matter ($pm_{2.5}$)	IS:5182 (Part-24)2019	$\mu g/m^3$	45	< 60
3.	Particulate matter (pm_{10})	IS:5182 (Part-23)2022	$\mu g/m^3$	63	< 100
4.	Sulphur dioxide	IS:5182 (Part-2) 2022	$\mu g/m^3$	24	< 80
5.	Oxides of nitrogen	IS:5182 (Part-6) 2022	$\mu g/m^3$	30	< 80

NOTE:NAAQS: National AMBIENT AIR QUALITY Standards.

Instrument Details:-
Instrument : PM 2.5/PM 10 sampler
Model / Sl No : APM 154/39-DTB-2013
Make : LataEnvirotech
Calibration Due : 14.02.2026

Checked By

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Rachagunneri (V), Srikalahasti (M),

Issue Date: 05.08.2025

Sample Registration No: 0769/07/25
Sample Collection Date: 30.07.2025 **Sample Registration Date:** 31.07.2025
Analysis Starting Date: 31.07.2025 **Analysis Completed Date:** 05.08.2025
Sample Particulars: AMBIENT AIR QUALITY
Sampling location-2: Near Old STP **Lab Ref:** CL/AAQ/0769/07/25-002/25

TEST RESULTS

S .No	PARAMETERS	TEST METHOD	UNITS	RESULTS	NAAQ STANDARDS
1.	Average Flow Rate	--	m^3/min	1.40	--
2.	Particulate matter ($pm_{2.5}$)	IS:5182 (Part-24)2019	$\mu g/m^3$	40	< 60
3.	Particulate matter (pm_{10})	IS:5182 (Part-23)2022	$\mu g/m^3$	62	< 100
4.	Sulphur dioxide	IS:5182 (Part-2) 2022	$\mu g/m^3$	23	< 80
5.	Oxides of nitrogen	IS:5182 (Part-6) 2022	$\mu g/m^3$	34	< 80

NOTE:NAAQS: National AMBIENT AIR QUALITY Standards.

Instrument Details:-
Instrument : PM 2.5/PM 10 sampler
Model / Sl No : APM 154/11-DTB 2013
Make :LataEnvirotech
Calibration Due :14.02.2026

Checked By

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TEST REPORT

ISSUE TO:
M/s. Electrosteel Castings Ltd.
(Spun Pipe Division)
Rachagunneri (V), Srikalahasti (M),

Issue Date: 05.08.2025

Sample Registration No: 0769/07/25
Sample Collection Date: 30.07.2025 **Sample Registration Date:** 31.07.2025
Analysis Starting Date:31.07.2025 **Analysis Completed Date:** 05.08.2025
Sample Particulars: STACK EMISSION **Lab Ref:** CL /SK/0769/07/25 012/25
Sampling location-1:Stack Attached to Zinc Coating de-casting System - II

TEST RESULTS

Diameter of Stack (m) : 0.90
Cross Sectiinal Area (m^2) : 0.635
Flue Gas Temparature (^oC) : 48
Velocity (m/sec) : 10.26
Flow Rate (m^3/hr) : 23.454

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	CPCB STANDARDS
1.	Particulate Matter (PM)	IS 11255 (Part 1) - 2019	mg/Nm^3	35.6	< 100

Instrument Details:
Instrument : Stack Monitoring Kit
Make : Aero Vironment
Model / Sl No : SEA C 90WITH DGM/060307
Calibration Due : 14.02.2026

Checked By

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TEST REPORT

ISSUE TO:
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(Spun Pipe Division)
Rachagunneri (V), Srikalahasti (M),

Issue Date: 05.08.2025

Sample Registration No: 0769/07/25
Sample Collection Date: 30.07.2025 **Sample Registration Date:** 31.07.2025
Analysis Starting Date:31.07.2025 **Analysis Completed Date:** 05.08.2025
Sample Particulars: STACK EMISSION **Lab Ref:** CL/SK/0769/07/25-013/25
Sampling location-7: Stack Attached to Annealing furnace – III

TEST RESULTS

Diameter of Stack (m) : 1.4
Cross Sectiinal Area (m^2) : 1.538
Flue Gas Temparature (^oC) : 130
Velocity (m/sec) : 5.60
Flow Rate (m^3/hr) : 31,006

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	CPCB STANDARDS
1.	Particulate Matter (PM)	IS 11255 (Part 1) - 2019	mg/Nm^3	26.9	< 100

Instrument Details:
Instrument : Stack Monitoring Kit
Make : Aero Vironment
Model / Sl No : SEA C 90WITH DGM/060307
Calibration Due : 14.02.2026

Checked By

CARE LABS Regd. No. 2461/65 Hyderabad-500 074.

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TEST REPORT

ISSUE TO:
M/s. Electrosteel Castings Ltd.
(Pig Iron Division)
Rachagunneri (V), Srikalahasti (M),

Issue Date: 05.08.2025

Sample Registration No: 0769/07/25
Sample Collection Date: 30.07.2025 **Sample Registration Date:** 31.07.2025
Analysis Starting Date:31.07.2025 **Analysis Completed Date:** 05.08.2025
Sample Particulars: STACK EMISSION
Sampling location-4:Stack Attached to Sinter Head ESP System -1 Lab Ref: CL/SK/0769/07/25-004/25

TEST RESULTS

Diameter of Stack (m) : 2.50
Cross Sectiinal Area (m^2) : 4.80
Flue Gas Temparature (^oC) : 120
Velocity (m/scc) : 10.10
Flow Rate (m^3/hr) : 1,74,528

S NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	CPCB STANDARDS
1.	Particulate Matter (PM)	IS 11255 (Part 1) - 2019	mg/Nm^3	52.1	< 100

Instrument Details:
Instrument : Stack Monitoring Kit
Make : Aero Vironment
Model / Sl No : SEA C 90WITH DGM/060307
Calibration Due : 14.02.2026

Checked By

CARE LABS Regd. No. 2461/65 Hyderabad-500 074.

Authorized Signatory

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TEST REPORT

ISSUE TO:
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(Pig Iron Division)
Rachagunneri (V), Srikalahasti (M),

Issue Date:05.08.2025

Sample Registration No: 0769/07/25
Sample Collection Date: 30.07.2025 **Sample Registration Date:** 31.07.2025
Analysis Starting Date: 31.07.2025 **Analysis Completed Date:** 05.08.2025
Sample Particulars: STACK EMISSION **Lab Ref:** CL/SK/0769/07/25-001/25
Sampling location-1:Stack Attached to the 1 x 4 Stoves

TEST RESULTS

Diameter of Stack(m)	: 1.53
Cross SectiinalArea(m^2)	: 1.837
Flue Gas Temparature(^oC)	: 120
Velocity (m/sec)	: 11.30
Flow Rate (m^3/hr)	: 74,729

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	CPCB STANDARDS
1.	Particulate Matter (PM)	IS 11255 (Part 1)- 2019	mg/Nm^3	41	< 50
2.	Sulphur Di oxide	IS 11255 (Part 2)- 2019	mg/Nm^3	60	<250
3.	Oxides of Nitrogen (NO_x)	IS 11255 (Part 7)- 2022	mg/Nm^3	28	<150
4.	Carbon Monoxide (CO)	CPCB Guidelines	ppm	30	--

Instrument Details:

Instrument	: Stack Monitoring Kit
Make	: Aero Vironment
Model / Sl No	: SEA C 90WITH DGM/060307
Calibration Due	: 14.02.2026

Checked By

CARE LABS Regd. No. 2461/65 Hyderabad-500 074.

Authorized Signatory

Care Labs
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(Estd : 2005)
Recognised by Ministry of Environment Forest & Climate Change, Govt. of India
An NABL Accredited Laboratory in Chemical & Biological Scope. TC - 12742
Food Safety Standards Authority of India, Govt. of India
An ISO 45001 : 2018 Certified Laboratory

Corp. off. : # 3-11-482/2, Plot No. 1, 3rd Floor, Sai Sadan Complex, Shiva Ganga Colony, L.B. Nagar, Hyd-500 074.
Branches : Vijayawada, Vizag & Bangalore
Office Contact. : 9966375550
Mobile : 9347237845
E-mail : mail2carelabs@gmail.com
Web : www.carelabs.in

TEST REPORT

ISSUE TO:
M/s. Electrosteel Castings Ltd.
(Cement Division)
Rachagunneri (V), Srikalahasti (M),

Issue Date: 05.08.2025

Sample Registration No: 0769/07/25
Sample Collection Date: 31.07.2025 **Sample Registration Date:** 01.08.2025
Analysis Starting Date: 01.08.2025 **Analysis Completed Date:** 05.08.2025
Sample Particulars: STACK EMISSION **Lab Ref:** CL/SK/0769/07/25-C01/25
Sampling location-1:Stack Attached to the Cement mill

TEST RESULTS

Diameter of Stack(m) : 0.60
Cross Sectional Area(m^2) : 0.283
Flue Gas Temparature(^oC) : 132
Velocity (m/sec) : 10.50
Flow Rate (m^3/hr) : 10,697

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	CPCB STANDARDS
1.	Particulate Matter (PM)	IS 11255 (Part 1) - 2019	mg/Nm^3	44.1	< 100

Instrument Details:
Instrument : Stack Monitoring Kit
Make : Aero Vironment
Model / Sl No : SEA C 90WITH DGM/060307
Calibration Due : 14.02.2026

Checked By

CARE LABS Regd. No. 2461/65 Hyderabad-500 074.

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TEST REPORT

ISSUE TO:
M/s. Electrosteel Castings Ltd.
(Power Plant Division)
Rachagunneri (V), Srikalahasti (M),

Issue Date:05.08.2025

Sample Registration No: 0769/07/25
Sample Collection Date: 01.08.2025 **Sample Registration Date:** 02.08.2025
Analysis Starting Date:02.08.2025 **Analysis Completed Date:** 05.08.2025
Sample Particulars: STACK EMISSION
Sampling location-3: Stack Attached to 16.2 TPH Power Plant Boiler- IV
(With Coke oven IV thBattery) **Lab Ref:** CL/SK/0769/07/25-004/25

TEST RESULTS

Diameter of Stack (m) : 2.4
Cross Sectiinal Area (m^2) : 4.35
Flue Gas Temparature (^oC) : 158
Velocity (m/sec) : 4.50
Flow Rate (m^3/hr) : 70,470

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	CPCB STANDARDS
1.	Particulate Matter (PM)	IS 11255 (Part 1)- 2019	mg/Nm^3	36.9	< 50
2.	Carbon Monoxide (CO)	CPCB Guidelines	ppm	48.5	--
3.	Sulphur Di oxide (SO_2)	IS 11255 (Part 2)- 2019	mg/Nm^3	36.1	< 600
4.	Oxides of Nitrogen (NO_2)	IS 11255 (Part 7) - 2017	mg/Nm^3	41.2	< 300

Instrument Details:
Instrument : Stack Monitoring Kit
Make : Aero Vironment
Model / Sl No : SEA C 90WITH DGM/060307
Calibration Due : 14.02.2026

Checked By

CARE LABS Regd. NO. 2461/65

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Web : www.carelabs.in

TEST REPORT

ISSUE TO:
M/s. Electrosteel Castings Ltd.
(Power Plant Division)
Rachagunneri (V), Srikalahasti (M),

Issue Date:05.08.2025

Sample Registration No: 0769/07/25
Sample Collection Date: 01.08.2025 **Sample Registration Date:** 02.08.2025
Analysis Starting Date:02.08.2025 **Analysis Completed Date:** 05.08.2025
Sample Particulars: STACK EMISSION
Sampling location-3: Stack Attached to CPP Boiler- V (18.9 TPH)
(With Coke oven V thBattery) **Lab Ref:** CL/SK/0769/07/25-004/25

TEST RESULTS

Diameter of Stack (m) : 2.4
Cross Sectiinal Area (m^2) : 5.30
Flue Gas Temparature (^oC) : 150
Velocity (m/sec) : 5.60
Flow Rate (m^3/hr) : 1,06,848

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	CPCB STANDARDS
1.	Particulate Matter (PM)	IS 11255 (Part 1)- 2019	mg/Nm^3	29.3	< 50
2.	Carbon Monoxide (CO)	CPCB Guidelines	ppm	45.7	--
3.	Sulphur Di oxide (SO_2)	IS 11255 (Part 2)- 2019	mg/Nm^3	56.9	< 600
4.	Oxides of Nitrogen (NO_2)	IS 11255 (Part 7) - 2017	mg/Nm^3	42.8	< 300

Instrument Details:
Instrument : Stack Monitoring Kit
Make : Aero Vironment
Model / Sl No : SEA C 90WITH DGM/060307
Calibration Due : 14.02.2026

Checked By

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TEST REPORT

ISSUE TO:
M/s. Electro steel Castings Ltd.
(Ferro Alloy Plant)
Rachagunneri (V), Srikalahasti (M),

Issue Date: 05.08.2025

Sample Registration No: 0769/07/25
Sample Collection Date: 01.08.2025 **Sample Registration Date:** 02.08.2025
Analysis Starting Date: 02.08.2025 **Analysis Completed Date:** 05.08.2025
Sample Particulars: STACK EMISSION **Lab Ref:** CL/SK/0769/07/25-001/25
Sampling location-1: Stack Attached to Submerged Arc furnace

TEST RESULTS

Diameter of Stack (m) : 2.5
Cross Sectional Area (m^2) : 5.10
Flue Gas Temperature (^0C) : 102
Velocity (m/sec) : 12.96
Flow Rate (m^3/hr) : 2,37,945

S.NO	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	CPCB STANDARDS
1.	Particulate Matter (PM)	IS 11255 (Part 1)- 2019	mg/Nm^3	35.8	< 50

Instrument Details:
Instrument : Stack Monitoring Kit
Make : Aero Vironment
Model / Sl No : SEA C 90WITH DGM/060307
Calibration Due : 14.02.2026

Checked By

CARE LABS Regd. No. 2461/65 Hyderabad-500 074.

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Web : www.carelabs.in

TEST REPORT

ISSUE TO:
M/s. Electrosteel Castings Ltd.
Rachagunneri (V), Srikalahasti (M),

Issue Date: 05.08.2025

Sample Registration No: 0769/07/25-001
Sample Collection Date: 30.07.2025
Sample Registration Date: 31.07.2025
Analysis Starting Date: 31.07.2025
Analysis Completion Date: 05.08.2025
Sample Description:
Discipline: Chemical
Group: Waste Water
Sample Particulars: ETP inlet Water
Sample Quantity & Condition: 500ml ×1 No & Intact
Sample Collected By: Care Labs Representative (Kumar)
Lab Ref: CL/W/0769/07/25-001/25

TEST RESULTS

S. No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS
1.	pH	APHA-4500-B	--	7.5
2.	Total Dissolved Solids	APHA-2540-C	mg/l	2,320
3.	Total Suspended Solids	APHA-2540-D	mg/l	91
4.	Chemical oxygen demand	APHA-5220.B	mg/l	620
5.	Biochemical oxygen demand (3 days at 27°C)	IS:3025(Pt-44)	mg/l	174
6.	Chlorides as Cl	APHA-4500-Cl-B	mg/l	365
7.	Sulphates as SO_4	IS:3025(Pt-24)	mg/l	188.2
8.	Oil & Grease	APHA-5520.B	mg/l	20

IS-Indian Standard, **APHA**-American Public Health Association.
Sample not drawn by us.

~ END OF THE REPORT~

Checked By

CARE LABS Regd. No. 246165 Hyderabad

Authorized Signatory

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Mobile : 9347237845
E-mail : mail2carelabs@gmail.com
Web : www.carelabs.in

TEST REPORT

ISSUE TO:
M/s. Electro steel Castings Ltd.
Rachagunneri (V), Srikalahasti (M),

Issue Date: 05.08.2025

Sample Registration No:0769/07/25-002

Sample Collection Date: 30.07.2025

Sample Registration Date: 31.07.2025

Analysis Starting Date: 31.07.2025

Analysis Completion Date: 05.08.2025

Sample Description:

Discipline: Chemical

Group: Waste Water

Sample Particulars: ETP Outlet Water

Sample Quantity & Condition: 500ml ×1 No & Intact

Sample Collected By: Care Labs Representative (Hari Babu)

Lab Ref: CL/W/0769/07/25-002/25

TEST RESULTS

S.No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	As Per APPCB STANDARDS
1.	pH	APHA-4500-B	--	7.4	5.5-9.0
2.	Total Dissolved Solids	APHA-2540-C	mg/l	1,893	Not Specified
3.	Total Suspended Solids	APHA-2540-D	mg/l	20	Max 100
4.	Chemical oxygen demand	APHA-5220.B	mg/l	30	Max 250
5.	Biochemical oxygen demand (3 days at 27°C)	IS:3025(Pt-44)	mg/l	8.0	Max 30
6.	Chlorides as Cl	APHA-4500-Cl-B	mg/l	134	Not Specified
7.	Sulphates as SO_4	IS:3025(Pt-24)	mg/l	89.5	Not Specified
8.	Oil & Grease	APHA-5520.B	mg/l	2.0	Max 10

IS-Indian Standard, **APHA**-American Public Health Association.
Sample not drawn by us.

~ END OF THE REPORT~

Checked By

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TEST REPORT

ISSUE TO:
M/s. Electrosteel Castings Ltd.
Rachagunneri (V), Srikalahasti (M),

Issue Date: 05.08.2025

Sample Registration No:0769/07/25-003
Sample Collection Date: 30.07.2025
Sample Registration Date: 31.07.2025
Analysis Starting Date: 31.07.2025
Analysis Completion Date: 05.08.2025
Sample Description:
Discipline: Chemical
Group: Waste Water
Sample Particulars: STP Inlet Water
Sample Quantity & Condition: 500ml ×1 No & Intact
Sample Collected By: Care Labs Representative (Hari Babu)
Lab Ref: CL/W/0769/07/25-003/25

TEST RESULTS

S. No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS
1.	pH	APHA-4500-B	--	7.5
2.	Total Dissolved Solids	APHA-2540-C	mg/l	1,560
3.	Total Suspended Solids	APHA-2540-D	mg/l	42
4.	Chemical oxygen demand	APHA-5220.B	mg/l	310
5.	Biochemical oxygen demand (3 days at 27°C)	IS:3025(Pt-44)	mg/l	88
6.	Chlorides as Cl	APHA-4500-Cl-B	mg/l	230
7.	Sulphates as SO_4	IS:3025(Pt-24)	mg/l	96.7
8.	Oil & Grease	APHA-5520.B	mg/l	22

IS-Indian Standard, **APHA**-American Public Health Association. Sample not drawn by us.

~ END OF THE REPORT~

Checked By

CARE LABS Regd. No. 246165 Hyderabad

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Web : www.carelabs.in

TEST REPORT

ISSUE TO:
M/s. Electrosteel Castings Ltd.
Rachagunneri (V), Srikalahasti (M),

Issue Date: 05.08.2025

Sample Registration No:0769/07/25-004

Sample Collection Date: 30.07.2025

Sample Registration Date: 31.07.2025

Analysis Starting Date: 31.07.2025

Analysis Completion Date: 05.08.2025

Sample Description:

Discipline: Chemical

Group: Waste Water

Sample Particulars: STP Outlet Water

Sample Quantity & Condition: 500ml ×1 No & Intact

Sample Collected By: Care Labs Representative (Hari Babu)

Lab Ref: CL/W/0769/07/25-004/25

TEST RESULTS

S.No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS	As Per APPCB STANDARDS
1.	pH	APHA-4500-B	--	7.1	5.5-9.0
2.	Total Dissolved Solids	APHA-2540-C	mg/l	1,046	Not Specified
3.	Total Suspended Solids	APHA-2540-D	mg/l	8.0	Max 100
4.	Chemical oxygen demand	APHA-5220.B	mg/l	90	Max 250
5.	Biochemical oxygen demand (3 days at 27°C)	IS:3025(Pt-44)	mg/l	24	Max 30
6.	Chlorides as Cl	APHA-4500-Cl-B	mg/l	130	Not Specified
7.	Sulphates as SO_4	IS:3025(Pt-24)	mg/l	52.8	Not Specified
8.	Oil & Grease	APHA-5520.B	mg/l	4.0	Max 10

IS-Indian Standard, **APHA**-American Public Health Association.

~ END OF THE REPORT~

Checked By

CARE LABS Regd. No. 246165 Hyderabad

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TEST REPORT

ISSUE TO:
M/s. Electrosteel Castings Ltd.
(Power Plant Division)
Rachagunneri (V), Srikalahasti (M),

Issue Date: 05.08.2025

Sample Registration No:0769/07/25-005

Sample Collection Date: 30.07.2025 **Sample Registration Date:** 31.07.2025

Analysis Starting Date: 31.07.2025 **Analysis Completion Date:** 05.08.2025

Sample Description:

Discipline: Chemical

Group: Waste Water

Sample Particulars: Waste Water from Neutralization Pit (12 MW CPP)

Sample Quantity & Condition: 500ml ×1 No & Intact

Sample Collected By: Care Labs Representative (Hari Babu) **Lab Ref:** CL/W/0769/07/25-005/25

TEST RESULTS

S.No	TEST PARAMETERS	TEST METHOD	UNITS	RESULTS
1.	pH	APHA-4500-B	--	7.1
2.	Total Dissolved Solids	APHA-2540-C	mg/l	2,010
3.	Total Suspended Solids	APHA-2540-D	mg/l	18
4.	Chemical oxygen demand	APHA-5220.B	mg/l	40
5.	Biochemical oxygen demand (3 days at 27°C)	IS:3025(Pt-44)	mg/l	10
6.	Chlorides as Cl	APHA-4500-Cl-B	mg/l	220
7	Sulphates as SO_4	IS:3025(Pt-24)	mg/l	105.3
8	Oil & Grease	APHA-5520.B	mg/l	2.0

IS-Indian Standard, **APHA**-American Public Health Association.

~ END OF THE REPORT~

Checked By

CARE LABS Regd. No. 246165 Hyderabad

Authorized Signatory

Electrosteel Hosts Valedictory Ceremony for Skill Development Programme

April 16, 2025 – Srikalahasthi:

Electrosteel Castings Limited (ECL), a renowned manufacturer of Ductile Iron Pipes and Fittings, hosted a Valedictory Ceremony for the second batch of its Beautician Skill Development Programme, conducted under its CSR initiatives. During the event, 40 women were awarded certificates for completing the course, while 30 new participants were inducted into the third batch.

Smt. N. Mourya, IAS, Municipal Commissioner of Tirupati, attended as Chief Guest and stressed the significance of financial independence for women through skill-based education. ECL-SW leadership reaffirmed the company's dedication to women empowerment, sustainable resource management, and innovative reuse of industrial by-products.

As part of the visit, the Commissioner toured the Sewage Treatment Plant, where treated water sourced from the Tirupati Municipal Corporation is utilized for industrial purposes—an initiative aimed at conserving groundwater and supporting the agricultural community.

Through various CSR efforts, ECL remains deeply committed to fostering health, hygiene, education, infrastructure, and livelihood opportunities in the communities around Srikalahasthi.


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25
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OF
DI PIPES
BY ELECTROSTEEL GROUP


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ELECTROSTEEL
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CASTINGS LIMITED
SRIKALAHASTHI WORKS
ECL-SW

...Aluru (V) Tadipatri ...
P.J. charcoal vide DFO. ATP. RC.No 128/2023/G11 ...
...12.2025

Glw 15/11/2025
Forest Range Officer
Gooty

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FORM-II

(See rule 5 of the Andhra Pradesh Forest Produce Transit Rules, 1970.)

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Permit No. 1020923 Book No. 20419

Ref. To INVOICE No. & Date

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By whom issued
i. Name S.B. Jagannatham
ii. Designation Forest Section officer Mutchukota

To Whom issued
Name Sri T. Siva Sankar
Father's Name T. Kotta Rangiah.
Village R/o. Aluru (V)
Mandal Tadipatri (M)
District Ananthapuram Dist.

Description of Forest Produce
Detailed measurement to be given
(the invoice enclosed)
Type of Produce – PJ Charcoal
Species – Prosophic's
Numbers 400 bag's

TIMBER/POLES/FIREWOOD/BAMBOO
CHARCOAL/MINOR FOREST PRODUCE
( ) in words [Four hundred bag's only]
( )
( ) Cmt.
in words ( )

Quantity 26020 k.g

Govt. transit mark/Private property mark SSR

...e of consignment
Locality Sy.No:- 248-C1.
Village, Chukkaluru (V)
Mandal Tadipatri (M)
District Ananthapuram Dist.
...ation
Locality Electro Steel Casting's. LTd.
Village, Rachaganneri (V)
Mandal Srikalahasti (M)
District Tirupathi Dist.
...f Transport → Tadipatri, Muddanur, Mydkur, Badvel, Rampu... Venkatagiri, Yerpadu.

Time of issue of permit
10:00AM
22/11/2025
Valid upto
11:00PM
23/11/2025
...y check points All forest Check posts

...rmit holder is advised to note that validity of permit is subject to Andhra Pradesh Forest Product ...Rules, 1970.
...ching destination, the forest produce should be got verified by nearest Forest Officer and attested.
...olumn in the permit if left blank, permit is treated as invalid.

...kaluru
...2025

...Officer ... Forest Officer

S.B. Jagannatham
22/11/25
Signature and Designation of Issuing authority
Forest Section officer
Mutchukota