रेल पहिया कारखाना
RAIL WHEEL FACTORY
(भारतीय रेल / Indian Railways)

प्रधान मुख्य यांत्रिक इंजीनियर
का कार्यालय
यलहंका, बेंगलूरु - 560064
Office of the
Principal Chief Mechanical Engineer
Yelahanka, Bangalore - 560 064

RWF/M/HQ/Env/62/EC

Dt. 19.05.2026

To,

Additional Principal Chief Conservator of Forests (C),
Ministry of Environment & Forests and Climate Change,
Regional Office (Southern Zone),
Kendriya Sadan, 4th Floor, E & F Wings,
17th Main Road, Koramangala II Block,
Bengaluru -560 034

Dear Sir,

Sub: Submission of six-monthly compliance report to EC condition.

Ref: Environmental clearance File No. F No. IA-J-11011/130/2022-IA-II (IND-I) dated 23/04/2024 & Subsequent EC amendment Dt. 10.02.2026

******

Vide above reference the Ministry of Environment Forest & Climate Change (MOEF&CC) has granted Environmental Clearance for increasing our Axle production capacity from 75,000 axles/annum (36,750 Tonnes) to 1,65,000 axles/annum (80,850 MT), along with maintaining existing capacity of Wheel shop of 97,000 MT at our manufacturing facility at Yelahanka, Bengaluru.

In this regard, we are submitting the six-monthly compliance report along with the annexures, for the period **October 2025 to March 2026**, for your kind consideration.

19.5.26.

(Govind Pandey)
Chief Environment Officer &
Chief Mechanical Engineer Planning

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Yelahanka, Bengaluru - 560 064

SIX MONTHLY COMPLIANCE REPORT FOR STIPULATED CONDITIONS TO ENVIRONMENTAL CLEARANCE

(MONITORING PERIOD: OCTOBER 2025 TO MARCH 2026)

Prepared for

"INCREASING OF PRODUCTION CAPACITY OF AXLES FROM 75,000 AXLES/ANNUM (36,750 TONNES) TO 1,65,000 AXLES/ANNUM (80,850 TONNES) & EXISTING CAPACITY OF WHEEL SHOP OF 97,000 TONNES"

AT

PUTTENAHALLI VILLAGE & YELAHANKA VILLAGE, DODDABALLAPUR ROAD, YELAHANKA HOBLI, BENGALURU NORTH TALUK, BENGALURU DISTRICT, KARNATAKA

PROJECT BY,

M/s. RAIL WHEEL FACTORY

RAIL WHEEL FACTORY, BENGALURU URBAN, KARNATAKA- 560064.

Prepared By,

AM ENVIRO ENGINEERS

[ISO 9001-2015 CERTIFIED COMPANY]

(QCI/NABET Accreditation No. NABET/EIA/2326/RA 0306_Rev 01)

No. 90/1, 2nd FLOOR, RATHNAVILAS ROAD, BASAVANAGUDI, BENGALURU - 560 004

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Yelahanka, Bengaluru - 560 064

DETAILS OF THE PROJECT

1.	File No.	**IA-J-11011/130/2022-IA-II(IND-I)**
2.	Project name & Type	**Increasing of production capacity of Axles from 75,000 axles/annum (36,750 Tonnes) to 1,65,000 axles/annum (80,850 Tonnes) & Existing capacity of Wheel shop 97,000 Tonnes**
3.	Project Location	Puttenahalli Village & Yelahanka Village, Doddaballapur Road, Yelahanka Hobli, Bengaluru North Taluk, Bengaluru District, Karnataka.
4.	Name of the project proponent	**M/s. Rail Wheel Factory** Rail Wheel Factory, Bengaluru Urban, Karnataka, 560064
5.	Total Plot Area	77.25 Ha (190.91 Acres)
6.	Green Belt area	Existing: 2,82,200.0 sqm
7.	Production Details (Existing+Proposed)	Wheel: 2,00,000 Nos/Annum (97000TPA) Axle: 1,65,000 Nos/Annum (80850 TPA)
8.	Cost of the project	453.13 Crores
9.	DG Set	Existing: 1X24000 kVA & 2X1750 kVA Proposed: Nil
10.	Water and Power requirement	(Total) Water -742 KLD, Power –25 MW
11.	Monitoring period	April to September2025
12.	Status of the project	Industry is in operation phase. The proposed expansion has been completed and in operational phase. CFO Expansion obtained from State Pollution Board KSPCB on 23.06.2025.

COMPLIANCE TO EC CONDITIONS

Sl. No.	Conditions	Compliance to Condition
I.	**Specific Condition:**	
i.	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.	Agreed.
ii.	The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.	Noted and all the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project will be implemented.
iii.	The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.	Noted and will be followed. Carbon sequestration via Afforestation, Carbon reduction measures via clean fuel adoption (HSD to PNG) have been implemented.
iv.	There are sensitive areas exists within the study area of the project site. Proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. PP needs to strengthen green belt all around the plant area to reduce the dust pollution. The PP shall also include some of these locations in its environmental monitoring programme.	M/s. Rail wheel factory has a green covered area with 46,000 trees (accounted). Measures like upgradation of fume extraction systems, mist sprays, greenbelt through Miyawaki plantaion with 35000 saplings have been takenup to reduce the dust pollution. The Green Belt Development photographs are as shown below.

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Sl. No.	Conditions	Compliance to Condition
		 Miyawaki plantation   Native trees around the plant campus

Sl. No.	Conditions	Compliance to Condition
v.	PP shall implement mitigation measures to prevent any impacts on the Puttenahalli Lake Birds Conservation Reserve.	Being a central government institution RWF doesn't have the provision of CSR funds. Within the project premises activities and measures are being taken up to aid and mitigate impacts on birds and create awareness towards conservation. Periodic Awareness sessions on birds, bird watching workshops for KV kids and staff through reputed ornithologist are being organized.
vi.	Yelahanka Lake is at a distance of 98 m in East and Puttenehalli Lake at 136 in West along with other water bodies near within the study area. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.	The Drainage Conservation scheme is being implemented to protect natural drainage and its flow parameters, alongside soil conservation efforts and various erosion control measures. Additionally, tree plantation on slopes and storm water diversion for water harvesting are being integrated into the plan.
vii.	The total water requirement of 75 m^3 shall be sourced through BWSSB treated water source and open wells. PP shall obtain necessary permission from the Competent Authority. PP shall also explore the possibility to shift to alternate source of water for meeting its requirement to reduce the dependency on ground water.	The total water requirement for the project is being met through the BWSSB supply of treated water and on-site open wells, for which requisite permissions have been obtained from the competent authorities. The BWSSB agreement for the supply of recycled water, along with the latest water bill, has been enclosed as Annexure I.
viii.	Three tier Green Belt shall be developed in at least 33% of total project area in a period of 1 year with native species all along the periphery of the project site of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on	The industry has developed greenbelt around the plant boundary in an area of 2,82,200 sqm (36.54% of total site area). Afforestation programs through Miyawaki method 35,300 saplings have been planted in FY 2024-25 and are being maintained. Further, monthly plantation by retiring staff and visiting dignitaries are being organised periodically.

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Sl. No.	Conditions	Compliance to Condition
	periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. PP shall develop greenbelt in the form of shelter belt comprising of total of 6 rows of 2x2 m plantation with tall trees & broad leaves with thick canopy along with windshield inside the plant premises to act as green barrier for air pollution & noise levels towards sensitive areas. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.	 
ix.	All the commitments made towards socio-economic development of the nearby villages shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 amounting to Rs. 7 Crores shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.	Adoption of nearby villages under Corporate Environment Responsibility (CER) was recommended. RWF being a central government entity directly under the Ministry of Railways, has no provision for CSR/CER funds has regulation which limits the use of funds outside industry premises. The same was conveyed during the 53rd EAC meeting and environmental management activities within the project premises were proposed.

Sl. No.	Conditions	Compliance to Condition
x.	The PP shall undertake village adoption programme and prepare and implement the action plan to develop them into a model village.	
A	**General Conditions**	
I.	**Statutory compliance:**	
i.	The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.	Noted.
ii.	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.	Noted.

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Sl. No.	Conditions	Compliance to Condition
II.	**Air quality monitoring and preservation**	
i.	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 04 Nos. Continuous Ambient Air Quality Station (CAAQMS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	The process of procurement and installations of CEMS and a CAAQMS station is under progress, Procurement tender for the same has been floated and once installed they will be connected to online servers of PCB.
ii.	The project proponent shall carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx emissions) within and outside the plant area (at least at four locations one within and three outside the plant), covering upwind and downwind directions	The Stack and ambient air quality monitoring reports of existing point sources are attached as **Annexure-II.**
iii.	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	The fugitive emissions in the plant premises is being monitored at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.

Sl. No.	Conditions	Compliance to Condition
iv.	Sampling facility at process stacks shall be provided as per CPCB guidelines for manual monitoring of emissions.	Port holes and platforms are provided to carry out sampling facility at process stacks. Some photographs of port hole and platform provided are shown below.



Picture showing DG sets stacks.





Primary and Secondary fume extraction system.

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Sl. No.	Conditions	Compliance to Condition
v.	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.	Appropriate air pollution control system has been provided for existing and proposed vulnerable sources. Details of air pollution sources, stack height and air pollution control equipment are attached as **Annexure IV.** **Upgradation of primary fume extraction system of Electric Arc furnace have been proposed and the details are enclosed.**
vi.	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	For better maintenance of bags, the applicant has provided leakage detection and mechanized bag cleaning facilities. De-dusting through pulsing with 7kg air pressure for fume extraction system baghouses has been provided.
vii.	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	Noted and is being followed.
viii.	Ensure covered transportation and conveying of raw material to prevent spillage and dust generation. The project proponent uses leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.	The trucks carrying dusty materials and other raw materials are covered with tarpaulin while transporting. The raw materials are stored in a designated area to mitigate dust generation.  **Picture showing the materials are covered during transportation.**

Sl. No.	Conditions	Compliance to Condition
		  **Pictures showing Raw materials storage area.**
ix.	The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.	All the heat treatment furnaces have been converted from HSD to PNG. The APC measures have been implemented.
x.	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.	Noted.
xi.	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.	Noted. Adequate ventilations as per norms been provided additionally, Cold fresh air ventilation systems at steel melt and molding shop have been provided to aid better work environment have been installed.

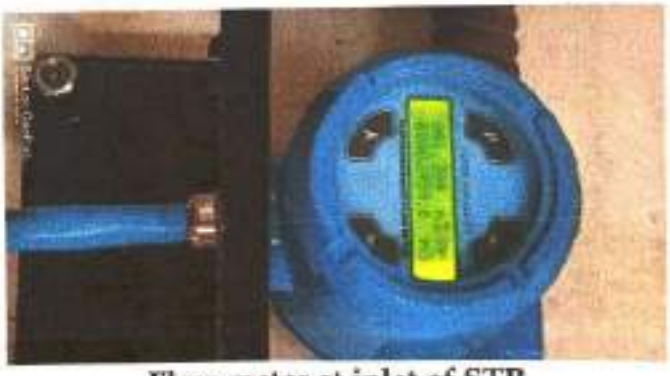
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Sl. No.	Conditions	Compliance to Condition
xii.	Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.	Agreed and followed.
xiii.	The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured & operated regularly inside the project premises to arrest suspended dust in the atmosphere.	All air pollution mitigation measures are taken by installing Mechanical collectors, wet scrubbers, fabric filters, etc. and has converted all its Oil-fired furnaces to PNG. Fog & mist spray are being installed at strategic locations to arrest suspended dust. Procurement of 4 Nos of mist canons and 5 Nos of mist fans are under progress.
xiv.	Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.	Noted and is being followed.
xv.	Water Sprinklers/Water mist system shall be installed near raw material yards, operational units and other strategic locations to control fugitive emissions from the plant.	Noted and is being followed.  **Pictures showing water mist system installed near operational units.**

Sl. No.	Conditions	Compliance to Condition
xvi.	The particulate matter emissions from the process stacks shall be less than 30 mg/Nm^3 and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed.	Noted the monitoring reports are attached as **Annexure-II.** Measures like upgradation of primary fume extraction systems, mist canons at strategic locations, conversion of all the oil-d furnacesto PNG have been taken to mitigate the particulate emissions.
xvii.	Following additional arrangements to control fugitive dust shall be provided: a. Fog / Mist Sprinklers at all on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas. b. Proper covered vehicle shall be used while transport of materials. c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.	Additional measures like Fresh Air Ventilation Systems have been installed in the Steel Melt Shop and Mould Room to enhance the working environment, as these areas are particularly susceptible to heat and dust generation. Furthermore, vehicles transporting materials are adequately covered to prevent dust dispersion during transit. A photograph of the properly covered vehicle is provided below as evidence of compliance. 

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Sl. No.	Conditions	Compliance to Condition
		 Picture showing the mist sprinklers
III.	**Water quality monitoring and preservation**	
i.	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment Rules 1986 as amended from time to time and connected to PCB online servers and calibrate these system from time to tim through labs recognized under Environmen Act or NABL accredited.	RWF has adopted Zero effluent generation process. The process water is used only for cooling is circulated in a closed loop circuit.
ii.	The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.	Noted and is followed. The ground water quality monitoring reports are attached as **Annexure-III.**
iii.	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.	Complied. The storm water drains have been channelized to low-lying area of the plant.

Sl. No.	Conditions	Compliance to Condition
		The ponds (collection pits) are created to harvest the rainwater and utilize the same for process water requirement. The periodic desilting and cleaning of these ponds are ensured and they act collection pits ensuring runoff is not let outside plant premises.  **Rejuvenating water bodies/collection pits constructed within project site.**
iv.	Water meters shall be provided at the inlet to all unit processes in the plants.	Complied. Water meters have been provided to all major process consumption units.  **Flow meter at inlet of STP**  **Flow meter at outlet of STP.**

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Sl. No.	Conditions	Compliance to Condition
v.	The project proponent shall make efforts to minimize water consumption in the plant complex by segregation of used water, practicing cascade use and by recycling treated water.	Recycled water from STP is being reused within the industrial premises. To reduce the freshwater consumption the industry has adopted rainwater-harvesting system within the industrial premises. Water efficiency measures like water less urinals, aerators for the taps have been implemented.
vi.	The proposed project shall be designed as "Zero Liquid Discharge" Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. Suitable measures shall be adopted for sewage water handling to ensure no contamination of any kind of water body.	The industry has implemented a Zero Liquid Discharge (ZLD) approach, ensuring no process effluent is generated. The domestic sewage generated within the premises is treated in the in-house STP, and the treated wastewater is fully reused for on-site landscaping and gardening activities.
vii.	All stockyards shall have impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains and catch pits to trap the run off material and shall be implemented as per the action plan submitted in EIA/EMP report.	Noted. Impervious concrete flooring for all the rawmaterials as well as waste stock yards is being taken up. The Oil collection traps/pits in the waste oil sheds, the catch pits for storm water runoff have been implemented.
viii.	Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.	To optimize rainwater utilization, mega rainwater harvesting systems have been introduced to collect and filter rainwater directly from the factory's rooftop. The harvested rainwater is then directed into the cooling water system. This innovative approach eliminates the need for additional energy consumption through pumping to replenish the cooling water circuit. In areas where the cooling water line and plant roof are in close proximity,

Sl. No.	Conditions	Compliance to Condition
		Mega Rainwater Harvesters with filtration systems have been installed. These systems collect the rainwater runoff from the roof and directly recharge the utility system, ensuring an efficient and sustainable water management solution  Picture showing Roof top harvesters.   Rainwater harvesting Ponds

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Sl. No.	Conditions	Compliance to Condition
ix.	The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R 277 (E) 31st March 2012 (applicable to IF/EAF) as amended from time to time.	No rolling mill processes in the manufacturing activity. The generated domestic wastewater will be treated in the installed STP of capacity 150 KLD and treated water will be used on land for gardening/greenbelt purposes within the premises.
IV.	**Noise monitoring and prevention**	
i.	Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and amendments thereof, and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.	The noise monitoring reports are attached as **Annexure-IV** and reports will be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
ii.	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.	The applicant has ensured that the ambient noise levels within our premises are not exceeding the limits as specified. The noise monitoring reports are attached **Annexure-IV**
V.	**Energy Conservation measures**	
i.	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;	Complied. The industry has installed 2 MW solar panels and two hybrid solar wind off-grid installations were set up during 2019-20 over administrative office & Metallurgical lab.

Sl. No.	Conditions	Compliance to Condition
		  **Pictures showing Solar panels installed at site.**
ii.	Provide LED lights in their offices and residential areas.	All the fluorescent and incandescent light fittings have been converted to LED.  

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Sl. No.	Conditions	Compliance to Condition
		   Energy saving via Solar Pipe Lights have been Installed to bring daylight to covered sheds
VI.	**Waste management**	
i.	Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil.	Noted. Oil collections pits have been  provided. **Waste oil & Coolant storage yard.**

Sl. No.	Conditions	Compliance to Condition
ii.	Kitchen waste shall be composted or converted to biogas for further use.	Noted. Bio-methanation plant has been installed
iii.	100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.	Noted. No fly ash generation, as no coal or coke is used in the process.

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iv.	The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at https://cpcb.nic.in/technical-guidelines-3/. All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six-monthly compliance report being submitted by the project proponents.	Noted and will be followed. Awareness programs on Ban on Single use plastics are being organized.  **Nukkad Natak on Swachatha**   **Awareness Program & competitions.** Trials are being conducted to shift RWF product packaging of from HDPE to coir based.  **Pictures showing coir-based packaging provided for RWF products.**

v.	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.	The electronic waste generated from the industry is disposed of through auction to authorized recyclers registered on the IREPS platform, ensuring environmentally sound management and compliance with applicable e-waste regulations.
VII	**Green Belt**	
i)	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.	The inventorization of GHG emissions has been conducted internally. The copy of the recent Inventorization of GHG emission details enclosed as **Annexure V.**
ii)	Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames.	As part of the organization's decarbonization programme, several initiatives have been undertaken to progressively reduce the overall carbon footprint. These include the transition from HSD to PNG, implementation of a mass afforestation programme, introduction of electric mobility (with two electric forklifts already indented on a trial basis), and the shift towards a paperless office system. These measures will collectively contribute to lowering of greenhouse gas emissions and align with energy efficient practices.
iii)	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.	Complied.
VIII.	**Public hearing and Human health issues**	
i)	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan has been implemented.The copy of the Integrated management system procedures for Quality management, Occupational Health & Safety and Environmental Management System is enclosed as **Annexure VI.**

मुख्य यांत्रिक इंजीनियर – योजना
Chief Mechanical Engineer - Planning
रेल पहिया कारखाना (भारतीय रेल)
RAIL WHEEL FACTORY (Indian Railways)
यलहंका, बेंगलूरु - 560 064
Yelahanka, Bengaluru - 560 064

v.	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.	The electronic waste generated from the industry is disposed of through auction to authorized recyclers registered on the IREPS platform, ensuring environmentally sound management and compliance with applicable e-waste regulations.
VII	**Green Belt**	
i)	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.	The inventorization of GHG emissions has been conducted internally. The copy of the recent Inventorization of GHG emission details enclosed as **Annexure V.**
ii)	Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames.	As part of the organization's decarbonization programme, several initiatives have been undertaken to progressively reduce the overall carbon footprint. These include the transition from HSD to PNG, implementation of a mass afforestation programme, introduction of electric mobility (with two electric forklifts already indented on a trial basis), and the shift towards a paperless office system. These measures will collectively contribute to lowering of greenhouse gas emissions and align with energy efficient practices.
iii)	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.	Complied.
VIII.	**Public hearing and Human health issues**	
i)	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan has been implemented.The copy of the Integrated management system procedures for Quality management, Occupational Health & Safety and Environmental Management System is enclosed as **Annexure VI.**

मुख्य यांत्रिक इंजीनियर – योजना
Chief Mechanical Engineer - Planning
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RAIL WHEEL FACTORY (Indian Railways)
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Yelahanka, Bengaluru - 560 064

ii)	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.	All necessary precautions are taken to workers by providing person protection equipment as per the norms.
iii)	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP. Safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Provision has been made for the housing of construction laborer's within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, Safe drinking water, medical health care, creche etc.  **Portable Cabin constructed for Contract labours within project premises.**
iv)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.	Occupational health surveillance of the workers is done on a regular basis and records are maintained. Employees health checkup reports are enclosed as **Annexure-VII.**
IX.	**Environment Management**	
i)	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.	Adoption of nearby villages under Corporate Environment Responsibility (CER) was recommended. RWF being a central government entity directly under the Ministry of Railways, has no provision for CSR/CERfunds has regulation which limits the use of funds outside industry premises. The same was conveyed during the 53rd EAC meeting and environmental management activities within the project premises were proposed.
ii)	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should	RWF is having a well laid down environmental policy duly approved by the General manager.

ii)	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Complied.
iii)	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Noted and is being followed.
iv)	The project proponent shall monitor the criteria pollutants level namely; PM_{10}, SO_2, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	Complied.
v)	Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented.	Noted and is being followed
vi)	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest at environment clearance portal.	The six-monthly reports on the status of the compliance of the stipulated environmental conditions are being uploaded on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.

मुख्य यांत्रिक इंजीनियर – योजना
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Yelahanka, Bengaluru - 560 064

	prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	
iii)	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	Noted and followed.
iv)	Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC.	Noted and is being followed.
X.	**Miscellaneous**	
i)	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	Complied.

	EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left-over funds allocated to EMP and PH as committed in ECs shall be carried out and spent in next three years, in the company web site for the information to public	
xii)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Noted, in case of any change(s) in the scope of the project, a fresh appraisal by the MoEF&CC will be obtained.
xiii)	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under provisions of Environment (Protection) Act,1986	Noted. The applicant is always abide to the terms and conditions of the Environmental clearance.
xiv)	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted that the Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
xv)	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted.
xvi)	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / monitoring reports.	Complete cooperation will be extended to the officials during their inspection.
xvii)	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted.

मुख्य यांत्रिक इंजीनियर - योजना
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रेल पहिया कारखाना (भारतीय रेल)
RAIL WHEEL FACTORY (Indian Railways)
यलहंका, बेंगलूरु - 560 064
Yelahanka, Bengaluru - 560 064

vii)	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	The project proponent has submitted the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company. The Copy of environmental statement for the financial year ending with 31st March 2026 is attached as **Annexure-VIII.**
viii)	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	The proposed expansion work has been completed and the requisite statutory consent CFE and CFO has been obtained from local authorities.
ix)	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	In response to the requirement for abiding by all commitments and recommendations made in the EIA/EMP report, as well as during the Public Hearing and Expert Appraisal Committee presentation, the project proponent is committed to ensuring that the project contributes positively to the local community. Specifically, prioritize the creation of local employment opportunities as part of our project implementation.
x)	The recommendations of the approved Site-Specific Wildlife Management Plan (in case of involvement of Schedule-I species) shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.	Noted.
xi)	The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the	Noted. Biannual compliance reports along with EMP measures are being uploaded in company website for information for public domain.

मुख्य यांत्रिक इंजीनियर (योजना)27
Chief Mechanical Engineer - Planning
रेल पहिया कारखाना (भारतीय रेल)
RAIL WHEEL FACTORY (Indian Railways)
यलहंका, बेंगलूरु - 560 064
Yelahanka, Bengaluru - 560 064

ISSUED BY CORPORATION BANK ON BEHALF OF GOVERNMENT OF KARNATAKA

No. 121665

Certified that a sum of Rs. 100/- (Rupees One Hundred only) has been paid by

Sri/Smt. _____ s/o d/o w/o _____

residing at _____ towards Karnataka Stamp Duty.

For CORPORATION BANK

CORPORATION BANK
Name Yelahanka New Town Br
Date 13 MAR 2007

Proper Officer / प्रभारी अधिकारी

Agreement No. DY.CE/RLSF/YNK/NO/0607/211 dt. 14-02-2007.

AGREEMENT

This agreement made this 14th the day of March 2007 at Bangalore

BETWEEN

1) The Executive Engineer, Leastewater management Division-3 Bangalore Water Supply and Sewerage Board ("The Provider") having its office at Yelahanka Sewage Treatment Plant, Ring road, BANGALORE, which expression shall whenever the context so requires or admits mean and include its successors and assignee of the provider.

AND

2) The Rail Wheel Factory (Ministry of Railways), Yelahanka, Bangalore ("The Consumer") which expression shall whenever the context so requires or admits and include its successors and assignee of the Consumer.

WHEREAS

The Consumer has requested the Provider for supply of recycled water from Yelahanka Tertiary Treatment Plant to an extent of 2.50 Lakhs litres [per day for non=potable uses and where as the Provider has examined the proposal and has agreed to supply recycled water to the consumer at his premises.

The parties hereby agree to the following terms and conditions:

1. The provider shall supply recycled water to the consumer at Rs. 19 per Kilo Ltr. The said cost shall be inclusive of the piping cost but exclusive of other charges like deposits, meter cost etc., shall be borne by the consumer.
2. The consumer shall absorb the hike in power cost and pay for the recycled water at revised rates necessitated due to revision of power tariff by KPTCL from time ti time.
3. The consumer shall buy the recycled water to the extent of 2.50 lakh litres per day on regular basis and the provider shall supply the recycled water at the agreed rates.
4. The monthly billing shall be made only based on the actual consumption of recycled water even if the consumption is less than the agreed quantity. ~~than the agreed quantity.~~ However ~~in the event of consumption is more~~ in the event of consumption is more than the agreed quantity, the same shall be charged as per actuals.

5 Nos

ಕರ್ನಾಟಕ ಸರ್ಕಾರ
Government of Karnataka
ನೋಂದಣಿ ಹಾಗೂ ಮುದ್ರಾಂಕ ಇಲಾಖೆ
Registration and Stamps Department
ಈ ಹಾಳೆಯನ್ನು ಯಾವುದೇ ದಸ್ತಾವೇಜಿಗೆ ಉಪಯೋಗಿಸಬಹುದು
This sheet can be used for any document
ದಸ್ತಾವೇಜು ಹಾಳೆ
Document Sheet
ಬೆಲೆ: ರೂ. 2/-
ದಸ್ತಾವೇಜನ್ನು ಬರೆದುಕೊಟ್ಟ ದಿನಾಂಕ
Date of execution
ಪಾವತಿಸಿದ ಒಟ್ಟು ಮುದ್ರಾಂಕ ಶುಲ್ಕ ರೂ.
Total stamp duty paid Rs.

5. The quality of recycled water for non-potable purposes shall conform to the following standards.

BOD	< 5mg/1
SS	< 10 mg/l
Turbidity	2.5 NTU
pH	7-8
Coliforms	2.2 – 2.3 MPN / 100 ML

6. The recycled water shall be used only for the agreed non-potable purposes. The agreement shall be valid for a minimum period of 5 years from the date of signing of the agreement and the agreement may be extended / renewed on mutual consent by giving 3 months advance notice by both the parties.

7. The consumer shall buy the recycled water for a minimum period of 5 (Five) years. In case the consumer commits breach of terms of agreement by refusing to buy the required quantity of recycled water at any time before the expiry of the agreement period, he shall reimburse to the provider the piping cost by way of damages with interest at 18% per annum on the said cost from the date of breach of terms of the agreement till the date of payment.

8. The total consumption of recycled water by the consumer shall not be less than (912.50) lakhs liters per year.

9. OTHER GENERAL CONDITIONS:

9.2 The water meter will be placed inside the premises of the consumer, who will be held responsible for any damage / tampering with the meter. Consumer is liable to pay the cost of making good such damages.

9.3 The meter readings will be recorded on monthly basis on a specified date.

9.4 The consumer shall lodge dispute regarding the meter if any within seven days after the readings are recorded. No complaints received after this period will be entertained.

9.5 Consumer disputing the accuracy of the meter may apply for testing of the same by paying the requisite fee to the provider. If on test, the actual quantity registered by the meter is in excess of the correct quantity by more than 5%, the testing fee shall be refunded and a proportionate rebate allowed for the period in question. No rebate shall be allowed if the variation is within plus 5% and the testing fee shall not be refunded in such cases.

9.6 The provi

ಈ ಪುಟವನ್ನು ಕರ್ನಾಟಕ ಸರ್ಕಾರದ
ಅಧಿಸೂಚನೆ ಸಂಖ್ಯೆ ಕಂಪ್ಯೂ 152 ಮುನೋಮು 2003
ದಿನಾಂಕ 09-05-2003ರ ಪ್ರಕಾರ ಮುದ್ರಿಸಲಾಗಿದೆ.

ಕರ್ನಾಟಕ ಸರ್ಕಾರ
Government of Karnataka

ದಸ್ತಾವೇಜು ಹಾಳೆ
Document Sheet

ನೋಂದಣಿ ಹಾಗೂ ಮುದ್ರಾಂಕ ಇಲಾಖೆ
Registration and Stamps Department

ಬೆಲೆ : ರೂ. 2/-

ಈ ಹಾಳೆಯನ್ನು ಯಾವುದೇ ದಸ್ತಾವೇಜಿಗೆ ಉಪಯೋಗಿಸಬಹುದು
This sheet can be used for any document

ದಸ್ತಾವೇಜು ಬರೆದುಕೊಟ್ಟ ದಿನಾಂಕ
Date of execution

ಪಾವತಿಸಿದ ಒಟ್ಟು ಮುದ್ರಾಂಕ ಶುಲ್ಕ ರೂ.
Total stamp duty paid Rs.

9.7 If on examination, any meter is found to be out of order, consumption of water during the period since last reading till the meter is repaired or a new meter installed shall be calculated at an average monthly consumption of the last 6 months during which, in the opinion of the provider the meter was working correctly.

9.8 The consumer shall pay the water charges, meter rent or service charges and other charges due within the dates specified in the bills.

9.9 On failure to make payments within the due date, the provider reserves the right to cut off the supplies to the premises. All meters and other appliances for measuring permitting the amount of water supplied within or outside consumer premises shall be property of the provider.

9.10 The provider shall not be liable for any compensation, penalty, damages or other payments for failure of the supply of recycled water caused by unusual drought, operation of water or other accidents, act of god or other causes beyond its control.

9.11 Any disputes arising out of this agreement or which may arise in future shall be solved by taking recourse for mutual settlement and arbitration in the first instance, failing which, the dispute shall be referred to the Civil Court in Bangalore, having exclusive jurisdiction.

IN WITNESS WHEREOF the parties above named has executed this agreement in presence of the witnesses attesting hereunder.

For BWSSB (Provider)
EE WWM -3

Signed by

WITNESS

1. A/c Supdt.

2.

For.....(Consumer)
14/3/07

Signed by

WITNESS

1. A.N. SADASHIVAN
ASSISTANT ENGINEER
14/3/07

2. 14/3/07

265

"ನೀರನ್ನು ಮಿತವಾಗಿ ಬಳಸಿ" "ಕನ್ನಡದಲ್ಲೇ ವ್ಯವಹರಿಸಿ"

1401200/443.

BANGALORE WATER SUPPLY AND SEWERAGE BOARD

Office of Asst. Executive Engineer, STP / Hebbal Valley Sub-Division-2, C-15, 80 Feet road, Opposite to Allalasandra Lake, Yelahanka New Town Bangalore-560064.

No. BWSSB/SH2/AE/ 104 /2020 DT:03/08/2020

Bill for the month of Jul-20 for supply of Teritiary Treated Water

Bill No.	004
Reading Date	01.08.2020
Due date for Payment	15.08.2020
Consumer	Rail Wheel Factory, Bangalore
Location	Yelahanka
Present Reading	57679
Previous Reading	57491
Consumption in KL	188
Rate per KL (in Rs.)	25
Meter Service Charges Per month	1500
Bill Amount (in Rs.)	6,200.00
Arrears	
Interest	-
Total Bill Amount	6,200.00
Advance Amount	-
Net Amount Due (in Rs.)	6,200.00

(Rupees Six Thousand Two Hundred only)

NOTE: 1. Demand draft may please be drawn in favour of Chairman, BWSSB, Bangalore-560009 & to be submitted to the Office of Executive Engineer STP/HV Division Hebbal wthin the Due Date

2. Copy of the Receipt of payment to be submitted to this office without fail

Asst. Executive Engineer
(STP/HV)-2, BWSSB.

Copy submitted to EE STP/HV Division for kind information

Certified that the reading is correct bill may be passed

To,
Asst. Executive Engineer

"ನೀರನ್ನು ಮಿತವಾಗಿ ಬಳಸಿ" "ಕನ್ನಡದಲ್ಲೇ ವ್ಯವಹರಿಸಿ"

BANGALORE WATER SUPPLY AND SEWERAGE BOARD

Office of Asst. Executive Engineer,(WWM- STP)-2 H&A Valley, C-15, 80 Feet road, Opposite to Allalasandra Lake, Yelahanka New Town Bangalore-560064.

No. BWSSB/SH2/AE/ 10 /2023-24 DT: 02/04/2024

Bill for the month of Mar-24 for supply of Teritiary Treated Water

Bill No.	**48**
Reading Date	**01.04.2024**
Due date for Payment	**15.04.2024**
Consumer	**Rail Wheel Factory, Bangalore**
Location	**Yelahanka**
Present Reading	**57679**
Previous Reading	**57679**
Consumption in KL	**0**
Rate per KL (in Rs.)	**25**
Meter Service Charges Per month	**1500**
Bill Amount (in Rs.)	**1,500.00**
Arrears	
Interest	**-**
Total Bill Amount	**1,500.00**
Advance Amount	**-**
Net Amount Due (in Rs.)	**1,500.00**

(Rupees One Thousand Five Hundred only)

NOTE: 1. Demand draft may please be drawn in favour of Chairman, BWSSB, Bangalore-560009 & to be submitted to the Office of Executive Engineer WWM-STP-H&AV Division Hebbal wthin the Due Date

2. Copy of the Receipt of payment to be sent through email id eenewater@bwssb.gov.in without fail

Asst. Executive Engineer
(WWM-STP- H&AV-2), BWSSB.

Copy submitted to EE(WWM-STP)-H&A Valley Division for kind information

To,
Asst. Executive Engineer
Rail Wheel Factory, Civil Engineering,
Yelahanka, Bangalore-64

Certified that the metre reading is correct & may be passed.

बागवानी एवं जल आपूर्ति
Junior Engineer-I,
Horticulture & Water Supply

BANGALORE WATER SUPPLY AND SEWERAGE BOARD

Office of Asst. Executive Engineer,(UWP-West H&A Valley)-1, C-15, 80 Feet road, Opposite to Allalasandra Lake, Yelahanka New Town Bangalore-560064.

No. BWSSB/AEE(UWP-West-H&AV)-1/AE/ 05 /2026-27 DT: 01 /04/2026

Bill for the month of Mar-26 for supply of Teritiary Treated Water

Bill No.	72
Reading Date	01-04-2026
Due date for Payment	15-04-2026
Consumer	Rail Wheel Factory, Bangalore
Location	Yelahanka
Present Reading	57679
Previous Reading	57679
Consumption in KL	0
Rate per KL (in Rs.)	25
Meter Service Charges Per month	1500
Bill Amount (in Rs.)	1,500.00
Arrears	
Interest	-
Total Bill Amount	1,500.00
Advance Amount	-
Net Amount Due (in Rs.)	1,500.00

(Rupees One Thousand Five Hundred Only)

NOTE: 1. Demand draft may please be drawn in favour of Chairman, BWSSB, Bangalore-560009 & to be submitted to the Office of Executive Engineer UWP-West-H&AV Division Hebbal wthin the Due Date

2. Copy of the Receipt of payment to be sent through email id eewwmp-hav@bwssb.gov.in without fail

Asst. Executive Engineer
(UWP-West-H&AV-1), BWSSB.

Copy submitted to EE(UWP-West)-H&A Valley Division for kind information

To,
Asst. Executive Engineer
Rail Wheel Factory, Civil Engineering,
Yelahanka, Bangalore-64

वरिष्ठ अनुभाग इंजीनियर
Senior Section Engineer
Rail Wheel Factory, Bangalore

RAIL WHEEL FACTORY
METALLURGICAL LAB

Date.17/04/2026

No.RWF/AED (M&C) /31

To,
The Environmental Officer KSPCB,
Regional Office, Yelahanka, Bangalore - 64

Sir,
Sub:- Pollution Monitoring Report for the month of MARCH 2026.

Please find enclosed copy of the test report pertaining to Pollution Monitoring of Stack and Ambient air quality carried out by M/s ECO GREEN SOLUTIONS Pvt. Ltd., BANGALORE at various Chimneys and Ambient locations in RWF/YNK for the month of MARCH -2026.

17/4/26

C&M Supdt./Ref./M.LAB

Chemical And Metallurgical SUPDT.I / Refractory
Rail Wheel Factory (Indian Railways)
Yelahanka, Bangalore - 560 064.

23/04/2026

CMT/LAB

Chemist and Metallurgist
Rail Wheel Factory (Indian Railways)
Yelahanka, Bangalore - 560 064

Encl: As stated above

Copy to: 1. C& MS REFRACTORY
2. M/s ECO GREEN SOLUTIONS Pvt. Ltd., BANGALORE

ECO GREEN SOLUTION SYSTEMS PVT LTD

EGSSPL

Recognised by Ministry Of Environment, Forest & Climate Change (MOEFCC) Govt. Of India, New Delhi, Dt: 27.11.2024 to 21.11.2027
An ISO 9001:2015 & ISO 45001:2018 Certified Company
48/A-4, KIADB Industrial Area, Doddaballapur, Bengaluru-561203
E-mail: lab@egsspl.in, ecogreen@egsspl.in

CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055
ULR NO: TC145542600000837F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	10.03.2026
2	Stack Location	Normalizing Furnace (Wheel) Location: Wheel Shop	10	Sample Receipt On	10.03.2026
3	Date of Analysis Completed/Date of Report	11.03.2026/13.03.2026	11	Sample Collected By -	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-3015/25-26	12	Sample RC No	4234
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DTE-2015/EGSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	10.03.2026
2	Stack Gas Temperature (°C)	361
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	9.6
5	Stack Diameter (m)	2
6	Stack Height (m)	30mtrs from AGL
7	Cross Sectional Area (m^2)	3.143
8	Gas Discharge (Nm^3/hr)	108622.1

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	33.1
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	12.6
3	Oxides of Nitrogen-NOx (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	19.0

Reviewed & Authorized Signatory
Technical Manager

****End of Report****

ECO GREEN SOLUTION SYSTEMS PVT LTD

EGSSPL

Recognized by Ministry Of Environment, Forest & Climate Change (MOEFCC) Govt. Of India, New Delhi, Dt: 27.11.2024 to 21.11.2027
An ISO 9001:2015 & ISO 45001:2018 Certified Company
48/A-4, KIADB Industrial Area, Doddaballapur, Bengaluru-561203
E-mail: lab@egsspl.in, ecogreen@egsspl.in

CIN NO: U74140KA2005PTC036991

EGSSPL/FRM/055
ULR NO: TC148542600000038F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	10.03.2026
2	Stack Location	Draw Furnace Location: Wheel Shop	10	Sample Receipt On	10.03.2026
3	Date of Analysis Completed/Date of Report	11.03.2026/ 13.03.2026	11	Sample Collected By	Mr Abhilash
4	Unique Identification No.	EGSSPL/SE-3016/25-26	12	Sample RC No	4235
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DIE-2015/ EGSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	10.03.2026
2	Stack Gas Temperature (°C)	142
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	8.1
5	Stack Diameter (m)	0.25
6	Stack Height (m)	18mtrs from AGL
7	Cross Sectional Area (m^2)	0.049
8	Gas Discharge (Nm^3/hr)	1428.8

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	31.4
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	13.0
3	Oxides of Nitrogen-NOx (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	17.4

[illegible]

Reviewed & Authorized Signatory
(S. Asokan)
Technical Manager

End of Report

ECO GREEN SOLUTION SYSTEMS PVT LTD

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CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055
ULR NO: TC148542600000839F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	10.03.2026
2	Stack Location	Sand Drier Location: Wheel Shop Molding Room	10	Sample Receipt On	10.03.2026
3	Date of Analysis Completed/Date of Report	11.03.2026/13.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SR-3017/25-26	12	Sample RC No	4236
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/P/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DTE-2015/ EGSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	10.03.2026
2	Stack Gas Temperature (°C)	39
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	6.5
5	Stack Diameter (m)	1
6	Stack Height (m)	30mtrs from AGL
7	Cross Sectional Area (m^2)	0.786
8	Gas Discharge (Nm^3/hr)	18392.4

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	37.0
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	BDL (DL: 2.0)
3	Oxides of Nitrogen-NOx (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	BDL (DL: 2.0)

BDL: Below detection limit — **DL:** Detection limit

1. Sample collected by EGSSPL Laboratory.
2. Sample collected and tested with the method as reported all the tests have been done in duplicate.
3. The test report is subjected to jurisdiction of Bangalore jurisdiction only.
4. The test report should not be reproduced except in full without written consent from the laboratory.
5. The name, quality of the equipment is referred to Customer declaration only.
6. The report is not applicable to the human sample.

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(S. Anokha)
Technical Manager

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CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055
ULR NO: TC148542600000006840F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	10.03.2026
2	Stack Location	Sand Silo Batch Heater Location: Wheel Shop Molding Room	10	Sample Receipt On	10.03.2026
3	Date of Analysis Completed/Date of Report	11.03.2026/13.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-3018/25-26	12	Sample RC No	4237
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DTE-2015/EGSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	10.03.2026
2	Stack Gas Temperature (°C)	61
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	7.3
5	Stack Diameter (m)	0.6
6	Stack Height (m)	16mtrs from AGL
7	Cross Sectional Area (m^2)	0.283
8	Gas Discharge (Nm^3/hr)	7437.2

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	38.3
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	BDL (DL: 2.0)
3	Oxides of Nitrogen-NOx (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	BDL (DL: 2.0)

BDL: Below detection limit

DL: Detection limit

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(S. Asokan)
Technical Manager

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CIN NO: U74140KA2005PTC035991
EGSSPL/FRM/035
ULR NO: TC148542600000641F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	10.03.2026
2	Stack Location	Sand Silo Cyclone Location: Wheel Shop Molding Room	10	Sample Receipt On	10.03.2026
3	Date of Analysis Completed/Date of Report	11.03.2026/13.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-3010/26-26	12	Sample RC No	4238
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DTE-2016/EGS3-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	10.03.2026
2	Stack Gas Temperature (°C)	43
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	5.8
5	Stack Diameter (m)	0.25
6	Stack Height (m)	17mtrs from AGL
7	Cross Sectional Area (m^2)	0.049
8	Gas Discharge (Nm^3/hr)	1023.1

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	45.7
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	BDL (DL: 2.0)
3	Oxides of Nitrogen-NOx (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	BDL (DL: 2.0)

BDL: Below detection limit

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(S. Aeckash)
Technical Manager

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CIN NO: U74140KA2005PTC036991

EGSSPL/FRM/055
ULR NO: TC148542600000842F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	10.03.2026
2	Stack Location	Rotoclone Cyclone Location: Wheel Shop Molding Room	10	Sample Receipt On	10.03.2026
3	Date of Analysis Completed/Date of Report	11.03.2026/13.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-3020/25-26	12	Sample RC No	4239
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DTE-2015/ E0884009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	10.03.2026
2	Stack Gas Temperature (°C)	54
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	7.4
5	Stack Diameter (m)	0.2
6	Stack Height (m)	16mtrs from AGL
7	Cross Sectional Area (m^2)	0.031
8	Gas Discharge (Nm^3/hr)	825.8

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	44.1
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	10.4
3	Oxides of Nitrogen-NOx (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	17.7

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CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055
ULR NO: TC148542600000080F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	07.03.2026
2	Stack Location	Cope Cleaner Location: Wheel Shop Molding Room	10	Sample Receipt On	07.03.2026
3	Date of Analysis Completed/Date of Report	09.03.2026/11.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-2990/25-26	12	Sample RC No	4199
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument SL No./Model	001-DTE-2015/EGSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	07.03.2026
2	Stack Gas Temperature (°C)	60
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	6.3
5	Stack Diameter (m)	0.25
6	Stack Height (m)	17mtrs from AGL
7	Cross Sectional Area (m^2)	0.049
8	Gas Discharge (Nm^3/hr)	1111.3

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	53.2
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	18.1
3	Oxides of Nitrogen NO_x (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	25.0

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(S. Asoken)
Technical Manager

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CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055
ULR NO: TC148542600000810F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	07.03.2026
2	Stack Location	Drag Cleaner Location: Wheel Shop Molding Room	10	Sample Receipt On	07.03.2026
3	Date of Analysis Completed/Date of Report	09.03.2026/11.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-2991/25-26	12	Sample RC No	4200
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DTE-2015/EGSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	07.03.2026
2	Stack Gas Temperature (°C)	42
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	6.5
5	Stack Diameter (m)	0.25
6	Stack Height (m)	17mtrs from AGL
7	Cross Sectional Area (m^2)	0.049
8	Gas Discharge (Nm^3/hr)	1146.6

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	55.0
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	22.0
3	Oxides of Nitrogen-NOx (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	26.1

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Technical Manager

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CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/005
ULR NO: TC148542600000081IF

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	07.03.2026
2	Stack Location	Spray Wash and Hub Cutting Location: Wheel Shop Molding Room	10	Sample Receipt On	07.03.2026
3	Date of Analysis Completed / Date of Report	09.03.2026 / 11.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-2992/25-26	12	Sample RC No	4201
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DTE-2015/EGSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	07.03.2026
2	Stack Gas Temperature (°C)	68
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	7.2
5	Stack Diameter (m)	2.4
6	Stack Height (m)	30mtrs from AGL
7	Cross Sectional Area (m^2)	4.526
8	Gas Discharge (Nm^3/hr)	117313.9

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	48.3
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	17.0
3	Oxides of Nitrogen-NOx (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	24.1

Reviewed & Authorized Signatory
(S. Asokan)
Technical Manager

End of Report

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CIN NO: U74140KA2005PTC036991
EGSSPL/PRM/055
ULR NO: TC148542600000312F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	07.03.2026
2	Stack Location	CTA Rollover Location: Wheel Shop Molding Room	10	Sample Receipt On	07.03.2026
3	Date of Analysis Completed/Date of Report	09.03.2026/11.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-2993/25-26	12	Sample RC No	4202
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/P/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DTE-2015/ EGSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	07.03.2026
2	Stack Gas Temperature (°C)	54
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	6.8
5	Stack Diameter (m)	0.25
6	Stack Height (m)	17mtrs from AGL
7	Cross Sectional Area (m^2)	0.049
8	Gas Discharge (Nm^3/hr)	1199.5

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	52.9
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	20.8
3	Oxides of Nitrogen-NOx (as NOx)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	27.3

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Technical Manager

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CIN NO: U74140KA2005PTC036991
EGSSPL/PRM/055
ULR NO: TC148542600000813F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	07.03.2026
2	Stack Location	Thermal Sand Reclamation Plant Location: Wheel Shop Molding Room	10	Sample Receipt On	07.03.2026
3	Date of Analysis Completed/Date of Report	09.03.2026/11.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-2994/25-26	12	Sample RC No	4203
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DTE-2015/EGSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	07.03.2026
2	Stack Gas Temperature (°C)	62
3	Ambient Temperature (°C)	31
4	Stack Gas Velocity (m/s)	6.7
5	Stack Diameter (m)	0.5
6	Stack Height (m)	30mtrs from AGL
7	Cross Sectional Area (m^2)	0.196
8	Gas Discharge (Nm^3/hr)	4727.5

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	47.0
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	BDL (DL: 2.0)
3	Oxides of Nitrogen-NOx (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	BDL (DL: 2.0)

BDL: Below detection limit **DL:** Detection limit

1. The results of testing in this laboratory.
2. This report cannot be reproduced except in full, without written approval of the laboratory.
3. The sample(s) was/were submitted by customer.
4. The above sample(s) is/are tested as received by customer.
5. This test results relate only to the items tested.

Reviewed & Authorized Signatory
(D. Anokan)
Technical Manager

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CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055
ULR NO: TC148542600000956F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	13.03.2026
2	Stack Location	Wheel Cleaner - I Location: Wheel Shop WFPS	10	Sample Receipt On	13.03.2026
3	Date of Analysis Completed/Date of Report	14.03.2026/16.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-3066/25-26	12	Sample RC No	4339
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DTE-2015/EGSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	13.03.2026
2	Stack Gas Temperature (°C)	53
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	6.7
5	Stack Diameter (m)	0.5
6	Stack Height (m)	16mtrs from AGL
7	Cross Sectional Area (m^2)	0.196
8	Gas Discharge (Nm^3/hr)	4727.5

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	55.7
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	19.2
3	Oxides of Nitrogen-NOx (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	80	28.7

1. Sample collected by EGSSPL Laboratory.
2. Results relevant to the items tested as received.
3. This test report is confidential to the client.
4. The test report should not be reproduced in part without written approval of the laboratory.
5. Any discrepancy in the laboratory's name or address should be informed.
6. The results are only relevant to the items tested.

Reviewed & Authorized Signatory
(S. Asokan)
Technical Manager

End of Report

ECO GREEN SOLUTION SYSTEMS PVT LTD

EGSSPL

Recognized by Ministry Of Environment, Forest & Climate Change (MOEFCC) Govt. Of India, New Delhi, Dt: 27.11.2024 to 21.11.2027
An ISO 9001:2015 & ISO 45001:2018 Certified Company
48/A-4, KIADB Industrial Area, Doddaballapur, Bengaluru-561203
E-mail: lab@egsspl.in, ecogreen@egsspl.in

CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055
ULR NO: TC148542600000957F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	13.03.2026
2	Stack Location	Wheel Cleaner - II Location: Wheel Shop WFPS	10	Sample Receipt On	13.03.2026
3	Date of Analysis Completed/Date of Report	14.03.2026/16.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-3067/25-26	12	Sample RC No	4340
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No /Model	001-DTE-2015/ EGSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	13.03.2026
2	Stack Gas Temperature (°C)	46
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	6.0
5	Stack Diameter (m)	0.5
6	Stack Height (m)	16mtrs from AGL
7	Cross Sectional Area (m^2)	0.196
8	Gas Discharge (Nm^3/hr)	4233.6

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	60.8
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	23.2
3	Oxides of Nitrogen-NOx (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	34.4

Reviewed & Authorized Signatory
T.S. Asokan
Technical Manager

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CIN NO: U74140KA2008PTC036991

EGSSPL/FRM/055
ULR NO: TC148542600000958F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	13.03.2026
2	Stack Location	Wheel Peener - I Location: Wheel Shop WFPS	10	Sample Receipt On	13.03.2026
3	Date of Analysis Completed/Date of Report	14.03.2026/16.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-3068/25-26	12	Sample RC No	4341
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part 3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DTE-2015/ EGSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	13.03.2026
2	Stack Gas Temperature (°C)	67
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	14.2
5	Stack Diameter (m)	0.5
6	Stack Height (m)	17mtrs from AGL
7	Cross Sectional Area (m^2)	0.196
8	Gas Discharge (Nm^3/hr)	10019.5

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	53.7
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	19.3
3	Oxides of Nitrogen-NOx (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	25.4

1. Results related to EGSSPL Laboratory.
2. Reports submitted and result will be stored for a period of 45 days from the date of issue.
3. Test have carried out subject to Bengaluru jurisdiction only.
4. The test report shall not be reproduced in any manner or whatever without written approval (Yes or No).
5. We used different reference standard in another method.
6. The results solely relates to the items tested.

Reviewed & Authorised Signatory
(S. Asokan)
Technical Manager

End of Report

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CIN NO: U74140KA2006PTC036991
EGSSPL/FRM/055
ULR NO: TC148542600000959F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	13.03.2026
2	Stack Location	Wheel Peener - II Location: Wheel Shop WITS	10	Sample Receipt On	13.03.2026
3	Date of Analysis Completed/Date of Report	14.03.2026/16.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-3069/25-26	12	Sample RC No	4342
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DTE-2015/ EGSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	13.03.2026
2	Stack Gas Temperature (°C)	72
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	14.9
5	Stack Diameter (m)	0.5
6	Stack Height (m)	17mtrs from AGL
7	Cross Sectional Area (m^2)	0.196
8	Gas Discharge (Nm^3/hr)	10513.4

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	66.5
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	33.9
3	Oxides of Nitrogen-NOx (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	35.8

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(S. Aankan)
Technical Manager

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CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055
ULR NO: TC148542600000928F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	12.03.2026
2	Stack Location	RMT & HMT Graphite Block Drilling Machine Location: Wheel Shop MRS	10	Sample Receipt On	12.03.2026
3	Date of Analysis Completed/Date of Report	13.03.2026/16.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-3043/25 26	12	Sample RC No	4311
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DIE-2015/EGS8-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	12.03.2026
2	Stack Gas Temperature (°C)	64
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	8.0
5	Stack Diameter (m)	0.8
6	Stack Height (m)	20mtrs from AGL
7	Cross Sectional Area (m^2)	0.503
8	Gas Discharge (Nm^3/hr)	14486.4

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	49.4
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	BDL (DL: 2.0)
3	Oxides of Nitrogen-NO_x (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	BDL (DL: 2.0)

BDL: Below detection limit **DL:** Detection limit

Reviewed & Authorized Signatory
(S. Asokan)
Technical Manager

"End of Report"

ECO GREEN SOLUTION SYSTEMS PVT LTD

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EGSSPL/PRM/055

ULR NO: TC148542600000929F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	12.03.2026
2	Stack Location	Graphite Block Machine VTL - II Radial Drill & Ingate Lathe Location: Wheel Shop MRS	10	Sample Receipt On	13.03.2026
3	Date of Analysis Completed/Date of Report	13.03.2026/16.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-3044/25-26	12	Sample RC No	4312
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DTE 2015/ EGSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	12.03.2026
2	Stack Gas Temperature (°C)	65
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	7.8
5	Stack Diameter (m)	0.8
6	Stack Height (m)	17mtrs from AGL
7	Cross Sectional Area (m^2)	0.503
8	Gas Discharge (Nm^3/hr)	14124.2

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	58.4
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	BDL (DL: 2.0)
3	Oxides of Nitrogen-NOx (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	BDL (DL: 2.0)

BDL: Below detection limit

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S. Asokan
Technical Manager

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EGSSPL/FRM/055
ULR NO: TC145542600000930F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF IIQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	12.03.2026
2	Stack Location	Graphite Block Machine VIL - III Location: Wheel Shop MRS	10	Sample Receipt On	12.03.2026
3	Date of Analysis Completed/Date of Report	13.03.2026/16.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-3045/25-26	12	Sample RC No	4313
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DTE-2015/EG88-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	12.03.2026
2	Stack Gas Temperature (°C)	69
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	7.8
5	Stack Diameter (m)	0.15
6	Stack Height (m)	17mtrs from AGL
7	Cross Sectional Area (m^2)	0.0177
8	Gas Discharge (Nm^3/hr)	497

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	47.3
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	BDL (DL: 2.0)
3	Oxides of Nitrogen- NOx (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	BDL (DL: 2.0)

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Reviewed & Authorized Signatory
(S. Asokan)
Technical Manager

End of Report

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CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055
ULR NO: TC148542600000931F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	12.03.2026
2	Stack Location	Graphite Block Machine VIL - IV Location: Wheel Shop	10	Sample Receipt On	12.03.2026
3	Date of Analysis Completed/Date of Report	13.03.2026/16.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-3046/25-26	12	Sample RC No	4314
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part 3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DTE-2015/EGSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	12.03.2026
2	Stack Gas Temperature (°C)	73
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	8.7
5	Stack Diameter (m)	0.15
6	Stack Height (m)	17mtrs from AGL
7	Cross Sectional Area (m^2)	0.0177
8	Gas Discharge (Nm^3/hr)	554.4

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	60.4
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	BDL (DL: 2.0)
3	Oxides of Nitrogen-NOx (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	BDL (DL: 2.0)

BDL: Below detection limit

DL: Detection limit

Reviewed & Authorised Signatory
(S. Asokan)
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CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055
ULR NO: TC148542600000932F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	12.03.2026
2	Stack Location	Graphite Block Machine VTL - V Location: Wheel Shop MRS	10	Sample Receipt On	12.03.2026
3	Date of Analysis Completed/Date of Report	13.03.2026/16.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-3047/25-26	12	Sample RC No	4315
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DTE-2015/ EGSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	12.03.2026
2	Stack Gas Temperature (°C)	76
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	9.0
5	Stack Diameter (m)	0.15
6	Stack Height (m)	17mtrs from AGL
7	Cross Sectional Area (m^2)	0.0177
8	Gas Discharge (Nm^3/hr)	573.5

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	54.8
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	BDL (DL: 2.0)
3	Oxides of Nitrogen-NO_x (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2023)	50	BDL (DL: 2.0)

BDL: Below detection limit **DL:** Detection limit

Reviewed & Authorized Signatory
(S. Asokan)
Technical Manager

End of Report

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EGSSPL/FRM/055

ULR NO: TC148542600000106GP

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ - Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	24.03.2026
2	Stack Location	Rotary Hearth Furnace Location: New Axle Forge Shop	10	Sample Receipt On	24.03.2026
3	Date of Analysis Completed/Date of Report	25.03.2026/27.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-3139/25-26	12	Sample RC No	4442
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No /Model	001-DTE-2015/EGSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	24.03.2026
2	Stack Gas Temperature (°C)	228
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	12.2
5	Stack Diameter (m)	1.5
6	Stack Height (m)	30mtrs from AGL
7	Cross Sectional Area (m^2)	1.768
8	Gas Discharge (Nm^3/hr)	77650.6

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	43.8
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	15.4
3	Oxides of Nitrogen-NO_X (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	28.5

Reviewed & Authorized Signatory
(S. Asokan)
Technical Manager

End of Report

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EGSSPL/FRM/055
ULR NO: TC148542600000106GF

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	24.03.2026
2	Stack Location	• Rotary Hearth Furnace Location: Axle Forge Shop	10	Sample Receipt On	24.03.2026
3	Date of Analysis Completed/Date of Report	25.03.2026/27.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-3141/25-26	12	Sample RC No	4444
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DTE-2015/ EGSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	24.03.2026
2	Stack Gas Temperature (°C)	221
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	12.8
5	Stack Diameter (m)	1.5
6	Stack Height (m)	30mtrs from AGL
7	Cross Sectional Area (m^2)	1.766
8	Gas Discharge (Nm^3/hr)	81469.4

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	40.1
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	14.2
3	Oxides of Nitrogen-NO_x (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	25.0

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Technical Manager

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An ISO 9001:2015 & ISO 45001:2018 Certified Company
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CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055
ULR NO: TC148542600000167F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ - Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	24.03.2026
2	Stack Location	Normalizing Furnace (Axle) Location: New Axle Forge Shop	10	Sample Receipt On	24.03.2026
3	Date of Analysis Completed/Date of Report	25.03.2026/27.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-3140/25-26	12	Sample RC No	4443
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DTE-2015/ EGSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	24.03.2026
2	Stack Gas Temperature (°C)	225
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	9.8
5	Stack Diameter (m)	1.5
6	Stack Height (m)	30mtrs from AGL
7	Cross Sectional Area (m^2)	1.766
8	Gas Discharge (Nm^3/hr)	62375

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	46.9
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	18.3
3	Oxides of Nitrogen-NOx (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	31.0

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CIN NO: U74140KA2005PTC036991

EGSSPL/FRM/055

ULR NO: TC148542600000106 9F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	24.03.2026
2	Stack Location	Normalising Furnace (Axle) Location: Axle Forge Shop	10	Sample Receipt On	24.03.2026
3	Date of Analysis Completed/Date of Report	25.03.2026/27.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-3142/25-26	12	Sample RC No	4445
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DTE-2015/ EOSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	24.03.2026
2	Stack Gas Temperature (°C)	223
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	10.1
5	Stack Diameter (m)	1.5
6	Stack Height (m)	30mtrs from AGL
7	Cross Sectional Area (m^2)	1.768
8	Gas Discharge (Nm^3/hr)	64284.5

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	44.5
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	17.8
3	Oxides of Nitrogen-NO_x (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	26.3

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CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055
ULR NO: TC148542600000D1070F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	24.03.2026
2	Stack Location	Tempering Furnace Location: Axle Forge Shop	10	Sample Receipt On	24.03.2026
3	Date of Analysis Completed/Date of Report	25.03.2026/27.03.2026	11	Sample Collected By	Mr. Abdulaah
4	Unique Identification No.	EGSSPL/SE-3143/25-26	12	Sample RC No	4446
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DTE-2015/ EQSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	24.03.2026
2	Stack Gas Temperature (°C)	229
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	12.4
5	Stack Diameter (m)	1
6	Stack Height (m)	30mtrs from AGL
7	Cross Sectional Area (m^2)	0.786
8	Gas Discharge (Nm^3/hr)	35087

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	37.0
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	12.8
3	Oxides of Nitrogen-NOx (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	22.5

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Technical Manager

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ULR NO: TC148542600000954F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	13.03.2026
2	Stack Location	1750 KW DG Set - II	10	Sample Receipt On	13.03.2026
3	Date of Analysis Completed/Date of Report	14.03.2026/16.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-3064/25-26	12	Sample RC No	4337
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit & Flue Gas Analyser	15	Instrument Sl. No./Model	001-DTE-2015/ EGSS-009 & FOA-53X
8	Instruments Calibrated Date	31.10.2025 & 09.09.2025	16	Instruments Calibration Due Date	30.10.2026 & 08.09.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	13.03.2026
2	Stack Gas Temperature (°C)	125
3	Ambient Temperature (°C)	32
4	Stack Gas Velocity (m/s)	9.9
5	Stack Diameter (m)	0.5
6	Stack Height (m)	27mtrs from AGL
7	Cross Sectional Area (m^2)	0.196
8	Gas Discharge (Nm^3/hr)	6995.4

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	75	48.9
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	Not Specified	66.9
3	Oxides of Nitrogen-NO_x (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	710	224
4	Carbon Monoxide	mg/Nm^3	USEPA Method 10-2017	150	56.4

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CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	13.03.2026
2	Stack Location	1750 KW DG Set - II	10	Sample Receipt On	13.03.2026
3	Date of Analysis Completed/Date of Report	14.03.2026/16.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No	EGSSPL/SE-3064/25-26	12	Sample RC No	4337
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit & Flue Gas Analyser	15	Instrument Sl. No./Model	001-DTE-2015/EGSS-009 & PGA-53X
8	Instruments Calibrated Date	31.10.2025 & 09.09.2025	16	Instruments Calibration Due Date	30.10.2026 & 08.09.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	13.03.2026
2	Stack Gas Temperature (°C)	125
3	Ambient Temperature (°C)	32
4	Stack Gas Velocity (m/s)	9.9
5	Stack Diameter (m)	0.5
6	Stack Height (m)	27mtrs from AGL
7	Cross Sectional Area (m^2)	0.196
8	Gas Discharge (Nm^3/hr)	6985.4

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
5	Non-Methane Hydrocarbon (as C)	mg/Nm^3	USEPA Method 25:2017	100	14.0

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EGSSPL/FRM/055
ULR NO: TC148542600000053F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bengaluru, 560064 Karnataka, India	9	Sample Collected On	13.03.2026
2	Stack Location	1750 KW DG Set - I	10	Sample Receipt On	13.03.2026
3	Date of Analysis Completed/Date of Report	14.03.2026/16.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-3063/25-26	12	Sample RC No	4336
5	Date/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit & Flue Gas Analyser	15	Instrument Sl. No./Model	001-DTE-2015/ EGSS-009 & FGA-53X
8	Instruments Calibrated Date	31.10.2025 & 09.09.2025	16	Instruments Calibration Due Date	30.10.2026 & 09.09.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	13.03.2026
2	Stack Gas Temperature (°C)	120
3	Ambient Temperature (°C)	32
4	Stack Gas Velocity (m/s)	9.7
5	Stack Diameter (m)	0.5
6	Stack Height (m)	27mtrs from AGL
7	Cross Sectional Area (m^2)	0.196
8	Gas Discharge (Nm^3/hr)	6844.3

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	75	52.4
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	Not Specified	70.2
3	Oxides of Nitrogen-NOx (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	710	226
4	Carbon Monoxide	mg/Nm^3	USEPA Method 10.2017	150	60.2

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Ministry of Environment, Forest & Climate Change

CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	13.03.2026
2	Stack Location	1750 KW DG Set - 1	10	Sample Receipt On	13.03.2026
3	Date of Analysis Completed/Date of Report	14.03.2026/16.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No	EGSSPL/SE-3063/25-26	12	Sample RC No	4335
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit & Flue Gas Analyser	15	Instrument Sl. No./Model	001-DTE-2015/ EGSS-009 & FOA-53X
8	Instruments Calibrated Date	31.10.2025 & 09.09.2025	16	Instruments Calibration Due Date	30.10.2026 & 08.09.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	13.03.2026
2	Stack Gas Temperature (°C)	120
3	Ambient Temperature (°C)	32
4	Stack Gas Velocity (m/s)	9.7
5	Stack Diameter (m)	0.5
6	Stack Height (m)	27mtrs from AGL
7	Cross Sectional Area (m^2)	0.196
8	Gas Discharge (Nm^3/hr)	6844.3

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
5	Non-Methane Hydrocarbon (as C)	mg/Nm^3	USEPA Method 25:2017	100	15.2

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CIN NO: U74140KA2005PTC036001
EGSSPL/FRM/055
ULR NO: TC148542600000955F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	13.03.2026
2	Stack Location	2400 KW DG Set - III	10	Sample Receipt On	13.03.2026
3	Date of Analysis Completed/Date of Report	14.03.2026/16.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-3065/25-26	12	Sample SC No	4338
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/P/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit & Flue Gas Analyser	15	Instrument Sl. No./Model	001-DTR-2015/EGSS-009 & PGA-50X
8	Instruments Calibrated Date	31.10.2025 & 09.09.2025	16	Instruments Calibration Due Date	30.10.2026 & 08.09.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	13.03.2026
2	Stack Gas Temperature (°C)	151
3	Ambient Temperature (°C)	32
4	Stack Gas Velocity (m/s)	10.5
5	Stack Diameter (m)	0.5
6	Stack Height (m)	27mtrs from AGL
7	Cross Sectional Area (m^2)	0.196
8	Gas Discharge (Nm^3/hr)	7408.8

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	75	63.2
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	Not Specified	74.4
3	Oxides of Nitrogen-NOx (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	710	276
4	Carbon Monoxide	mg/Nm^3	USEPA Method 10:2017	150	69.7

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TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	13.03.2026
2	Stack Location	2400 KW DG Set - III	10	Sample Receipt On	13.03.2026
3	Date of Analysis Completed/Date of Report	14.03.2026/16.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No	EGSSPL/SE-3065/25-26	12	Sample RC No	4338
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit & Flue Gas Analyser	15	Instrument Sl. No./Model	001-DTE-2015/ EQSS-009 & FGA-83X
8	Instruments Calibrated Date	31.10.2025 & 09.09.2025	16	Instruments Calibration Due Date	30.10.2026 & 09.09.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	13.03.2026
2	Stack Gas Temperature (°C)	131
3	Ambient Temperature (°C)	32
4	Stack Gas Velocity (m/s)	10.5
5	Stack Diameter (m)	0.5
6	Stack Height (m)	27mtrs from AGL
7	Cross Sectional Area (m^2)	0.196
8	Gas Discharge (Nm^3/hr)	7408.8

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
5	Non-Methane Hydrocarbon (as C)	mg/Nm^3	USEPA Method 25:2017	100	16.1

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ULR NO: TC148542600000772F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	8	Sample Collected On	05.03.2026
2	Stack Location	Electric Arc Furnace 'A' & 'B' (Primary Fume Extraction System) Location: Wheel Shop SMS	9	Sample Receipt On	05.03.2026
			10	Sample Collected By	Mr. Abhilash
3	Date of Analysis Completed/Date of Report	06.03.2026/09.03.2026	11	Sample RC No	4162
4	Data/Information obtained from the Customer (If Any)	NA	12	Condition of Test Item	Good
5	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	13	Sampling Plan Reference	EGSSPL/F/SOP/01
6	Particulars of the Instrument Used	Stack Monitoring Kit	14	Instrument SL No/Model	001-DTE-2015/EGSS-009
7	Instruments Calibrated Date	31.10.2025	15	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	05.03.2026
2	Stack Diameter (m)	4
3	Stack Height (m)	36mtrs from AGL
4	Cross Sectional Area (m^2)	12.572

Sl. No.	Process	Unique Identification No.	Ambient Temp (°C)	Stack Temp (°C)	Velocity (m/s)	Gas Discharge (Nm^3/hr)	Particulate Matter as PM	Sulphur dioxide as SO_2	Oxides of Nitrogen- NO_x (as NO_2)
1	With Lancing	2975	30	130	14.6	660784.3	77.1	23.5	28.4
2	Without Lancing	2976	30	102	13.2	597421.4	54.1	15.5	24.7
						Method	IS 11255 (P-1):1985 (RA 2024)	IS 11255 (P-2):1985 (RA 2024)	IS 11255 (P-7):2005 (RA 2022)
						Unit	mg/Nm^3	ppm	ppm
						Standard Limits	With Lancing 400	100	50
							Without Lancing 150		

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TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	8	Sample Collected On	05.03.2026
2	Stack Location	Electric Arc Furnace 'C' (Primary Fume Extraction System) Location: Wheel Shop SMS	9	Sample Receipt On	05.03.2026
			10	Sample Collected By	Mr. Abhilash
3	Date of Analysis Completed/Date of Report	06.03.2026/09.03.2026	11	Sample RC No	4163
4	Data/Information obtained from the Customer (If Any)	NA	12	Condition of Test Item	Good
5	Sampling Methodology	IS 11255 Part-3:2006 (RA 2023)	13	Sampling Plan Reference	EGSSPL/F/SOP/01
6	Particulars of the Instrument Used	Stack Monitoring Kit	14	Instrument Sl. No./Model	001-DTE-2015/EGSS-009
7	Instruments Calibrated Date	31.10.2025	15	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	05.03.2026
2	Stack Diameter (m)	2
3	Stack Height (m)	30mtrs from AGL
4	Cross Sectional Area (m^2)	3.143

Sl. No.	Process	Unique Identification No.	Ambient Temp (°C)	Stack Temp (°C)	Velocity (m/s)	Gas Discharge (Nm^3/hr)	Particulate Matter as PM	Sulphur dioxide as SO_2	Oxides of Nitrogen- NO_x (as NO_2)
1	With Lancing	2977	30	128	14.9	168590.5	70.5	22.6	26.9
2	Without Lancing	2978	30	109	13.0	147092.4	51.6	19.2	23.5
						Method	IS 11255 (P-1):1985 (RA 2024)	IS 11255 (P-2):1985 (RA 2024)	IS 11255 (P-7):2005 (RA 2022)
						Unit	mg/Nm^3	ppm	ppm
						Standard Limits	With Lancing 400	100	50
							Without Lancing 150		

Reviewed & Authorized Signatory
Technical Manager

End of Report

ECO GREEN SOLUTION SYSTEMS PVT LTD

EGSSPL

Recognized by Ministry Of Environment, Forest & Climate Change (MOEFCC) Govt. Of India, New Delhi, Dt: 27.11.2024 to 21.11.2027
An ISO 9001:2015 & ISO 45001:2018 Certified Company
48/A-4, KIADB Industrial Area, Doddaballapur, Bengaluru-561203
E-mail- lab@egsspl.in, ecogreen@egsspl.in

CIN NO: U74140KA2005PTC036991
EQSSPL/FEM/055
ULR NO: TC148542600000774F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	8	Sample Collected On	05.03.2026
2	Stack Location	Secondary Fume Extraction System for EAF - A, B & C Location: Wheel Shop SMS	9	Sample Receipt On	05.03.2026
			10	Sample Collected By	Mr. Abhilash
3	Date of Analysis Completed/Date of Report	06.03.2026/09.03.2026	11	Sample RC No	4164
4	Data/Information obtained from the Customer (If Any)	NA	12	Condition of Test Item	Good
5	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	13	Sampling Plan Reference	EQSSPL/F/SOP/01
6	Particulars of the Instrument Used	Stack Monitoring Kit	14	Instrument Sl No./Model	001-DTE-2015/ EGSS-009
7	Instruments Calibrated Date	31.10.2025	15	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	05.03.2026
2	Stack Diameter (m)	4
3	Stack Height (m)	36mts from AGL
4	Cross Sectional Area (m^2)	12.572

Sl. No.	Process	Unique Identification No.	Ambient Temp (°C)	Stack Temp (°C)	Velocity (m/s)	Gas Discharge (Nm^3/hr)	Particulate Matter as PM	Sulphur dioxide as SO_2	Oxides of Nitrogen- NO_x (as NO_2)
1	With Lancing	2979	30	135	14.8	669836.2	72.0	21.1	29.3
2	Without Lancing	2980	30	108	13.5	610999.2	51.0	19.8	22.5
						Method	IS 11255 (P-1):1985 (RA 2024)	IS 11255 (P-2):1985 (RA 2024)	IS 11255 (P-7):2005 (RA 2022)
						Unit	mg/Nm^3	ppm	ppm
						Standard Limits	With Lancing 400	100	50
							Without Lancing 150		

- Sample collected by EGSSPL Laboratory
- Sample collected was stored well in sealed dry container as per requirement and analysed.
- This test report is valid only for the Sample tested.
- This test report should not be reproduced except in full, without written approval from the laboratory.
- The test results relate only to the items tested.

Reviewed & Authorized Signatory
(B. Ashkan)
Technical Manager

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E-mail: lab@egspl.in, ecogreen@egspl.in

CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055
DLR NO: TC14854260000000829F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	8	Sample Collected On	09.03.2026
2	Stack Location	Electric Arc Furnace 'A' & 'B' (Primary Fume Extraction System) Location: Wheel Shop SMS	9	Sample Receipt On	09.03.2026
			10	Sample Collected By	Mr. Abhilash
3	Date of Analysis Completed/Date of Report	10.03.2026/12.03.2026	11	Sample RC No	4219
4	Data/Information obtained from the Customer (If Any)	NA	12	Condition of Test Item	Good
5	Sampling Methodology	[S 11255 Part-3:2008 (RA 2023]	13	Sampling Plan Reference	EGSSPL/F/SOP/01
6	Particulars of the Instrument Used	Stack Monitoring Kit	14	Instrument Sl. No./Model	001-DIE-2015/EGSS-009
7	Instruments Calibrated Date	31.10.2025	15	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	09.03.2026
2	Stack Diameter (m)	4
3	Stack Height (m)	36mtrs from AGL
4	Cross Sectional Area (m^2)	12.572

Sl. No.	Process	Unique Identification No.	Ambient Temp (°C)	Stack Temp (°C)	Velocity (m/s)	Gas Discharge (Nm^3/hr)	Particulate Matter as PM	Sulphur dioxide as SO_2	Oxides of Nitrogen- NO_x (as NO_2)
1	With Lancing (Running at the Same Time)	3009	30	153	14.5	656258.4	113	20.6	34.3
2	Without Lancing	3010	30	121	13.1	592895.5	57.8	18.4	21.9
						Method	IS 11255 (P-1):1985 (RA 2024)	IS 11255 (P-2):1985 (RA 2024)	IS 11255 (P-7):2005 (RA 2022)
						Unit	mg/Nm^3	ppm	ppm
						Standard Limits	With Lancing 400	100	50
							Without Lancing 150		

Reviewed & Authorised Signatory
(S. Asokan)
Technical Manager

End of Report

ECO GREEN SOLUTION SYSTEMS PVT LTD

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CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/065
ULR NO: TC148542600000830F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ - Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	8	Sample Collected On	09.03.2026
2	Stack Location	Electric Arc Furnace 'C' (Primary Fume Extraction System) Location: Wheel Shop SMS	9	Sample Receipt On	09.03.2026
			10	Sample Collected By	Mr. Abhilash
3	Date of Analysis Completed/Date of Report	10.03.2026/12.03.2026	11	Sample RC No	4226
4	Data/Information obtained from the Customer (If Any)	NA	12	Condition of Test Item	Good
5	Sampling Methodology	IS 11255 Part 3:2008 (RA 2023)	13	Sampling Plan Reference	EGSSPL/F/SOP/01
6	Particulars of the Instrument Used	Stack Monitoring Kit	14	Instrument Sl. No./Model	001-DTE-2015/EGSS-009
7	Instrument's Calibrated Date	31.10.2025	15	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	09.03.2026
2	Stack Diameter (m)	2
3	Stack Height (m)	30mtrs from AGL
4	Cross Sectional Area (m^2)	3.143

Sl. No.	Process	Unique Identification No.	Ambient Temp (°C)	Stack Temp (°C)	Velocity (m/s)	Gas Discharge (Nm^3/hr)	Particulate Matter as PM	Sulphur dioxide as SO_2	Oxides of Nitrogen- NO_x (as NO_2)
1	With Lancing	3011	30	132	13.3	150486.8	71.6	17.0	23.4
2	Without Lancing	3012	30	114	10.7	121068.4	53.8	11.8	20.1
						Method	IS 11255 (P 1):1985 (RA 2024)	IS 11255 (P 2):1985 (RA 2024)	IS 11255 (P-7):2006 (RA 2022)
						Unit	mg/Nm^3	ppm	ppm
						Standard Limits	With Lancing 400	100	50
							Without Lancing 150		

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(D. Anilkumar)
Technical Manager

End of Report

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CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055
ULR NO: TC148542500000631F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	8	Sample Collected On	09.03.2026
2	Stack Location	Secondary Fume Extraction System for EAF A, B & C Location: Wheel Shop SMS	9	Sample Receipt On	09.03.2026
			10	Sample Collected By	Mr. Abhilash
3	Date of Analysis Completed/Date of Report	10.03.2026/12.03.2026	11	Sample RC No	4221
4	Data/Information obtained from the Customer (If Any)	NA	12	Condition of Test Item	Good
5	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	13	Sampling Plan Reference	EGSSPL/F/SOP/01
6	Particulars of the Instrument Used	Stack Monitoring Kit	14	Instrument Sl. No./Model	001-DTE-2015/EGSS-009
7	Instruments Calibrated Date	31.10.2025	15	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	09.03.2026
2	Stack Diameter (m)	4
3	Stack Height (m)	36mtrs from AGL
4	Cross Sectional Area (m^2)	12.572

Sl. No.	Process	Unique Identification No.	Ambient Temp (°C)	Stack Temp (°C)	Velocity (m/s)	Gas Discharge (Nm^3/hr)	Particulate Matter as PM	Sulphur dioxide as SO_2	Oxides of Nitrogen- NO_x (as NO_2)
1	With Lancing	3013	30	139	13.6	615525.1	76.0	17.4	22.6
2	Without Lancing	3014	30	104	12.2	552162.2	54.2	14.0	19.7
						Method	IS 11255 (P-1):1985 (RA 2024)	IS 11255 (P-2):1985 (RA 2024)	IS 11255 (P-7):2005 (RA 2022)
						Unit	mg/Nm^3	ppm	ppm
						Standard Limits	With Lancing 400	100	50
							Without Lancing 150		

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Technical Manager

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EGSSPL

CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055
ULR NO: TC148542600000094F

TEST REPORT OF PROCESS Emission

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	8	Sample Collected On	16.03.2026
2	Stack Location	Electric Arc Furnace 'A' & 'B' (Primary Fume Extraction System) Location: Wheel Shop SMS	9	Sample Receipt On	16.03.2026
			10	Sample Collected By	Mr. Abhilash
3	Date of Analysis Completed / Date of Report	17.03.2026 / 20.03.2026	11	Sample RC No	4375
4	Data/Information obtained from the Customer (If Any)	NA	12	Condition of Test Item	Good
5	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	13	Sampling Plan Reference	EGSSPL/F/SOP/01
6	Particulars of the Instrument Used	Stack Monitoring Kit	14	Instrument Sl. No./Model	001-DTE-2015/EGSS-009
7	Instruments Calibrated Date	31.10.2025	15	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	16.03.2026
2	Stack Diameter (m)	4
3	Stack Height (m)	36mtrs from AGL
4	Cross Sectional Area (m^2)	12.572

Sl. No.	Process	Unique Identification No.	Ambient Temp (°C)	Stack Temp (°C)	Velocity (m/s)	Gas Discharge (Nm^3/hr)	Particulate Matter as PM	Sulphur dioxide as SO_2	Oxides of Nitrogen- NOx (as NO_2)
1	With Lancing	3081	30	141	13.6	615525.1	79.3	25.1	30.7
2	Without Lancing	3082	30	121	12.3	555688.2	56.9	17.4	26.5
						Method	IS 11255 (P-1):1985 (RA 2024)	IS 11255 (P-2):1985 (RA 2024)	IS 11255 (P-7):2006 (RA 2022)
						Unit	mg/Nm^3	ppm	ppm
						Standard Limits	With Lancing 400	100	50
							Without Lancing 150		

Reviewed & Authorized Signatory
(S. Asokan)
Technical Manager

End of Report

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CIN NO: U74140KA2005PTC036991
EGSSPL/FRN/055
ULR NO: TC148542600000995P

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	8	Sample Collected On	16.03.2026
2	Stack Location	Electric Arc Furnace 'C' (Primary Fume Extraction System) Location: Wheel Shop SMS	9	Sample Receipt On	16.03.2026
			10	Sample Collected By	Mr. Abhilash
3	Date of Analysis Completed/Date of Report	17.03.2026/20.03.2026	11	Sample RC No	4376
4	Data/Information obtained from the Customer (If Any)	NA	12	Condition of Test Item	Good
5	Sampling Methodology	IS 11255 Part-3:2006 (RA 2023)	13	Sampling Plan Reference	EGSSPL/F/SOP/01
6	Particulars of the Instrument Used	Stack Monitoring Kit	14	Instrument Sl. No./Model	001-DTE-2015/EGSS-009
7	Instruments Calibrated Date	31.10.2025	15	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	16.03.2026
2	Stack Diameter (m)	2
3	Stack Height (m)	30mtrs from AGL
4	Cross Sectional Area (m^2)	3.143

Sl. No.	Process	Unique Identification No.	Ambient Temp (°C)	Stack Temp (°C)	Velocity (m/s)	Gas Discharge (Nm^3/hr)	Particulate Matter as PM	Sulphur dioxide as SO_2	Oxides of Nitrogen- NO_x (as NO_2)
1	With Lancing	3083	30	130	12.8	144829.4	72.7	24.1	28.3
2	Without Lancing	3084	30	108	12.3	139172	53.8	21.7	25.9
						Method	IS 11255 (P-1):1985 (RA 2024)	IS 11255 (P-2):1985 (RA 2024)	IS 11255 (P-7):2005 (RA 2022)
						Unit	mg/Nm^3	ppm	ppm
						Standard Limits	With Lancing 400	100	50
							Without Lancing 150		

1. Results are Based on TGSPL Laboratory
2. Sample collected and analysed as per the standard procedure
3. Test Report is confidential to Company's purposes only
4. The test report is valid only for the equipment/item tested and shall not be reproduced except in full without written approval from the laboratory
5. The Test Results relate only to the items tested
6. The results are valid as the date tested

Reviewed & Authorized Signatory
Technical Manager

****End of Report****

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CIN NO: U74140KA2005PTC036991

EGSSPL/FRM/055

ULR NO: TC148542600000996F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	8	Sample Collected On	16.03.2026
2	Stack Location	Secondary Fume Extraction System for EAF - A, B & C Location: Wheel Shop SMS	9	Sample Receipt On	16.03.2026
			10	Sample Collected By	Mr. Abhilash
3	Date of Analysis Completed/Date of Report	17.03.2026/20.03.2026	11	Sample RC No	4377
4	Data/Information obtained from the Customer (If Any)	NA	12	Condition of Test Item	Good
5	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	13	Sampling Plan Reference	EGSSPL/F/SOP/01
6	Particulars of the Instrument Used	Stack Monitoring Kit	14	Instrument Sl. No./Model	001-DTE-2015/EGSS-009
7	Instruments Calibrated Date	31.10.2025	15	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	16.03.2026
2	Stack Diameter (m)	4
3	Stack Height (m)	36mtrs from AGL
4	Cross Sectional Area (m^2)	12.572

Sl. No.	Process	Unique Identification No.	Ambient Temp (°C)	Stack Temp (°C)	Velocity (m/s)	Gas Discharge (Nm^3/hr)	Particulate Matter as PM	Sulphur dioxide as SO_2	Oxides of Nitrogen- NO_x (as NO_2)
1	With Lancing	3085	30	148	14.3	647206.6	74.8	23.4	32.6
2	Without Lancing	3086	30	128	13.2	597421.4	58.9	21.7	24.3
						Method	IS 11255 (P-1):1985 (RA 2024)	IS 11255 (P-2):1985 (RA 2024)	IS 11255 (P-7):2005 (RA 2022)
						Unit	mg/Nm^3	ppm	ppm
						Standard Limits	With Lancing 400	100	50
							Without Lancing 150		

Reviewed By Authorised Signatory
(S. Asokan)
Technical Manager

End of Report

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CIN NO: U74140KA2005PTC036991

EGSSPL/FRM/055
ULR NO: TC148542600001055F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	8	Sample Collected On	23.03.2026
2	Stack Location	Electric Arc Furnace 'A' & 'B' (Primary Fume Extraction System) Location: Wheel Shop SMS	9	Sample Receipt On	23.03.2026
			10	Sample Collected By	Mr. Abhilash
3	Date of Analysis Completed/Date of Report	24.03.2026/26.03.2026	11	Sample RC No	4431
4	Data/Information obtained from the Customer (If Any)	NA	12	Condition of Test Item	Good
5	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	13	Sampling Plan Reference	EGSSPL/F/SOP/01
6	Particulars of the Instrument Used	Stack Monitoring Kit	14	Instrument Sl. No./Model	001-DTE-2015/EGSS-009
7	Instruments Calibrated Date	31.10.2025	15	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	23.03.2026
2	Stack Diameter (m)	4
3	Stack Height (m)	36mtrs from AGL
4	Cross Sectional Area (m^2)	12.572

Sl. No.	Process	Unique Identification No.	Ambient Temp (°C)	Stack Temp (°C)	Velocity (m/s)	Gas Discharge (Nm^3/hr)	Particulate Matter as PM	Sulphur dioxide as SO_2	Oxides of Nitrogen- NO_x (as NO_2)
1	With Lancing	3124	32	142	13.6	615525.1	76.7	22.8	28.3
2	Without Lancing	3125	32	114	12.3	556688.2	54.5	18.7	26.3
						Method	IS 11255 (P-1):1985 (RA 2024)	IS 11255 (P-2):1985 (RA 2024)	IS 11255 (P-7):2006 (RA 2022)
						Unit	mg/Nm^3	ppm	ppm
						Standard Limits	With Lancing 400	100	50
							Without Lancing 150		

Reviewed & Authorized Signatory
S. Asokan
Technical Manager

End of Report

ECO GREEN SOLUTION SYSTEMS PVT LTD

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CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055
ULR NO: TC148542600001055F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	8	Sample Collected On	23.03.2026
2	Stack Location	Electric Arc Furnace 'C' (Primary Fume Extraction System) Location: Wheel Shop SM3	9	Sample Receipt On	23.03.2026
			10	Sample Collected By	Mr. Abhilash
3	Date of Analysis Completed/Date of Report	24.03.2026/26.03.2026	11	Sample RC No	4432
4	Data/Information obtained from the Customer (If Any)	NA	12	Condition of Test Item	Good
5	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	13	Sampling Plan Reference	EGSSPL/F/SOP/01
6	Particulars of the Instrument Used	Stack Monitoring Kit	14	Instrument Sl. No./Model	001-DTR-2015/EGSS-009
7	Instruments Calibrated Date	31.10.2025	15	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	22.03.2026
2	Stack Diameter (m)	2
3	Stack Height (m)	30mtrs from AGL
4	Cross Sectional Area (m^2)	3.143

Sl. No.	Process	Unique Identification No.	Ambient Temp (°C)	Stack Temp (°C)	Velocity (m/s)	Gas Discharge (Nm^3/hr)	Particulate Matter as PM	Sulphur dioxide as SO_2	Oxides of Nitrogen-NOx (as NO_2)
1	With Lancing	3126	32	128	13.0	147092.4	68.9	23.7	29.9
2	Without Lancing	3127	32	108	11.9	134646.1	55.3	19.9	24.3
						Method	IS 11255 (P-1):1985 (RA 2024)	IS 11255 (P-2):1985 (RA 2024)	IS 11255 (P-7):2005 (RA 2022)
						Unit	mg/Nm^3	ppm	ppm
						Standard Limits	With Lancing 400 Without Lancing 150	100	50

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Technical Manager

End of Report

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CIN NO: U74140KA2005PTC036991

EGSSPL/FRM/055

ULR NO: TC148542600000105 7P

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	8	Sample Collected On	23.03.2026
2	Stack Location	Secondary Fume Extraction System for EAF - A, B & C Location: Wheel Shop SMS	9	Sample Receipt On	23.03.2026
			10	Sample Collected By	Mr. Abhilash
3	Date of Analysis Completed/Date of Report	24.03.2026/26.03.2026	11	Sample RC No	4433
4	Data/Information obtained from the Customer (If Any)	NA	12	Condition of Test Item	Good
5	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	13	Sampling Plan Reference	EGSSPL/F/SOP/01
6	Particulars of the Instrument Used	Stack Monitoring Kit	14	Instrument Sl. No./Model	OD1-DTE-2015/EGSS-009
7	Instruments Calibrated Date	31.10.2025	15	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	23.03.2026
2	Stack Diameter (m)	4
3	Stack Height (m)	36mtrs from AGL
4	Cross Sectional Area (m^2)	12.572

Sl. No.	Process	Unique Identification No.	Ambient Temp (°C)	Stack Temp (°C)	Velocity (m/s)	Gas Discharge (Nm^3/hr)	Particulate Matter as PM	Sulphur dioxide as SO_2	Oxides of Nitrogen- NO_2 (as NO_2)
1	With Lancing	3128	32	144	14.0	639628.8	77.2	23.6	34.8
2	Without Lancing	3129	32	108	12.7	574791.8	61.3	23.1	26.8
						Method	IS 11255 (P-1):1985 (RA 2024)	IS 11255 (P-2):1985 (RA 2024)	IS 11255 (P-7):2005 (RA 2022)
						Unit	mg/Nm^3	ppm	ppm
						Standard Limits	With Lancing 400	100	50
							Without Lancing 150		

Reviewed & Authorised Signatory
(S. Asokan)
Technical Manager

End of Report

EGSSPL

ECO GREEN SOLUTION SYSTEMS PVT LTD

Recognized by Ministry Of Environment, Forest & Climate Change (MOEFCC) Govt. Of India, New Delhi, Dt: 27.11.2024 to 21.11.2027
An ISO 9001:2015 & ISO 45001:2018 Certified Company
45/A-1, KIADB Industrial Area, Doddaballapur, Bengaluru-561203
E-mail: lab@egsspl.in, ecogreen@egsspl.in

CIN NO: U74140KA2005PTC036901
EGSSPL/FRM/055
ULR NO: TC148542600000779F

Ambient Air Quality Analysis Report

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	7	Sample Collected On	02.03.2026
2	Date of Analysis Completed/Date of Report	04.03.2026/06.03.2026	8	Sample Receipt On	03.03.2026
3	Sampling Methodology	IS 5182 Part-5: 2020 (RA 2024)	9	SRC Code	4169
4	Sampling Plan Reference	EGSSPL/F/SOP/01	10	Sample Collected By	Mr. Abhilash
5	Data/Information obtained from the Customer (If Any)	NA	11	Condition of Test Item	Good
6	Monitoring Done By	M/s. Eco Green Solution Systems Pvt. Ltd.	12	Monitoring Duration	24hrs

Instrument Details	$PM_{2.5}$ (Fine Particulate Sampler)	PM_{10} (Respirable Dust Sampler)
Make/Model No.	Eco Green Instruments/ EGSS-007	Eco Green Instruments/ EGSS-NL-011
Sl. No.	001, 002, 003	001, 002, 003
Instrument Calibrated Date	31.10.2025	31.10.2025
Instrument Calibration Due Date	30.10.2026	30.10.2026

Sl. No.	Name of the Location	Unique Identification No.	Particulate Matter (PM_{10})	Particulate Matter ($PM_{2.5}$)	Sulphur Dioxide as SO_2	Nitrogen Dioxide as NO_2
1	Near RT Shop	765	58.2	27.1	12.9	22.8
2	Near M Lab	766	55.0	24.6	11.3	20.5
3	Near Axle Shop RHF & Scrap Cutting	767	62.0	29.6	14.5	24.1
NAAQ Standards			100	60	80	80
Unit			µg/m³	µg/m³	µg/m³	µg/m³
Method			IS 5182 (Part 23):2006 2022	IS 5182 (Part 24):2019 2024	IS 5182 (Part 2):2018 2023	IS 5182 (Part 6):2006 2022

Reviewed By Authorized Signatory
(S. Ashkan)
Technical Manager

End of Report

ECO GREEN SOLUTION SYSTEMS PVT LTD

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48/A-4, KIADB Industrial Area, Doddaballapur, Bengaluru-561203
E-mail: lab@egsspl.in, ecogreen@egsspl.in

CIN NO: U74140KA2005PTC036991
EGSSPL/FRN/055
ULR NO: TC148542600000814P

Ambient Air Quality Analysis Report

1	Customer Name & Address	M/s. RWF HQ - Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	7	Sample Collected On	05.03.2026
2	Date of Analysis Completed/Date of Report	07.03.2026/09.03.2026	8	Sample Receipt On	06.03.2026
3	Sampling Methodology	IS 5182 Part-5: 2020 (RA 2024)	9	SRC Code	4204
4	Sampling Plan Reference	EGSSPL/F/SOP/01	10	Sample Collected By	Mr. Abhilash
5	Data/Information obtained from the Customer (If Any)	NA	11	Condition of Test Item	Good
6	Monitoring Done By	M/s. Eco Green Solution Systems Pvt. Ltd.	12	Monitoring Duration	24hrs

Instrument Details	$PM_{2.5}$ (Fine Particulate Sampler)	PM10 (Respirable Dust Sampler)
Make/Model No.	Eco Green Instruments/ EGSS-007	Eco Green Instruments/ EGSS-ML-011
Sl. No.	001, 002, 003	001, 002, 003
Instrument Calibrated Date	31.10.2025	31.10.2025
Instrument Calibration Due Date	30.10.2026	30.10.2026

Sl. No.	Name of the Location	Unique Identification No.	Particulate Matter (PM_{10})	Particulate Matter ($PM_{2.5}$)	Sulphur Dioxide as SO_2	Nitrogen Dioxide as NO_2
1	Near RT Shop	768	60.3	30.3	15.1	23.9
2	Near M Lab	769	54.4	26.2	16.1	21.7
3	Near Axle Shop RHF & Scrap Cutting	770	66.1	32.1	16.5	22.9
NAAQ Standards			100	60	80	80
Unit			µg/m³	µg/m³	µg/m³	µg/m³
Method			IS 5182 (Part 23):2006 2022	IS 5182 (Part 24):2019 2024	IS 5182 (Part 2):2018 2023	IS 5182 (Part 6):2006 2022

Reviewed & Authorized Signatory
Technical Manager

End of Report

ECO GREEN SOLUTION SYSTEMS PVT LTD

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E mail: lab@egsspl.in, ecogreen@egsspl.in

CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055
ULR NO: TC148542600000843F

Ambient Air Quality Analysis Report

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	7	Sample Collected On	09.03.2026
2	Date of Analysis Completed/Date of Report	11.03.2026/13.03.2026	8	Sample Receipt On	10.03.2026
3	Sampling Methodology	IS 5182 Part-5: 2020 (RA 2024)	9	SRC Code	4240
4	Sampling Plan Reference	EGSSPL/F/SOP/01	10	Sample Collected By	Mr. Abhilash
5	Data/Information obtained from the Customer (If Any)	NA	11	Condition of Test Item	Good
6	Monitoring Done By	M/s. Eco Green Solution Systems Pvt. Ltd.	12	Monitoring Duration	24hrs

Instrument Details	**$PM_{2.5}$ (Fine Particulate Sampler)**	**PM_{10} (Respirable Dust Sampler)**
Make/Model No.	Eco Green Instruments/ EGSS-007	Eco Green Instruments/ EGSS-NL-011
Sl. No	001, 002, 003	001, 002, 003
Instrument Calibrated Date	31.10.2025	31.10.2025
Instrument Calibration Due Date	30.10.2026	30.10.2026

Sl. No.	**Name of the Location**	**Unique Identification No.**	**Particulate Matter (PM_{10})**	**Particulate Matter ($PM_{2.5}$)**	**Sulphur Dioxide as SO_2**	**Nitrogen Dioxide as NO_2**
1	Near RT Shop	771	63.9	29.9	14.4	21.1
2	Near M Lab	772	60.5	28.3	12.9	19.9
3	Near Axle Shop RHF & Scrap Cutting	773	66.7	32.9	15.0	18.8
NAAQ Standards			100	60	80	80
Unit			µg/m³	µg/m³	µg/m³	µg/m³
Method			IS 5182 (Part 23):2006 2022	IS 5182 (Part 24):2019 2024	IS 5182 (Part 2):2018 2023	IS 5182 (Part 6):2006 2022

1. Results relevant only for tested sample.
2. Sample will be disposed after 7 days of report.
3. Subject to jurisdiction in Bengaluru only.
4. This test report cannot be reproduced in any manner or form or published without written approval from the laboratory.
5. The valid validity of this laboratory is limited to calibration only.
6. The results do not apply to the items tested.

Reviewed & Authorized Signatory
R. Asokan
Technical Manager

****End of Report****

ECO GREEN SOLUTION SYSTEMS PVT LTD

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CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055
ULR NO: TC1485426000000960F

Ambient Air Quality Analysis Report

1	Customer Name & Address	M/s. RWF BQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	7	Sample Collected On	12.03.2026
2	Date of Analysis Completed/Date of Report	14.03.2026/ 16.03.2026	8	Sample Receipt On	13.03.2026
3	Sampling Methodology	IS 5182 Part-5: 2020 (RA 2024)	9	SRC Code	4343
4	Sampling Plan Reference	EGSSPL/F/SOP/01	10	Sample Collected By	Mr. Abhilash
5	Date/Information obtained from the Customer (If Any)	NA	11	Condition of Test Item	Good
6	Monitoring Done By	M/s. Eco Green Solution Systems Pvt. Ltd.	12	Monitoring Duration	24hrs

Instrument Details	$PM_{2.5}$ (Fine Particulate Sampler)	PM_{10} (Respirable Dust Sampler)
Make/Model No.	Eco Green Instruments/ EGSS-007	Eco Green Instruments/ EGSS-ML-011
Sl. No.	001, 002, 003	001, 002, 003
Instrument Calibrated Date	31.10.2025	31.10.2025
Instrument Calibration Due Date	30.10.2026	30.10.2026

Sl. No.	Name of the Location	Unique Identification No.	Particulate Matter (PM_{10})	Particulate Matter ($PM_{2.5}$)	Sulphur Dioxide as SO_2	Nitrogen Dioxide as NO_2
1	Near RT Shop	788	67.1	33.3	17.7	25.3
2	Near M Lab	789	65.8	30.3	15.0	22.0
3	Near Axle Shop RHF & Scrap Cutting	790	68.1	34.9	17.1	26.3
NAAQ Standards			100	60	80	80
Unit			µg/m³	µg/m³	µg/m³	µg/m³
Method			IS 5182 (Part 23):2006 2022	IS 5182 (Part 24):2019 2024	IS 5182 (Part 2):2018 2023	IS 5182 (Part 6):2006 2022

Reviewed & Authorised Signatory
S. Asokan,
Technical Manager

End of Report

ECO GREEN SOLUTION SYSTEMS PVT LTD

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CIN NO: U74140KA2005PTC036991

EGSSPL/FRM/055

ULR NO: TC148542600000997F

Ambient Air Quality Analysis Report

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	7	Sample Collected On	16.03.2026
2	Date of Analysis Completed/Date of Report	18.03.2026/20.03.2026	8	Sample Receipt On	17.03.2026
3	Sampling Methodology	IS 5182 Part-5: 2020 (RA 2024)	9	SRC Code	4378
4	Sampling Plan Reference	EGSSPL/P/SOP/01	10	Sample Collected By	Mr. Abhilash
5	Data/Information obtained from the Customer (If Any)	NA	11	Condition of Test Item	Good
6	Monitoring Done By	M/s. Eco Green Solution Systems Pvt. Ltd.	12	Monitoring Duration	24hrs

Instrument Details	$PM_{2.5}$ (Fine Particulate Sampler)	PM_{10} (Respirable Dust Sampler)
Make/Model No.	Eco Green Instruments/ EGSS-007	Eco Green Instruments/ EGSS-NL-011
Sl. No.	001, 002, 003	001, 002, 003
Instrument Calibrated Date	31.10.2025	31.10.2025
Instrument Calibration Due Date	30.10.2026	30.10.2026

Sl. No.	Name of the Location	Unique Identification No.	Particulate Matter (PM_{10})	Particulate Matter ($PM_{2.5}$)	Sulphur Dioxide as SO_2	Nitrogen Dioxide as NO_2
1	Near RT Shop	801	64.8	31.1	15.0	22.8
2	Near M Lab	802	62.7	28.2	12.9	20.6
3	Near Axle Shop RHF & Scrap Cutting	803	72.4	36.1	19.3	28.1
NAAQ Standards			100	60	80	80
Unit			µg/m³	µg/m³	µg/m³	µg/m³
Method			IS 5182 (Part 23):2006 2022	IS 5182 (Part 24):2019 2024	IS 5182 (Part 2):2018 2023	IS 5182 (Part 6):2006 2022

1. Results reported are related to the sample tested.
2. Reproduction of this report is not permitted except in full without written approval from the laboratory.
3. Any corrections must be reported to the issuing laboratory.
4. This report shall not be used for any legal purpose.

Reviewed & Authorized Signatory
MS. Asokan
Technical Manager

End of Report

ECO GREEN SOLUTION SYSTEMS PVT LTD

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E-mail: lab@egsspl.in, ecogreen@egsspl.in

CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055
ULR NO: TC148542600001071F

Ambient Air Quality Analysis Report

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	7	Sample Collected On	17.03.2026
2	Date of Analysis Completed/Date of Report	20.03.2026/23.03.2026	8	Sample Receipt On	18.03.2026
3	Sampling Methodology	IS 5182 Part-5: 2020 (RA 2024)	9	SRC Code	4447
4	Sampling Plan Reference	EGSSPL/F/SOP/01	10	Sample Collected By	Mr. Abhilash
5	Data/Information obtained from the Customer (If Any)	NA	11	Condition of Test Item	Good
6	Monitoring Done By	M/s. Eco Green Solution Systems Pvt. Ltd.	12	Monitoring Duration	24hrs

Instrument Details	$PM_{2.5}$ (Fine Particulate Sampler)	PM_{10} (Respirable Dust Sampler)
Make/Model No.	Eco Green Instruments/ EGSS-007	Eco Green Instruments/ EGSS-NL-011
Sl. No.	001, 002, 003	001, 002, 003
Instrument Calibrated Date	31.10.2025	31.10.2025
Instrument Calibration Due Date	30.10.2026	30.10.2026

Sl. No.	Name of the Location	Unique Identification No.	Particulate Matter (PM_{10})	Particulate Matter ($PM_{2.5}$)	Sulphur Dioxide as SO_2	Nitrogen Dioxide as NO_2
1	Near RT Shop	820	66.8	32.9	17.7	23.6
2	Near M Lab	821	63.2	30.4	14.4	22.3
3	Near Axle Shop RHP & Scrap Cutting	822	74.7	38.0	22.4	33.8
NAAQ Standards			100	60	80	80
Unit			µg/m³	µg/m³	µg/m³	µg/m³
Method			IS 5182 (Part 23):2006 2022	IS 5182 (Part 24):2019 2024	IS 5182 (Part 2):2018 2023	IS 5182 (Part 6):2006 2022

Reviewed & Authorized Signatory
S. Asokan
Technical Manager

End of Report

ECO GREEN SOLUTION SYSTEMS PVT LTD

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CIN NO: U74140KA2005PTC036991

EGSSPL/FRM/055

ULR NO: TC148542600001096F

Ambient Air Quality Analysis Report

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	7	Sample Collected On	23.03.2026
2	Date of Analysis Completed/Date of Report	25.03.2026/27.03.2026	8	Sample Receipt On	24.03.2026
3	Sampling Methodology	IS 5182 Part-5: 2020 (RA 2024)	9	SRC Code	4477
4	Sampling Plan Reference	EGSSPL/F/SOP/01	10	Sample Collected By	Mr. Abhilash
5	Data/Information obtained from the Customer (If Any)	NA	11	Condition of Test Item	Good
6	Monitoring Done By	M/s. Eco Green Solution Systems Pvt. Ltd.	12	Monitoring Duration	24hrs

Instrument Details	$PM_{2.5}$ (Fine Particulate Sampler)	PM_{10} (Respirable Dust Sampler)
Make/Model No.	Eco Green Instruments/ EGSS-007	Eco Green Instruments/ EGSS-NL-011
Sl. No	001, 002, 003	001, 002, 003
Instrument Calibrated Date	31.10.2025	31.10.2025
Instrument Calibration Due Date	30.10.2026	30.10.2026

Sl. No.	Name of the Location	Unique Identification No.	Particulate Matter (PM_{10})	Particulate Matter ($PM_{2.5}$)	Sulphur Dioxide as SO_2	Nitrogen Dioxide as NO_2
1	Near RT Shop	834	65.4	30.4	15.2	22.8
2	Near M Lab	835	64.4	28.6	12.8	25.2
3	Near Axle Shop RHF & Scrap Cutting	836	68.1	31.8	17.0	26.6
NAAQ Standards			100	60	80	80
Unit			µg/m³	µg/m³	µg/m³	µg/m³
Method			IS 5182 (Part 23):2005 2022	IS 5182 (Part 24):2019 2024	IS 5182 (Part 2):2018 2023	IS 5182 (Part 6):2006 2022

Reviewed & Authorized Signatory
(S. Asokan)
Technical Manager

End of Report

ECO GREEN SOLUTION SYSTEMS PVT LTD

EGSSPL

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CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055
ULR NO: TC148542600000111SF

Ambient Air Quality Analysis Report

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	7	Sample Collected On	26.03.2026
2	Date of Analysis Completed/Date of Report	28.03.2026/31.03.2026	8	Sample Receipt On	27.03.2026
3	Sampling Methodology	IS 5182 Part-5: 2020 (RA 2024)	9	SRC Code	4497
4	Sampling Plan Reference	EGSSPL/F/SOP/01	10	Sample Collected By	Mr. Abhilash
5	Data/Information obtained from the Customer (If Any)	NA	11	Condition of Test Item	Good
6	Monitoring Done By	M/s. Eco Green Solution Systems Pvt. Ltd.	12	Monitoring Duration	24hrs

Instrument Details	$PM_{2.5}$ (Fine Particulate Sampler)	PM_{10} (Respirable Dust Sampler)
Make/Model No.	Eco Green Instruments/ EGSS-007	Eco Green Instruments/ EGSS-NL-011
Sl. No.	001, 002, 003	001, 002, 003
Instrument Calibrated Date	31.10.2025	31.10.2025
Instrument Calibration Due Date	30.10.2026	30.10.2026

Sl. No.	Name of the Location	Unique Identification No.	Particulate Matter (PM_{10})	Particulate Matter ($PM_{2.5}$)	Sulphur Dioxide as SO_2	Nitrogen Dioxide as NO_2
1	Near RT Shop	848	68.2	34.5	19.3	25.2
2	Near M Lab	849	64.9	32.8	16.1	24.6
3	Near Axle Shop RHF & Scrap Cutting	850	70.4	36.2	22.5	28.1
NAAQ Standards			100	60	80	80
Unit			µg/m³	µg/m³	µg/m³	µg/m³
Method			IS 5182 (Part 23):2006 2022	IS 5182 (Part 24):2019 2024	IS 5182 (Part 2):2018 2023	IS 5182 (Part 6):2006 2022

Reviewed & Authorized Signatory
(S. Asokan)
Technical Manager

End of Report

SNEHA TEST HOUSE PRIVATE LIMITED

Recognised by EPA 1986, Govt. of India

TEST REPORT

Report no:	STHPL/2026/00559		
Issued To:	**M/S. RAIL WHEEL FACTORY,** Indian Railways, Yelahanka, Bangalore-560064		
Contact Person:	-	Contact Details:	-
Sample Details (Customer Provided Details)			
Sample Name:	**BWSSB (OHT)**	Sample Quantity:	2ltr
Sample Package:	PE Container Tightly closed	Location:	-
Batch No/Sample Marked/Any other information	-		
Laboratory Details			
Condition of Sample at Receipt:	Good	Sample Collected on:	16.01.2026
Sampling By:	Not Applicable	Sample Receipt Date:	16.01.2026
Sample Collected by:	Representative of STH (Mr.Shnatha kumar)	Analysis Started Date:	16.01.2026
Sampling Procedure:	Not Applicable	Analysis Completed Date:	23.01.2026
Report Issue Date:	23.01.2026	Page No:	1 of 3
Any other information:	-		

Discipline: Chemical
Group: Water
Subgroup: Water
Description: Colourless, odourless, transparent liquid.

SL. No	Parameter	Units	Results	Maximum Acceptable Limit as per IS:10500-2012	Maximum Permissible Limits In The Absence of Alternate Source as per IS:10500-2012	Test Method
1	Colour	Hz	<2.0	5 max	15 max	IS 3025 (Part 4)
2	pH value	-	7.65	6.5-8.5	No relaxation	IS 3025 (Part 11)
3	Conductivity	µS/cm	470	---	---	IS:3025(Part-14)
4	Turbidity	NTU	0.5	1 max	5 max	IS 3025 (Part 10)
5	Total Dissolved Solids	mg/l	278	500 max	2000 max	IS 3025 (Part 16)
6	Aluminium (as Al)	mg/l	< 0.01	0.03 max	0.2 max	IS 3025 (Part 65)
7	Ammonia (as total ammonia-N)	mg/l	< 0.1	0.5 max	No relaxation	IS 3025 (Part 34)
8	Boron (as B)	mg/l	< 0.1	0.5 max	2.4 max	IS 3025 (Part 57)
9	Calcium (as Ca)	mg/l	45.3	75 max	200 max	IS 3025 (Part 40)
10	Chloride (as Cl)	mg/l	134.7	250 max	1000 max	IS 3025 (Part 32)
11	Copper (as Cu)	mg/l	< 0.05	0.05 max	1.5 max	IS 3025 (Part 42)
12	Fluoride (as F)	mg/l	<0.1	1.0 max	1.5 max	APHA (24th Edition:2017) 4500 -F
13	Free residual chlorine as C12	mg/l	<0.1	0.2 minimum	1.0 minimum	IS 3025 (Part 26)
14	Iron (as Fe)	mg/l	<0.05	1.0 max	No relaxation	IS 3025 (Part 53)

Min: Minimum
NOTE: The Test Residual free Chlorine is applicable only when water is chlorinated.

Verified By

T.A. NAGARAJ Director

Authorised Signatory

No. 8 and No. 28, 4th Cross, Maruthi Nagar, Chandra Layout 80ft Road, Bengaluru - 560072
Phone: 080 - 23180113 | Mobile: 9611324429 / 9844027167
lab.snehatesthouse@gmail.com / info@sthlab.com | www.sthlab.com

SNEHA TEST HOUSE PRIVATE LIMITED

Recognised by EPA 1986, Govt. of India

TEST REPORT

Report no:	STHPL/2026/00559		
Issued To:	M/S. RAIL WHEEL FACTORY, Indian Railways, Yelahanka, Bangalore-560064		
Contact Person:	-	Contact Details:	-
Sample Details (Customer Provided Details)			
Sample Name:	BWSSB (OHT)	Sample Quantity:	2ltr
Sample Package:	PE Container Tightly closed	Location:	-
Batch No/Sample Marked/Any other information	-		
Laboratory Details			
Condition of Sample at Receipt:	Good	Sample Collected on:	16.01.2026
Sampling By:	Not Applicable	Sample Receipt Date:	16.01.2026
Sample Collected by:	Representative of STH (Mr.Shnatha kumar)	Analysis Started Date:	16.01.2026
Sampling Procedure:	Not Applicable	Analysis Completed Date:	23.01.2026
Report Issue Date:	23.01.2026	Page No:	2 of 3
Any other information:	-		

SL. No	Parameter	Units	Results	Maximum Acceptable Limit as per IS:10500-2012	Maximum Permissible Limits In The Absence of Alternate Source as per IS:10500-2012	Test Method
15	Magnesium (as Mg)	mg/l	6.9	30 max	100 max	IS 3025 (Part 46)
16	Manganese (as Ma)	mg/l	< 0.01	0.1 max	0.3 max	IS 3025 (Part 65)
17	Nitrate (as NO3)	mg/l	12.8	45 max	No relaxation	IS 3025 (Part 34)
18	Phenolic compounds (as C6H5OH)	mg/l	< 0.001	0.001max	0.002 max	IS 3025 (Part 43)
19	Selenium (as Se)	mg/l	< 0.001	0.01max	No relaxation	IS 3025 (Part 65)
20	Sulphate (as SO4)	mg/l	12.4	200 max	400 max	IS 3025 (Part 24)Sec1
21	Total alkalinity (as CaCO3)	mg/l	126.6	200 max	600 max	IS 3025 (Part 23)
22	Total hardness (as CaCO3)	mg/l	140.9	200 max	600 max	IS 3025 (Part 21)
23	Zinc (as Zn)	mg/l	< 0.01	5 max	15 max	IS 3025 (Part 49)
24	Cadmium (as Cd)	mg/l	< 0.001	0.003 max	No relaxation	IS 3025 (Part 65)
25	Cyanide (as CN)	mg/l	< 0.1	0.05 max	No relaxation	IS:3025(Part 27)Sec-I 2021
26	Lead (as Pb)	mg/l	< 0.001	0.01 max	No relaxation	IS 3025 (Part 47)
27	Mercury (as Hg)	mg/l	<0.0005	0.001 max	No relaxation	USEPA 200.8:2022
28	Molybdenum (as Mo)	mg/l	< 0.01	0.07 max	No relaxation	IS 3025 (Part-65)
29	Nickel (as Ni)	mg/l	< 0.001	0.02 max	No relaxation	IS 3025 (Part 65)
30	Total arsenic (as As)	mg/l	<0.001	0.01 max	No relaxation	IS 3025 (Part 65)
31	Total chromium (as Cr)	mg/l	<0.01	0.05 max	No relaxation	IS 3025 (Part 65)

Verified By

T.A. NAGARAJ Director

Authorised Signatory

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TEST REPORT

Report no:	STHPL/2026/00559		
Issued To:	**M/S. RAIL WHEEL FACTORY,** Indian Railways, Yelahanka, Bangalore-560064		
Contact Person:	-	Contact Details:	-
Sample Details (Customer Provided Details)			
Sample Name:	**BWSSB (OHT)**	Sample Quantity:	2ltr
Sample Package:	PE Container Tightly closed	Location:	-
Batch No/Sample Marked/Any other information	-		
Laboratory Details			
Condition of Sample at Receipt:	Good	Sample Collected on:	16.01.2026
Sampling By:	Not Applicable	Sample Receipt Date:	16.01.2026
Sample Collected by:	Representative of STH (Mr.Shnatha kumar)	Analysis Started Date:	16.01.2026
Sampling Procedure:	Not Applicable	Analysis Completed Date:	23.01.2026
Report Issue Date:	23.01.2026	Page No:	3 of 3
Any other information:	-		

Discipline: Biological
Group: Water
Subgroup: Water

SL. No	TEST PARAMETER	UNITS	RESULTS	LIMITS AS PER IS: 10500- 2012	TEST METHOD
1	Escherichia coli	100 ml	Absent	Absent	IS : 15185 :2016
2	Total coliforms	100 ml	Present	Absent	IS : 15185 :2016

Remarks: The above Tested Water Sample does not complies the acceptable limits as Per IS 10500:2012 for the above Tested parameters only.

Note: For Disclaimer Refer Back side of the Test Report

*****END OF REPORT*****

Verified By

Technical Manager SUSHASHINI

Authorised Signatory

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TEST REPORT

Report no:	STHPL/2026/00560		
Issued To:	**M/S. RAIL WHEEL FACTORY,** Indian Railways, Yelahanka, Bangalore-560064		
Contact Person:	-	Contact Details:	-
Sample Details (Customer Provided Details)			
Sample Name:	**RAIN WATER**	Sample Quantity:	2ltr
Sample Package:	PE Container Tightly closed	Location:	Low Laying Area
Batch No/Sample Marked/Any other information	-		
Laboratory Details			
Condition of Sample at Receipt:	Good	Sample Collected on:	16.01.2026
Sampling By:	Not Applicable	Sample Receipt Date:	16.01.2026
Sample Collected by:	Representative of STH (Mr.Shnatha kumar)	Analysis Started Date:	16.01.2026
Sampling Procedure:	Not Applicable	Analysis Completed Date:	23.01.2026
Report Issue Date:	23.01.2026	Page No:	1 of 3
Any other information:	-		

Discipline: Chemical
Group: Water
Subgroup: Water
Description: Pale yellow colour having unobjectionable odour

SL. No	Parameter	Units	Results	Maximum Acceptable Limit as per IS:10500-2012	Maximum Permissible Limits In The Absence of Alternate Source as per IS:10500-2012	Test Method
1	Colour	Hz	2.0	5 max	15 max	IS 3025 (Part 4)
2	pH value	-	7.42	6.5-8.5	No relaxation	IS 3025 (Part 11)
3	Conductivity	µS/cm	1740	---	---	IS:3025(Part-14)
4	Turbidity	NTU	1.2	1 max	5 max	IS 3025 (Part 10)
5	Total Dissolved Solids	mg/l	1038	500 max	2000 max	IS 3025 (Part 16)
6	Aluminium (as Al)	mg/l	< 0.02	0.03 max	0.2 max	IS 3025 (Part 55)
7	Ammonia (as total ammonia-N)	mg/l	< 0.1	0.5 max	No relaxation	IS 3025 (Part 34)
8	Boron (as B)	mg/l	< 0.1	0.5 max	2.4 max	IS 3025 (Part 57)
9	Calcium (as Ca)	mg/l	157.0	75 max	200 max	IS 3025 (Part 40)
10	Chloride (as Cl)	mg/l	526	250 max	1000 max	IS 3025 (Part 32)
11	Copper (as Cu)	mg/l	< 0.05	0.05 max	1.5 max	IS 3025 (Part 42)
12	Fluoride (as F)	mg/l	<0.1	1.0 max	1.5 max	Apha (24th Edition:2017) 4500 -F
13	Free residual chlorine as C12	mg/l	<0.1	0.2 minimum	1.0 minimum	IS 3025 (Part 26)
14	Iron (as Fe)	mg/l	<0.05	1.0 max	No relaxation	IS 3025 (Part 53)

Min: Minimum
NOTE: The Test Residual free Chlorine is applicable only when water is chlorinated

Verified By

T.A. NAGARAJ Director

Authorised Signatory

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TEST REPORT

Report no:	STHPL/2026/00560		
Issued To:	M/S. RAIL WHEEL FACTORY, Indian Railways, Yelahanka, Bangalore-560064		
Contact Person:	-	Contact Details:	-
Sample Details (Customer Provided Details)			
Sample Name:	RAIN WATER	Sample Quantity:	2ltr
Sample Package:	PE Container Tightly closed	Location:	Low Laying Area
Batch No/Sample Marked/Any other information	-		
Laboratory Details			
Condition of Sample at Receipt:	Good	Sample Collected on:	16.01.2026
Sampling By:	Not Applicable	Sample Receipt Date:	16.01.2026
Sample Collected by:	Representative of STH (Mr.Shnatha kumar)	Analysis Started Date:	16.01.2026
Sampling Procedure:	Not Applicable	Analysis Completed Date:	23.01.2026
Report Issue Date:	23.01.2026	Page No:	2 of 3
Any other information:	-		

SL. No	Parameter	Units	Results	Maximum Acceptable Limit as per IS:10500-2012	Maximum Permissible Limits In The Absence of Alternate Source as per IS:10500-2012	Test Method
15	Magnesium (as Mg)	mg/l	29.4	30 max	100 max	IS 3025 (Part 46)
16	Manganese (as Mn)	mg/l	< 0.01	0.1 max	0.3 max	IS 3025 (Part 65)
17	Nitrate (as NO3)	mg/l	31.0	45 max	No relaxation	IS 3025 (Part 34)
18	Phenolic compounds (as C6H5OH)	mg/l	< 0.001	0.001max	0.002 max	IS 3025 (Part 43)
19	Selenium (as Se)	mg/l	< 0.001	0.01max	No relaxation	IS 3025 (Part 65)
20	Sulphate (as SO4)	mg/l	33.4	200 max	400 max	IS 3025 (Part 24 Sec I
21	Total alkalinity (as CaCO3)	mg/l	482.4	200 max	600 max	IS 3025 (Part 23)
22	Total hardness (as CaCO3)	mg/l	510	200 max	600 max	IS 3025 (Part 21)
23	Zinc (as Zn)	mg/l	< 0.01	5 max	15 max	IS 3025 (Part 49)
24	Cadmium (as Cd)	mg/l	< 0.001	0.003 max	No relaxation	IS 3025 (Part 65)
25	Cyanide (as CN)	mg/l	< 0.1	0.05 max	No relaxation	IS:3025(Part 27)Sec-I 2021
26	Lead (as Pb)	mg/l	< 0.001	0.01 max	No relaxation	IS 3025 (Part 47)
27	Mercury (as Hg)	mg/l	< 0.0005	0.001 max	No relaxation	USEPA 200.8:2022
28	Molybdenum (as Mo)	mg/l	< 0.01	0.07 max	No relaxation	IS 3025 (Part-65)
29	Nickel (as Ni)	mg/l	< 0.001	0.02 max	No relaxation	IS 3025 (Part 65)
30	Total arsenic (as As)	mg/l	<0.001	0.01 max	No relaxation	IS 3025 (Part 65)
31	Total chromium (as Cr)	mg/l	<0.01	0.05 max	No relaxation	IS 3025 (Part 65)

Verified By

T.A. NAGARAJ ★ Authorised Signatory Director

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TEST REPORT

Report no:	STHPL/2026/00560		
Issued To:	**M/S. RAIL WHEEL FACTORY,** Indian Railways, Yelahanka, Bangalore-560064		
Contact Person:	-	Contact Details:	-
Sample Details (Customer Provided Details)			
Sample Name:	**RAIN WATER**	Sample Quantity:	2ltr
Sample Package:	PE Container Tightly closed	Location:	Low Laying Area
Batch No/Sample Marked/Any other information	-		
Laboratory Details			
Condition of Sample at Receipt:	Good	Sample Collected on:	16.01.2026
Sampling By:	Not Applicable	Sample Receipt Date:	16.01.2026
Sample Collected by:	Representative of STH (Mr.Shnatha kumar)	Analysis Started Date:	16.01.2026
Sampling Procedure:	Not Applicable	Analysis Completed Date:	23.01.2026
Report Issue Date:	23.01.2026	Page No:	3 of 3
Any other information:	-		

Discipline: Biological
Group: Water
Subgroup: Water

SL. No	TEST PARAMETER	UNITS	RESULTS	LIMITS AS PER IS: 10500- 2012	TEST METHOD
1	Escherichia coli	100 ml	Absent	Absent	IS : 15185 :2016
2	Total coliforms	100 ml	Present	Absent	IS : 15185 :2016

Remarks: The above Tested Water Sample does not complies the permissible Limits as Per IS 10500:2012 for the above Tested parameters only.
Note: For Disclaimer Refer Back side of the Test Report

END OF REPORT

Verified By

Technical Manager SUHASHINI

Authorised Signatory

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TEST REPORT

Report no:	STHPL/2026/00561		
Issued To:	**M/S. RAIL WHEEL FACTORY,** Indian Railways, Yelahanka, Bangalore-560064		
Contact Person:	-	Contact Details:	-
Sample Details (Customer Provided Details)			
Sample Name:	**SOMSHEKAR WELL**	Sample Quantity:	2ltr
Sample Package:	PE Container Tightly closed	Location:	-
Batch No/Sample Marked/Any other information	-		
Laboratory Details			
Condition of Sample at Receipt:	Good	Sample Collected on:	16.01.2026
Sampling By:	Not Applicable	Sample Receipt Date:	16.01.2026
Sample Collected by:	Representative of STH (Mr.Shnatha kumar)	Analysis Started Date:	16.01.2026
Sampling Procedure:	Not Applicable	Analysis Completed Date:	23.01.2026
Report Issue Date:	23.01.2026	Page No:	1 of 3
Any other information:	-		

Discipline: Chemical
Group: Water
Subgroup: Water
Deseription: Colourless, odourless, transparent liquid.

SL. No	Parameter	Units	Results	Maximum Acceptable Limit as per IS:10500-2012	Maximum Permissible Limits In The Absence of Alternate Source as per IS:10500-2012	Test Method
1	Colour	Hz	<2.0	5 max	15 max	IS 3025 (Part 4)
2	pH value	-	7.28	6.5-8.5	No relaxation	IS 3025 (Part 11)
3	Conductivity	µS/cm	1280	---	---	IS:3025(Part-14)
4	Turbidity	NTU	1.2	1 max	5 max	IS 3025 (Part 10)
5	Total Dissolved Solids	mg/l	758	500 max	2000 max	IS 3025 (Part 16)
6	Aluminium (as Al)	mg/l	< 0.01	0.03 max	0.2 max	IS 3025 (Part 65)
7	Ammonia (as total ammonia-N)	mg/l	< 0.1	0.5 max	No relaxation	IS 3025 (Part 34)
8	Boron (as B)	mg/l	< 0.1	0.5 max	2.4 max	IS 3025 (Part 57)
9	Calcium (as Ca)	mg/l	131.8	75 max	200 max	IS 3025 (Part 40)
10	Chloride (as Cl)	mg/l	362	250 max	1000 max	IS 3025 (Part 32)
11	Copper (as Cu)	mg/l	< 0.05	0.05 max	1.5 max	IS 3025 (Part 42)
12	Fluoride (as F)	mg/l	<0.1	1.0 max	1.5 max	Apha (24th Edition:2017) 4500 -F
13	Free residual chlorine as C12	mg/l	<0.1	0.2 minimum	1.0 minimum	IS 3025 (Part 26)
14	Iron (as Fe)	mg/l	<0.05	1.0 max	No relaxation	IS 3025 (Part 53)

Min: Minimum
NOTE: The Test Residual free Chlorine is applicable only when water is chlorinated.

Verified By

T.A. NAGARAJ Director

Authorised Signatory

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TEST REPORT

Report no:	STHPL/2026/00561		
Issued To:	M/S. RAIL WHEEL FACTORY, Indian Railways, Yelahanka, Bangalore-560064		
Contact Person:	-	Contact Details:	-
Sample Details (Customer Provided Details)			
Sample Name:	SOMSHEKAR WELL	Sample Quantity:	2ltr
Sample Package:	PE Container Tightly closed	Location:	-
Batch No/Sample Marked/Any other information	-		
Laboratory Details			
Condition of Sample at Receipt:	Good	Sample Collected on:	16.01.2026
Sampling By:	Not Applicable	Sample Receipt Date:	16.01.2026
Sample Collected by:	Representative of STH (Mr.Shnatha kumar)	Analysis Started Date:	16.01.2026
Sampling Procedure:	Not Applicable	Analysis Completed Date:	23.01.2026
Report Issue Date:	23.01.2026	Page No:	2 of 3
Any other information:	-		

SL. No	Parameter	Units	Results	Maximum Acceptable Limit as per IS:10500-2012	Maximum Permissible Limits In The Absence of Alternate Source as per IS:10500-2012	Test Method
15	Magnesium (as Mg)	mg/l	12.4	30 max	100 max	IS 3025 (Part 46)
16	Manganese (as Mn)	mg/l	< 0.01	0.1 max	0.3 max	IS 3025 (Part 65)
17	Nitrate (as NO3)	mg/l	32.0	45 max	No relaxation	IS 3025 (Part 34)
18	Phenolic compounds (as C6H5OH)	mg/l	< 0.001	0.001max	0.002 max	IS 3025 (Part 43)
19	Selenium (as Se)	mg/l	< 0.001	0.01max	No relaxation	IS 3025 (Part 65)
20	Sulphate (as SO4)	mg/l	34.8	200 max	400 max	IS 3025 (Part 24)Sec1
21	Total alkalinity (as CaCO3)	mg/l	362	200 max	600 max	IS 3025 (Part 23)
22	Total hardness (as CaCO3)	mg/l	377.7	200 max	600 max	IS 3025 (Part 21)
23	Zinc (as Zn)	mg/l	< 0.01	5 max	15 max	IS 3025 (Part 49)
24	Cadmium (as Cd)	mg/l	< 0.001	0.003 max	No relaxation	IS 3025 (Part 65)
25	Cyanide (as CN)	mg/l	< 0.1	0.05 max	No relaxation	IS:3025(Part 27)Sec-1 2021
26	Lead (as Pb)	mg/l	< 0.001	0.01 max	No relaxation	IS 3025 (Part 47)
27	Mercury (as Hg)	mg/l	< 0.0005	0.001 max	No relaxation	USEPA 200.8:2022
28	Molybdenum (as Mo)	mg/l	< 0.01	0.07 max	No relaxation	IS 3025 (Part-65)
29	Nickel (as Ni)	mg/l	< 0.001	0.02 max	No relaxation	IS 3025 (Part 65)
30	Total arsenic (as As)	mg/l	<0.001	0.01 max	No relaxation	IS 3025 (Part 65)
31	Total chromium (as Cr)	mg/l	<0.01	0.05 max	No relaxation	IS 3025 (Part 65)

Verified By

T.A. NAGARAJ Director

Authorised Signatory

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TEST REPORT

Report no:	STHPL/2026/00561		
Issued To:	**M/S. RAIL WHEEL FACTORY,** Indian Railways, Yelahanka, Bangalore-560064		
Contact Person:	-	Contact Details:	-
Sample Details (Customer Provided Details)			
Sample Name:	**SOMSHEKAR WELL**	Sample Quantity:	2ltr
Sample Package:	PE Container Tightly closed	Location:	-
Batch No/Sample Marked/Any other information	-		
Laboratory Details			
Condition of Sample at Receipt:	Good	Sample Collected on:	16.01.2026
Sampling By:	Not Applicable	Sample Receipt Date:	16.01.2026
Sample Collected by:	Representative of STH (Mr.Shnatha kumar)	Analysis Started Date:	16.01.2026
Sampling Procedure:	Not Applicable	Analysis Completed Date:	23.01.2026
Report Issue Date:	23.01.2026	Page No:	3 of 3
Any other information:	-		

Discipline: Biological
Group: Water
Subgroup: Water

SL. No	TEST PARAMETER	UNITS	RESULTS	LIMITS AS PER IS: 10500- 2012	TEST METHOD
1	Escherichia coli	100 ml	Absent *	Absent	IS : 15185 :2016
2	Total coliforms	100 ml	Present	Absent	IS : 15185 :2016

Remarks: The above Tested Water Sample does not complies the permissible Limits as Per IS 10500:2012 for the above Tested parameters only.
Note: For Disclaimer Refer Back side of the Test Report

*****END OF REPORT*****

Verified By

Technical Manager SUBHASHINI

Authorised Signatory

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TEST REPORT

Report no:	STHPL/2026/00562		
Issued To:	**M/S. RAIL WHEEL FACTORY,** Indian Railways, Yelahanka, Bangalore-560064		
Contact Person:	-	Contact Details:	-
Sample Details (Customer Provided Details)			
Sample Name:	**DAMODAR WELL**	Sample Quantity:	2ltr
Sample Package:	PE Container Tightly closed	Location:	-
Batch No/Sample Marked/Any other information	-		
Laboratory Details			
Condition of Sample at Receipt:	Good	Sample Collected on:	16.01.2026
Sampling By:	Not Applicable	Sample Receipt Date:	16.01.2026
Sample Collected by:	Representative of STH (Mr.Shnatha kumar)	Analysis Started Date:	16.01.2026
Sampling Procedure:	Not Applicable	Analysis Completed Date:	23.01.2026
Report Issue Date:	23.01.2026	Page No:	1 of 3
Any other information:	-		

Discipline: Chemical
Group: Water
Subgroup: Water
Description: Colourless, odourless, transparent liquid.

SL. No	Parameter	Units	Results	Maximum Acceptable Limit as per IS:10500-2012	Maximum Permissible Limits In The Absence of Alternate Source as per IS:10500-2012	Test Method
1	Colour	Hz	<2.0	5 max	15 max	IS 3025 (Part 4)
2	pH value	-	7.22	6.5-8.5	No relaxation	IS 3025 (Part 11)
3	Conductivity	µS/cm	1148	---	---	IS:3025(Part-14)
4	Turbidity	NTU	2.0	1 max	5 max	IS 3025 (Part 10)
5	Total Dissolved Solids	mg/l	689	500 max	2000 max	IS 3025 (Part 16)
6	Aluminium (as Al)	mg/l	< 0.01	0.03 max	0.2 max	IS 3025 (Part 65)
7	Ammonia (as total ammonia-N)	mg/l	< 0.1	0.5 max	No relaxation	IS 3025 (Part 34)
8	Boron (as B)	mg/l	< 0.1	0.5 max	2.4 max	IS 3025 (Part 57)
9	Calcium (as Ca)	mg/l	98.9	75 max	200 max	IS 3025 (Part 40)
10	Chloride (as Cl)	mg/l	372	250 max	1000 max	IS 3025 (Part 32)
11	Copper (as Cu)	mg/l	< 0.05	0.05 max	1.5 max	IS 3025 (Part 42)
12	Fluoride (as F)	mg/l	<0.1	1.0 max	1.5 max	Apha (24th Edition:2017) 4500 -F
13	Free residual chlorine as C12	mg/l	<0.1	0.2 minimum	1.0 minimum	IS 3025 (Part 26)
14	Iron (as Fe)	mg/l	<0.05	1.0 max	No relaxation	IS 3025 (Part 53)

Min: Minimum
NOTE: The Test Residual free Chlorine is applicable only when water is chlorinated.

Verified By

T.A. NAGARAJ Director

Authorised Signatory

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TEST REPORT

Report no:	STHPL/2026/00562		
Issued To:	**M/S. RAIL WHEEL FACTORY,** Indian Railways, Yelahanka, Bangalore-560064		
Contact Person:	-	Contact Details:	-
Sample Details (Customer Provided Details)			
Sample Name:	**DAMODAR WELL**	Sample Quantity:	2ltr
Sample Package:	PE Container Tightly closed	Location:	-
Batch No/Sample Marked/Any other information	-		
Laboratory Details			
Condition of Sample at Receipt:	Good	Sample Collected on:	16.01.2026
Sampling By:	Not Applicable	Sample Receipt Date:	16.01.2026
Sample Collected by:	Representative of STH (Mr.Shnatha kumar)	Analysis Started Date:	16.01.2026
Sampling Procedure:	Not Applicable	Analysis Completed Date:	23.01.2026
Report Issue Date:	23.01.2026	Page No:	2 of 3
Any other information:	-		

SL. No	Parameter	Units	Results	Maximum Acceptable Limit as per IS:10500-2012	Maximum Permissible Limits In The Absence of Alternate Source as per IS:10500-2012	Test Method
15	Magnesium (as Mg)	mg/l	24.8	30 max	100 max	IS 3025 (Part 46)
16	Manganese (as Mn)	mg/l	< 0.01	0.1 max	0.3 max	IS 3025 (Part 65)
17	Nitrate (as NO3)	mg/l	26.2	45 max	No relaxation	IS 3025 (Part 34)
18	Phenolic compounds (as C6H5OH)	mg/l	< 0.001	0.001max	0.002 max	IS 3025 (Part 43)
19	Selenium (as Se)	mg/l	< 0.001	0.01max	No relaxation	IS 3025 (Part 65)
20	Sulphate (as SO4)	mg/l	28.8	200 max	400 max	IS 3025 (Part 24)Sec1
21	Total alkalinity (as CaCO3)	mg/l	322	200 max	600 max	IS 3025 (Part 23)
22	Total hardness (as CaCO3)	mg/l	345	200 max	600 max	IS 3025 (Part 21)
23	Zinc (as Zn)	mg/l	< 0.01	5 max	15 max	IS 3025 (Part 49)
24	Cadmium (as Cd)	mg/l	< 0.001	0.003 max	No relaxation	IS 3025 (Part 65)
25	Cyanide (as CN)	mg/l	< 0.1	0.05 max	No relaxation	IS:3025(Part 27)Sec-1 2021
26	Lead (as Pb)	mg/l	< 0.001	0.01 max	No relaxation	IS 3025 (Part 47)
27	Mercury (as Hg)	mg/l	< 0.0005	0.001 max	No relaxation	USEPA 200.8:2022
28	Molybdenum (as Mo)	mg/l	< 0.01	0.07 max	No relaxation	IS 3025 (Part-65)
29	Nickel (as Ni)	mg/l	< 0.001	0.02 max	No relaxation	IS 3025 (Part 65)
30	Total arsenic (as As)	mg/l	<0.001	0.01 max	No relaxation	IS 3025 (Part 65)
31	Total chromium (as Cr)	mg/l	<0.01	0.05 max	No relaxation	IS 3025 (Part 65)

Verified By

T.A. NAGARAJ Director

★ Authorised Signatory

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SNEHA TEST HOUSE PRIVATE LIMITED

Recognised by EPA 1986, Govt. of India

TEST REPORT

Report no:	STHPL/2026/00563		
Issued To:	**M/S. RAIL WHEEL FACTORY,** Indian Railways, Yelahanka, Bangalore-560064		
Contact Person:	-	Contact Details:	-
Sample Details (Customer Provided Details)			
Sample Name:	**DAMODAR WELL FEER WELL**	Sample Quantity:	2ltr
Sample Package:	PE Container Tightly closed	Location:	-
Batch No/Sample Marked/Any other information	-		
Laboratory Details			
Condition of Sample at Receipt:	Good	Sample Collected on:	16.01.2026
Sampling By:	Not Applicable	Sample Receipt Date:	16.01.2026
Sample Collected by:	Representative of STH (Mr.Shnatha kumar)	Analysis Started Date:	16.01.2026
Sampling Procedure:	Not Applicable	Analysis Completed Date:	23.01.2026
Report Issue Date:	23.01.2026	Page No:	1 of 3
Any other information:	-		

Discipline: Chemical
Group: Water
Subgroup: Water
Description: Pale yellow colour having unobjectionable odour

SL No	Parameter	Units	Results	Maximum Acceptable Limit as per IS:10500-2012	Maximum Permissible Limits In The Absence of Alternate Source as per IS:10500-2012	Test Method
1	Colour	Hz	2.0	5 max	15 max	IS 3025 (Part 4)
2	pH value	-	7.42	6.5-8.5	No relaxation	IS 3025 (Part 11)
3	Conductivity	µS/cm	1242	---	---	IS:3025(Part-14)
4	Turbidity	NTU	1.4	1 max	5 max	IS 3025 (Part 10)
5	Total Dissolved Solids	mg/l	742	500 max	2000 max	IS 3025 (Part 16)
6	Aluminium (as Al)	mg/l	< 0.01	0.03 max	0.2 max	IS 3025 (Part 65)
7	Ammonia (as total ammonia-N)	mg/l	< 0.1	0.5 max	No relaxation	IS 3025 (Part 34)
8	Boron (as B)	mg/l	< 0.1	0.5 max	2.4 max	IS 3025 (Part 57)
9	Calcium (as Ca)	mg/l	115.4	75 max	200 max	IS 3025 (Part 40)
10	Chloride (as Cl)	mg/l	367	250 max	1000 max	IS 3025 (Part 32)
11	Copper (as Cu)	mg/l	< 0.05	0.05 max	1.5 max	IS 3025 (Part 42)
12	Fluoride (as F)	mg/l	<0.1	1.0 max	1.5 max	Apha (24th Edition:2017) 4500 -F
13	Free residual chlorine as C12	mg/l	<0.1	0.2 minimum	1.0 minimum	IS 3025 (Part 26)
14	Iron (as Fe)	mg/l	<0.05	1.0 max	No relaxation	IS 3025 (Part 53)

Min: Minimum
NOTE: The Test Residual free Chlorine is applicable only when water is chlorinated.

Verified By

T.A. NAGARAJ Director

Authorised Signatory

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TEST REPORT

Report no:	STHPL/2026/00562		
Issued To:	**M/S. RAIL WHEEL FACTORY,** Indian Railways, Yelahanka, Bangalore-560064		
Contact Person:	-	Contact Details:	-
Sample Details (Customer Provided Details)			
Sample Name:	**DAMODAR WELL**	Sample Quantity:	2ltr
Sample Package:	PE Container Tightly closed	Location:	-
Batch No/Sample Marked/Any other information	-		
Laboratory Details			
Condition of Sample at Receipt:	Good	Sample Collected on:	16.01.2026
Sampling By:	Not Applicable	Sample Receipt Date:	16.01.2026
Sample Collected by:	Representative of STH (Mr.Shnatha kumar)	Analysis Started Date:	16.01.2026
Sampling Procedure:	Not Applicable	Analysis Completed Date:	23.01.2026
Report Issue Date:	23.01.2026	Page No:	3 of 3
Any other information:	-		

Discipline: Biological
Group: Water
Subgroup: Water

SL. No	TEST PARAMETER	UNITS	RESULTS	LIMITS AS PER IS: 10500- 2012	TEST METHOD
1	Escherichia coli	100 ml	Absent	Absent	IS : 15185 :2016
2	Total coliforms	100 ml	Absent	Absent	IS : 15185 :2016

Remarks: The above Tested Water Sample complies the Permissible Limits as Per IS 10500:2012 for the above Tested parameters only.
Note: For Disclaimer Refer Back side of the Test Report

*****END OF REPORT*****

Verified By

Technical Manager SUBHASHINI

Authorised Signatory

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TEST REPORT

Report no:	STHPL/2026/00563		
Issued To:	**M/S. RAIL WHEEL FACTORY,** Indian Railways, Yelahanka, Bangalore-560064		
Contact Person:	-	Contact Details:	-
Sample Details (Customer Provided Details)			
Sample Name:	**DAMODAR WELL FEER WELL**	Sample Quantity:	2ltr
Sample Package:	PE Container Tightly closed	Location:	-
Batch No/Sample Marked/Any other information	-		
Laboratory Details			
Condition of Sample at Receipt:	Good	Sample Collected on:	16.01.2026
Sampling By:	Not Applicable	Sample Receipt Date:	16.01.2026
Sample Collected by:	Representative of STH (Mr.Shnatha kumar)	Analysis Started Date:	16.01.2026
Sampling Procedure:	Not Applicable	Analysis Completed Date:	23.01.2026
Report Issue Date:	23.01.2026	Page No:	3 of 3
Any other information:	-		

Discipline: Biological
Group: Water
Subgroup: Water

SL. No	TEST PARAMETER	UNITS	RESULTS	LIMITS AS PER IS: 10500- 2012	TEST METHOD
1	Escherichia coli	100 ml	Absent	Absent	IS : 15185 :2016
2	Total coliforms	100 ml	Present	Absent	IS : 15185 :2016

Remarks: The above Tested Water Sample does not complies the permissible limits as Per IS 10500:2012 for the above Tested parameters only.

Note: For Disclaimer Refer Back side of the Test Report

*****END OF REPORT*****

Verified By

Technical Manager SUGHASHINI

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TEST REPORT

Report no:	STHPL/2026/00563		
Issued To:	M/S. RAIL WHEEL FACTORY, Indian Railways, Yelahanka, Bangalore-560064		
Contact Person:	-	Contact Details:	-
Sample Details (Customer Provided Details)			
Sample Name:	DAMODAR WELL FEER WELL	Sample Quantity:	2ltr
Sample Package:	PE Container Tightly closed	Location:	-
Batch No/Sample Marked/Any other information	-		
Laboratory Details			
Condition of Sample at Receipt:	Good	Sample Collected on:	16.01.2026
Sampling By:	Not Applicable	Sample Receipt Date:	16.01.2026
Sample Collected by:	Representative of STH (Mr.Shnatha kumar)	Analysis Started Date:	16.01.2026
Sampling Procedure:	Not Applicable	Analysis Completed Date:	23.01.2026
Report Issue Date:	23.01.2026	Page No:	2 of 3
Any other information:	-		

SL. No	Parameter	Units	Results	Maximum Acceptable Limit as per IS:10500-2012	Maximum Permissible Limits In The Absence of Alternate Source as per IS:10500-2012	Test Method
15	Magnesium (as Mg)	mg/l	22.3	30 max	100 max	IS 3025 (Part 46)
16	Manganese (as Mn)	mg/l	< 0.01	0.1 max	0.3 max	IS 3025 (Part 65)
17	Nitrate (as NO3)	mg/l	24.4	45 max	No relaxation	IS 3025 (Part 34)
18	Phenolic compounds (as C6H5OH)	mg/l	< 0.001	0.001max	0.002 max	IS 3025 (Part 43)
19	Selenium (as Se)	mg/l	< 0.001	0.01max	No relaxation	IS 3025 (Part 65)
20	Sulphate (as SO4)	mg/l	29.6	200 max	400 max	IS 3025 (Part 24)Sec1
21	Total alkalinity (as CaCO3)	mg/l	352	200 max	600 max	IS 3025 (Part 23)
22	Total hardness (as CaCO3)	mg/l	377	200 max	600 max	IS 3025 (Part 21)
23	Zinc (as Zn)	mg/l	< 0.01	5 max	15 max	IS 3025 (Part 49)
24	Cadmium (as Cd)	mg/l	< 0.001	0.003 max	No relaxation	IS 3025 (Part 65)
25	Cyanide (as CN)	mg/l	< 0.1	0.05 max	No relaxation	IS:3025(Part 27)Sec-1 2021
26	Lead (as Pb)	mg/l	< 0.001	0.01 max	No relaxation	IS 3025 (Part 47)
27	Mercury (as Hg)	mg/l	< 0.0005	0.001 max	No relaxation	USEPA 200.8:2022
28	Molybdenum (as Mo)	mg/l	< 0.01	0.07 max	No relaxation	IS 3025 (Part-65)
29	Nickel (as Ni)	mg/l	< 0.001	0.02 max	No relaxation	IS 3025 (Part 65)
30	Total arsenic (as As)	mg/l	<0.001	0.01 max	No relaxation	IS 3025 (Part 65)
31	Total chromium (as Cr)	mg/l	<0.01	0.05 max	No relaxation	IS 3025 (Part 65)

Verified By

T.A. NAGARAJ
★Authorised Signatory
Director

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TEST REPORT

Report no:	STHPL/2026/00564		
Issued To:	**M/S. RAIL WHEEL FACTORY,** Indian Railways, Yelahanka, Bangalore-560064		
Contact Person:	-	Contact Details:	-
Sample Details (Customer Provided Details)			
Sample Name:	**ETCO WELL**	Sample Quantity:	2ltr
Sample Package:	PE Container Tightly closed	Location:	-
Batch No/Sample Marked/Any other information	-		
Laboratory Details			
Condition of Sample at Receipt:	Good	Sample Collected on:	16.01.2026
Sampling By:	Not Applicable	Sample Receipt Date:	16.01.2026
Sample Collected by:	Representative of STH (Mr.Shnatha kumar)	Analysis Started Date:	16.01.2026
Sampling Procedure:	Not Applicable	Analysis Completed Date:	23.01.2026
Report Issue Date:	23.01.2026	Page No:	1 of 3
Any other information:	-		

Discipline: Chemical
Group: Water
Subgroup: Water
Description: Pale yellow colour having unobjectionable odour

SL. No	Parameter	Units	Results	Maximum Acceptable Limit as per IS:10500-2012	Maximum Permissible Limits In The Absence of Alternate Source as per IS:10500-2012	Test Method
1	Colour	Hz	2.4	5 max	15 max	IS 3025 (Part 4)
2	pH value	-	7.24	6.5-8.5	No relaxation	IS 3025 (Part 11)
3	Conductivity	µS/cm	1282	---	---	IS:3025(Part-14)
4	Turbidity	NTU	1.2	1 max	5 max	IS 3025 (Part 10)
5	Total Dissolved Solids	mg/l	762	500 max	2000 max	IS 3025 (Part 16)
6	Aluminium (as Al)	mg/l	< 0.01	0.03 max	0.2 max	IS 3025 (Part 65)
7	Ammonia (as total ammonia-N)	mg/l	< 0.1	0.5 max	No relaxation	IS 3025 (Part 34)
8	Boron (as B)	mg/l	< 0.1	0.5 max	2.4 max	IS 3025 (Part 57)
9	Calcium (as Ca)	mg/l	103	75 max	200 max	IS 3025 (Part 40)
10	Chloride (as Cl)	mg/l	387.1	250 max	1000 max	IS 3025 (Part 32)
11	Copper (as Cu)	mg/l	< 0.05	0.05 max	1.5 max	IS 3025 (Part 42)
12	Fluoride (as F)	mg/l	<0.1	1.0 max	1.5 max	Apha (24th Edition:2017) 4500 -F
13	Free residual chlorine as Cl2	mg/l	<0.1	0.2 minimum	1.0 minimum	IS 3025 (Part 26)
14	Iron (as Fe)	mg/l	<0.05	1.0 max	No relaxation	IS 3025 (Part 53)

Min: Minimum
NOTE: The Test Residual free Chlorine is applicable only when water is chlorinated

Verified By

T.A. NAGARAJ Director

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TEST REPORT

Report no:	STHPL/2026/00564		
Issued To:	M/S. RAIL WHEEL FACTORY, Indian Railways, Yelahanka, Bangalore-560064		
Contact Person:	-	Contact Details:	-
Sample Details (Customer Provided Details)			
Sample Name:	ETCO WELL	Sample Quantity:	2ltr
Sample Package:	PE Container Tightly closed	Location:	-
Batch No/Sample Marked/Any other information	-		
Laboratory Details			
Condition of Sample at Receipt:	Good	Sample Collected on:	16.01.2026
Sampling By:	Not Applicable	Sample Receipt Date:	16.01.2026
Sample Collected by:	Representative of STH (Mr.Shnatha kumar)	Analysis Started Date:	16.01.2026
Sampling Procedure:	Not Applicable	Analysis Completed Date:	23.01.2026
Report Issue Date:	23.01.2026	Page No:	2 of 3
Any other information:	-		

SL. No	Parameter	Units	Results	Maximum Acceptable Limit as per IS:10500-2012	Maximum Permissible Limits In The Absence of Alternate Source as per IS:10500-2012	Test Method
15	Magnesium (as Mg)	mg/l	32.2	30 max	100 max	IS 3025 (Part 46)
16	Manganese (as Mn)	mg/l	<0.01	0.1 max	0.3 max	IS 3025 (Part 65)
17	Nitrate (as NO3)	mg/l	30.4	45 max	No relaxation	IS 3025 (Part 34)
18	Phenolic compounds (as C6H5OH)	mg/l	< 0.001	0.001max	0.002 max	IS 3025 (Part 43)
19	Selenium (as Se)	mg/l	< 0.001	0.01max	No relaxation	IS 3025 (Part 65)
20	Sulphate (as SO4)	mg/l	33.4	200 max	400 max	IS 3025 (Part 24)Sec1
21	Total alkalinity (as CaCO3)	mg/l	342	200 max	600 max	IS 3025 (Part 23)
22	Total hardness (as CaCO3)	mg/l	388	200 max	600 max	IS 3025 (Part 21)
23	Zinc (as Zn)	mg/l	< 0.01	5 max	15 max	IS 3025 (Part 49)
24	Cadmium (as Cd)	mg/l	< 0.001	0.003 max	No relaxation	IS 3025 (Part 65)
25	Cyanide (as CN)	mg/l	< 0.1	0.05 max	No relaxation	IS:3025(Part 27)Sec-I 2021
26	Lead (as Pb)	mg/l	< 0.001	0.01 max	No relaxation	IS 3025 (Part 47)
27	Mercury (as Hg)	mg/l	< 0.0005	0.001 max	No relaxation	USEPA 200.8 2022
28	Molybdenum (as Mo)	mg/l	< 0.01	0.07 max	No relaxation	IS 3025 (Part-65)
29	Nickel (as Ni)	mg/l	< 0.001	0.02 max	No relaxation	IS 3025 (Part 65)
30	Total arsenic (as As)	mg/l	<0.001	0.01 max	No relaxation	IS 3025 (Part 65)
31	Total chromium (as Cr)	mg/l	<0.01	0.05 max	No relaxation	IS 3025 (Part 65)

Verified By

T.A. NAGARAJ Director

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TEST REPORT

Report no:	STHPL/2026/00564		
Issued To:	M/S. RAIL WHEEL FACTORY, Indian Railways, Yelahanka, Bangalore-560064		
Contact Person:	-	Contact Details:	-
Sample Details (Customer Provided Details)			
Sample Name:	ETCO WELL	Sample Quantity:	2ltr
Sample Package:	PE Container Tightly closed	Location:	-
Batch No/Sample Marked/Any other information	-		
Laboratory Details			
Condition of Sample at Receipt:	Good	Sample Collected on:	16.01.2026
Sampling By:	Not Applicable	Sample Receipt Date:	16.01.2026
Sample Collected by:	Representative of STH (Mr.Shnatha kumar)	Analysis Started Date:	16.01.2026
Sampling Procedure:	Not Applicable	Analysis Completed Date:	23.01.2026
Report Issue Date:	23.01.2026	Page No:	3 of 3
Any other information:	-		

Discipline: Biological
Group: Water
Subgroup: Water

SL. No	TEST PARAMETER	UNITS	RESULTS	LIMITS AS PER IS: 10500- 2012	TEST METHOD
1	Escherichia coli	100 ml	Present	Absent	IS : 15185 :2016
2	Total coliforms	100 ml	Present	Absent	IS : 15185 :2016

Remarks: The above Tested Water Sample does not complies the permissible Limits as Per IS 10500:2012 for the above Tested parameters only.
Note: For Disclaimer Refer Back side of the Test Report

END OF REPORT

Verified By

Technical Manager SUSHASHINI

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TEST REPORT

Report no:	STHPL/2026/00565		
Issued To:	M/S. RAIL WHEEL FACTORY, Indian Railways, Yelahanka, Bangalore-560064		
Contact Person:	-	Contact Details:	-
Sample Details (Customer Provided Details)			
Sample Name:	NEW WELL	Sample Quantity:	2ltr
Sample Package:	PE Container Tightly closed	Location:	-
Batch No/Sample Marked/Any other information	-		
Laboratory Details			
Condition of Sample at Receipt:	Good	Sample Collected on:	16.01.2026
Sampling By:	Not Applicable	Sample Receipt Date:	16.01.2026
Sample Collected by:	Representative of STH (Mr.Shnatha kumar)	Analysis Started Date:	16.01.2026
Sampling Procedure:	Not Applicable	Analysis Completed Date:	23.01.2026
Report Issue Date:	23.01.2026	Page No:	1 of 3
Any other information:	-		

Discipline: Chemical
Group: Water
Subgroup: Water
Description: Pale yellow colour having unobjectionable odour

SL. No	Parameter	Units	Results	Maximum Acceptable Limit as per IS:10500-2012	Maximum Permissible Limits In The Absence of Alternate Source as per IS:10500-2012	Test Method
1	Colour	Hz	3.0	5 max	15 max	IS 3025 (Part 4)
2	pH value	-	7.84	6.5-8.5	No relaxation	IS 3025 (Part 11)
3	Conductivity	µS/cm	1280	---	---	IS:3025(Part-14)
4	Turbidity	NTU	1.8	1 max	5 max	IS 3025 (Part 10)
5	Total Dissolved Solids	mg/l	770	500 max	2000 max	IS 3025 (Part 16)
6	Aluminium (as Al)	mg/l	< 0.01	0.03 max	0.2 max	IS 3025 (Part 65)
7	Ammonia (as total ammonia-N)	mg/l	< 0.1	0.5 max	No relaxation	IS 3025 (Part 34)
8	Boron (as B)	mg/l	< 0.1	0.5 max	2.4 max	IS 3025 (Part 57)
9	Calcium (as Ca)	mg/l	107.1	75 max	200 max	IS 3025 (Part 40)
10	Chloride (as Cl)	mg/l	377.2	250 max	1000 max	IS 3025 (Part 32)
11	Copper (as Cu)	mg/l	< 0.05	0.05 max	1.5 max	IS 3025 (Part 42)
12	Fluoride (as F)	mg/l	<0.1	1.0 max	1.5 max	Apha (24th Edition:2017) 4500 -F
13	Free residual chlorine as C12	mg/l	<0.1	0.2 minimum	1.0 minimum	IS 3025 (Part 26)
14	Iron (as Fe)	mg/l	<0.05	1.0 max	No relaxation	IS 3025 (Part 53)

Min: Minimum
NOTE: The Test Residual free Chlorine is applicable only when water is chlorinated.

Verified By

T.A. NAGARAJ
Authorised Signatory

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TEST REPORT

Report no:	STHPL/2026/00565		
Issued To:	**M/S. RAIL WHEEL FACTORY,** Indian Railways, Yelahanka, Bangalore-560064		
Contact Person:	-	Contact Details:	-
Sample Details (Customer Provided Details)			
Sample Name:	**NEW WELL**	Sample Quantity:	2ltr
Sample Package:	PE Container Tightly closed	Location:	-
Batch No/Sample Marked/Any other information	-		
Laboratory Details			
Condition of Sample at Receipt:	Good	Sample Collected on:	16.01.2026
Sampling By:	Not Applicable	Sample Receipt Date:	16.01.2026
Sample Collected by:	Representative of STH (Mr.Shnatha kumar)	Analysis Started Date:	16.01.2026
Sampling Procedure:	Not Applicable	Analysis Completed Date:	23.01.2026
Report Issue Date:	23.01.2026	Page No:	2 of 3
Any other information:	-		

SL. No	Parameter	Units	Results	Maximum Acceptable Limit as per IS:10500-2012	Maximum Permissible Limits In The Absence of Alternate Source as per IS:10500-2012	Test Method
15	Magnesium (as Mg)	mg/l	29.7	30 max	100 max	IS 3025 (Part 46)
16	Manganese (as Mn)	mg/l	< 0.01	0.1 max	0.3 max	IS 3025 (Part 65)
17	Nitrate (as NO3)	mg/l	32.8	45 max	No relaxation	IS 3025 (Part 34)
18	Phenolic compounds (as C6H5OH)	mg/l	< 0.001	0.001max	0.002 max	IS 3025 (Part 43)
19	Selenium (as Se)	mg/l	< 0.001	0.01max	No relaxation	IS 3025 (Part 65)
20	Sulphate (as SO4)	mg/l	35.2	200 max	400 max	IS 3025 (Part 24)Sec1
21	Total alkalinity (as CaCO3)	mg/l	362	200 max	600 max	IS 3025 (Part 23)
22	Total hardness (as CaCO3)	mg/l	388	200 max	600 max	IS 3025 (Part 21)
23	Zinc (as Zn)	mg/l	< 0.01	5 max	15 max	IS 3025 (Part 49)
24	Cadmium (as Cd)	mg/l	< 0.001	0.003 max	No relaxation	IS 3025 (Part 65)
25	Cyanide (as CN)	mg/l	< 0.1	0.05 max	No relaxation	IS:3025(Part 27)Sec-1 2021
26	Lead (as Pb)	mg/l	< 0.001	0.01 max	No relaxation	IS 3025 (Part 47)
27	Mercury (as Hg)	mg/l	< 0.0005	0.001 max	No relaxation	USEPA 200.8:2022
28	Molybdenum (as Mo)	mg/l	< 0.01	0.07 max	No relaxation	IS 3025 (Part-65)
29	Nickel (as Ni)	mg/l	< 0.001	0.02 max	No relaxation	IS 3025 (Part 65)
30	Total arsenic (as As)	mg/l	<0.001	0.01 max	No relaxation	IS 3025 (Part 65)
31	Total chromium (as Cr)	mg/l	<0.01	0.05 max	No relaxation	IS 3025 (Part 65)

Verified By

T.A. NAGARAJ Director

Authorised Signatory

No. 8 and No. 28, 4th Cross, Maruthi Nagar, Chandra Layout 80ft Road, Bengaluru - 560072
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NEHA TEST HOUSE PRIVATE LIMITED

Recognised by EPA 1986, Govt. of India

TEST REPORT

Report no:	STHPL/2026/00565		
Issued To:	**M/S. RAIL WHEEL FACTORY,** Indian Railways, Yelahanka, Bangalore-560064		
Contact Person:	-	Contact Details:	-
Sample Details (Customer Provided Details)			
Sample Name:	**NEW WELL**	Sample Quantity:	2ltr
Sample Package:	PE Container Tightly closed	Location:	-
Batch No/Sample Marked/Any other information	-		
Laboratory Details			
Condition of Sample at Receipt:	Good	Sample Collected on:	16.01.2026
Sampling By:	Not Applicable	Sample Receipt Date:	16.01.2026
Sample Collected by:	Representative of STH (Mr.Shnatha kumar)	Analysis Started Date:	16.01.2026
Sampling Procedure:	Not Applicable	Analysis Completed Date:	23.01.2026
Report Issue Date:	23.01.2026	Page No:	3 of 3
Any other information:	-		

Discipline: Biological
Group: Water
Subgroup: Water

SL. No	TEST PARAMETER	UNITS	RESULTS	LIMITS AS PER IS: 10500- 2012	TEST METHOD
1	Escherichia coli	100 ml	Present	Absent	IS : 15185 :2016
2	Total coliforms	100 ml	Present	Absent	IS : 15185 :2016

Remarks: The above Tested Water Sample does not complies the permissible Limits as Per IS 10500:2012 for the above Tested parameters only.
Note: For Disclaimer Refer Back side of the Test Report

*****END OF REPORT*****

Verified By

Technical Manager SUBHASHINI

Authorised Signatory

No. 8 and No. 28, 4th Cross, Maruthi Nagar, Chandra Layout 80ft Road, Bengaluru - 560072
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SNEHA TEST HOUSE PRIVATE LIMITED

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TEST REPORT

Report no:	STHPL/2026/00566		
Issued To:	M/S. RAIL WHEEL FACTORY, Indian Railways, Yelahanka, Bangalore-560064		
Contact Person:	-	Contact Details:	-
Sample Details (Customer Provided Details)			
Sample Name:	NEW WELL FEEDER WELL	Sample Quantity:	2ltr
Sample Package:	PE Container Tightly closed	Location:	-
Batch No/Sample Marked/Any other information	-		
Laboratory Details			
Condition of Sample at Receipt:	Good	Sample Collected on:	16.01.2026
Sampling By:	Not Applicable	Sample Receipt Date:	16.01.2026
Sample Collected by:	Representative of STH (Mr.Shnatha kumar)	Analysis Started Date:	16.01.2026
Sampling Procedure:	Not Applicable	Analysis Completed Date:	23.01.2026
Report Issue Date:	23.01.2026	Page No:	1 of 3
Any other information:	-		

Discipline: Chemical
Group: Water
Subgroup: Water
Description: Pale yellow colour having unobjectionable odour

SL. No	Parameter	Units	Results	Maximum Acceptable Limit as per IS:10500-2012	Maximum Permissible Limits In The Absence of Alternate Source as per IS:10500-2012	Test Method
1	Colour	Hz	2.0	5 max	15 max	IS 3025 (Part 4)
2	pH value	-	7.24	6.5-8.5	No relaxation	IS 3025 (Part 11)
3	Conductivity	µS/cm	1312	---	---	IS:3025(Part-14)
4	Turbidity	NTU	1.2	1 max	5 max	IS 3025 (Part 10)
5	Total Dissolved Solids	mg/l	785	500 max	2000 max	IS 3025 (Part 16)
6	Aluminium (as Al)	mg/l	< 0.01	0.03 max	0.2 max	IS 3025 (Part 65)
7	Ammonia (as total ammonia-N)	mg/l	< 0.1	0.5 max	No relaxation	IS 3025 (Part 34)
8	Boron (as B)	mg/l	< 0.1	0.5 max	2.4 max	IS 3025 (Part 57)
9	Calcium (as Ca)	mg/l	124	75 max	200 max	IS 3025 (Part 40)
10	Chloride (as Cl)	mg/l	382	250 max	1000 max	IS 3025 (Part 32)
11	Copper (as Cu)	mg/l	< 0.05	0.05 max	1.5 max	IS 3025 (Part 42)
12	Fluoride (as F)	mg/l	<0.1	1.0 max	1.5 max	Apha (24th Edition:2017) 4500 -F
13	Free residual chlorine as Cl2	mg/l	<0.1	0.2 minimum	1.0 minimum	IS 3025 (Part 26)
14	Iron (as Fe)	mg/l	<0.05	1.0 max	No relaxation	IS 3025 (Part 53)

Min: Minimum
NOTE: The Test Residual free Chlorine is applicable only when water is chlorinated.

Verified By

T.A. NAGARAJ Director

Authorised Signatory

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NEHA TEST HOUSE PRIVATE LIMITED

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TEST REPORT

Report no:	STHPL/2026/00566		
Issued To:	**M/S. RAIL WHEEL FACTORY,** Indian Railways, Yelahanka, Bangalore-560064		
Contact Person:	-	Contact Details:	-
Sample Details (Customer Provided Details)			
Sample Name:	**NEW WELL FEEDER WELL**	Sample Quantity:	2ltr
Sample Package:	PE Container Tightly closed	Location:	-
Batch No/Sample Marked/Any other information	-		
Laboratory Details			
Condition of Sample at Receipt:	Good	Sample Collected on:	16.01.2026
Sampling By:	Not Applicable	Sample Receipt Date:	16.01.2026
Sample Collected by:	Representative of STH (Mr.Shnatha kumar)	Analysis Started Date:	16.01.2026
Sampling Procedure:	Not Applicable	Analysis Completed Date:	23.01.2026
Report Issue Date:	23.01.2026	Page No:	2 of 3
Any other information:	-		

SL. No	Parameter	Units	Results	Maximum Acceptable Limit as per IS:10500-2012	Maximum Permissible Limits In The Absence of Alternate Source as per IS:10500-2012	Test Method
15	Magnesium (as Mg)	mg/l	22.3	30 max	100 max	IS 3025 (Part 46)
16	Manganese (as Mn)	mg/l	< 0.01	0.1 max	0.3 max	IS 3025 (Part 65)
17	Nitrate (as NO3)	mg/l	32.4	45 max	No relaxation	IS 3025 (Part 34)
18	Phenolic compounds (as C6H5OH)	mg/l	< 0.001	0.001max	0.002 max	IS 3025 (Part 43)
19	Selenium (as Se)	mg/l	< 0.001	0.01max	No relaxation	IS 3025 (Part 65)
20	Sulphate (as SO4)	mg/l	32.8	200 max	400 max	IS 3025 (Part 24)Sec1
21	Total alkalinity (as CaCO3)	mg/l	372	200 max	600 max	IS 3025 (Part 23)
22	Total hardness (as CaCO3)	mg/l	398	200 max	600 max	IS 3025 (Part 21)
23	Zinc (as Zn)	mg/l	< 0.01	5 max	15 max	IS 3025 (Part 49)
24	Cadmium (as Cd)	mg/l	< 0.001	0.003 max	No relaxation	IS 3025 (Part 65)
25	Cyanide (as CN)	mg/l	< 0.1	0.05 max	No relaxation	IS:3025(Part 27)Sec-I 2021
26	Lead (as Pb)	mg/l	< 0.001	0.01 max	No relaxation	IS 3025 (Part 47)
27	Mercury (as Hg)	mg/l	< 0.0005	0.001 max	No relaxation	USEPA 200.8:2022
28	Molybdenum (as Mo)	mg/l	< 0.01	0.07 max	No relaxation	IS 3025 (Part-65)
29	Nickel (as Ni)	mg/l	< 0.001	0.02 max	No relaxation	IS 3025 (Part 65)
30	Total arsenic (as As)	mg/l	<0.001	0.01 max	No relaxation	IS 3025 (Part 65)
31	Total chromium (as Cr)	mg/l	<0.01	0.05 max	No relaxation	IS 3025 (Part 65)

Verified By

T.A. NAGARAJ Director

Authorised Signatory

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SNEHA TEST HOUSE PRIVATE LIMITED

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TEST REPORT

Report no:	STHPL/2026/00566		
Issued To:	**M/S. RAIL WHEEL FACTORY,** Indian Railways, Yelahanka, Bangalore-560064		
Contact Person:	-	Contact Details:	-
Sample Details (Customer Provided Details)			
Sample Name:	**NEW WELL FEEDER WELL**	Sample Quantity:	2ltr
Sample Package:	PE Container Tightly closed	Location:	-
Batch No/Sample Marked/Any other information	-		
Laboratory Details			
Condition of Sample at Receipt:	Good	Sample Collected on:	16.01.2026
Sampling By:	Not Applicable	Sample Receipt Date:	16.01.2026
Sample Collected by:	Representative of STH (Mr.Shnatha kumar)	Analysis Started Date:	16.01.2026
Sampling Procedure:	Not Applicable	Analysis Completed Date:	23.01.2026
Report Issue Date:	23.01.2026	Page No:	3 of 3
Any other information:	-		

Discipline: Biological
Group: Water
Subgroup: Water

SL. No	TEST PARAMETER	UNITS	RESULTS	LIMITS AS PER IS: 10500- 2012	TEST METHOD
1	Escherichia coli	100 ml	Absent	Absent	IS : 15185 :2016
2	Total coliforms	100 ml	Present	Absent	IS : 15185 :2016

Remarks: The above Tested Water Sample does not complies the permissible Limits as Per IS 10500:2012 for the above Tested parameters only.
Note: For Disclaimer Refer Back side of the Test Report

*****END OF REPORT*****

Verified By

Technical Manager SUPRHASHINI V

Authorised Signatory

No. 8 and No. 28, 4th Cross, Maruthi Nagar, Chandra Layout 80ft Road, Bengaluru - 560072
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TEST REPORT

Report no:	STHPL/2026/00555		
Issued To:	**M/S. RAIL WHEEL FACTORY,** Indian Railways, Yelahanka, Bangalore-560064		
Contact Person:	-	Contact Details:	-
Sample Details (Customer Provided Details)			
Sample Name:	**R.O WATER**	Sample Quantity:	2ltr
Sample Package:	PE Container Tightly closed	Location:	Axle Shop
Batch No/Sample Marked/Any other information	-		
Laboratory Details			
Condition of Sample at Receipt:	Good	Sample Collected on:	16.01.2026
Sampling By:	Not Applicable	Sample Receipt Date:	16.01.2026
Sample Collected by:	Representative of STH (Mr.Shnatha kumar)	Analysis Started Date:	16.01.2026
Sampling Procedure:	Not Applicable	Analysis Completed Date:	23.01.2026
Report Issue Date:	23.01.2026	Page No:	1 of 3
Any other information:	-		

Discipline: Chemical
Group: Water
Subgroup: Water
Description: Colourless, odourless, transparent liquid.

SL. No	Parameter	Units	Results	Maximum Acceptable Limit as per IS:10500-2012	Maximum Permissible Limits In The Absence of Alternate Source as per IS:10500-2012	Test Method
1	Colour	Hz	<2.0	5 max	15 max	IS 3025 (Part 4)
2	pH value	-	7.25	6.5-8.5	No relaxation	IS 3025 (Part 11)
3	Conductivity	µS/cm	192	---	---	IS:3025(Part-14)
4	Turbidity	NTU	<0.1	1 max	5 max	IS 3025 (Part 10)
5	Total Dissolved Solids	mg/l	114	500 max	2000 max	IS 3025 (Part 16)
6	Aluminium (as Al)	mg/l	< 0.01	0.03 max	0.2 max	IS 3025 (Part 65)
7	Ammonia (as total ammonia-N)	mg/l	< 0.1	0.5 max	No relaxation	IS 3025 (Part 34)
8	Boron (as B)	mg/l	< 0.1	0.5 max	2.4 max	IS 3025 (Part 57)
9	Calcium (as Ca)	mg/l	16.5	75 max	200 max	IS 3025 (Part 40)
10	Chloride (as Cl)	mg/l	51.6	250 max	1000 max	IS 3025 (Part 32)
11	Copper (as Cu)	mg/l	< 0.05	0.05 max	1.5 max	IS 3025 (Part 42)
12	Fluoride (as F)	mg/l	<0.1	1.0 max	1.5 max	Apha (24th Edition:2017) 4500 -F
13	Free residual chlorine as C12	mg/l	<0.1	0.2 minimum	1.0 minimam	IS 3025 (Part 26)
14	Iron (as Fe)	mg/l	<0.05	1.0 max	No relaxation	IS 3025 (Part 53)

Min: Minimum
NOTE: The Test Residual free Chlorine is applicable only when water is chlorinated.

Verified By

T.A. NAGARAJ Director

Authorised Signatory

No. 8 and No. 28, 4th Cross, Maruthi Nagar, Chandra Layout 80ft Road, Bengaluru - 560072
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SNEHA TEST HOUSE PRIVATE LIMITED

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TEST REPORT

Report no:	STHPL/2026/00555		
Issued To:	M/S. RAIL WHEEL FACTORY, Indian Railways, Yelahanka, Bangalore-560064		
Contact Person:	-	Contact Details:	-
Sample Details (Customer Provided Details)			
Sample Name:	R.O WATER	Sample Quantity:	2ltr
Sample Package:	PE Container Tightly closed	Location:	Axie Shop
Batch No/Sample Marked/Any other information	-		
Laboratory Details			
Condition of Sample at Receipt:	Good	Sample Collected on:	16.01.2026
Sampling By:	Not Applicable	Sample Receipt Date:	16.01.2026
Sample Collected by:	Representative of STH (Mr.Shnatha kumar)	Analysis Started Date:	16.01.2026
Sampling Procedure:	Not Applicable	Analysis Completed Date:	23.01.2026
Report Issue Date:	23.01.2026	Page No:	2 of 3
Any other information:	-		

SL. No	Parameter	Units	Results	Maximum Acceptable Limit as per IS:10500-2012	Maximum Permissible Limits In The Absence of Alternate Source as per IS:10500-2012	Test Method
15	Magnesium (as Mg)	mg/l	4.0	30 max	100 max	IS 3025 (Part 46)
16	Manganese (as Mn)	mg/l	< 0.01	0.1 max	0.3 max	IS 3025 (Part 65)
17	Nitrate (as NO3)	mg/l	8.0	45 max	No relaxation	IS 3025 (Part 34)
18	Phenolic compounds (as C6H5OH)	mg/l	< 0.001	0.001max	0.002 max	IS 3025 (Part 43)
19	Selenium (as Se)	mg/l	< 0.001	0.01max	No relaxation	IS 3025 (Part 65)
20	Sulphate (as SO4)	mg/l	8.8	200 max	400 max	IS 3025 (Part 24)Sec1
21	Total alkalinity (as CaCO3)	mg/l	54.3	200 max	600 max	IS 3025 (Part 23)
22	Total hardness (as CaCO3)	mg/l	57.1	200 max	600 max	IS 3025 (Part 21)
23	Zinc (as Zn)	mg/l	< 0.01	5 max	15 max	IS 3025 (Part 49)
24	Cadmium (as Cd)	mg/l	< 0.001	0.003 max	No relaxation	IS 3025 (Part 65)
25	Cyanide (as CN)	mg/l	< 0.1	0.05 max	No relaxation	IS:3025(Part 27)Sec-I 2021
26	Lead (as Pb)	mg/l	< 0.001	0.01 max	No relaxation	IS 3025 (Part 47)
27	Mercury (as Hg)	mg/l	< 0.0005	0.001 max	No relaxation	USEPA 200.8:2022
28	Molybdenum (as Mo)	mg/l	< 0.01	0.07 max	No relaxation	IS 3025 (Part-65)
29	Nickel (as Ni)	mg/l	< 0.001	0.02 max	No relaxation	IS 3025 (Part 65)
30	Total arsenic (as As)	mg/l	<0.001	0.01 max	No relaxation	IS 3025 (Part 65)
31	Total chromium (as Cr)	mg/l	<0.01	0.05 max	No relaxation	IS 3025 (Part 65)

Verified By

T.A. NAGARAJ Director

Authorised Signatory

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SNEHA TEST HOUSE PRIVATE LIMITED

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TEST REPORT

Report no:	STHPL/2026/00555		
Issue to:	**M/S. RAIL WHEEL FACTORY,** Indian Railways, Yelahanka, Bangalore-560064		
Contact Person:	-	Contact Details:	-
Sample Details (Customer Provided Details)			
Sample Name:	**R.O WATER**	Sample Quantity:	2ltr
Sample Package:	PE Container Tightly closed	Location:	Axie Shop
Batch No/Sample Marked/Any other information	-		
Laboratory Details			
Condition of Sample at Receipt:	Good	Sample Collected on:	16.01.2026
Sampling By:	Not Applicable	Sample Receipt Date:	16.01.2026
Sample Collected by:	Representative of STH (Mr.Shnatha kumar)	Analysis Started Date:	16.01.2026
Sampling Procedure:	Not Applicable	Analysis Completed Date:	23.01.2026
Report Issue Date:	23.01.2026	Page No:	3 of 3
Any other information:	-		

Discipline: Biological
Group: Water
Subgroup: Water

SL. No	TEST PARAMETER	UNITS	RESULTS	LIMITS AS PER IS: 10500- 2012	TEST METHOD
1	Escherichia coli	100 ml	Absent	Absent	IS : 15185 :2016
2	Total coliforms	100 ml	Absent	Absent	IS : 15185 :2016

Remarks: The above Tested Water Sample complies the acceptable limits as Per IS 10500:2012 for the above Tested parameters only.
Note: For Disclaimer Refer Back side of the Test Report

*****END OF REPORT*****

Verified By

Technical Manager ★ SUBHASHINI ★

Authorised Signatory

No. 8 and No. 28, 4th Cross, Maruthi Nagar, Chandra Layout 80ft Road, Bengaluru - 560072
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SNEHA TEST HOUSE PRIVATE LIMITED

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TEST REPORT

Report no:	STHPL/2026/00556		
Issued To:	**M/S. RAIL WHEEL FACTORY,** Indian Railways, Yelahanka, Bangalore-560064		
Contact Person:	-	Contact Details:	-
Sample Details (Customer Provided Details)			
Sample Name:	**R.O WATER**	Sample Quantity:	2ltr
Sample Package:	PE Container Tightly closed	Location:	Wheel Shop
Batch No/Sample Marked/Any other information	-		
Laboratory Details			
Condition of Sample at Receipt:	Good	Sample Collected on:	16.01.2026
Sampling By:	Not Applicable	Sample Receipt Date:	16.01.2026
Sample Collected by:	Representative of STH (Mr.Shnatha kumar)	Analysis Started Date:	16.01.2026
Sampling Procedure:	Not Applicable	Analysis Completed Date:	23.01.2026
Report Issue Date:	23.01.2026	Page No:	1 of 3
Any other information:	-		

Discipline: Chemical
Group: Water
Subgroup: Water
Description: Colourless, odourless, transparent liquid.

SL. No	Parameter	Units	Results	Maximum Acceptable Limit as per IS:10500-2012	Maximum Permissible Limits In The Absence of Alternate Source as per IS:10500-2012	Test Method
1	Colour	Hz	<2.0	5 max	15 max	IS 3025 (Part 4)
2	pH value	-	7.52	6.5-8.5	No relaxation	IS 3025 (Part 11)
3	Conductivity	µS/cm	30.0	---	---	IS:3025(Part-14)
4	Turbidity	NTU	<0.1	1 max	5 max	IS 3025 (Part 10)
5	Total Dissolved Solids	mg/l	18.0	500 max	2000 max	IS 3025 (Part 16)
6	Aluminium (as Al)	mg/l	< 0.01	0.03 max	0.2 max	IS 3025 (Part 65)
7	Ammonia (as total ammonia-N)	mg/l	< 0.1	0.5 max	No relaxation	IS 3025 (Part 34)
8	Boron (as B)	mg/l	< 0.1	0.5 max	2.4 max	IS 3025 (Part 57)
9	Calcium (as Ca)	mg/l	2.5	75 max	200 max	IS 3025 (Part 40)
10	Chloride (as Cl)	mg/l	8.4	250 max	1000 max	IS 3025 (Part 32)
11	Copper (as Cu)	mg/l	< 0.05	0.05 max	1.5 max	IS 3025 (Part 42)
12	Fluoride (as F)	mg/l	<0.1	1.0 max	1.5 max	Apha (24th Edition:2017) 4500 -F
13	Free residual chlorine as C12	mg/l	<0.1	0.2 minimum	1.0 minimum	IS 3025 (Part 26)
14	Iron (as Fe)	mg/l	<0.05	1.0 max	No relaxation	IS 3025 (Part 53)

Min: Minimum
NOTE: The Test Residual free Chlorine is applicable only when water is chlorinated

Verified By

T.A. NAGARAJ Director

Authorised Signatory

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TEST REPORT

Report no:	STHPL/2026/00556		
Issued To:	**M/S. RAIL WHEEL FACTORY,** Indian Railways, Yelahanka, Bangalore-560064		
Contact Person:	-	Contact Details:	-
Sample Details (Customer Provided Details)			
Sample Name:	**R.O WATER**	Sample Quantity:	2ltr
Sample Package:	PE Container Tightly closed	Location:	Wheel Shop
Batch No/Sample Marked/Any other information	-		
Laboratory Details			
Condition of Sample at Receipt:	Good	Sample Collected on:	16.01.2026
Sampling By:	Not Applicable	Sample Receipt Date:	16.01.2026
Sample Collected by:	Representative of STH (Mr.Shnatha kumar)	Analysis Started Date:	16.01.2026
Sampling Procedure:	Not Applicable	Analysis Completed Date:	23.01.2026
Report Issue Date:	23.01.2026	Page No:	2 of 3
Any other information:	-		

SL. No	Parameter	Units	Results	Maximum Acceptable Limit as per IS:10500-2012	Maximum Permissible Limits In The Absence of Alternate Source as per IS:10500-2012	Test Method
15	Magnesium (as Mg)	mg/l	< 2.0	30 max	100 max	IS 3025 (Part 46)
16	Manganese (as Mn)	mg/l	< 0.01	0.1 max	0.3 max	IS 3025 (Part 65)
17	Nitrate (as NO3)	mg/l	1.2	45 max	No relaxation	IS 3025 (Part 34)
18	Phenolic compounds (as C6H5OH)	mg/l	< 0.001	0.001max	0.002 max	IS 3025 (Part 43)
19	Selenium (as Se)	mg/l	< 0.001	0.01max	No relaxation	IS 3025 (Part 65)
20	Sulphate (as SO4)	mg/l	1.0	200 max	400 max	IS 3025 (Part 24)Sec1
21	Total alkalinity (as CaCO3)	mg/l	8.0	200 max	600 max	IS 3025 (Part 23)
22	Total hardness (as CaCO3)	mg/l	9.2	200 max	600 max	IS 3025 (Part 21)
23	Zinc (as Zn)	mg/l	< 0.01	5 max	15 max	IS 3025 (Part 49)
24	Cadmium (as Cd)	mg/l	< 0.001	0.003 max	No relaxation	IS 3025 (Part 65)
25	Cyanide (as CN)	mg/l	< 0.1	0.05 max	No relaxation	IS:3025(Part 27)Sec-1 2021
26	Lead (as Pb)	mg/l	< 0.001	0.01 max	No relaxation	IS 3025 (Part 47)
27	Mercury (as Hg)	mg/l	< 0.0005	0.001 max	No relaxation	USEPA 200.8:2022
28	Molybdenum (as Mo)	mg/l	< 0.01	0.07 max	No relaxation	IS 3025 (Part-65)
29	Nickel (as Ni)	mg/l	< 0.001	0.02 max	No relaxation	IS 3025 (Part 65)
30	Total arsenic (as As)	mg/l	<0.001	0.01 max	No relaxation	IS 3025 (Part 65)
31	Total chromium (as Cr)	mg/l	<0.01	0.05 max	No relaxation	IS 3025 (Part 65)

Verified By

T.A. NAGARAJ Director

Authorised Signatory

No. 8 and No. 28, 4th Cross, Maruthi Nagar, Chandra Layout 80ft Road, Bengaluru - 560072
Phone: 080 - 23180113 | Mobile: 9611324429 / 9844027167
lab.snehatesthouse@gmail.com / info@sthlab.com | www.sthlab.com

SNEHA TEST HOUSE PRIVATE LIMITED

Recognised by EPA 1986, Govt. of India

TEST REPORT

Report no:	STHPL/2026/00556		
Issued To:	**M/S. RAIL WHEEL FACTORY,** Indian Railways, Yelahanka, Bangalore-560064		
Contact Person:	-	Contact Details:	-
Sample Details (Customer Provided Details)			
Sample Name:	**R.O WATER**	Sample Quantity:	2ltr
Sample Package:	PE Container Tightly closed	Location:	Wheel Shop
Batch No/Sample Marked/Any other information	-		
Laboratory Details			
Condition of Sample at Receipt:	Good	Sample Collected on:	16.01.2026
Sampling By:	Not Applicable	Sample Receipt Date:	16.01.2026
Sample Collected by:	Representative of STH (Mr.Shnatha kumar)	Analysis Started Date:	16.01.2026
Sampling Procedure:	Not Applicable	Analysis Completed Date:	23.01.2026
Report Issue Date:	23.01.2026	Page No:	3 of 3
Any other information:	-		

Discipline: Biological
Group: Water
Subgroup: Water

SL. No	TEST PARAMETER	UNITS	RESULTS	LIMITS AS PER IS: 10500- 2012	TEST METHOD
1	Escherichia coli	100 ml	Absent	Absent	IS : 15185 :2016
2	Total coliforms	100 ml	Absent	Absent	IS : 15185 :2016

Remarks: The above Tested Water Sample complies the acceptable limits as Per IS 10500:2012 for the above Tested parameters only.

Note: For Disclaimer Refer Back side of the Test Report

*****END OF REPORT*****

Verified By

Technical Manager SUHASHINI

Authorised Signatory

No. 8 and No. 28, 4th Cross, Maruthi Nagar, Chandra Layout 80ft Road, Bengaluru - 560072
Phone: 080 - 23180113 | Mobile: 9611324429 / 9844027167
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SNEHA TEST HOUSE PRIVATE LIMITED

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TEST REPORT

Report no:	STHPL/2026/00557		
Issued To:	**M/S. RAIL WHEEL FACTORY,** Indian Railways, Yelahanka, Bangalore-560064		
Contact Person:	-	Contact Details:	-
Sample Details (Customer Provided Details)			
Sample Name:	**R.O WATER**	Sample Quantity:	2ltr
Sample Package:	PE Container Tightly closed	Location:	Time office
Batch No/Sample Marked/Any other information	-		
Laboratory Details			
Condition of Sample at Receipt:	Good	Sample Collected on:	16.01.2026
Sampling By:	Not Applicable	Sample Receipt Date:	16.01.2026
Sample Collected by:	Representative of STH (Mr.Shnatha kumar)	Analysis Started Date:	16.01.2026
Sampling Procedure:	Not Applicable	Analysis Completed Date:	23.01.2026
Report Issue Date:	23.01.2026	Page No:	1 of 3
Any other information:	-		

Discipline: Chemical
Group: Water
Subgroup: Water
Description: Colourless, odourless, transparent liquid.

SL. No	Parameter	Units	Results	Maximum Acceptable Limit as per IS:10500-2012	Maximum Permissible Limits In The Absence of Alternate Source as per IS:10500-2012	Test Method
1	Colour	Hz	<2.0	5 max	15 max	IS 3025 (Part 4)
2	pH value	-	7.12	6.5-8.5	No relaxation	IS 3025 (Part 11)
3	Conductivity	µS/cm	40.0	---	---	IS:3025(Part-14)
4	Turbidity	NTU	<0.1	1 max	5 max	IS 3025 (Part 10)
5	Total Dissolved Solids	mg/l	26.0	500 max	2000 max	IS 3025 (Part 16)
6	Aluminium (as Al)	mg/l	< 0.01	0.03 max	0.2 max	IS 3025 (Part 65)
7	Ammonia (as total ammonia-N)	mg/l	< 0.1	0.5 max	No relaxation	IS 3025 (Part 34)
8	Boron (as B)	mg/l	< 0.1	0.5 max	2.4 max	IS 3025 (Part 57)
9	Calcium (as Ca)	mg/l	3.3	75 max	200 max	IS 3025 (Part 40)
10	Chloride (as Cl)	mg/l	11.9	250 max	1000 max	IS 3025 (Part 32)
11	Copper (as Cu)	mg/l	< 0.05	0.05 max	1.5 max	IS 3025 (Part 42)
12	Fluoride (as F)	mg/l	<0.1	1.0 max	1.5 max	Apha (24th Edition:2017) 4500 -F
13	Free residual chlorine as C12	mg/l	<0.1	0.2 minimum	1.0 minimum	IS 3025 (Part 26)
14	Iron (as Fe)	mg/l	<0.05	1.0 max	No relaxation	IS 3025 (Part 53)

Min: Minimum
NOTE: The Test Residual free Chlorine is applicable only when water is chlorinated.

Verified By

T.A. NAGARAJ Director

Authorised Signatory

No. 8 and No. 28, 4th Cross, Maruthi Nagar, Chandra Layout 80ft Road, Bengaluru - 560072
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SNEHA TEST HOUSE PRIVATE LIMITED

Recognised by EPA 1986, Govt. of India

TEST REPORT

Report no:	STHPL/2026/00557		
Issued To:	**M/S. RAIL WHEEL FACTORY,** Indian Railways, Yelahanka, Bangalore-560064		
Contact Person:	-	Contact Details:	-
Sample Details (Customer Provided Details)			
Sample Name:	**R.O WATER**	Sample Quantity:	2ltr
Sample Package:	PE Container Tightly closed	Location:	Time office
Batch No/Sample Marked/Any other information	-		
Laboratory Details			
Condition of Sample at Receipt:	Good	Sample Collected on:	16.01.2026
Sampling By:	Not Applicable	Sample Receipt Date:	16.01.2026
Sample Collected by:	Representative of STH (Mr.Shnatha kumar)	Analysis Started Date:	16.01.2026
Sampling Procedure:	Not Applicable	Analysis Completed Date:	23.01.2026
Report Issue Date:	23.01.2026	Page No:	2 of 3
Any other information:	-		

SL. No	Parameter	Units	Results	Maximum Acceptable Limit as per IS:10500-2012	Maximum Permissible Limits In The Absence of Alternate Source as per IS:10500-2012	Test Method
15	Magnesium (as Mg)	mg/l	< 2.0	30 max	100 max	IS 3025 (Part 46)
16	Manganese (as Mn)	mg/l	< 0.01	0.1 max	0.3 max	IS 3025 (Part 65)
17	Nitrate (as NO3)	mg/l	1.8	45 max	No relaxation	IS 3025 (Part 34)
18	Phenolic compounds (as C6H5OH)	mg/l	< 0.001	0.001max	0.002 max	IS 3025 (Part 43)
19	Selenium (as Se)	mg/l	< 0.001	0.01max	No relaxation	IS 3025 (Part 65)
20	Sulphate (as SO4)	mg/l	2.0	200 max	400 max	IS 3025 (Part 24)Sec1
21	Total alkalinity (as CaCO3)	mg/l	11.0	200 max	600 max	IS 3025 (Part 23)
22	Total hardness (as CaCO3)	mg/l	12.3	200 max	600 max	IS 3025 (Part 21)
23	Zinc (as Zn)	mg/l	< 0.01	5 max	15 max	IS 3025 (Part 49)
24	Cadmium (as Cd)	mg/l	< 0.001	0.003 max	No relaxation	IS 3025 (Part 65)
25	Cyanide (as CN)	mg/l	< 0.1	0.05 max	No relaxation	IS:3025(Part 27)Sec-1 2021
26	Lead (as Pb)	mg/l	< 0.001	0.01 max	No relaxation	IS 3025 (Part 47)
27	Mercury (as Hg)	mg/l	< 0.0005	0.001 max	No relaxation	USEPA 200.8:2022
28	Molybdenum (as Mo)	mg/l	< 0.01	0.07 max	No relaxation	IS 3025 (Part-65)
29	Nickel (as Ni)	mg/l	< 0.001	0.02 max	No relaxation	IS 3025 (Part 65)
30	Total arsenic (as As)	mg/l	<0.001	0.01 max	No relaxation	IS 3025 (Part 65)
31	Total chromium (as Cr)	mg/l	<0.01	0.05 max	No relaxation	IS 3025 (Part 65)

Verified By

T.A. NAGARAJ Director

Authorised Signatory

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SNEHA TEST HOUSE PRIVATE LIMITED

Recognised by EPA 1986, Govt. of India

TEST REPORT

Report no:	STHPL/2026/00557		
Issued To:	**M/S. RAIL WHEEL FACTORY,** Indian Railways, Yelahanka, Bangalore-560064		
Contact Person:	-	Contact Details:	-
Sample Details (Customer Provided Details)			
Sample Name:	**R.O WATER**	Sample Quantity:	2ltr
Sample Package:	PE Container Tightly closed	Location:	Time office
Batch No/Sample Marked/Any other information	-		
Laboratory Details			
Condition of Sample at Receipt:	Good	Sample Collected on:	16.01.2026
Sampling By:	Not Applicable	Sample Receipt Date:	16.01.2026
Sample Collected by:	Representative of STH (Mr.Shnatha kumar)	Analysis Started Date:	16.01.2026
Sampling Procedure:	Not Applicable	Analysis Completed Date:	23.01.2026
Report Issue Date:	23.01.2026	Page No:	3 of 3
Any other information:	-		

Discipline: Biological
Group: Water
Subgroup: Water

SL. No	TEST PARAMETER	UNITS	RESULTS	LIMITS AS PER IS: 10500- 2012	TEST METHOD
1	Escherichia coli	100 ml	Absent	Absent	IS : 15185 :2016
2	Total coliforms	100 ml	Absent	Absent	IS : 15185 :2016

Remarks: The above Tested Water Sample complies the acceptable limits as Per IS 10500:2012 for the above Tested parameters only.

Note: For Disclaimer Refer Back side of the Test Report

*****END OF REPORT*****

Verified By

Technical Manager SUBHASHINI

Authorised Signatory

No. 8 and No. 28, 4th Cross, Maruthi Nagar, Chandra Layout 80ft Road, Bengaluru - 560072
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SNEHA TEST HOUSE PRIVATE LIMITED

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TEST REPORT

Report no:	STHPL/2026/00558		
Issued To:	**M/S. RAIL WHEEL FACTORY,** Indian Railways, Yelahanka, Bangalore-560064		
Contact Person:	-	Contact Details:	-
Sample Details (Customer Provided Details)			
Sample Name:	**R.O WATER**	Sample Quantity:	2ltr
Sample Package:	PE Container Tightly closed	Location:	Staff canteen
Batch No/Sample Marked/Any other information	-		
Laboratory Details			
Condition of Sample at Receipt:	Good	Sample Collected on:	16.01.2026
Sampling By:	Not Applicable	Sample Receipt Date:	16.01.2026
Sample Collected by:	Representative of STH (Mr.Shnatha kumar)	Analysis Started Date:	16.01.2026
Sampling Procedure:	Not Applicable	Analysis Completed Date:	23.01.2026
Report Issue Date:	23.01.2026	Page No:	1 of 3
Any other information:	-		

Discipline: Chemical
Group: Water
Subgroup: Water
Description: Colourless, odourless, transparent liquid.

SL. No	Parameter	Units	Results	Maximum Acceptable Limit as per IS:10500-2012	Maximum Permissible Limits In The Absence of Alternate Source as per IS:10500-2012	Test Method
1	Colour	Hz	<2.0	5 max	15 max	IS 3025 (Part 4)
2	pH value	-	7.98	6.5-8.5	No relaxation	IS 3025 (Part 11)
3	Conductivity	µS/cm	320	---	---	IS:3025(Part-14)
4	Turbidity	NTU	<0.1	1 max	5 max	IS 3025 (Part 10)
5	Total Dissolved Solids	mg/l	192	500 max	2000 max	IS 3025 (Part 16)
6	Aluminium (as Al)	mg/l	< 0.01	0.03 max	0.2 max	IS 3025 (Part 65)
7	Ammonia (as total ammonia-N)	mg/l	< 0.1	0.5 max	No relaxation	IS 3025 (Part 34)
8	Boron (as B)	mg/l	< 0.1	0.5 max	2.4 max	IS 3025 (Part 57)
9	Calcium (as Ca)	mg/l	24.7	75 max	200 max	IS 3025 (Part 40)
10	Chloride (as Cl)	mg/l	99.3	250 max	1000 max	IS 3025 (Part 32)
11	Copper (as Cu)	mg/l	< 0.05	0.05 max	1.5 max	IS 3025 (Part 42)
12	Fluoride (as F)	mg/l	<0.1	1.0 max	1.5 max	Apha (24th Edition:2017) 4500 -F
13	Free residual chlorine as C12	mg/l	<0.1	0.2 minimum	1.0 minimum	IS 3025 (Part 26)
14	Iron (as Fe)	mg/l	<0.05	1.0 max	No relaxation	IS 3025 (Part 53)

Min: Minimum
NOTE: The Test Residual free Chlorine is applicable only when water is chlorinated.

Verified By

T.A. NAGARAJ Director

Authorised Signatory

No. 8 and No. 28, 4th Cross, Maruthi Nagar, Chandra Layout 80ft Road, Bengaluru - 560072
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SNEHA TEST HOUSE PRIVATE LIMITED

Recognised by EPA 1986, Govt. of India

TEST REPORT

Report no:	STHPL/2026/00558		
Issued To:	**M/S. RAIL WHEEL FACTORY,** Indian Railways, Yelahanka, Bangalore-560064		
Contact Person:	-	Contact Details:	-
Sample Details (Customer Provided Details)			
Sample Name:	**R.O WATER**	Sample Quantity:	2ltr
Sample Package:	PE Container Tightly closed	Location:	Staff canteen
Batch No/Sample Marked/Any other information	-		
Laboratory Details			
Condition of Sample at Receipt:	Good	Sample Collected on:	16.01.2026
Sampling By:	Not Applicable	Sample Receipt Date:	16.01.2026
Sample Collected by:	Representative of STH (Mr.Shnatha kumar)	Analysis Started Date:	16.01.2026
Sampling Procedure:	Not Applicable	Analysis Completed Date:	23.01.2026
Report Issue Date:	23.01.2026	Page No:	2 of 3
Any other information:	-		

SL. No	Parameter	Units	Results	Maximum Acceptable Limit as per IS:10500-2012	Maximum Permissible Limits In The Absence of Alternate Source as per IS:10500-2012	Test Method
15	Magnesium (as Mg)	mg/l	7.4	30 max	100 max	IS 3025 (Part 46)
16	Manganese (as Mn)	mg/l	< 0.01	0.1 max	0.3 max	IS 3025 (Part 65)
17	Nitrate (as NO3)	mg/l	8.2	45 max	No relaxation	IS 3025 (Part 34)
18	Phenolic compounds (as C6H5OH)	mg/l	< 0.001	0.001max	0.002 max	IS 3025 (Part 43)
19	Selenium (as Se)	mg/l	< 0.001	0.01max	No relaxation	IS 3025 (Part 65)
20	Sulphate (as SO4)	mg/l	10.2	200 max	400 max	IS 3025 (Part 24)Sec1
21	Total alkalinity (as CaCO3)	mg/l	80.4	200 max	600 max	IS 3025 (Part 23)
22	Total hardness (as CaCO3)	mg/l	92.0	200 max	600 max	IS 3025 (Part 21)
23	Zinc (as Zn)	mg/l	< 0.01	5 max	15 max	IS 3025 (Part 49)
24	Cadmium (as Cd)	mg/l	< 0.001	0.003 max	No relaxation	IS 3025 (Part 65)
25	Cyanide (as CN)	mg/l	< 0.1	0.05 max	No relaxation	IS:3025(Part 27)Sec-I 2021
26	Lead (as Pb)	mg/l	< 0.001	0.01 max	No relaxation	IS 3025 (Part 47)
27	Mercury (as Hg)	mg/l	< 0.0005	0.001 max	No relaxation	USEPA 200.8:2022
28	Molybdenum (as Mo)	mg/l	< 0.01	0.07 max	No relaxation	IS 3025 (Part-65)
29	Nickel (as Ni)	mg/l	< 0.001	0.02 max	No relaxation	IS 3025 (Part 65)
30	Total arsenic (as As)	mg/l	<0.001	0.01 max	No relaxation	IS 3025 (Part 65)
31	Total chromium (as Cr)	mg/l	<0.01	0.05 max	No relaxation	IS 3025 (Part 65)

Verified By

T.A. NAGARAJ

Authorised Signatory

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SNEHA TEST HOUSE PRIVATE LIMITED

Recognised by EPA 1986, Govt. of India

TEST REPORT

Report no:	STHPL/2026/00558		
Issue To:	**M/S. RAIL WHEEL FACTORY,** Indian Railways, Yelahanka, Bangalore-560064		
Contact Person:	-	Contact Details:	-
Sample Details (Customer Provided Details)			
Sample Name:	**R.O WATER**	Sample Quantity:	2ltr
Sample Package:	PE Container Tightly closed	Location:	Staff canteen
Batch No/Sample Marked/Any other information	-		
Laboratory Details			
Condition of Sample at Receipt:	Good	Sample Collected on:	16.01.2026
Sampling By:	Not Applicable	Sample Receipt Date:	16.01.2026
Sample Collected by:	Representative of STH (Mr.Shnatha kumar)	Analysis Started Date:	16.01.2026
Sampling Procedure:	Not Applicable	Analysis Completed Date:	23.01.2026
Report Issue Date:	23.01.2026	Page No:	3 of 3
Any other information:	-		

Discipline: Biological
Group: Water
Subgroup: Water

SL. No	TEST PARAMETER	UNITS	RESULTS	LIMITS AS PER IS: 10500- 2012	TEST METHOD
1	Escherichia coli	100 ml	Absent	Absent	IS : 15185 :2016
2	Total coliforms	100 ml	Absent	Absent	IS : 15185 :2016

Remarks: The above Tested Water Sample complies the acceptable limits as Per IS 10500:2012 for the above Tested parameters only.
Note: For Disclaimer Refer Back side of the Test Report

*****END OF REPORT*****

Verified By

Technical Manager SUBHASHINI S.

Authorised Signatory

No. 8 and No. 28, 4th Cross, Maruthi Nagar, Chandra Layout 80ft Road, Bengaluru - 560072
Phone: 080 - 23180113 | Mobile: 9611324429 / 9844027167
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	RAIL WHEEL FACTORY Incorporating ISO_45001_2018 FORMATS FOR OHS&EMS	FORMAT NO. :FE-055 REV.NO. / I.S : 00 / 05 DATE :30/04/2014 PAGE : 1 OF 1
	NOISE LEVEL MONOTORING	

Equipment used sound level Meter: Model No: SL 4010, P874366& Cert no NO13061/1
Calibration validity 12/06/2025 TO 11/06/2026

SOUND LEVELS AT VARIOUS LOCATIONS IN RAIL WHEEL FACTORY
MEASURED AT RWF ON 24/04/2026

Sl. No.	Location/Area	Sound Level (dB)	Remarks
WHEEL SHOP MELTING AREA			
01	Electric Arc Furnace 'A'	95-96	While furnace is working
02	Electric Arc Furnace 'B'	94-95	
03	Electric Arc Furnace 'C'	97-99	
04	In between furnace 'B&C	93-94	
05	Inside the control room of Arc furnace	78-79	
	Pouring Station		
06	Inside the control of Pouring station	72-74	
07	Outside the control Room	85-86	
08	Near wheel casting	86-87	
09	Slag off station	89-90	
10	First aid room	60-61	
	Sprue wash		
11	Near sprue wash area	95-94	
	Spray area		
13	Near cope spray booth	84-85	
14	Near drag spray booth	84-85	
15	Near rim quenching	83-85	
	WFPS / Wheel Machining Area		
16	Near boring machine	92-93	
17	Magna glow station	94-95	
18	Outside magna glow station	95-96	
19	Wheel loading area	90-92	
20	Near peening machine	86-88	
	Compressor room		
20	Near Compressor B	86-89	3 Compressors working
21	Near Compressor C	88-90	
22	Near Compressor C1	93-94	
23	Near Compressor G	88-90	
24	Near Compressor G1	89-90	
25	Near Compressor E	92-94	
26	Operators Room	61-62	
27	Near entrance outside the compressor room	85-87	
28	Outside the control Room	90-91	
Water Pump House			
29	Near Gate	85-87	While pumps are working
30	Near cold water pump (CWP III)	84-85	
31	Near Vacuum Pump House (50 HP)	82-84	

32	In side Control room	69-71	
	D G Area		
33	Near control room Generator-1	83-85	One generator is running
34	Near control room Generator-2	84-86	
35	Between Generator 1& 2 near control room	83-85	one generator is running
36	Inside the Control Room	69-71	
Axle Shop			
38	CNC End milling & cup turning	83-84	
39	CNC Roughing Lathe	84-85	
40	CNC Lathes	84-86	
41	CNC Grinding Machine	84-85	
42	MPT	83-84	
43	Mounting press	84-86	
44	Near Automatic Forging Machine GFM	86-88	
45	Inside Forge Shop control room	70-72	
46	MRS (Electrical)	64-69	
47	Wheel Ele sub station	56-59	
48	Axle Ele sub station	60-62	
49	Construction site (Day & Night)	60-61	
50	M. Lab	89-90	
	AXLE FORGING SHOP		
51	Billet cutting machine	91-93	
52	Near old RHF	84-86	
53	Near old Forging machine GFM	84-85	
54	End cutting machine	83-85	
55	Inside forging machine control room	82-84	
56	Normalizing furnace	84-86	
57	Tempering furnace	83-86	
58	Quenching station	85-87	
59	New Billet cutting machine	70-72	
60	Near new RHF	87-91	
61	Near Forging machine GFM	52-60	
62	End cutting machine	60-62	
63	Inside forging machine control room	64-70	
64	OLD PCB	85-89	
65	NEW PCB	87-89	
66	CDMS/STORES/G/GSD	70-74	
67	EMMS	69-70	
68	MET LAB	61-65	
69	RTS	71-73	
70	ASC	69-70	
71	MRS ELE	63-68	

72	MRS MECH	72-73	
73	Factory gate (day)	62-63	
74	Factory gate (night)	52-55	

PERMISSIBLE EXPOSURE IN CASE OF CONTINUOUS NOISE

Total time of Exposure per day in hrs.	Peak sound level in dB
8	90
6	92
4	95
3	97
2	100
1 & 1 ½	102
1	105
¾	107
½	110
¼	115

Note: No exposure greater than 115 dB is permitted

PERMISSIBLE EXPOSURE IN CASE OF IMPLUSIVE OR IMPACT NOISE

Peak sound level in dB.	Permitted no of impulsive or impacts per day
140	100
135	315
130	1000
125	3160
120	10000

Note: No exposure greater than 140 dB sound levels is permitted

All SSE are requested to advise the staff and supervisor to use Ear plugs /Ear muffs where noise levels are more than 85db and corrective action has to be taken to reduce the noise levels at work place.

KOTA VENKATA RAO

Digitally signed by KOTA VENKATA RAO
Date: 2026.04.24 16:14:51 +05'30'

SAFETY OFFICER

Copy to: CWE/Axle &Occupier
: Dy.CME/W-I&Factory manager
: DY.CEE&FM,DY.CE&FM,DY.CME/UTL&FM,DYCMM&FM
: CSO
: For all concerned SSE's

GHG INVENTORY REPORT

Scope-1

PRODUCTS	2021-22						
	Qty (input data)	Unit	Desired conversion	Converted Unit	Emission Factor	Emission Factor Unit	Total Emission (T.CO2)
LPG	158935.5	Kg	158.936	MT	2939.36	kgCO2/MT	467.17
HSD	375718	Litres	375718	Litre	2.66	kgco2/lit	999.41
PNG	9315906	NM3	9315906.0	NM3	2.04	kg CO2e /m3	19004.45
OWNED VEHICLES	135744	Litres	135744	Litre	2.66	kgco2/lit	361.08
Refrigerant (R32)	10	Kg	10	kg	677	kgco2/kg	6.77
Fire Extinguisher	150	Kg	150	kg	NA	NA	0.15
TOTAL							**20839.03**

GHG INVENTORY REPORT

Scope-1

PRODUCTS	2022-23						
	Qty (input data)	Unit	Desired conversion	Converted Unit	Emission Factor	Emission Factor Unit	Total Emission (T.CO2)
LPG	1957953	Kg	195.79	MT	2939.36	kgCO2/MT	575.51
HSD	510977	Litres	510977	Litre	2.66	kgco2/lit	1359.20
PNG	13150784	NM3	13150784.0	NM3	2.04	kg CO2e /m3	26827.60
OWNED VEHICLES	160500	Litres	160500	Litre	2.66	kgco2/lit	426.93
Refrigerant (R32)	0.022	Kg	0.022	kg	677	kgco2/kg	0.01
Fire Extinguisher	190	Kg	190	kg	NA	NA	0.19
TOTAL							**29189.4**

GHG INVENTORY REPORT

Scope-1

PRODUCTS	2023-24						
	Qty (input data)	Unit	Desired conversion	Converted Unit	Emission Factor	Emission Factor Unit	Total Emission (T.CO2)
LPG	91580	Kg	91.58	MT	2939.36	kgCO2/MT	269.19
HSD	544798	Litres	544798	Litre	2.66	kgco2/lit	1449.16
PNG	14094545	NM3	14094545	NM3	2.04	kg CO2e /m3	28752.87
OWNED VEHICLES	163900	Litres	163900	Litre	2.66	kgco2/lit	435.97
Refrigerant (R32)	25	Kg	25	kg	677	kgco2/kg	16.93
Fire Extinguisher	330	Kg	330	kg	NA	NA	0.33
TOTAL							**30924.45**

GHG INVENTORY REPORT

Scope-1

PRODUCTS	2024-25						
	Qty (input data)	Unit	Desired conversion	Converted Unit	Emission Factor	Emission Factor Unit	Total Emission (T.CO2)
LPG	95000	Kg	91.58	MT	2939.36	kgCO2/MT	279.2392
HSD	408798	Litres	408798	Litre	2.66	kgco2/lit	1087.40
PNG	16700629	NM3	16700629	NM3	2.04	kg CO2/m3	34069.29
OWNED VEHICLES	172400	Litres	172400	Litre	2.66	kgco2/lit	458.58
Refrigerant (R32)	20	Kg	20	kg	677	kgco2/kg	13.54
Fire Extinguisher	545	Kg	545	kg	NA	NA	0.54
TOTAL							**35908.59**

GHG INVENTORY REPORT

Scope-1

PRODUCTS	2025-26						
	Qty (input data)	Unit	Desired conversion	Converted Unit	Emission Factor	Emission Factor Unit	Total Emission (T.CO2)
LPG	96662	Kg	96.62	MT	2939.36	kgCO2/MT	284.13
HSD	NIL	Litres	NIL	Litre	2.66	kgco2/lit	NIL
PNG	17484411	NM3	17484411	NM3	2.04	kg CO2/m3	35668.19
OWNED VEHICLES	159374	Litres	159374	Litre	2.66	kgco2/lit	423.93484
Refrigerant (R32)	11.5	Kg	11.5	kg	677	kgco2/kg	7.7855
Fire Extinguisher	147.7	Kg	147.7	kg	NA	NA	0.1477
TOTAL							**36384.19**

GHG INVENTORY REPORT

Scope-2

PRODUCTS	2021-22			2022-23		
	Qty	CO2 Factor (T.CO2/MWh)	Total Emission (T.CO2)	Qty	CO2 Factor (T.CO2/MWh)	Total Emission (T.CO2)
Grid Electricity Purchased (MWh)	116512.2	0.711	82840.2	157561.2	0.716	112813.8
Green procurement (MWh)	4345			50202.9		
Grid Electricity (without Green Energy)	112167.2		80311.7	107359.2		76869.2
In house Renewable Energy (MWh)	1987.03			2078.84		
	4344.91					
Total Emissions (TCO2)	**80311.72**			**76869.19**		
Avoided Emissions (TCO2)	**4502.01**			**37433.7**		

GHG INVENTORY REPORT

Scope-2

PRODUCTS	2023-24			2024-25			2025-26		
	Qty	CO2 Factor (T.CO2/ MWh)	Total Emission (T.CO2)	Qty	CO2 Factor (T.CO2/MWh)	Total Emission (T.CO2)	Qty	CO2 Factor (T.CO2/ MWh)	Total Emission (T.CO2)
Grid Electricity Purchased (MWh)	156844.8	0.716	112300.8	162921.6	0.757	123331.7	158538.6	0.757	113513.6
Green procurement (MWh)	23426.09			40421			32411.64		
Grid Electricity (without Green Energy)	133418.7		95527.79	122500.6		92732.95	126126.9		95478.11
In house Renewable Energy (MWh)	2492.55			2482.2			2391.72		
Total Emissions (TCO2)	**95527.79**			**92732.95**			**95478.11**		
Avoided Emissions (TCO2)	**18557.8**			**32477.72**			**26346.13**		

GHG INVENTORY REPORT

Scope- 3

Emissions (TCO2)	2021-22	2022-23	2023-24	2024-25
Material Inbound	2834.88	3956.15	4788.34	5400.307
Material Outbound	3800.38	6365.51	6851.13	8887.75
Waste Disposal	729.42	1107.52	1244.78	565.44
Employee Commute	0.902	0.866	0.936	0.936
Total T Co2 Emissions	7365.582	11430.05	12885.19	14854.4
Specific Emission	0.0772	0.0857	0.09506	0.1055

GHG INVENTORY REPORT

GHG Emission Intensity

Emissions (T CO2)	2021-22	2022-23	2023-24	2024-25
Scope 1	20839.03	29189.4	30924.45	35908.59
Scope 2	80311.72	76869.19	95527.79	92732.95
Scope 3	7365.582	11430.05	12885.19	14854.4
Total	108516.3	117488.6	139337.4	143495.9
Total Production in MT (Wheel + Axle)	95382	133393	135539	140824.3
GEI	1.137699	0.880771	1.028022	1.018

1.0 PURPOSE AND SCOPE:

To lay down the system of Communication (both internal and external) to deal with emergency situations.

2.0 RESPONSIBILITIES

As indicated in Procedure.

3.0 DEFINITION

3.1 EMERGENCY:

An Emergency occurring in a factory or Township is one that may affect several departments within it or outside and may cause serious injuries, loss of life, extensive damage to property inside or outside the factory. It will also require the use of outside resources to handle it effectively.

Emergency is the result of a malfunctioning or bypassing of built-in safety devices and systems, deviations from the normal operating procedure or it may also be precipitated by the intervention of an outside agency or conditions such as:

3.2 ONSITE EMERGENCY:

If the accident takes place in the factory/Township and its effects are confined to the factory/Township premises involving the workers working in the factory, it is called "**ONSITE EMERGENCY".**

3.3 OFFSITE EMERGENCY:

If the effects of accidents are felt outside the factory/Township premises, the situation thus generated is called "**OFFSITE EMERGENCY".**

4.0 PROCEDURE

4.1 The employee noticing emergency situation informs the Section-In-Charge.

4.2 Section-in-Charge immediately visits the spot for assessment and if found serious in nature takes the following action.

4.2.1 By breaking the fire alarm panel glass nearest to the spot or Inform Fire department through phone No.72480.

4.2.2 Inform the concerned WM/DY.HOD/ HOD, Factory Manager/Safety Officer/Principal, KV, /MS/Secretaries. In case of any injuries to employees inform RWF Hospital over Phone, APO-II/SLWI.

4.2.3 For Plant, the Shift-In-Charge shall establish communication with Factory Manager (alternate Declarer of Emergency) over phone. In case phones are out of order due to some reason the shift-in-charge shall arrange to communicate to the Factory

Manager through a messenger. Emergency vehicle will be generally available in RT shop. In case of any transportation problem, contact SSE/RT Shop or Secretary to GM for arranging a car/vehicle immediately. Factory Manager in turn on receipt of the information tries to get in touch with CME or Occupier over phone or by other means.

4.3. For Township, the In charge shall establish communication with Factory Manager (alternate Declarer of emergency) over phone. In case of phones not working, the In charge shall arrange to communicate to the Factory Manager through a messenger. Emergency vehicle will be available in RT Shop. In case of any transportation problem, contact Secy. to GM for arranging a Car/vehicle immediately. Factory Manager, in turn, tries to get in touch with the Occupier over phone or by other means.

4.4 The Declarer of Emergency (or alternate Declarer of Emergency) after visiting the site and assessing the situation will declare emergency which is indicated through siren by using special code indicated below:

* Alarm for emergency - Siren blown intermittently five times in succession.

* Alarm for evacuation - raising and lowering hoots for one minute.

* All clear Alarm - continuous hoot for one minute.

4.5 The Occupier/Factory Manager informs the General Manager about the emergency situation and the progress of action.

4.6 Security Commandant/RPF/Factory Manager, if required calls for assistance from neighbouring industries and others over phone/through FAX.

4.7 The Section-in-Charge keeps on informing emergency control room over phone No.72874 on the progress of action and names of missing persons, if any.

4.8 Factory Manager/Safety Officer informs the Factory Inspector, Medical Inspector in case of major fire/explosion or serious accident over phone or through other means.

4.9 Factory Manager informs the Deputy Chief Controller of Explosives, Mangalore through phone or telegram/fax in case of explosion requesting him to visit the site of inspection.

4.10 Factory Manager/Safety Officer will inform the neighbouring factories and others about status of emergency at proper intervals.

4.11 APO-II or Welfare Inspector informs the relatives of injured employees in case of accidents inside the Plant.

4.12 MS, Principal/KV or Secretary informs the parents over phone or through a messenger.

4.13 On controlling emergency situation on the advise of Declarer of Emergency all clear

signals is given through a coded siren as per Para 4.3.

5.0 RECORDS:

The communications sent to Factory Inspector/Medical Inspector is maintained in file No.WAP/SAF/M-101/5 by Chief OS/Mechanical.

The communications sent to Chief/Deputy Chief Controller of Explosives is maintained in file No.WAP/SAF/M-101/21 by Chief OS/Mechanical.

RAIL WHEEL FACTORY

PROCEDURES FOR OHS & EMERGENCY MANAGEMENT	SECTION NO. : EM-05
EMERGENCY MANAGEMENT SYSTEM	PAGE : 1 OF 1

1.0 PURPOSE AND SCOPE

To lay down a system to tackle any emergency in Plant and Township on the shortest positive response time.

2.0 RESPONSIBILITY

As indicated in the procedure.

3.0 PROCEDURE

3.1 Organisation and responsibility of various personnel for management of emergency are laid down in procedure No.EM-04.

3.2 The system of communication (both internal and external) in case of emergency are laid down in procedure No.EM-07.

3.3 Action to be taken to control the emergency situation are laid down in procedure EM-08.

Emergency preparedness and response (wherever practicable) are periodically tested for ensuring that these are effective by conducting mock drills as per Procedure No.EM-10. Records of the same are maintained by Safety Officer for Plant, MS for Hospital, Principal for KV School, Secretary/East Colony for Officers' Club, Secretary/West Colony for Institute and JEs of East & West Colonies.

3.4 The hazardous materials used in RWF are HSD, Petrol, LPG, DA, Asbestos, Lubricating oil. The material safety data sheets are kept available with the concerned Section/Shop In-charge.

3.5 The concerned Shop Incharges, MS, Principal, KV, Secretary, East Colony/Officers' Club, Secretary/West colony Institute, JEs of East & West Colonies ensure that the fire extinguishers provided in their areas are in filled up condition by checking periodically.

3.6 Once in a month, SSE/Plant monitors the level of water in static tanks to ensure that they are above the minimum level.

3.7 Apart from others in particular, Procedure with No.EM-08 on emergency shut down procedure, Procedure No. EM-07 on "Communication" is reviewed and revised wherever necessary after the occurrence of accident or emergency situation.

4.0 **RECORDS** : Nil.

1.0 Purpose and scope:

To lay down Emergency Organisation and define the responsibilities and for emergency preparedness and responding to tackle emergency situations.

2.0 Responsibility

The Organisation Chart for Emergency Management can be seen at Page 5 of 5. The responsibilities of various personnel are given as under:

2.1 Occupier/Chief Mechanical Engineer

- Declare emergency, if warranted.
- Provide necessary resources for controlling/preventing emergency situations.
- Report to General Manager about emergency incidents.
- Appoint an Investigation Committee to pin point the right cause and suggest remedial action.
- Accept the Investigation Team Report and take necessary action to prevent recurrence.
- Review and approve the Procedures for Emergency Management.

2.2 Concerned HOD/Deputy HOD

- To provide necessary resources for controlling emergency situation, clear bottlenecks, observed if any.
- Co-ordinate with all concerned in controlling emergency situation.

2.3 Factory Manager

- Inform the occupier in case of emergency situations.
- Declare emergency, if warranted, in the absence of occupier.
- Clear bottlenecks, observed if any.
- Maintain communication with Statutory Bodies, as per the requirement.
- Review and revise procedures for Emergency Management based on its effectiveness.

2.4 Chief Medical Superintendent (CMS)

- Declare Emergency, if warranted.
- Provide necessary resources for controlling/preventing emergency situations.
- Report to General Manager about emergency incidence.
- Co-ordinate with all concerned in controlling emergency situation.
- **To ensure that an Ambulance is available at all times in the RWF Hospital.**

2.5 Doctor on Duty

- Arrange for Ambulance and if the ambulance is not available, inform the same to Shift Incharge for making alternate arrangement.
- Treat the injured or arrange to shift to other Hospitals, if required.

2.6 Security Commissioner (SC)

- Training the fire crew members in fire fighting.
- Taking action to contain the environmental incident.
- Periodically testing and ensuring emergency preparedness of his crew and other system related to Emergency Management.
- Arrange for assistance, if required, from neighbouring industries and others for controlling emergency situation.

2.7 Principal/KV

- Declare emergency, if warranted.
- Provide necessary resources for controlling/preventing emergency situations.
- Report to General Manager about emergency incidence.
- Co-ordinate with all concerned in controlling emergency situation.

2.8 APO(II)/SLWI/WI

- Inform CPO.
- Inform the Hospital, if required
- Inform the family members, if injured.
- Provide necessary assistance in co-ordination with Hospital authorities.

2.9 Secretary/Officers' Club/East Colony

- Provide necessary resources for controlling/preventing emergency situations in Officers' Club.
- Co-ordinate with all concerned in controlling emergency situation.

2.10 Secretary/Officers' Club/East Colony

- Provide necessary resources for controlling/preventing emergency situations in Institute and Swimming Pool.
- Co-ordinate with all concerned in controlling emergency situation.

2.11 JE/East Colony.

- Provide necessary resources for controlling/preventing emergency situations in Institute and Swimming Pool.
- Co-ordinate with all concerned in controlling emergency situation.

2.12 JE/West Colony (Including Horticulture)

- Provide necessary resources for controlling/preventing emergency situations in Institute and Swimming Pool.
- Co-ordinate with all concerned in controlling emergency situation.

2.13 Safety Officer

- Inform the Factory Manager, IPF/F, APO/W or Senior Welfare Inspector and Hospital about the emergency situation.
- Inform the Statutory bodies viz., KSPCB, Factory Inspector, Deputy Chief Controller of Explosives, wherever required.
- Periodically conduct joint tests with IOW/P & SSE/DG about the working of hydrants.

2.14 IPF/Fire

- Periodically conduct joint tests with Safety Officer, Section Engineer/Plant & SSE/DG about the working of hydrants, fire alarm panels and smoke detector and maintain records of the same.
- Monitor the level of water in the static tank once in a month.
- Ensuring that the fire crew/tender reaches the spot or environmental incidence at the shortest possible time.
- Arrange to remove the nearby fire prone substances or waste from the place of incident.
- Take necessary action to control/contain the emergency situation.
- Barricading the area of incidence.

2.15 Shift/Supervisor Incharge

- Immediately visit the spot to assess the emergency situation.
- Arrange First Aid to the injured.
- Inform RWF Hospital and shift the injured, if any, to the Hospital by the fastest and safest available means without loss of time.
- Contact family members of the injured.
- Breaking the Fire Alarm glass panel or Inform Fire station through telephone No.72480.
- Inform the Safety Officer, Factory Manager, concerned AWM/WM/Dy.CME/Controlling HOD,

APO-II/Senior Welfare Inspector.

2.16 SSE/DG

- Periodically conducting joint testing of working of hydrant system.
- Regulating the power supply from diesel generator set as per the emergency situation.
- Rectifying the defects in hydrant system.
- Rectifying the defects in fire panels, smoke detector (concerned to MIS Centre.
- Providing necessary lighting in case of emergency, if required.

2.17 SSE/E/MRS

Rectifying the defects in smoke detector system in Wheel Shop as and when reported by IPF/F.Power shut down in case of fire and other emergency situations.

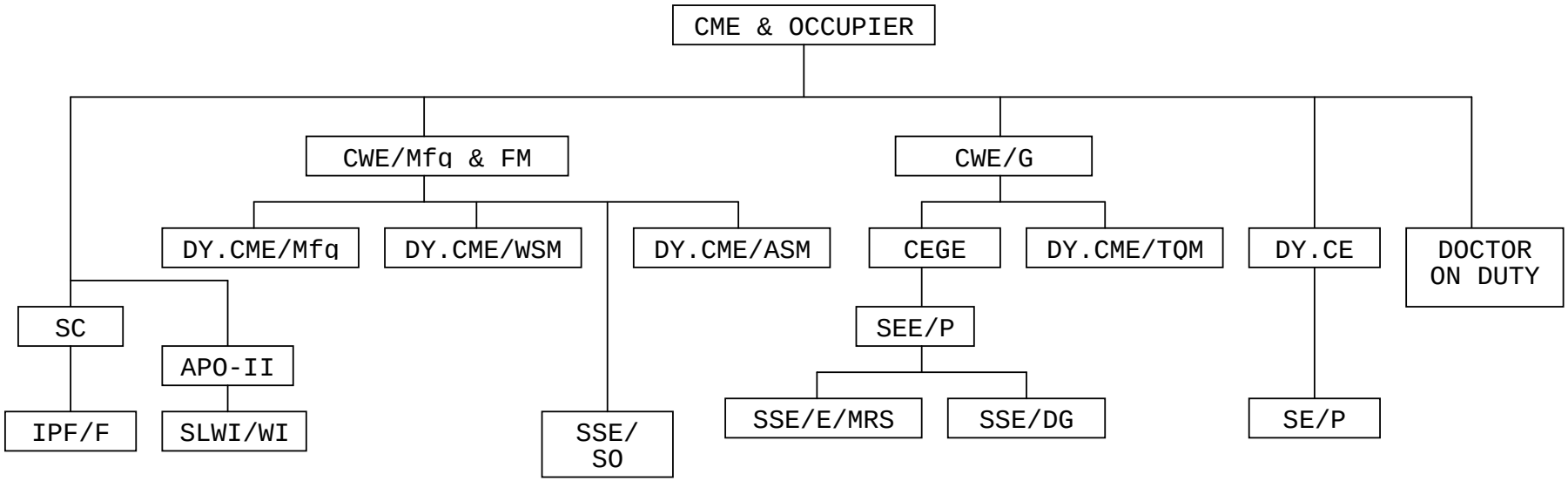
2.18 SE/Plant

- Rectifying the defects in hydrant system.
- Periodically conducting joint testing of working of hydrant system.

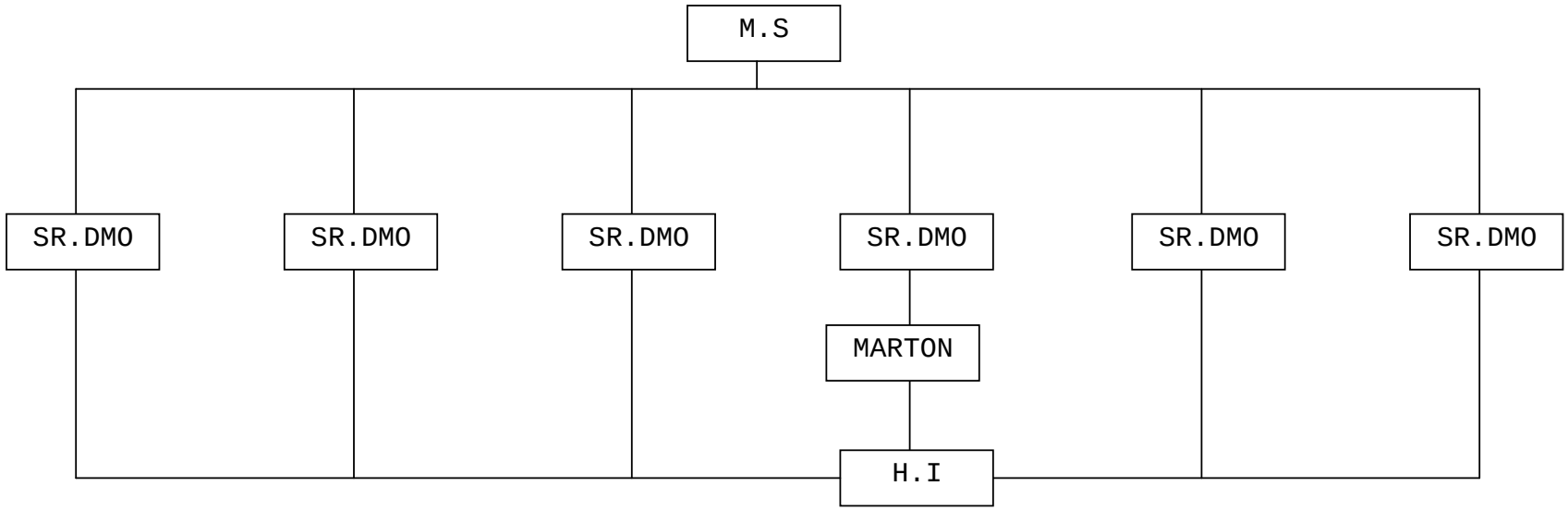
3.0 Records

Nil.

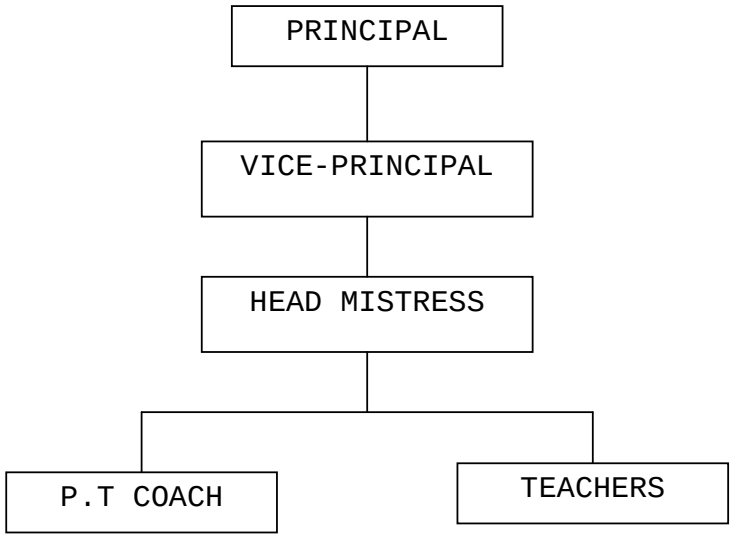
FOR PLANT


CME & OCCUPIER
CWE/Mfq & FM
CWE/G
DY.CME/Mfq
DY.CME/WSM
DY.CME/ASM
CEGE
DY.CME/TQM
DY.CE
DOCTOR ON DUTY
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APO-II
SEE/P
IPF/F
SLWI/WI
SSE/ SO
SSE/E/MRS
SSE/DG
SE/P

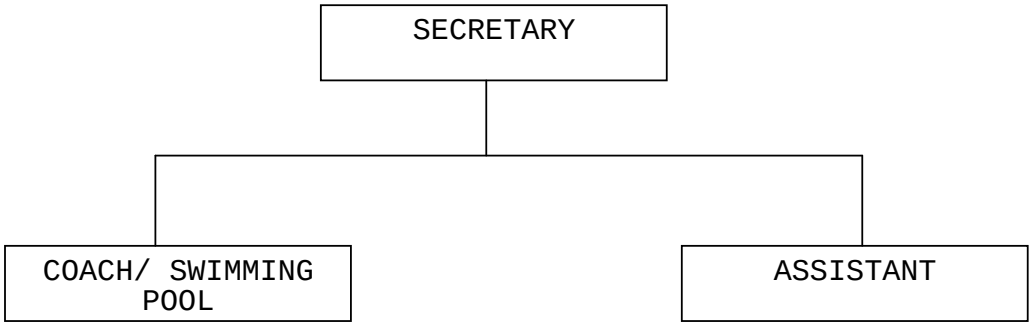
FOR HOSPITAL



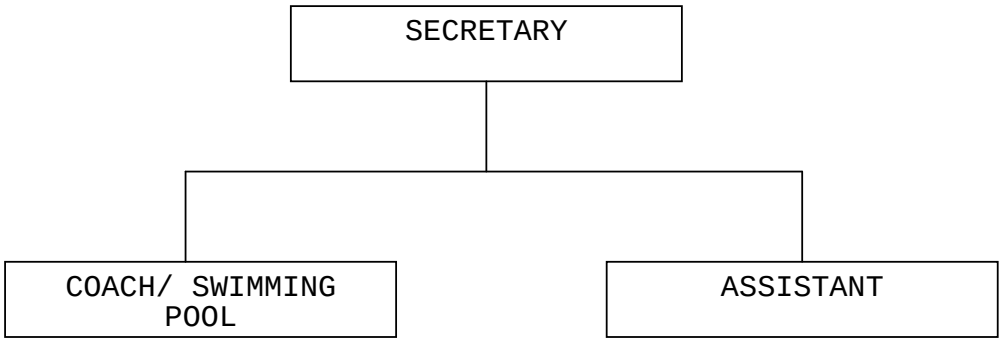
FOR KENDRIYA VIDYALAYA



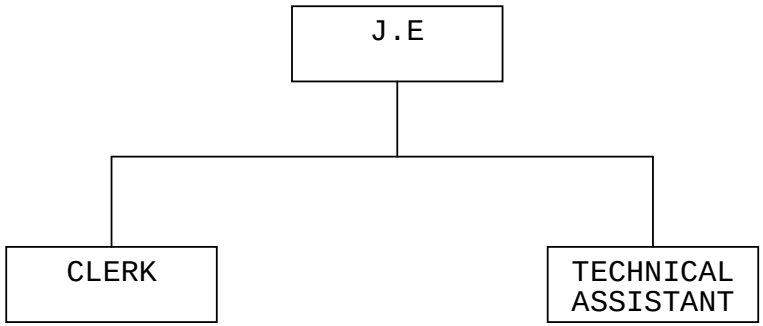
FOR SECRETARY/OFFICERS' CLUB/EAST COLONY



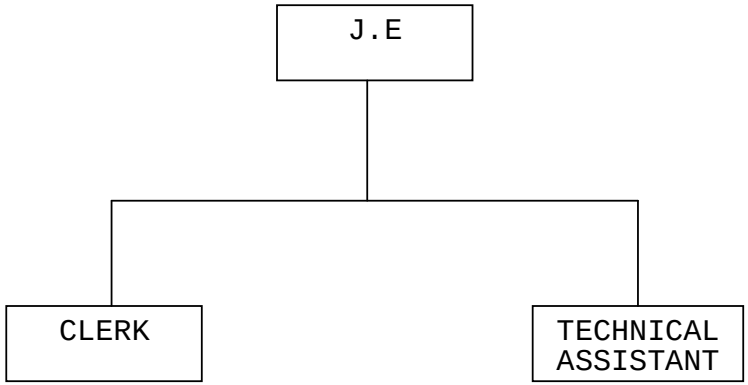
FOR SECRETARY/INSTITUTE/WEST COLONY



FOR JE/EAST COLONY



FOR J.E/WEST COLONY



1.0 **PURPOSE & SCOPE:**

To lay down a procedure to take necessary action to control in case of various emergencies.

2.0 **RESPONSIBILITY:**

As indicated in the Procedure.

3.0 **PROCEDURE:**

3.1 Emergency situation can arise in RWF due to:

3.1.1 Molten metal spillage in Melting, Pouring pit area due to malfunction/failure of equipment (Furnace, EOT Crane, Ladle) or operational mistakes:

3.1.2 Fire and explosion in HSD/Petrol Storage areas and Busting of Pipe Lines:

3.1.3 Machinery & Plant area (Heat Treatment Furnaces -Normalising/Draw and Sand Plant in Wheel Shop, - Billet heating, Normalising Furnaces, Quench Tank, Tempering Furnaces in Axle Shop.

3.1.4 Explosion of DA Gas/LPG Cylinders.

3.1.5 Bursting of pressure vessels including liquid oxygen tanks and compressed air lines.

3.1.6 Emission of smoke due to oil catching fire.

3.1.7 Spillage of oil due to bursting of hoses, pipeline fittings &/or due to over flowing of storage as a result of malfunction of float valves.

3.1.8 Off loading of hot wheels due to process equipments breakdown.

3.2 The procedure to be followed during emergencies is given as under for emergency situations arising due to 3.1.1 to 3.1.5.

3.2.1 Normally emergency type of situation is noticed by an Operator/Section Supervisor, who in turn informs the Shift-in-Charge (SIC).

3.2.2 The SIC visits the spot for assessment and if found serious in nature, break the glass of Fire Alarm panel or informs Fire department over Phone No. 72480 and all concerned as per the Procedure No. EM-07 on communication.

3.2.3 The SIC will:

- Put OFF the equipment on fire and isolate it from electric power supply.
- Alert the persons working nearby and advise them to move to a safer area.
- Provide personnel protective equipment to the personnel working in the area.

- Assist the injured personnel by either giving first aid or shifting them to Hospitals.
- Removes all obstructions for Fire Fighting personnel to have free access to reach the accident spot.
- Remove any oil drum or other inflammable material kept near the affected area.
- Try to put off fire by using fire extinguishers.
- Arrange for sufficient lighting, if required.
- Alert the persons working nearby and Keep barricades and caution board around the hot wheels, mentioning **'' HOT WHEEL''**

3.2.4 Fire services rushes to the spot with Fire Tender, barricades the area and start extinguishing fire and evacuation of personnel, if any, trapped.

3.2.5 Depending on the nature of emergency, the concerned officials rush to the spot for taking necessary action.

3.2.6 If the situation so warrants, the Emergency declarer or alternate declarer in the absence of the emergency declarer, declares Emergency.

3.2.7 RPF/Inspector communicates the declaration of emergency by blowing siren intermittently five times in succession. **RWF on duty at 'A' gate also informs the following officials by phone.**

i)	**Safety Officer**	**72480/9449871268**
ii)	**Wheel shop control**	**72522**
iii)	**Axle shop control**	**72552**
iv)	**SMM/ depo**	**72922/9449871316**
v)	**XEN/ Civil**	**72204/9449871289**

3.2.8 On receipt of above information from RPF on duty , wheel shop control, Axle shop control , SMM/Depo, XEN/Civil will advise the nominated rescue in charge immediately.

Sl.no	Nominated supervisors		Standby Supervisors	
	Name & designation	Contact Phone No	Name & designation	Contact Phone No
1	Shri B.T Palakshappa, SSE/SMS	9449871234	i) Shri. Dayalan, JE/MR ii) Shri.Dayanand Rao, JE/SMS	9343854284 9844742177
2	Shri. B.Suresh, SSE/AMS	9449871228	Shri Srikantaswamy.R SSE/AFS	9449871226
3	Shri. Avadesh Kumar, DMS/PRO	9620919202	Shri. Karunakamurthy, CDMS/C&F	9449846439
4	Shri.	9449871205	Shri. Venkata	94498713456

	Rajagopal.K.S, SSE/Plant		**Subba Rao, SSE/BRI**	
5	**Shri. Sajan.S.I SSE/WP**	**9449846409**	**Shri. Mehasi SAN, SSE/AP**	**9449871210**

In such a case they are required to rush the spot with nominated rescue team and necessary implements such as shovels and baskets.

3.2.9 In case evacuation of personnel is warranted, and then the RPF/Inspector will communicate it through a special code of raising and lowering of siren for one minute.

3.2.9 **Security Commandant** establishes a Control Room for monitoring the situation continuously and providing the necessary assistance.

3.2.10 In case any external assistance is required, the Security Commandant calls for assistance from neighbouring industries and others through phone/Fax or through contacting directly.

3.2.11 The shift/section in charge keeps on informing emergency control room over phone No: 72874 on the progress of action and names of missing persons, if any.

3.2.12 The Occupier/Factory Manager informs the General Manager about the emergency situation and the progress of action.

3.2.13 The concerned SSE/P arranges to provide the necessary lighting, if required.

3.2.14 The Doctor on Duty, if required, rushes to the spot for providing the necessary First Aid to the injured.

3.2.15 APO/II or the Welfare Inspector informs the relatives of injured employees.

3.2.16 In case of any oil spillage due to bursting of oil tanks, the concerned SSE will make necessary arrangements to contain the oil for preventing water/land pollution.

3.2.17 On controlling the situation on the advice of the declarer of emergency RPF/Inspector gives an all clear signal by blowing the siren continuously for one minute.

3.3 In case of emergency situation due to oil spillages, as identified at 3.1.6, the following action is to be taken: -

3.3.1 Arrest the source of oil leakage/spillage and de-function the system.

3.3.2 In case of oil in drain barricade the flow and collect the oil.

3.3.3 Mop up further traces of oil in the drain.

3.3.4 Inform the concerned authorities for further course of action.

3.3.5 Safety Officer sends monthly statement of environmental incidents to Factory Manager on or before 5th of every month in Format No.FE-050.

4.0 **RECORDS:**

4.1 Safety Officer maintains the details of fire incidents indicating the extent of damage and corrective action taken in file No.FB/RWF/27 on fire incidents.

4.2 Concerned SSE/Shop maintains the details of environmental incidents other than fire incidence indicating corrective action taken and extent of damage/loss due to the incident in format FE-050.

1.0 PURPOSE AND SCOPE:

To lay down the list of key personnel/Organisation for contacting and taking necessary action to control/contain the emergency situation.

2.0 RESPONSIBILITY: Factory Manager.

3.0 LIST OF KEY PERSONNEL/ORGANISATION:

3.1 The list of key personnel/Section (Internal) to be contacted in case of emergency is given as under: -

Sl. No.	Designation	TELEPHONE NUMBERS				
		OFFICE		RESIDENCE		Mobile
		Rly	P&T	Rly	P&T	
1.	OCCUPIER /CME	72400	28564336	72401	28460449	9108501400
2.	FACTORY MANAGER/CWE/A	72404	28460760	72405	28462389	9108501402
3.	CHIEF SAFETY OFFICER	72478	-	-	-	9108501427
4.	SAFETY OFFICER	72478	-	-	-	9108501467
5.	SAFETY OFFICER	72876	-	-	72487	9108501468
6.	RWF RLY. HOSPITAL Casualty	72545	-	-	-	-
7.	RWF RLY. HOSPITAL OPD	72546	-	-	-	-
8.	Sr.DMO/FMO	72514	28560431	-	-	9108501507
9.	SSE/RT SHOP	72880	22711755	72881	-	9108501883
10.	AP0-II (WELFARE)	72602	-	-	- -	9108501611
11.	WI	72624	-	72625	-	9108501622
12.	RPF Inspector	72788	22711733	72789	28460129	9108501776
13.	CMO/RH	72500	28460377	72501	28564746	9108501500
14.	DY.CE	72202	28460951	72003	-	9108501201

3.2 The list of key Organisations (External) to be contacted in case of emergency is given as under: -

3.2.1 For fire assistance and mutual help from neighbouring industry:

Sl. No.	DESCRIPTION	TELEPHONE NOS.
1	Fire Fighting Services – Central Fire Control Room & Ambulance	22251700 (6 Lines)
2	Fire	101
3	M/s. Escorts	28460090
4	KEB Diesel Power Plant	28460905
5	Larsen & Tubro (L&T)	23333301
6	Mother Dairy	28460041
7	M/s. Astra IDL Limited	28460436

3.2.2 For Medical assistance:

Sl. No.	NAME OF THE HOSPITAL	TELEPHONE NOS.
1	ST.JOHNS MEDICAL COLLEGE HOSPITAL	25530724
2	ST. MARTHAS HOSPITAL	22274541
3	VICTORIA HOSPITAL – BURNS & CASUALITY	26701150
4	VICTORIA HOSPITAL – BLOOD BANK	26703294
5	BOWRING HOSPITAL, SHIVAJI NAGAR	25591362
6	BAPTIST MISSION HOSPITAL, HEBBAL	23330321
7	M.S.RAMAIAH HOSPITAL	23601615

3.2.3 statutory bodies:

In case of explosions, the following Statutory Bodies are to be called/informed immediately: -

Sl. No.	STATUTORY BODIES	TELEPHONE NUMBERS		FAX NUMBER
		OFFICE	RESIDENCE	
1	Chief Inspector of Factories (CIF) and Boilers, Bangalore	26531200	23530584	26531202
2	Dy.Chief Inspector of Factories (DCIF)	26531206	23530584	-
3	Senior Inspector of Factories, Region I, II Floor, Karmikha Bhavan, Bangalore Diary Circle Bannerghatta road, B'lore-29.	26531203 26531204	26654074	26531202
4	Medical Inspector of Factories (MIF)	26531203	26200335 9845204434	-
5	Chief Controller of Explosives (CCE), Nagpur	0712 - 533577	-	0712 – 543577
6	Dy.Chief Controller of Explosives (Dy.CCE), Mangalore	0824 - 441588	-	-
7	Yelahanka Police Station	28460101	-	-
8	DEO/Region II, KSPCB, Rajajinagar, Bangalore North	23521194	26561722	-
9	Commissioner of Police, Yelahanka	28461084	-	-

Records: Nil

1.0 PURPOSE AND SCOPE:

To lay down the Test Procedure for working of fire hydrant, fire alarm panel and smoke detection to ensure that these systems work effectively in case of emergency.

2.0 RESPONSIBILITY:

2.1 RPF/Inspector, Section Engineer/Plant, SSE/DG, SSE/UTL, Safety Officer are responsible for testing of fire hydrant system once in a month.

2.2 RPF/Inspector is responsible for testing of fire alarm panels and smoke detection system once in a month.

3.0 PROCEDURE:

3.1 Testing procedure for working of fire hydrant system.

3.1.1 Check and ensure that sufficient water in the storage tank adjacent to water pump house before starting the test.

3.1.2 Open fire hydrant valve No.5 and start main water pump for priming to release air in the pipeline system and close the valve. Ensure all other hydrant valves are in closed condition.

3.1.3 Hydrant system gets pressurised. When water pressure reaches 8.5 kg/cm sq., the main pump trips automatically and jockey pump starts working and maintains the system at a pressure of 3.5 kg/cm sq.

3.1.4 Once the pressure falls below 3.5 kg/cm sq. jockey pump strips and main motor automatically starts for pumping water to increase the pressure. This cyclic operation takes place automatically.

3.1.5 Check system water pressure at different hydrant points located in various places in the Plant area duly opening manual hand valve connecting to hose and gauge.

3.1.6 If pressure drops and not attaining the required pressure, then it is understood that there are some leakages in the pipe line.

3.1.7 Locate the leakage points in the pipe line and stop the joint inspection.

3.1.8 Safety Officer prepares the test report indicating the correction action to be taken, if any.

3.1.9 Section Engineer/Plant takes the necessary corrective action to rectify the leakages in the pipeline and advise the same to Safety Officer.

3.2 PROCEDURE FOR TESTING SMOKE DETECTION SYSTEM:

3.2.1 RPF/Inspector or his staff creates an artificial smoke in the area where smoke detectors are located.

3.2.2 Checks whether the alarm response sensor is getting actuated or not.

3.2.3 The exercise is repeated for all other smoke detection points.

3.2.4 If any of the smoke detectors are not giving indication, it is to be reported to SSE/DG for rectification.

3.2.5 SSE/DG rectifies the same and informs Safety Officer accordingly.

3.2.6 The test results and corrective action taken are recorded and maintained by Safety Officer.

4.0 RECORDS:

Safety Officer maintains the following records:

- The results of the test inspection check for fire hydrant system in file FB/RWF/11.
- The results of the test inspection check for smoke detection system in file FB/RWF/8.

RAIL WHEEL FACTORY

RAILWAY HOSPITAL YELAHANKA BANGALORE-560106

HEALTH REGISTER

OCCUPATIONAL HEALTH SERVICE

Date of PME 12/02/2026 Sl.No.OHS/HR/22/2010

Name: PAWAN KISHORE Age: 38

PF No. 086043 OPD No: HE/31034

Designation & Department.....: C&MSDept: M.LAB/MECH

Date of Employment to the Present Job.....: 04/09/2013,12

Date or Transfer to other work with reason.....:

Nature of Job.....: TESTING

Raw materials/products or by products likely to: be exposed to

Date of Previous Medical Examination and results: 23/01/2025

Clinical Examination:	Right	Left
Visual Acuity without spectacles.....:	6/6	6/6
Visual Acuity with spectacles.....:		

BP 134/97 CVS: NAD

RS NAD PA: NAD

Investigations :-

Chest X-ray NRA

PFT - FVC Litres, % FEV1: %

ECG WNL RBS: 107 mg/dl

1. If found unfit period of suspension.....: NIL

2. Whether certificate of unfitness issued to worker No

3. Fitness to resume duty on: 12/02/2026

4. Due date for next PME: 12/02/2027

5. Remarks: REGULAR USE OF PPM

Date: 12/02/2026

Copy to: SSE/Met. Insp. - Wheel

Chief Medical Superintendent

अपर मुख्य चिकित्सा अधिकारी
ADDL. CHIEF MEDICAL SUPDT
रेल पहिया कारखाना (भारतीय रेल)
Rail Wheel Factory (Indian Railways)
रेलवे अस्पताल/RAILWAY HOSPITAL
यलहंका, बेंगलूरु - 560064
Yelahanka, Bangalore-560064

RAIL WHEEL FACTORY

RAILWAY HOSPITAL YELAHANKA BANGALORE-560106

HEALTH REGISTER

OCCUPATIONAL HEALTH SERVICE

Date of PME 16/12/2025 Sl.No.OHS/HR/22/2010

Name: DHARMENDRA KUMAR Age: 38

PF No. 110040 OPD No: HE/

Designation & Department..... C & MA ..... Dept. M.LAB / MECH

Date of Employment to the Present Job..... 01/01/1900.

Date or Transfer to other work with reason.....

Nature of Job.....

Raw materials/products or by products likely to be exposed to

Date of Previous Medical Examination and results:

Clinical Examination:	Right	Left
Visual Acuity without spectacles.....	6/9	6/6
Visual Acuity with spectacles.....	6/6	6/6

BP 114/80 CVS: NAD

RS NAD PA: NAD

Investigations -

Chest X-ray NRA

PFT - FVC Litres, % FEV1: %

ECG WNL RBS: 109mg/dl

1. If found unfit period of suspension.....

2. Whether certificate of unfitness issued to worker

3. Fitness to resume duty on: 17/12/2025

4. Due date for next PME: 16/12/2026

5. Remarks:

Date: 16/12/2025 Chief Medical Superintendent

Copy to:

RAIL WHEEL FACTORY

RAILWAY HOSPITAL YELAHANKA BANGALORE-560106

HEALTH REGISTER

OCCUPATIONAL HEALTH SERVICE

Date of PME: 25/02/2026 Sl.No.OHS/HR/22/2010

Name: MUKESH KUMAR Age: 32

PF No. 089210 OPD No: HE/39589

Designation & Department..... : C&MADept: Met. Lab

Date of Employment to the Present Job..... : 08/10/2020,

Date or Transfer to other work with reason..... :

Nature of Job..... : TESTING

Raw materials/products or by products likely to: be exposed to

Date of Previous Medical Examination and results: 22/01/2025

Clinical Examination:	Right	Left
Visual Acuity without spectacles..... :	6/9	6/9
Visual Acuity with spectacles..... :		

BP 140/90 CVS: NAD

RS NAD PA: NAD

Investigations -

Chest X-ray NAD

PFT - FVC Litres, % FEV1: %

ECG NORMAL RBS: 8 Comgtol

1. If found unfit period of suspension..... : NIL

2. Whether certificate of unfitness issued to worker: No

3. Fitness to resume duty on: 25/02/2026

4. Due date for next PME: 25/02/2027

5. Remarks: REGULAR USE OF PPM

Date: 25/02/2026

Copy to: SSE/Met. Lab.

Chief Medical Superintendent

अपर मुख्य चिकित्सा अधिकारी
ADDL. CHIEF MEDICAL SUPDT
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ENVIRONMENTAL STATEMENT FORM- V

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING 31st MARCH 2026.

(2025-2026)

PART- A

1	Name and Address of the owner occupier of the industry in operation or process	**Govind Pandey** **Chief Environment Officer &** **Chief Mechanical Engineer Planning** **Administrative Building** **Rail Wheel Factory, Yelahanka Newtown,** **Bengaluru 560064.**
2	Industrial Category	LARGE, Red Category
3	Production Capacity	Cast Wheels: 97000 TPA Forged Axles: 1,65,000 axles/ Annum (80,850 TPA)
4	Year Of Commencement	1984
5	Date of Last Environmental Statement Submitted	20.06.2025

PART-B

1. Water and Raw Material Consumption

a. Water Consumption in m³/day

Source	Water Consumption in Kilo Ltrs/day	
	2024-2025	2025-2026
a) Process/Cooling Water	198 KL/day	156.3 KL/day
b) Domestic	138 KL/day	147.3 KL/day

b. Water consumption per unit of product-

2024-25	2025-26
0.514 KL /MT	0.381 KL/MT

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RAIL WHEEL FACTORY (Indian Railways)
यलहंका, बेंगलूरु - 560 064
Yelahanka, Bengaluru - 560 064

2. Raw Material Consumption

a. Raw Material Consumption for Wheel Making during FY 2025-26

Wheel production in MT: 84459.79

Raw Material	Consumption (MT)	Consumption/unit of Product (MT/MT)	Remarks
Steel Scrap (Inhouse + other Railways)	169676.5	2.009	RWF is a Biggest recycler of Indian Railways, consumes majority of steel scrap generated across railways
Calcined Lime	8387.22	0.099	Used as flux for steel slag generation
Dolomite	492.18	0.006	
Graphite Electrode	594.46	0.007	Electricity based steel making no use of fossil fuels
Ferro Alloys	2441.215	0.029	Fe-Mn, Fe-Si, Si-Mn for desired steel grade
Graphite Powder	1797.72	0.021	For Re-carburization
Graphite Mould	709.22	0.008	Unlike traditional sand mould, casting RWF uses reusable Graphite moulds.
Silica Sand	7318	0.087	Sand is used only for riser preparation and the used sand is recycled completely in-house reclamation plant.
Refractories	7405	0.088	Furnace, ladle lining and casting facilitations pouring tubes, ingates

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b. Raw Material Consumption for Forged Axle during FY 2025-26

Axle production in MT: 65154.71

Raw Material	Consumption (MT)	Consumption/unit of Product (MT/MT)	Remarks
Blooms	93116.81	1.429	Steel blooms from integrated steel plants for forging of axles
Inserts (LNUX, Milling works etc)	40.3	0.0006	For facilitating machining operations of forged axles.
Cutting Oil	23.15	0.00035	
Castor Oil	50.7	0.00077	

PART-C

Pollution discharged to environment/ unit of output. (Parameter specified in consent issued)

Pollutants	Quantity of Pollutants discharged per mass/ day (Kg/day)	Concentration of Pollutants discharged mass/ volume (mg/Nm^3)	Percentage of variations from prescribed standards with reasons
1. Water	RWF has adopted zero effluent generation process. Domestic Sewage is treated in-house and treated water is being used for process, gardening and other non-potable uses. Analysis report for the month **March 2026** is enclosed as **Annexure-I.**		
2. Air	All the oil-fired furnaces have been converted to PNG. Pollutant emissions from Stack are within the KSPCB Norms and achieved through providing requisite APC measures and adequate stack heights. Stack & Ambient monitoring report for the month of **March 2026** is enclosed as **Annexure-II**		

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PART-D

HAZARDOUS WASTES GENERATION

(As specified under the Hazardous Waste/ Management and Handling Rules, 2016)

Hazardous Wastes	Schedule I Category	Waste	Type	2024-25 (MT/A)	2025-26 (MT/A)
From process	5.2	Wastes Residue containing Oil	Coolant Mixed Grinding Waste	49.14	61.05
	5.1	Used spent oil	Hydraulic Oil + Transformer Oil	10.25	121.5*
	5.3	Waste Cutting Oil	Water based Coolant Oil	30.35	43.14
	15.2	Discarded Asbestos	Used Asbestos Gaskets	17.55	19.97**
	3.3 & 33.2	Sludge & filters contaminated with Oil	Paper based Oil filter	29.55	27.45***
		Contaminated Cotton Rag & other cleaning materials	Oil soaked cotton waste, gunny bags, Dust masks, Gloves, Aprons, Foams & loose plastics		
		E-Waste	Computers, Xerox, cables Etc.	5.9	3.55

* Generation exceeded the authorized quantity of 95 MT on account of annual shutdown activities undertaken at both the Axle and Wheel Shops, wherein hydraulic oil and transformer oil in the power packs were fully replaced.

** Asbestos gaskets are used as sealing material between the pouring tube and mould. Ongoing, indigenization trials of pouring tubes have resulted in increased gasket consumption to prevent metal leakage. Simultaneously, trials for the development of non-asbestos gaskets are also in progress.

*** The incinerable/ Co-processing Wastes (includes non-hazardous gunny bags, plastics, etc.

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PART-E

SOLID WASTE GENREATION

	Waste Type	Quantity of Generation	
1	**Process Waste**	**2024-25 (MT/A)**	**2025-26 (MT/A)**
	Foundry skull	7914.57	7868.85
	Foundry slag	16893.99	23641.61
	Used Refractory Bricks.	970.67	1249.21
	Condemned Graphite Mould Blanks & electrodes	54.24	113.43
	Condemned Graphite Riser bits	28.23	48.51
	Mill scales (Forged scales)	1460.19	1821.52
	Packing Wood	465.13	1733.94
	Packing Cardboard	38.68	46.39
	Waste Plastic items	5.06	6.18
2	**Pollution Control Facility Waste**	**2024-25 (MT/A)**	**2025-26 (MT/A)**
	Fume Extraction Dust	1326.08	1250
3	**Quantity recycled or reutilized within the unit**	**2024-25 (MT/A)**	**2025-26 (MT/A)**
	Condemned wheels	4180.43	2762.93
	Condemned Axles	1057.96	1304.81
	Graphite mould dust re-utilized	374.18	523.41
	Turnings & borings compacted & used in Steel Melting Shop.	12291.8	14317.39
	Hub cuts and Risers	43485.3	44863.17
	Axle End Cuts	5056.52	7794.69
	Process sand reclaimed	6717.25	5672.75

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PART-F

Please specify the characterization (in terms of Composition and quantum) of Hazardous as well as Solid wastes indicate disposal adopted for both these categories of wastes.

Wastes	Characteristics	Haz Or Non-Haz	Disposal procedure
Used spent oil	Liquid spent mineral/lubricating oil combustible in nature	H	Disposed to authorized recyclers/ re-processors
Wastes Residue containing Oil	Semi-solid metallic sludge containing grinding fines, metal particles and residual coolant/oil; oily and combustible in nature	H	Disposed to authorized recycler/ ARF for co-processing
Discarded Asbestos	Solid fibrous sealing waste comprising asbestos fiber matrix with binder/filler	H	Disposed to authorized TSDF
Waste Cutting Oil	Spent water-based cutting fluid/emulsion comprising oil-water mixture, emulsifiers, additives, and suspended metal fines/contaminants	H	Disposed to authorized recyclers /re-processors/ Treatment facilities
Sludge & filters contaminated with Oil	Solid oil contaminated from filtration and cleaning activities Combustible in nature	H	Disposed to authorized incinerators/ARF for co-processing
Contaminated Cotton Rag & other cleaning materials		H	
Fume extraction Dust	Fine particulate dust containing metal oxides, from EAF fume extraction	NH	Disposed through authorized reuse/ recyclers/ARF for co-processing
Foundry skull	Solidified excess molten metal mass consisting predominantly of ferrous alloy/steel with oxide scale and impurities.	NH	Auctioned through IREPS registered vendors for metal recovery/recycling.
Foundry slag	Granular/lumpy non-metallic by-product containing metal oxides, silica, lime, alumina, and entrapped metal traces.	NH	

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Wastes	Characteristics	Haz Or Non-Haz	Disposal procedure
Condemned Fire Bricks.	Inert refractory ceramic waste composed mainly of alumina, silica, magnesia, and other refractory mineral constituents.	NH	Auctioned through IREPS registered vendors recycling/Reuse
Condemned Graphite Mould Blanks & electrodes	Solid carbonaceous graphite waste consisting predominantly of graphite/carbon with minor ash and process impurities.	NH	Auctioned through IREPS registered vendors recycling/Reuse. Proposal to crush and use it internally is in progress
Condemned Graphite Riser bits	Carbonaceous graphite off-cuts containing predominantly graphite with minor process impurities	NH	Auctioned through IREPS registered vendors recycling/Reuse
Mill scales (Forged scales)	Flaky/powdery iron oxide scale consisting mainly of iron oxides generated during forging/heat treatment.	NH	Auctioned through IREPS registered vendors for metal recovery/recycling
Packing Wood	Wooden packing waste comprising timber, plywood, pallets, and crates, occasionally mixed with nails/fasteners.	NH	Auctioned through IREPS registered vendors recycling/Reuse
Packing Cardboard	Dry recyclable paperboard / corrugated cardboard packaging waste composed predominantly of cellulose fiber, paper pulp, and adhesives, generated from packing and unpacking activities.	NH	
Waste Plastic	Recyclable plastic waste consisting predominantly of High-Density Polyethylene (HDPE) such as containers, liners, covers, and packaging materials generated from stores / packing activities.	NH	

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PART-G

Impact of the pollution abatement measures taken on the conservation of natural resources and on the cost of production.

I. **Natural Resource Conservation:**

Foundry Sand is an important consumable in the process of wheel casting. A thermal sand reclamation plant has been commissioned in 2019-20 to recover used baked sand. The reclamation plant has a capacity of 2 MT/hr and operates on PNG. It recovers 90% of the sand charged. This will reduce the environmental footprint of RWF. During the year 2025-26, 5672.75 MT of waste sand reclaimed and reused.

II. **Effective dispersion of stack emissions:**

Pollutant emissions from Stack are within the KSPCB Norms and achieved through providing requisite APC measures and adequate stack heights.

Steel Melt Shop: The steel melting process through Electric Arc Furnace(EAF) generates fumes primarily composed of iron oxides and other particulate matter, varying in proportion based on the operational regime. To ensure No direct emission to atmosphere each EAF is equipped with primary fume extraction system of capacity of 1,60,000 m3/hr and a secondary system of capacity 4,50000 Nm3/hr. The fumes extracted from the furnace are passed through bag filters to separate suspended particulate matter before being discharged through chimneys.

Transition to Cleaner Fuel: HSD to PNG: All the HSD fired heating and heat treatment furnaces in RWF have been converted to PNG fired furnaces in a phased manner.

III. **Greenbelt:**

- Over the year's RWF has developed extensive green belt (36.54% of total plant area) and approximately around 46,000 trees have been accounted.
- Green House has been set up with an area of 400 sqm housing 6000 saplings.
- Retirement functions are being organized with tree plantations by retirees.
- Miyawaki forest with 35000 saplings through at zero cost to RWF. Eco-friendly refrigerant for air conditioners have been adopted.

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III) Reutilization of Process effluent and domestic effluent:

- Process Effluent: RWF has adopted zero effluent discharge manufacturing process. The process water is utilized mainly for cooling purpose and the cooling water is circulated in a closed loop system, minimizing the overall water demand.
- Domestic Sewage is treated in-house and treated water is being used for process, gardening and other non-potable uses. Setting up of STP's for residential colonies are under progress.

PART-H

Additional measures/investment proposal for Environmental protection including the pollutants abatement of pollution, prevention of pollution.

- **Upgradation of the Primary Fume Extraction Systems** attached to Electric Arc Furnaces A & B is under progress. Intimation regarding the proposed upgradation was submitted to the Board on 09.11.2026. Upon completion, the system's dust extraction capacity will be enhanced from the existing 1,60,000 m^3/hr to 2,20,000 m^3/hr.

- **CAAQMS & CEMS**: In compliance with Environmental Clearance conditions, procurement of CAAQMS (Continuous Ambient Air Quality Monitoring System) and CEMS (Continuous Emission Monitoring System) for the Electric Arc Furnace systems is under progress.
- **Graphite Mould Crushing Machine** is proposed for crushing used graphite moulds into powder form for utilization in the Electric Arc Furnace (EAF) as a re-carburizer.

PART - I

Any other particulars in respect of Environmental Protection and Abetment of pollution.

- **Rain water Harvesting:**
  RWF has embraced Rain Water Harvesting (RWH) techniques to achieve its goal of becoming self-reliant on process water requirement. Both surface runoff harvesting and Roof top harvesting have been adopted. In the year 2025-26, 03 Nos of Rainwater Harvesting Ponds with combined harvesting capacity of 7.5 lakh litres erected near the pump house.
  Water conservation efforts have paid rich dividends to RWF, as it has become almost self-sufficient for raw water (about 2-3 lakh liters per day) and procurement from Bangalore Water Supply Board (BWSSB) for process water requirement has been stopped.

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- **Energy Conservation measures 2025-26:**

a) RWF has taken steps to replace old inefficient appliances by new energy efficient ones, and fit energy efficient systems in old ones.
b) 11 nos. of 150 kVAR IGBT Automatic Dynamic Power Factor Control (APFC) panels were installed. This resulted in Power Factor improvement across wheel shop substations upto 0.99.
c) Energy Efficient VFDs in place of PCB based Card Control system for LT and CT Motors in EOT cranes (2 & 3).
d) VFD based control system for Hoist operation in MRS Crane-1 in place of conventional Contactor system.
e) Continuous operation of PFES ID fan modified with Speed control interface of Roof movement of EAF.
f) In house Modification in Axle Loading conveyor of Assembly Shop, to prevent idle running of Hydraulic Motor. As a result annual energy saving of 22,104 units was achieved.

- **GreenCo Gold Certification:** RWF has successfully retained its GreenCo Gold Rating in the recertification audit conducted in **April 2025**, with the certification remaining valid up to April 2028. Further, in recognition of its continual adoption of environmental best practices, RWF was conferred the **GreenCo Champion Award** by the Confederation of Indian Industry on 12 June 2025.

- **BEE Shunya Rating :** RWF Administrative Building, KV School & hospital have been certified by BEE for Shunya rating for converting existing building to net zero energy building. The electricity demand of above 3 buildings are being met through in-house solar.

Place : Bengaluru
Date :

(Govind Pandey)
CME/Plg & Chief Environment Officer

मुख्य यांत्रिक इंजीनियर – योजना
Chief Mechanical Engineer - Planning
रेल पहिया कारखाना (भारतीय रेल)
RAIL WHEEL FACTORY (Indian Railways)
यलहंका, बेंगलूरु - 560 064
Yelahanka, Bengaluru - 560 064

NAL LABS LLP
Formerly - NATIONAL ANALYTICAL LABORATORIES AND RESEARCH CENTER
#1064, 1st, 2nd and 3rd floor, Rajgopal Nagar Main Road, 2nd Stage,
Peenya Industrial Area, Bengaluru, Karnataka, India- 560058.
T : 080 41214555 I M : +91 70901 54555 / 95383 24580
E-mail : info.nalrc15@gmail.com / patil.hrb@gmail.com Web : www.nalrcindia.com

TEST REPORT

Name & Address of the Customer : **M/s. Rail Wheel Factory**
Yelahanka, Bangaluru--560064
Particulars of sample : **STP Sludge Sample**
Date of Sample Collection : 12.03.2026
Date of Sample Receipt : 12.03.2026
Sample Code / ID : NAL/2026/03/1444
Date of Analysis Started : 13.03.2026
Date of Completion : 17.03.2026
Report No : NAL/2026/07677
Report Date : 17.03.2026
Page No : 1/1

Sl No	Parameters	Unit	Results	CPCB Std. For Direct Landfill Disposal	Test Method
1	Corrosive (I) pH Value @ 25°C	---	6.7	4.0 – 12.0	USEPA 1998: SW-846:9040B, 9045C
2	Calorific Value	Kcal/kg	476.0	<2500	IS: 1350 (Part II)-1970 (RA-2000)
3	Flash Point (Flammable)	°C	54.0	<60	USEPA 1998: SW-846: 1020A
4	Reactive Cyanide	mg/kg	6.8	250	USEPA 1998: SW-846; Ch 7 (7.3.4), 9034
5	Reactive Sulfide	mg/kg	2.7	500	USEPA 1998: SW-846; Ch 7 (7.3.4), 9034
6	Sulphides as H_2S	mg/L	1.1	5.0	APHA 23rd Edition 2017:4500S² F
7	Total Phenols	mg/L	BDL(DL=1)	<100	APHA 23rd Edition 2017:5530D
8	Cyanide as CN	mg/L	BDL(DL=2)	<2	APHA 23rd Edition 2017:4500CN-C
9	Nitrate as NO_3	mg/L	26.8	<30	APHA 23rd Edition 2017:4500NO_3 E
10	Arsenic as As	mg/L	0.688	<1.0	APHA 23rd Edition 2017: 3500-As B
11	Cadmium as Cd	mg/kg	2.102	--	USEPA 1998: SW-846; 3050B, 7130
12	Copper as Cu	mg/kg	7.32	--	USEPA 1998: SW-846; 3050B, 7210
13	Hexavalent Chromium as Cr6+	mg/L	BDL(DL=0.5)	<0.50	APHA 23rd Edition 2017: 3500-Cr B
14	Lead as Pb	mg/kg	BDL(DL=0.1)	--	USEPA 1998: SW-846; 3050B, 7420
15	Mercury as Hg	mg/L	BDL(DL=0.1)	<0.1	APHA 23rd Edition 2017: 3112-B, 3500-
16	Silver as Ag	mg/L	1.566	5	USEPA 1998: SW-846; 3050A, 7760A
17	Selenium as Se	mg/L	0.32	1	APHA 23rd Edition 2017: 3500-Se C
18	Barium as Ba	mg/L	76.44	100	USEPA 1998: SW-846; 3050A, 7080A
19	Antimony as Sb	mg/L	3.22	15	USEPA 1998: SW-846; 3050A, 7040
20	Beryllium as Be	mg/L	BDL(DL=0.1)	0.75	USEPA 1998: SW-846; 3050A, 7090

Note: BDL= Below Detection Limit, DL: Detection Limit.
Remarks: The given sample is non hazardous as per above tested parameters.

Verified By

***** End of the Report *****

NAL LABS LLP Bangalore-58

Authorized Signatory

Note: 1. The results listed above pertain only to the tested samples and applicable parameters. 2. Samples will be stored for a period of 15 days. 3. Sampling not done by us unless specified. 4. This report is not to be reproduced either wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without prior written permission.

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TEST REPORT

Name & Address of the Customer : **M/s. Rail Wheel Factory**
Yelahanka, Bangaluru--560064
Particulars of sample : **STP Sludge Sample**
Date of Sample Collection : 12.03.2026
Date of Sample Receipt : 12.03.2026
Sample Code / ID : NAL/2026/03/1444
Date of Analysis Started : 13.03.2026
Date of Completion : 17.03.2026
Report No : NAL/2026/07677
Report Date : 17.03.2026
Page No : 1/1

Sl No	Parameters	Unit	Results	CPCB Std. For Direct Landfill Disposal	Test Method
1	Corrosive (I) pH Value @ 25°C	---	6.7	4.0 - 12.0	USEPA 1998: SW-846:9040B, 9045C
2	Calorific Value	Kcal/kg	476.0	<2500	IS: 1350 (Part II)-1970 (RA-2000)
3	Flash Point (Flammable)	°C	54.0	<60	USEPA 1998: SW-846: 1020A
4	Reactive Cyanide	mg/kg	6.8	250	USEPA 1998: SW-846; Ch 7 (7.3.4), 9034
5	Reactive Sulfide	mg/kg	2.7	500	USEPA 1998: SW-846; Ch 7 (7.3.4), 9034
6	Sulphides as H_2S	mg/L	1.1	5.0	APHA 23rd Edition 2017:4500S² F
7	Total Phenols	mg/L	BDL(DL=1)	<100	APHA 23rd Edition 2017:5530D
8	Cyanide as CN	mg/L	BDL(DL=2)	<2	APHA 23rd Edition 2017:4500CN-C
9	Nitrate as NO_3	mg/L	26.8	<30	APHA 23rd Edition 2017:4500NO_3-E
10	Arsenic as As	mg/L	0.688	<1.0	APHA 23rd Edition 2017: 3500-As B
11	Cadmium as Cd	mg/kg	2.102	--	USEPA 1998: SW-846; 3050B, 7130
12	Copper as Cu	mg/kg	7.32	--	USEPA 1998: SW-846; 3050B, 7210
13	Hexavalent Chromium as Cr6+	mg/L	BDL(DL=0.5)	<0.50	APHA 23rd Edition 2017: 3500-Cr B
14	Lead as Pb	mg/kg	BDL(DL=0.1)	--	USEPA 1998: SW-846; 3050B, 7420
15	Mercury as Hg	mg/L	BDL(DL=0.1)	<0.1	APHA 23rd Edition 2017: 3112-B, 3500-
16	Silver as Ag	mg/L	1.566	5	USEPA 1998: SW-846; 3050A, 7760A
17	Selenium as Se	mg/L	0.32	1	APHA 23rd Edition 2017: 3500-Se C
18	Barium as Ba	mg/L	76.44	100	USEPA 1998: SW-846; 3050A, 7080A
19	Antimony as Sb	mg/L	3.22	15	USEPA 1998: SW-846; 3050A, 7040
20	Beryllium as Be	mg/L	BDL(DL=0.1)	0.75	USEPA 1998: SW-846; 3050A, 7090

Note: BDL= Below Detection Limit, DL: Detection Limit.
Remarks: The given sample is non hazardous as per above tested parameters.

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***** End of the Report *****

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TC-17354

TEST REPORT

Name & Address of the Customer	**M/s. Rail Wheel Factory** Yelahanka, Bangaluru--560064		
Discipline	**Chemical**	Sample ID	NAL/2026/03/203
Product or Material	Waste water (Effluents/Sewage)	Report No	NAL/2026/01044
Particulars of Sample	STP Raw Water	ULR No	TC173542600000013F
Sampling Point	Before Filtration tank	Date of Sample Collection	12.03.2026
Sample submitted by	Customer	Date of sample Receipt	12.03.2026
Sample collected by	Our Representative	Date of Analysis Started	12.03.2026
Sample Qty	2Ltrs	Date of Completion	17.03.2026
Page No	1/2	Report Date	18.03.2026
Sample package	Water Sample Collected in PET Bottle		
Description	Greyish colored liquid having objectionable odor.		

Sl. No	Parameters	Unit	Result	Test Method
1	pH Value @ 25°C	---	7.6	IS 3025(P-11) 2022
2	Total Suspended Solids	mg/L	228.0	IS 3025(P-17) 2022
3	Bio-Chemical Oxygen Demand (5days @ 20°C)	mg/L	120.0	APHA 24th EDITION 5210 BOD B
4	Chemical Oxygen Demand	mg/L	240.0	IS 3025(P-58) 2023
5	Ammonical Nitrogen as N	mg/L	5.9	IS 3025(P-34) 1988
6	Total Nitrogen as N	mg/L	17.7	IS 3025(P-34) 1988

NAL LABS LLP Bangalore

Verified By

Hanumantha Raju C K
Sr. Analyst
Authorized Signatory

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TC-17354

TEST REPORT

Name & Address of the Customer	**M/s. Rail Wheel Factory** Yelahanka, Bangaluru--560064		
Discipline	**Biological**	Sample ID	NAL/2026/03/203
Product or Material	Waste water (Effluents/Sewage)	Report No	NAL/2026/01044
Particulars of Sample	STP Raw Water	ULR No	TC173542600000013F
Sampling Point	Before Filtration tank	Date of Sample Collection	12.03.2026
Sample submitted by	Customer	Date of sample Receipt	12.03.2026
Sample collected by	Our Representative	Date of Analysis Started	12.03.2026
Sample Qty	2Ltrs	Date of Completion	16.03.2026
Page No	2/2	Report Date	18.03.2026
Sample package	Water Sample Collected in PET Bottle		
Description	Greyish colored liquid having objectionable odor.		

Sl. No	Parameters	Unit	Result	Test Method
7	Faecal Coliform	MPN/100ml	>1600	IS 1622-1981 RA 2019

**** End of the Report****

Verified By

NAL LABS LLP

ANUSHA H.S
Sr. Microbiologist
Authorized Signatory

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TC-17354

TEST REPORT

Name & Address of the Customer	**M/s. Rail Wheel Factory** Yelahanka, Bangaluru--560064		
Discipline	**Chemical**	Sample ID	NAL/2026/03/204
Product or Material	Waste water (Effluents/Sewage)	Report No	NAL/2026/01045
Particulars of Sample	STP Treated Water	ULR No	TC173542600000314F
Sampling Point	After Filtration tank	Date of Sample Collection	12.03.2026
Sample submitted by	Customer	Date of sample Receipt	12.03.2026
Sample collected by	Our Representative	Date of Analysis Started	12.03.2026
Sample Qty	2Ltrs	Date of Completion	17.03.2026
Page No	1/2	Report Date	18.03.2026
Sample package	Water Sample Collected in PET Bottle		
Description	Colorless liquid having unobjectionable odor.		

Sl. No	Parameters	Unit	Result	Standards as per KSPCB	Test Method
1	pH Value @ 25°C	---	7.7	6.5-8.5	IS 3025(P-11) 2022
2	Total Suspended Solids	mg/L	3.0	<10	IS 3025(P-17) 2022
3	Bio-Chemical Oxygen Demand (5days @ 20°C)	mg/L	2.9	<10	APHA 24th EDITION 5210 BOD B
4	Chemical Oxygen Demand	mg/L	18.0	<50	IS 3025(P-58) 2023
5	Ammonical Nitrogen as N	mg/L	1.8	<5	IS 3025(P-34) 1988
6	Total Nitrogen as N	mg/L	4.1	<10	IS 3025(P-34) 1988

Remarks: The above **sample meets to the KSPCB Limits** as per above tested Physio chemical parameters

Verified By

NAL LABS LLP Bangalore-58

Hanumantha Raju C K
Sr. Analyst
Authorized Signatory

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TC-17354

TEST REPORT

Name & Address of the Customer	**M/s. Rail Wheel Factory** Yelahanka, Bangaluru--560064		
Discipline	**Biological**	Sample ID	NAL/2026/03/204
Product or Material	Waste water (Effluents/Sewage)	Report No	NAL/2026/01045
Particulars of Sample	STP Treated Water	ULR No	TC173542600000314F
Sampling Point	After Filtration tank	Date of Sample Collection	12.03.2026
Sample submitted by	Customer	Date of sample Receipt	12.03.2026
Sample collected by	Our Representative	Date of Analysis Started	12.03.2026
Sample Qty	2Ltrs	Date of Completion	16.03.2026
Page No	2/2	Report Date	18.03.2026
Sample package	Water Sample Collected in PET Bottle		
Description	Colorless liquid having unobjectionable odor.		

Sl. No	Parameters	Unit	Result	Standards as per KSPCB	Test Method
7	Faecal Coliform	MPN/100ml	06	<100	IS 1622-1981 RA 2019
Remarks: The above **sample meets to the KSPCB Limits** as per above tested biological parameters					

**** End of the Report*****

Verified By

NAL LABS LLP Bangalore

ANUSHA H.S
Sr Microbiologist
Authorized Signatory

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RAIL WHEEL FACTORY
METALLURGICAL LAB

Date.17/04/2026

No.RWF/AED (M&C) /31

To,
The Environmental Officer KSPCB,
Regional Office, Yelahanka, Bangalore - 64

Sir,
Sub:- Pollution Monitoring Report for the month of MARCH 2026.

Please find enclosed copy of the test report pertaining to Pollution Monitoring of Stack and Ambient air quality carried out by M/s ECO GREEN SOLUTIONS Pvt. Ltd., BANGALORE at various Chimneys and Ambient locations in RWF/YNK for the month of MARCH -2026.

17/4/26

C&M Supdt./Ref./M.LAB

Chemical And Metallurgical SUPDT.I / Refractory
Rail Wheel Factory (Indian Railways)
Yelahanka, Bangalore - 560 064.

23/04/2026

CMT/LAB

Chemist and Metallurgist
Rail Wheel Factory (Indian Railways)
Yelahanka, Bangalore - 560 064

Encl: As stated above

Copy to: 1. C& MS REFRACTORY
2. M/s ECO GREEN SOLUTIONS Pvt. Ltd., BANGALORE

ECO GREEN SOLUTION SYSTEMS PVT LTD

EGSSPL

Recognised by Ministry Of Environment, Forest & Climate Change (MOEFCC) Govt. Of India, New Delhi, Dt: 27.11.2024 to 21.11.2027
An ISO 9001:2015 & ISO 45001:2018 Certified Company
48/A-4, KIADB Industrial Area, Doddaballapur, Bengaluru-561203
E-mail: lab@egsspl.in, ecogreen@egsspl.in

CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055
ULR NO: TC145542600000837F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	10.03.2026
2	Stack Location	Normalizing Furnace (Wheel) Location: Wheel Shop	10	Sample Receipt On	10.03.2026
3	Date of Analysis Completed/Date of Report	11.03.2026/13.03.2026	11	Sample Collected By -	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-3015/25-26	12	Sample RC No	4234
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DTE-2015/EGSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	10.03.2026
2	Stack Gas Temperature (°C)	361
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	9.6
5	Stack Diameter (m)	2
6	Stack Height (m)	30mtrs from AGL
7	Cross Sectional Area (m^2)	3.143
8	Gas Discharge (Nm^3/hr)	108622.1

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	33.1
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	12.6
3	Oxides of Nitrogen-NOx (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	19.0

Reviewed & Authorized Signatory
Technical Manager

****End of Report****

ECO GREEN SOLUTION SYSTEMS PVT LTD

EGSSPL

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E-mail: lab@egsspl.in, ecogreen@egsspl.in

CIN NO: U74140KA2005PTC036991

EGSSPL/FRM/055
ULR NO: TC148542600000038F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	10.03.2026
2	Stack Location	Draw Furnace Location: Wheel Shop	10	Sample Receipt On	10.03.2026
3	Date of Analysis Completed/Date of Report	11.03.2026/ 13.03.2026	11	Sample Collected By	Mr Abhilash
4	Unique Identification No.	EGSSPL/SE-3016/25-26	12	Sample RC No	4235
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DIE-2015/ EGSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	10.03.2026
2	Stack Gas Temperature (°C)	142
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	8.1
5	Stack Diameter (m)	0.25
6	Stack Height (m)	18mtrs from AGL
7	Cross Sectional Area (m^2)	0.049
8	Gas Discharge (Nm^3/hr)	1428.8

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	31.4
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	13.0
3	Oxides of Nitrogen-NOx (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	17.4

[illegible]

Reviewed & Authorized Signatory
(S. Asokan)
Technical Manager

End of Report

ECO GREEN SOLUTION SYSTEMS PVT LTD

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CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055
ULR NO: TC148542600000839F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	10.03.2026
2	Stack Location	Sand Drier Location: Wheel Shop Molding Room	10	Sample Receipt On	10.03.2026
3	Date of Analysis Completed/Date of Report	11.03.2026/13.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SR-3017/25-26	12	Sample RC No	4236
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/P/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DTE-2015/ EGSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	10.03.2026
2	Stack Gas Temperature (°C)	39
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	6.5
5	Stack Diameter (m)	1
6	Stack Height (m)	30mtrs from AGL
7	Cross Sectional Area (m^2)	0.786
8	Gas Discharge (Nm^3/hr)	18392.4

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	37.0
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	BDL (DL: 2.0)
3	Oxides of Nitrogen-NOx (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	BDL (DL: 2.0)

BDL: Below detection limit — **DL:** Detection limit

1. Sample collected by EGSSPL Laboratory.
2. Sample collected and tested with the method as reported all the tests have been done in duplicate.
3. The test report is subjected to jurisdiction of Bangalore jurisdiction only.
4. The test report should not be reproduced except in full without written consent from the laboratory.
5. The name, quality of the equipment is referred to Customer declaration only.
6. The report is not applicable to the human sample.

Reviewed & Authorized Signatory
(S. Anokha)
Technical Manager

End of Report

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E-mail: lab@egsspl.in, ecogreen@egsspl.in

CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055
ULR NO: TC148542600000006840F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	10.03.2026
2	Stack Location	Sand Silo Batch Heater Location: Wheel Shop Molding Room	10	Sample Receipt On	10.03.2026
3	Date of Analysis Completed/Date of Report	11.03.2026/13.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-3018/25-26	12	Sample RC No	4237
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DTE-2015/EGSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	10.03.2026
2	Stack Gas Temperature (°C)	61
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	7.3
5	Stack Diameter (m)	0.6
6	Stack Height (m)	16mtrs from AGL
7	Cross Sectional Area (m^2)	0.283
8	Gas Discharge (Nm^3/hr)	7437.2

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	38.3
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	BDL (DL: 2.0)
3	Oxides of Nitrogen-NOx (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	BDL (DL: 2.0)

BDL: Below detection limit

DL: Detection limit

Reviewed & Authorized Signatory
(S. Asokan)
Technical Manager

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An ISO 9001:2015 & ISO 45001:2018 Certified Company
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E-mail: lab@egsspl.in, ecogreen@egsspl.in

CIN NO: U74140KA2005PTC035991
EGSSPL/FRM/035
ULR NO: TC148542600000641F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	10.03.2026
2	Stack Location	Sand Silo Cyclone Location: Wheel Shop Molding Room	10	Sample Receipt On	10.03.2026
3	Date of Analysis Completed/Date of Report	11.03.2026/13.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-3010/26-26	12	Sample RC No	4238
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DTE-2016/EGS3-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	10.03.2026
2	Stack Gas Temperature (°C)	43
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	5.8
5	Stack Diameter (m)	0.25
6	Stack Height (m)	17mtrs from AGL
7	Cross Sectional Area (m^2)	0.049
8	Gas Discharge (Nm^3/hr)	1023.1

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	45.7
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	BDL (DL: 2.0)
3	Oxides of Nitrogen-NOx (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	BDL (DL: 2.0)

BDL: Below detection limit

DL: Detection limit

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Technical Manager

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CIN NO: U74140KA2005PTC036991

EGSSPL/FRM/055
ULR NO: TC148542600000842F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	10.03.2026
2	Stack Location	Rotoclone Cyclone Location: Wheel Shop Molding Room	10	Sample Receipt On	10.03.2026
3	Date of Analysis Completed/Date of Report	11.03.2026/13.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-3020/25-26	12	Sample RC No	4239
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DTE-2015/ E0884009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	10.03.2026
2	Stack Gas Temperature (°C)	54
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	7.4
5	Stack Diameter (m)	0.2
6	Stack Height (m)	16mtrs from AGL
7	Cross Sectional Area (m^2)	0.031
8	Gas Discharge (Nm^3/hr)	825.8

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	44.1
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	10.4
3	Oxides of Nitrogen-NOx (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	17.7

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CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055
ULR NO: TC148542600000080F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	07.03.2026
2	Stack Location	Cope Cleaner Location: Wheel Shop Molding Room	10	Sample Receipt On	07.03.2026
3	Date of Analysis Completed/Date of Report	09.03.2026/11.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-2990/25-26	12	Sample RC No	4199
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument SL No./Model	001-DTE-2015/EGSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	07.03.2026
2	Stack Gas Temperature (°C)	60
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	6.3
5	Stack Diameter (m)	0.25
6	Stack Height (m)	17mtrs from AGL
7	Cross Sectional Area (m^2)	0.049
8	Gas Discharge (Nm^3/hr)	1111.3

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	53.2
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	18.1
3	Oxides of Nitrogen NO_x (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	25.0

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CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055
ULR NO: TC148542600000810F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	07.03.2026
2	Stack Location	Drag Cleaner Location: Wheel Shop Molding Room	10	Sample Receipt On	07.03.2026
3	Date of Analysis Completed/Date of Report	09.03.2026/11.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-2991/25-26	12	Sample RC No	4200
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DTE-2015/EGSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	07.03.2026
2	Stack Gas Temperature (°C)	42
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	6.5
5	Stack Diameter (m)	0.25
6	Stack Height (m)	17mtrs from AGL
7	Cross Sectional Area (m^2)	0.049
8	Gas Discharge (Nm^3/hr)	1146.6

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	55.0
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	22.0
3	Oxides of Nitrogen-NOx (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	26.1

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Technical Manager

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CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/005
ULR NO: TC148542600000081IF

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	07.03.2026
2	Stack Location	Spray Wash and Hub Cutting Location: Wheel Shop Molding Room	10	Sample Receipt On	07.03.2026
3	Date of Analysis Completed / Date of Report	09.03.2026 / 11.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-2992/25-26	12	Sample RC No	4201
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DTE-2015/EGSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	07.03.2026
2	Stack Gas Temperature (°C)	68
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	7.2
5	Stack Diameter (m)	2.4
6	Stack Height (m)	30mtrs from AGL
7	Cross Sectional Area (m^2)	4.526
8	Gas Discharge (Nm^3/hr)	117313.9

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	48.3
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	17.0
3	Oxides of Nitrogen-NOx (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	24.1

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(S. Asokan)
Technical Manager

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CIN NO: U74140KA2005PTC036991
EGSSPL/PRM/055
ULR NO: TC148542600000312F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	07.03.2026
2	Stack Location	CTA Rollover Location: Wheel Shop Molding Room	10	Sample Receipt On	07.03.2026
3	Date of Analysis Completed/Date of Report	09.03.2026/11.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-2993/25-26	12	Sample RC No	4202
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/P/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DTE-2015/ EGSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	07.03.2026
2	Stack Gas Temperature (°C)	54
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	6.8
5	Stack Diameter (m)	0.25
6	Stack Height (m)	17mtrs from AGL
7	Cross Sectional Area (m^2)	0.049
8	Gas Discharge (Nm^3/hr)	1199.5

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	52.9
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	20.8
3	Oxides of Nitrogen-NOx (as NOx)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	27.3

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Technical Manager

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ULR NO: TC148542600000813F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	07.03.2026
2	Stack Location	Thermal Sand Reclamation Plant Location: Wheel Shop Molding Room	10	Sample Receipt On	07.03.2026
3	Date of Analysis Completed/Date of Report	09.03.2026/11.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-2994/25-26	12	Sample RC No	4203
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DTE-2015/EGSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	07.03.2026
2	Stack Gas Temperature (°C)	62
3	Ambient Temperature (°C)	31
4	Stack Gas Velocity (m/s)	6.7
5	Stack Diameter (m)	0.5
6	Stack Height (m)	30mtrs from AGL
7	Cross Sectional Area (m^2)	0.196
8	Gas Discharge (Nm^3/hr)	4727.5

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	47.0
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	BDL (DL: 2.0)
3	Oxides of Nitrogen-NOx (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	BDL (DL: 2.0)

BDL: Below detection limit **DL:** Detection limit

1. The results of testing in this laboratory.
2. This report cannot be reproduced except in full, without written approval of the laboratory.
3. The sample(s) was/were submitted by customer.
4. The above sample(s) is/are tested as received by customer.
5. This test results relate only to the items tested.

Reviewed & Authorized Signatory
(D. Anokan)
Technical Manager

"End of Report"

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EGSSPL/FRM/055
ULR NO: TC148542600000956F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	13.03.2026
2	Stack Location	Wheel Cleaner - I Location: Wheel Shop WFPS	10	Sample Receipt On	13.03.2026
3	Date of Analysis Completed/Date of Report	14.03.2026/16.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-3066/25-26	12	Sample RC No	4339
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DTE-2015/EGSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	13.03.2026
2	Stack Gas Temperature (°C)	53
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	6.7
5	Stack Diameter (m)	0.5
6	Stack Height (m)	16mtrs from AGL
7	Cross Sectional Area (m^2)	0.196
8	Gas Discharge (Nm^3/hr)	4727.5

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	55.7
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	19.2
3	Oxides of Nitrogen-NOx (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	80	28.7

1. Sample collected by EGSSPL Laboratory.
2. Results relevant to the items tested as received.
3. This test report is confidential to the client.
4. The test report should not be reproduced in part without written approval of the laboratory.
5. Any discrepancy in the laboratory's name or address should be informed.
6. The results are only relevant to the items tested.

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Technical Manager

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EGSSPL/FRM/055
ULR NO: TC148542600000957F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	13.03.2026
2	Stack Location	Wheel Cleaner - II Location: Wheel Shop WFPS	10	Sample Receipt On	13.03.2026
3	Date of Analysis Completed/Date of Report	14.03.2026/16.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-3067/25-26	12	Sample RC No	4340
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No /Model	001-DTE-2015/ EGSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	13.03.2026
2	Stack Gas Temperature (°C)	46
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	6.0
5	Stack Diameter (m)	0.5
6	Stack Height (m)	16mtrs from AGL
7	Cross Sectional Area (m^2)	0.196
8	Gas Discharge (Nm^3/hr)	4233.6

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	60.8
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	23.2
3	Oxides of Nitrogen-NOx (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	34.4

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EGSSPL/FRM/055
ULR NO: TC148542600000958F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	13.03.2026
2	Stack Location	Wheel Peener - I Location: Wheel Shop WFPS	10	Sample Receipt On	13.03.2026
3	Date of Analysis Completed/Date of Report	14.03.2026/16.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-3068/25-26	12	Sample RC No	4341
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part 3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DTE-2015/ EGSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	13.03.2026
2	Stack Gas Temperature (°C)	67
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	14.2
5	Stack Diameter (m)	0.5
6	Stack Height (m)	17mtrs from AGL
7	Cross Sectional Area (m^2)	0.196
8	Gas Discharge (Nm^3/hr)	10019.5

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	53.7
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	19.3
3	Oxides of Nitrogen-NOx (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	25.4

1. Results related to EGSSPL Laboratory.
2. Reports submitted and result will be stored for a period of 45 days from the date of issue.
3. Test have carried out subject to Bengaluru jurisdiction only.
4. The test report shall not be reproduced in any manner or whatever without written approval (Yes or No).
5. We used different reference standard in another method.
6. The results solely relates to the items tested.

Reviewed & Authorised Signatory
(S. Asokan)
Technical Manager

End of Report

ECO GREEN SOLUTION SYSTEMS PVT LTD

EGSSPL

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An ISO 9001:2015 & ISO 45001:2018 Certified Company
46/A-4, KIADB Industrial Area, Doddaballapur, Bengaluru-561203
E-mail: lab@egsspl.in, ecogreen@egsspl.in

CIN NO: U74140KA2006PTC036991
EGSSPL/FRM/055
ULR NO: TC148542600000959F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	13.03.2026
2	Stack Location	Wheel Peener - II Location: Wheel Shop WITS	10	Sample Receipt On	13.03.2026
3	Date of Analysis Completed/Date of Report	14.03.2026/16.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-3069/25-26	12	Sample RC No	4342
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DTE-2015/ EGSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	13.03.2026
2	Stack Gas Temperature (°C)	72
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	14.9
5	Stack Diameter (m)	0.5
6	Stack Height (m)	17mtrs from AGL
7	Cross Sectional Area (m^2)	0.196
8	Gas Discharge (Nm^3/hr)	10513.4

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	66.5
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	33.9
3	Oxides of Nitrogen-NOx (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	35.8

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(S. Aankan)
Technical Manager

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CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055
ULR NO: TC148542600000928F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	12.03.2026
2	Stack Location	RMT & HMT Graphite Block Drilling Machine Location: Wheel Shop MRS	10	Sample Receipt On	12.03.2026
3	Date of Analysis Completed/Date of Report	13.03.2026/16.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-3043/25 26	12	Sample RC No	4311
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DIE-2015/EGS8-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	12.03.2026
2	Stack Gas Temperature (°C)	64
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	8.0
5	Stack Diameter (m)	0.8
6	Stack Height (m)	20mtrs from AGL
7	Cross Sectional Area (m^2)	0.503
8	Gas Discharge (Nm^3/hr)	14486.4

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	49.4
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	BDL (DL: 2.0)
3	Oxides of Nitrogen-NO_x (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	BDL (DL: 2.0)

BDL: Below detection limit **DL:** Detection limit

Reviewed & Authorized Signatory
(S. Asokan)
Technical Manager

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CIN NO: U74140KA2005PTC036991

EGSSPL/PRM/055

ULR NO: TC148542600000929F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	12.03.2026
2	Stack Location	Graphite Block Machine VTL - II Radial Drill & Ingate Lathe Location: Wheel Shop MRS	10	Sample Receipt On	13.03.2026
3	Date of Analysis Completed/Date of Report	13.03.2026/16.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-3044/25-26	12	Sample RC No	4312
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DTE 2015/ EGSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	12.03.2026
2	Stack Gas Temperature (°C)	65
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	7.8
5	Stack Diameter (m)	0.8
6	Stack Height (m)	17mtrs from AGL
7	Cross Sectional Area (m^2)	0.503
8	Gas Discharge (Nm^3/hr)	14124.2

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	58.4
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	BDL (DL: 2.0)
3	Oxides of Nitrogen-NOx (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	BDL (DL: 2.0)

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S. Asokan
Technical Manager

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EGSSPL/FRM/055
ULR NO: TC145542600000930F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF IIQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	12.03.2026
2	Stack Location	Graphite Block Machine VIL - III Location: Wheel Shop MRS	10	Sample Receipt On	12.03.2026
3	Date of Analysis Completed/Date of Report	13.03.2026/16.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-3045/25-26	12	Sample RC No	4313
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DTE-2015/EG88-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	12.03.2026
2	Stack Gas Temperature (°C)	69
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	7.8
5	Stack Diameter (m)	0.15
6	Stack Height (m)	17mtrs from AGL
7	Cross Sectional Area (m^2)	0.0177
8	Gas Discharge (Nm^3/hr)	497

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	47.3
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	BDL (DL: 2.0)
3	Oxides of Nitrogen- NOx (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	BDL (DL: 2.0)

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Technical Manager

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CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055
ULR NO: TC148542600000931F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	12.03.2026
2	Stack Location	Graphite Block Machine VIL - IV Location: Wheel Shop	10	Sample Receipt On	12.03.2026
3	Date of Analysis Completed/Date of Report	13.03.2026/16.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-3046/25-26	12	Sample RC No	4314
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part 3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DTE-2015/EGSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	12.03.2026
2	Stack Gas Temperature (°C)	73
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	8.7
5	Stack Diameter (m)	0.15
6	Stack Height (m)	17mtrs from AGL
7	Cross Sectional Area (m^2)	0.0177
8	Gas Discharge (Nm^3/hr)	554.4

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	60.4
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	BDL (DL: 2.0)
3	Oxides of Nitrogen-NOx (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	BDL (DL: 2.0)

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Reviewed & Authorised Signatory
(S. Asokan)
Technical Manager

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CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055
ULR NO: TC148542600000932F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	12.03.2026
2	Stack Location	Graphite Block Machine VTL - V Location: Wheel Shop MRS	10	Sample Receipt On	12.03.2026
3	Date of Analysis Completed/Date of Report	13.03.2026/16.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-3047/25-26	12	Sample RC No	4315
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DTE-2015/ EGSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	12.03.2026
2	Stack Gas Temperature (°C)	76
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	9.0
5	Stack Diameter (m)	0.15
6	Stack Height (m)	17mtrs from AGL
7	Cross Sectional Area (m^2)	0.0177
8	Gas Discharge (Nm^3/hr)	573.5

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	54.8
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	BDL (DL: 2.0)
3	Oxides of Nitrogen-NO_x (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2023)	50	BDL (DL: 2.0)

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Reviewed & Authorized Signatory
(S. Asokan)
Technical Manager

End of Report

ECO GREEN SOLUTION SYSTEMS PVT LTD

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CIN NO: U74140KA2005PTC036991

EGSSPL/FRM/055

ULR NO: TC148542600000106GP

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ - Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	24.03.2026
2	Stack Location	Rotary Hearth Furnace Location: New Axle Forge Shop	10	Sample Receipt On	24.03.2026
3	Date of Analysis Completed/Date of Report	25.03.2026/27.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-3139/25-26	12	Sample RC No	4442
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No /Model	001-DTE-2015/EGSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	24.03.2026
2	Stack Gas Temperature (°C)	228
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	12.2
5	Stack Diameter (m)	1.5
6	Stack Height (m)	30mtrs from AGL
7	Cross Sectional Area (m^2)	1.768
8	Gas Discharge (Nm^3/hr)	77650.6

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	43.8
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	15.4
3	Oxides of Nitrogen-NO_X (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	28.5

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(S. Asokan)
Technical Manager

End of Report

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CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055
ULR NO: TC148542600000106GF

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	24.03.2026
2	Stack Location	• Rotary Hearth Furnace Location: Axle Forge Shop	10	Sample Receipt On	24.03.2026
3	Date of Analysis Completed/Date of Report	25.03.2026/27.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-3141/25-26	12	Sample RC No	4444
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DTE-2015/ EGSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	24.03.2026
2	Stack Gas Temperature (°C)	221
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	12.8
5	Stack Diameter (m)	1.5
6	Stack Height (m)	30mtrs from AGL
7	Cross Sectional Area (m^2)	1.766
8	Gas Discharge (Nm^3/hr)	81469.4

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	40.1
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	14.2
3	Oxides of Nitrogen-NO_x (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	25.0

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Technical Manager

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EGSSPL/FRM/055
ULR NO: TC148542600000167F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ - Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	24.03.2026
2	Stack Location	Normalizing Furnace (Axle) Location: New Axle Forge Shop	10	Sample Receipt On	24.03.2026
3	Date of Analysis Completed/Date of Report	25.03.2026/27.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-3140/25-26	12	Sample RC No	4443
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DTE-2015/ EGSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	24.03.2026
2	Stack Gas Temperature (°C)	225
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	9.8
5	Stack Diameter (m)	1.5
6	Stack Height (m)	30mtrs from AGL
7	Cross Sectional Area (m^2)	1.766
8	Gas Discharge (Nm^3/hr)	62375

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	46.9
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	18.3
3	Oxides of Nitrogen-NOx (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	31.0

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(R. Asokan)
Technical Manager

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CIN NO: U74140KA2005PTC036991

EGSSPL/FRM/055

ULR NO: TC148542600000106 9F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	24.03.2026
2	Stack Location	Normalising Furnace (Axle) Location: Axle Forge Shop	10	Sample Receipt On	24.03.2026
3	Date of Analysis Completed/Date of Report	25.03.2026/27.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-3142/25-26	12	Sample RC No	4445
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DTE-2015/ EOSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	24.03.2026
2	Stack Gas Temperature (°C)	223
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	10.1
5	Stack Diameter (m)	1.5
6	Stack Height (m)	30mtrs from AGL
7	Cross Sectional Area (m^2)	1.768
8	Gas Discharge (Nm^3/hr)	64284.5

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	44.5
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	17.8
3	Oxides of Nitrogen-NO_x (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	26.3

1.
2.
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Reviewed & Authorized Signatory

(S. Asokan)

Technical Manager

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ECO GREEN SOLUTION SYSTEMS PVT LTD

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Recognized by Ministry Of Environment, Forest & Climate Change (MOEFCC) Govt. Of India, New Delhi, Dt: 27.11.2024 to 21.11.2027
An ISO 9001:2015 & ISO 45001:2018 Certified Company
48/A-4, KIADB Industrial Area, Doddaballapur, Bengaluru-561203
E-mail: lab@egsspl.in, ecogreen@egsspl.in

CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055
ULR NO: TC148542600000D1070F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	24.03.2026
2	Stack Location	Tempering Furnace Location: Axle Forge Shop	10	Sample Receipt On	24.03.2026
3	Date of Analysis Completed/Date of Report	25.03.2026/27.03.2026	11	Sample Collected By	Mr. Abdulaah
4	Unique Identification No.	EGSSPL/SE-3143/25-26	12	Sample RC No	4446
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit	15	Instrument Sl. No./Model	001-DTE-2015/ EQSS-009
8	Instruments Calibrated Date	31.10.2025	16	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	24.03.2026
2	Stack Gas Temperature (°C)	229
3	Ambient Temperature (°C)	30
4	Stack Gas Velocity (m/s)	12.4
5	Stack Diameter (m)	1
6	Stack Height (m)	30mtrs from AGL
7	Cross Sectional Area (m^2)	0.786
8	Gas Discharge (Nm^3/hr)	35087

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	150	37.0
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	100	12.8
3	Oxides of Nitrogen-NOx (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	50	22.5

Reviewed & Authorized Signatory
Mr. Asokan
Technical Manager

End of Report

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CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055
ULR NO: TC148542600000954F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	13.03.2026
2	Stack Location	1750 KW DG Set - II	10	Sample Receipt On	13.03.2026
3	Date of Analysis Completed/Date of Report	14.03.2026/16.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-3064/25-26	12	Sample RC No	4337
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit & Flue Gas Analyser	15	Instrument Sl. No./Model	001-DTE-2015/ EGSS-009 & FOA-53X
8	Instruments Calibrated Date	31.10.2025 & 09.09.2025	16	Instruments Calibration Due Date	30.10.2026 & 08.09.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	13.03.2026
2	Stack Gas Temperature (°C)	125
3	Ambient Temperature (°C)	32
4	Stack Gas Velocity (m/s)	9.9
5	Stack Diameter (m)	0.5
6	Stack Height (m)	27mtrs from AGL
7	Cross Sectional Area (m^2)	0.196
8	Gas Discharge (Nm^3/hr)	6995.4

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	75	48.9
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	Not Specified	66.9
3	Oxides of Nitrogen-NO_x (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	710	224
4	Carbon Monoxide	mg/Nm^3	USEPA Method 10-2017	150	56.4

Reviewed & Authorized Signatory
IS Ankara
Technical Manager

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CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	13.03.2026
2	Stack Location	1750 KW DG Set - II	10	Sample Receipt On	13.03.2026
3	Date of Analysis Completed/Date of Report	14.03.2026/16.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No	EGSSPL/SE-3064/25-26	12	Sample RC No	4337
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit & Flue Gas Analyser	15	Instrument Sl. No./Model	001-DTE-2015/EGSS-009 & PGA-53X
8	Instruments Calibrated Date	31.10.2025 & 09.09.2025	16	Instruments Calibration Due Date	30.10.2026 & 08.09.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	13.03.2026
2	Stack Gas Temperature (°C)	125
3	Ambient Temperature (°C)	32
4	Stack Gas Velocity (m/s)	9.9
5	Stack Diameter (m)	0.5
6	Stack Height (m)	27mtrs from AGL
7	Cross Sectional Area (m^2)	0.196
8	Gas Discharge (Nm^3/hr)	6985.4

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
5	Non-Methane Hydrocarbon (as C)	mg/Nm^3	USEPA Method 25:2017	100	14.0

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Technical Manager

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CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055
ULR NO: TC148542600000053F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bengaluru, 560064 Karnataka, India	9	Sample Collected On	13.03.2026
2	Stack Location	1750 KW DG Set - I	10	Sample Receipt On	13.03.2026
3	Date of Analysis Completed/Date of Report	14.03.2026/16.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-3063/25-26	12	Sample RC No	4336
5	Date/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit & Flue Gas Analyser	15	Instrument Sl. No./Model	001-DTE-2015/ EGSS-009 & FGA-53X
8	Instruments Calibrated Date	31.10.2025 & 09.09.2025	16	Instruments Calibration Due Date	30.10.2026 & 09.09.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	13.03.2026
2	Stack Gas Temperature (°C)	120
3	Ambient Temperature (°C)	32
4	Stack Gas Velocity (m/s)	9.7
5	Stack Diameter (m)	0.5
6	Stack Height (m)	27mtrs from AGL
7	Cross Sectional Area (m^2)	0.196
8	Gas Discharge (Nm^3/hr)	6844.3

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	75	52.4
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	Not Specified	70.2
3	Oxides of Nitrogen-NOx (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	710	226
4	Carbon Monoxide	mg/Nm^3	USEPA Method 10.2017	150	60.2

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(S. Asokan)
Technical Manager

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EGSSPL

Ministry of Environment, Forest & Climate Change

CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	13.03.2026
2	Stack Location	1750 KW DG Set - 1	10	Sample Receipt On	13.03.2026
3	Date of Analysis Completed/Date of Report	14.03.2026/16.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No	EGSSPL/SE-3063/25-26	12	Sample RC No	4335
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit & Flue Gas Analyser	15	Instrument Sl. No./Model	001-DTE-2015/ EGSS-009 & FOA-53X
8	Instruments Calibrated Date	31.10.2025 & 09.09.2025	16	Instruments Calibration Due Date	30.10.2026 & 08.09.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	13.03.2026
2	Stack Gas Temperature (°C)	120
3	Ambient Temperature (°C)	32
4	Stack Gas Velocity (m/s)	9.7
5	Stack Diameter (m)	0.5
6	Stack Height (m)	27mtrs from AGL
7	Cross Sectional Area (m^2)	0.196
8	Gas Discharge (Nm^3/hr)	6844.3

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
5	Non-Methane Hydrocarbon (as C)	mg/Nm^3	USEPA Method 25:2017	100	15.2

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(S. Asokan)
Technical Manager

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CIN NO: U74140KA2005PTC036001
EGSSPL/FRM/055
ULR NO: TC148542600000955F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	13.03.2026
2	Stack Location	2400 KW DG Set - III	10	Sample Receipt On	13.03.2026
3	Date of Analysis Completed/Date of Report	14.03.2026/16.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No.	EGSSPL/SE-3065/25-26	12	Sample SC No	4338
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/P/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit & Flue Gas Analyser	15	Instrument Sl. No./Model	001-DTR-2015/EGSS-009 & PGA-50X
8	Instruments Calibrated Date	31.10.2025 & 09.09.2025	16	Instruments Calibration Due Date	30.10.2026 & 08.09.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	13.03.2026
2	Stack Gas Temperature (°C)	151
3	Ambient Temperature (°C)	32
4	Stack Gas Velocity (m/s)	10.5
5	Stack Diameter (m)	0.5
6	Stack Height (m)	27mtrs from AGL
7	Cross Sectional Area (m^2)	0.196
8	Gas Discharge (Nm^3/hr)	7408.8

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
1	Particulate Matter as PM	mg/Nm^3	IS 11255 (P-1):1985 (RA 2024)	75	63.2
2	Sulphur dioxide as SO_2	ppm	IS 11255 (P-2):1985 (RA 2024)	Not Specified	74.4
3	Oxides of Nitrogen-NOx (as NO_2)	ppm	IS 11255 (P-7):2005 (RA 2022)	710	276
4	Carbon Monoxide	mg/Nm^3	USEPA Method 10:2017	150	69.7

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Technical Manager

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CIN NO: U74140KA2005PTC036091
EGSSPL/FRM/055

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	9	Sample Collected On	13.03.2026
2	Stack Location	2400 KW DG Set - III	10	Sample Receipt On	13.03.2026
3	Date of Analysis Completed/Date of Report	14.03.2026/16.03.2026	11	Sample Collected By	Mr. Abhilash
4	Unique Identification No	EGSSPL/SE-3065/25-26	12	Sample RC No	4338
5	Data/Information obtained from the Customer (If Any)	NA	13	Condition of Test Item	Good
6	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	14	Sampling Plan Reference	EGSSPL/F/SOP/01
7	Particulars of the Instrument Used	Stack Monitoring Kit & Flue Gas Analyser	15	Instrument Sl. No./Model	001-DTE-2015/ EQSS-009 & FGA-83X
8	Instruments Calibrated Date	31.10.2025 & 09.09.2025	16	Instruments Calibration Due Date	30.10.2026 & 09.09.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	13.03.2026
2	Stack Gas Temperature (°C)	131
3	Ambient Temperature (°C)	32
4	Stack Gas Velocity (m/s)	10.5
5	Stack Diameter (m)	0.5
6	Stack Height (m)	27mtrs from AGL
7	Cross Sectional Area (m^2)	0.196
8	Gas Discharge (Nm^3/hr)	7408.8

Sl. No.	Parameters	Unit	Method	Standard Limits	Results
5	Non-Methane Hydrocarbon (as C)	mg/Nm^3	USEPA Method 25:2017	100	16.1

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Asokan
Technical Manager

End of Report

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CIN NO: U74140KA2005PTC036691
EGSSPL/FRM/055
ULR NO: TC148542600000772F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	8	Sample Collected On	05.03.2026
2	Stack Location	Electric Arc Furnace 'A' & 'B' (Primary Fume Extraction System) Location: Wheel Shop SMS	9	Sample Receipt On	05.03.2026
			10	Sample Collected By	Mr. Abhilash
3	Date of Analysis Completed/Date of Report	06.03.2026/09.03.2026	11	Sample RC No	4162
4	Data/Information obtained from the Customer (If Any)	NA	12	Condition of Test Item	Good
5	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	13	Sampling Plan Reference	EGSSPL/F/SOP/01
6	Particulars of the Instrument Used	Stack Monitoring Kit	14	Instrument SL No/Model	001-DTE-2015/EGSS-009
7	Instruments Calibrated Date	31.10.2025	15	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	05.03.2026
2	Stack Diameter (m)	4
3	Stack Height (m)	36mtrs from AGL
4	Cross Sectional Area (m^2)	12.572

Sl. No.	Process	Unique Identification No.	Ambient Temp (°C)	Stack Temp (°C)	Velocity (m/s)	Gas Discharge (Nm^3/hr)	Particulate Matter as PM	Sulphur dioxide as SO_2	Oxides of Nitrogen- NO_x (as NO_2)
1	With Lancing	2975	30	130	14.6	660784.3	77.1	23.5	28.4
2	Without Lancing	2976	30	102	13.2	597421.4	54.1	15.5	24.7
						Method	IS 11255 (P-1):1985 (RA 2024)	IS 11255 (P-2):1985 (RA 2024)	IS 11255 (P-7):2005 (RA 2022)
						Unit	mg/Nm^3	ppm	ppm
						Standard Limits	With Lancing 400	100	50
							Without Lancing 150		

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Ashokan
Technical Manager

End of Report

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CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055
ULR NO: TC148542600000773F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	8	Sample Collected On	05.03.2026
2	Stack Location	Electric Arc Furnace 'C' (Primary Fume Extraction System) Location: Wheel Shop SMS	9	Sample Receipt On	05.03.2026
			10	Sample Collected By	Mr. Abhilash
3	Date of Analysis Completed/Date of Report	06.03.2026/09.03.2026	11	Sample RC No	4163
4	Data/Information obtained from the Customer (If Any)	NA	12	Condition of Test Item	Good
5	Sampling Methodology	IS 11255 Part-3:2006 (RA 2023)	13	Sampling Plan Reference	EGSSPL/F/SOP/01
6	Particulars of the Instrument Used	Stack Monitoring Kit	14	Instrument Sl. No./Model	001-DTE-2015/EGSS-009
7	Instruments Calibrated Date	31.10.2025	15	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	05.03.2026
2	Stack Diameter (m)	2
3	Stack Height (m)	30mtrs from AGL
4	Cross Sectional Area (m^2)	3.143

Sl. No.	Process	Unique Identification No.	Ambient Temp (°C)	Stack Temp (°C)	Velocity (m/s)	Gas Discharge (Nm^3/hr)	Particulate Matter as PM	Sulphur dioxide as SO_2	Oxides of Nitrogen- NO_x (as NO_2)
1	With Lancing	2977	30	128	14.9	168590.5	70.5	22.6	26.9
2	Without Lancing	2978	30	109	13.0	147092.4	51.6	19.2	23.5
						Method	IS 11255 (P-1):1985 (RA 2024)	IS 11255 (P-2):1985 (RA 2024)	IS 11255 (P-7):2005 (RA 2022)
						Unit	mg/Nm^3	ppm	ppm
						Standard Limits	With Lancing 400	100	50
							Without Lancing 150		

Reviewed & Authorized Signatory
Technical Manager

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EQSSPL/FEM/055
ULR NO: TC148542600000774F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	8	Sample Collected On	05.03.2026
2	Stack Location	Secondary Fume Extraction System for EAF - A, B & C Location: Wheel Shop SMS	9	Sample Receipt On	05.03.2026
			10	Sample Collected By	Mr. Abhilash
3	Date of Analysis Completed/Date of Report	06.03.2026/09.03.2026	11	Sample RC No	4164
4	Data/Information obtained from the Customer (If Any)	NA	12	Condition of Test Item	Good
5	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	13	Sampling Plan Reference	EQSSPL/F/SOP/01
6	Particulars of the Instrument Used	Stack Monitoring Kit	14	Instrument Sl No./Model	001-DTE-2015/ EGSS-009
7	Instruments Calibrated Date	31.10.2025	15	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	05.03.2026
2	Stack Diameter (m)	4
3	Stack Height (m)	36mts from AGL
4	Cross Sectional Area (m^2)	12.572

Sl. No.	Process	Unique Identification No.	Ambient Temp (°C)	Stack Temp (°C)	Velocity (m/s)	Gas Discharge (Nm^3/hr)	Particulate Matter as PM	Sulphur dioxide as SO_2	Oxides of Nitrogen- NO_x (as NO_2)
1	With Lancing	2979	30	135	14.8	669836.2	72.0	21.1	29.3
2	Without Lancing	2980	30	108	13.5	610999.2	51.0	19.8	22.5
						Method	IS 11255 (P-1):1985 (RA 2024)	IS 11255 (P-2):1985 (RA 2024)	IS 11255 (P-7):2005 (RA 2022)
						Unit	mg/Nm^3	ppm	ppm
						Standard Limits	With Lancing 400	100	50
							Without Lancing 150		

- Sample collected by EGSSPL Laboratory
- Sample collected was stored well in sealed dry container as per requirement and analysed.
- This test report is valid only for the Sample tested.
- This test report should not be reproduced except in full, without written approval from the laboratory.
- The test results relate only to the items tested.

Reviewed & Authorized Signatory
(B. Ashkan)
Technical Manager

End of Report

ECO GREEN SOLUTION SYSTEMS PVT LTD

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EGSSPL/FRM/055
DLR NO: TC14854260000000829F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	8	Sample Collected On	09.03.2026
2	Stack Location	Electric Arc Furnace 'A' & 'B' (Primary Fume Extraction System) Location: Wheel Shop SMS	9	Sample Receipt On	09.03.2026
			10	Sample Collected By	Mr. Abhilash
3	Date of Analysis Completed/Date of Report	10.03.2026/12.03.2026	11	Sample RC No	4219
4	Data/Information obtained from the Customer (If Any)	NA	12	Condition of Test Item	Good
5	Sampling Methodology	[S 11255 Part-3:2008 (RA 2023]	13	Sampling Plan Reference	EGSSPL/F/SOP/01
6	Particulars of the Instrument Used	Stack Monitoring Kit	14	Instrument Sl. No./Model	001-DIE-2015/EGSS-009
7	Instruments Calibrated Date	31.10.2025	15	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	09.03.2026
2	Stack Diameter (m)	4
3	Stack Height (m)	36mtrs from AGL
4	Cross Sectional Area (m^2)	12.572

Sl. No.	Process	Unique Identification No.	Ambient Temp (°C)	Stack Temp (°C)	Velocity (m/s)	Gas Discharge (Nm^3/hr)	Particulate Matter as PM	Sulphur dioxide as SO_2	Oxides of Nitrogen- NO_x (as NO_2)
1	With Lancing (Running at the Same Time)	3009	30	153	14.5	656258.4	113	20.6	34.3
2	Without Lancing	3010	30	121	13.1	592895.5	57.8	18.4	21.9
						Method	IS 11255 (P-1):1985 (RA 2024)	IS 11255 (P-2):1985 (RA 2024)	IS 11255 (P-7):2005 (RA 2022)
						Unit	mg/Nm^3	ppm	ppm
						Standard Limits	With Lancing 400	100	50
							Without Lancing 150		

Reviewed & Authorised Signatory
(S. Asokan)
Technical Manager

End of Report

ECO GREEN SOLUTION SYSTEMS PVT LTD

Recognized by Ministry Of Environment, Forest & Climate Change (MOEFCC) Govt. Of India, New Delhi, Dt: 27.11.2024 to 21.11.2027
An ISO 9001:2015 & ISO 45001:2018 Certified Company
48/A-4, KIADB Industrial Area, Doddaballapur, Bengaluru-561203
E-mail: lab@egsspl.in, ecogreen@egsspl.in

CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/065
ULR NO: TC148542600000830F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ - Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	8	Sample Collected On	09.03.2026
2	Stack Location	Electric Arc Furnace 'C' (Primary Fume Extraction System) Location: Wheel Shop SMS	9	Sample Receipt On	09.03.2026
			10	Sample Collected By	Mr. Abhilash
3	Date of Analysis Completed/Date of Report	10.03.2026/12.03.2026	11	Sample RC No	4226
4	Data/Information obtained from the Customer (If Any)	NA	12	Condition of Test Item	Good
5	Sampling Methodology	IS 11255 Part 3:2008 (RA 2023)	13	Sampling Plan Reference	EGSSPL/F/SOP/01
6	Particulars of the Instrument Used	Stack Monitoring Kit	14	Instrument Sl. No./Model	001-DTE-2015/EGSS-009
7	Instrument's Calibrated Date	31.10.2025	15	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	09.03.2026
2	Stack Diameter (m)	2
3	Stack Height (m)	30mtrs from AGL
4	Cross Sectional Area (m^2)	3.143

Sl. No.	Process	Unique Identification No.	Ambient Temp (°C)	Stack Temp (°C)	Velocity (m/s)	Gas Discharge (Nm^3/hr)	Particulate Matter as PM	Sulphur dioxide as SO_2	Oxides of Nitrogen- NO_x (as NO_2)
1	With Lancing	3011	30	132	13.3	150486.8	71.6	17.0	23.4
2	Without Lancing	3012	30	114	10.7	121068.4	53.8	11.8	20.1
						Method	IS 11255 (P 1):1985 (RA 2024)	IS 11255 (P 2):1985 (RA 2024)	IS 11255 (P-7):2006 (RA 2022)
						Unit	mg/Nm^3	ppm	ppm
						Standard Limits	With Lancing 400	100	50
							Without Lancing 150		

Reviewed & Authorised Signatory
(D. Anilkumar)
Technical Manager

End of Report

ECO GREEN SOLUTION SYSTEMS PVT LTD

EGSSPL

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An ISO 9001:2015 & ISO 45001:2018 Certified Company
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E-mail: lab@egsspl.in, ecogreen@egsspl.in

CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055
ULR NO: TC148542500000631F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	8	Sample Collected On	09.03.2026
2	Stack Location	Secondary Fume Extraction System for EAF A, B & C Location: Wheel Shop SMS	9	Sample Receipt On	09.03.2026
			10	Sample Collected By	Mr. Abhilash
3	Date of Analysis Completed/Date of Report	10.03.2026/12.03.2026	11	Sample RC No	4221
4	Data/Information obtained from the Customer (If Any)	NA	12	Condition of Test Item	Good
5	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	13	Sampling Plan Reference	EGSSPL/F/SOP/01
6	Particulars of the Instrument Used	Stack Monitoring Kit	14	Instrument Sl. No./Model	001-DTE-2015/EGSS-009
7	Instruments Calibrated Date	31.10.2025	15	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	09.03.2026
2	Stack Diameter (m)	4
3	Stack Height (m)	36mtrs from AGL
4	Cross Sectional Area (m^2)	12.572

Sl. No.	Process	Unique Identification No.	Ambient Temp (°C)	Stack Temp (°C)	Velocity (m/s)	Gas Discharge (Nm^3/hr)	Particulate Matter as PM	Sulphur dioxide as SO_2	Oxides of Nitrogen- NO_x (as NO_2)
1	With Lancing	3013	30	139	13.6	615525.1	76.0	17.4	22.6
2	Without Lancing	3014	30	104	12.2	552162.2	54.2	14.0	19.7
						Method	IS 11255 (P-1):1985 (RA 2024)	IS 11255 (P-2):1985 (RA 2024)	IS 11255 (P-7):2005 (RA 2022)
						Unit	mg/Nm^3	ppm	ppm
						Standard Limits	With Lancing 400	100	50
							Without Lancing 150		

Reviewed & Authorized Signatory
Technical Manager

End of Report

ECO GREEN SOLUTION SYSTEMS PVT LTD

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EGSSPL

CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055
ULR NO: TC148542600000094F

TEST REPORT OF PROCESS Emission

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	8	Sample Collected On	16.03.2026
2	Stack Location	Electric Arc Furnace 'A' & 'B' (Primary Fume Extraction System) Location: Wheel Shop SMS	9	Sample Receipt On	16.03.2026
			10	Sample Collected By	Mr. Abhilash
3	Date of Analysis Completed / Date of Report	17.03.2026 / 20.03.2026	11	Sample RC No	4375
4	Data/Information obtained from the Customer (If Any)	NA	12	Condition of Test Item	Good
5	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	13	Sampling Plan Reference	EGSSPL/F/SOP/01
6	Particulars of the Instrument Used	Stack Monitoring Kit	14	Instrument Sl. No./Model	001-DTE-2015/EGSS-009
7	Instruments Calibrated Date	31.10.2025	15	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	16.03.2026
2	Stack Diameter (m)	4
3	Stack Height (m)	36mtrs from AGL
4	Cross Sectional Area (m^2)	12.572

Sl. No.	Process	Unique Identification No.	Ambient Temp (°C)	Stack Temp (°C)	Velocity (m/s)	Gas Discharge (Nm^3/hr)	Particulate Matter as PM	Sulphur dioxide as SO_2	Oxides of Nitrogen- NOx (as NO_2)
1	With Lancing	3081	30	141	13.6	615525.1	79.3	25.1	30.7
2	Without Lancing	3082	30	121	12.3	555688.2	56.9	17.4	26.5
						Method	IS 11255 (P-1):1985 (RA 2024)	IS 11255 (P-2):1985 (RA 2024)	IS 11255 (P-7):2006 (RA 2022)
						Unit	mg/Nm^3	ppm	ppm
						Standard Limits	With Lancing 400	100	50
							Without Lancing 150		

Reviewed & Authorized Signatory
(S. Asokan)
Technical Manager

End of Report

ECO GREEN SOLUTION SYSTEMS PVT LTD

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CIN NO: U74140KA2005PTC036991
EGSSPL/FRN/055
ULR NO: TC148542600000995P

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	8	Sample Collected On	16.03.2026
2	Stack Location	Electric Arc Furnace 'C' (Primary Fume Extraction System) Location: Wheel Shop SMS	9	Sample Receipt On	16.03.2026
			10	Sample Collected By	Mr. Abhilash
3	Date of Analysis Completed/Date of Report	17.03.2026/20.03.2026	11	Sample RC No	4376
4	Data/Information obtained from the Customer (If Any)	NA	12	Condition of Test Item	Good
5	Sampling Methodology	IS 11255 Part-3:2006 (RA 2023)	13	Sampling Plan Reference	EGSSPL/F/SOP/01
6	Particulars of the Instrument Used	Stack Monitoring Kit	14	Instrument Sl. No./Model	001-DTE-2015/EGSS-009
7	Instruments Calibrated Date	31.10.2025	15	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	16.03.2026
2	Stack Diameter (m)	2
3	Stack Height (m)	30mtrs from AGL
4	Cross Sectional Area (m^2)	3.143

Sl. No.	Process	Unique Identification No.	Ambient Temp (°C)	Stack Temp (°C)	Velocity (m/s)	Gas Discharge (Nm^3/hr)	Particulate Matter as PM	Sulphur dioxide as SO_2	Oxides of Nitrogen- NO_x (as NO_2)
1	With Lancing	3083	30	130	12.8	144829.4	72.7	24.1	28.3
2	Without Lancing	3084	30	108	12.3	139172	53.8	21.7	25.9
						Method	IS 11255 (P-1):1985 (RA 2024)	IS 11255 (P-2):1985 (RA 2024)	IS 11255 (P-7):2005 (RA 2022)
						Unit	mg/Nm^3	ppm	ppm
						Standard Limits	With Lancing 400	100	50
							Without Lancing 150		

1. Results are Based on TGSPL Laboratory
2. Sample collected and analysed as per the standard procedure
3. Test Report is confidential to Company's purposes only
4. The test report is valid only for the equipment/item tested and shall not be reproduced except in full without written approval from the laboratory
5. The Test Results relate only to the items tested
6. The results are valid as the date tested

Reviewed & Authorized Signatory
Technical Manager

****End of Report****

ECO GREEN SOLUTION SYSTEMS PVT LTD

EGSSPL

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CIN NO: U74140KA2005PTC036991

EGSSPL/FRM/055

ULR NO: TC148542600000996F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	8	Sample Collected On	16.03.2026
2	Stack Location	Secondary Fume Extraction System for EAF - A, B & C Location: Wheel Shop SMS	9	Sample Receipt On	16.03.2026
			10	Sample Collected By	Mr. Abhilash
3	Date of Analysis Completed/Date of Report	17.03.2026/20.03.2026	11	Sample RC No	4377
4	Data/Information obtained from the Customer (If Any)	NA	12	Condition of Test Item	Good
5	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	13	Sampling Plan Reference	EGSSPL/F/SOP/01
6	Particulars of the Instrument Used	Stack Monitoring Kit	14	Instrument Sl. No./Model	001-DTE-2015/EGSS-009
7	Instruments Calibrated Date	31.10.2025	15	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	16.03.2026
2	Stack Diameter (m)	4
3	Stack Height (m)	36mtrs from AGL
4	Cross Sectional Area (m^2)	12.572

Sl. No.	Process	Unique Identification No.	Ambient Temp (°C)	Stack Temp (°C)	Velocity (m/s)	Gas Discharge (Nm^3/hr)	Particulate Matter as PM	Sulphur dioxide as SO_2	Oxides of Nitrogen- NO_x (as NO_2)
1	With Lancing	3085	30	148	14.3	647206.6	74.8	23.4	32.6
2	Without Lancing	3086	30	128	13.2	597421.4	58.9	21.7	24.3
						Method	IS 11255 (P-1):1985 (RA 2024)	IS 11255 (P-2):1985 (RA 2024)	IS 11255 (P-7):2005 (RA 2022)
						Unit	mg/Nm^3	ppm	ppm
						Standard Limits	With Lancing 400	100	50
							Without Lancing 150		

Reviewed By Authorised Signatory
(S. Asokan)
Technical Manager

End of Report

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E-mail: lab@egsspl.in, ecogreen@egsspl.in

CIN NO: U74140KA2005PTC036991

EGSSPL/FRM/055
ULR NO: TC148542600001055F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	8	Sample Collected On	23.03.2026
2	Stack Location	Electric Arc Furnace 'A' & 'B' (Primary Fume Extraction System) Location: Wheel Shop SMS	9	Sample Receipt On	23.03.2026
			10	Sample Collected By	Mr. Abhilash
3	Date of Analysis Completed/Date of Report	24.03.2026/26.03.2026	11	Sample RC No	4431
4	Data/Information obtained from the Customer (If Any)	NA	12	Condition of Test Item	Good
5	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	13	Sampling Plan Reference	EGSSPL/F/SOP/01
6	Particulars of the Instrument Used	Stack Monitoring Kit	14	Instrument Sl. No./Model	001-DTE-2015/EGSS-009
7	Instruments Calibrated Date	31.10.2025	15	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	23.03.2026
2	Stack Diameter (m)	4
3	Stack Height (m)	36mtrs from AGL
4	Cross Sectional Area (m^2)	12.572

Sl. No.	Process	Unique Identification No.	Ambient Temp (°C)	Stack Temp (°C)	Velocity (m/s)	Gas Discharge (Nm^3/hr)	Particulate Matter as PM	Sulphur dioxide as SO_2	Oxides of Nitrogen- NO_x (as NO_2)
1	With Lancing	3124	32	142	13.6	615525.1	76.7	22.8	28.3
2	Without Lancing	3125	32	114	12.3	556688.2	54.5	18.7	26.3
						Method	IS 11255 (P-1):1985 (RA 2024)	IS 11255 (P-2):1985 (RA 2024)	IS 11255 (P-7):2006 (RA 2022)
						Unit	mg/Nm^3	ppm	ppm
						Standard Limits	With Lancing 400	100	50
							Without Lancing 150		

Reviewed & Authorized Signatory
S. Asokan
Technical Manager

End of Report

ECO GREEN SOLUTION SYSTEMS PVT LTD

EGSSPL

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CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055
ULR NO: TC148542600001055F

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	8	Sample Collected On	23.03.2026
2	Stack Location	Electric Arc Furnace 'C' (Primary Fume Extraction System) Location: Wheel Shop SM3	9	Sample Receipt On	23.03.2026
			10	Sample Collected By	Mr. Abhilash
3	Date of Analysis Completed/Date of Report	24.03.2026/26.03.2026	11	Sample RC No	4432
4	Data/Information obtained from the Customer (If Any)	NA	12	Condition of Test Item	Good
5	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	13	Sampling Plan Reference	EGSSPL/F/SOP/01
6	Particulars of the Instrument Used	Stack Monitoring Kit	14	Instrument Sl. No./Model	001-DTR-2015/EGSS-009
7	Instruments Calibrated Date	31.10.2025	15	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	22.03.2026
2	Stack Diameter (m)	2
3	Stack Height (m)	30mtrs from AGL
4	Cross Sectional Area (m^2)	3.143

Sl. No.	Process	Unique Identification No.	Ambient Temp (°C)	Stack Temp (°C)	Velocity (m/s)	Gas Discharge (Nm^3/hr)	Particulate Matter as PM	Sulphur dioxide as SO_2	Oxides of Nitrogen-NOx (as NO_2)
1	With Lancing	3126	32	128	13.0	147092.4	68.9	23.7	29.9
2	Without Lancing	3127	32	108	11.9	134646.1	55.3	19.9	24.3
						Method	IS 11255 (P-1):1985 (RA 2024)	IS 11255 (P-2):1985 (RA 2024)	IS 11255 (P-7):2005 (RA 2022)
						Unit	mg/Nm^3	ppm	ppm
						Standard Limits	With Lancing 400 Without Lancing 150	100	50

Reviewed & Authorized Signatory
Technical Manager

End of Report

ECO GREEN SOLUTION SYSTEMS PVT LTD

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CIN NO: U74140KA2005PTC036991

EGSSPL/FRM/055

ULR NO: TC148542600000105 7P

TEST REPORT OF PROCESS EMISSION

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	8	Sample Collected On	23.03.2026
2	Stack Location	Secondary Fume Extraction System for EAF - A, B & C Location: Wheel Shop SMS	9	Sample Receipt On	23.03.2026
			10	Sample Collected By	Mr. Abhilash
3	Date of Analysis Completed/Date of Report	24.03.2026/26.03.2026	11	Sample RC No	4433
4	Data/Information obtained from the Customer (If Any)	NA	12	Condition of Test Item	Good
5	Sampling Methodology	IS 11255 Part-3:2008 (RA 2023)	13	Sampling Plan Reference	EGSSPL/F/SOP/01
6	Particulars of the Instrument Used	Stack Monitoring Kit	14	Instrument Sl. No./Model	OD1-DTE-2015/EGSS-009
7	Instruments Calibrated Date	31.10.2025	15	Instruments Calibration Due Date	30.10.2026

DATA COLLECTED DETAILS

1	Date of Monitoring	23.03.2026
2	Stack Diameter (m)	4
3	Stack Height (m)	36mtrs from AGL
4	Cross Sectional Area (m^2)	12.572

Sl. No.	Process	Unique Identification No.	Ambient Temp (°C)	Stack Temp (°C)	Velocity (m/s)	Gas Discharge (Nm^3/hr)	Particulate Matter as PM	Sulphur dioxide as SO_2	Oxides of Nitrogen- NO_2 (as NO_2)
1	With Lancing	3128	32	144	14.0	639628.8	77.2	23.6	34.8
2	Without Lancing	3129	32	108	12.7	574791.8	61.3	23.1	26.8
						Method	IS 11255 (P-1):1985 (RA 2024)	IS 11255 (P-2):1985 (RA 2024)	IS 11255 (P-7):2005 (RA 2022)
						Unit	mg/Nm^3	ppm	ppm
						Standard Limits	With Lancing 400	100	50
							Without Lancing 150		

Reviewed & Authorised Signatory
(S. Asokan)
Technical Manager

End of Report

EGSSPL

ECO GREEN SOLUTION SYSTEMS PVT LTD

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CIN NO: U74140KA2005PTC036901
EGSSPL/FRM/055
ULR NO: TC148542600000779F

Ambient Air Quality Analysis Report

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	7	Sample Collected On	02.03.2026
2	Date of Analysis Completed/Date of Report	04.03.2026/06.03.2026	8	Sample Receipt On	03.03.2026
3	Sampling Methodology	IS 5182 Part-5: 2020 (RA 2024)	9	SRC Code	4169
4	Sampling Plan Reference	EGSSPL/F/SOP/01	10	Sample Collected By	Mr. Abhilash
5	Data/Information obtained from the Customer (If Any)	NA	11	Condition of Test Item	Good
6	Monitoring Done By	M/s. Eco Green Solution Systems Pvt. Ltd.	12	Monitoring Duration	24hrs

Instrument Details	$PM_{2.5}$ (Fine Particulate Sampler)	PM_{10} (Respirable Dust Sampler)
Make/Model No.	Eco Green Instruments/ EGSS-007	Eco Green Instruments/ EGSS-NL-011
Sl. No.	001, 002, 003	001, 002, 003
Instrument Calibrated Date	31.10.2025	31.10.2025
Instrument Calibration Due Date	30.10.2026	30.10.2026

Sl. No.	Name of the Location	Unique Identification No.	Particulate Matter (PM_{10})	Particulate Matter ($PM_{2.5}$)	Sulphur Dioxide as SO_2	Nitrogen Dioxide as NO_2
1	Near RT Shop	765	58.2	27.1	12.9	22.8
2	Near M Lab	766	55.0	24.6	11.3	20.5
3	Near Axle Shop RHF & Scrap Cutting	767	62.0	29.6	14.5	24.1
NAAQ Standards			100	60	80	80
Unit			µg/m³	µg/m³	µg/m³	µg/m³
Method			IS 5182 (Part 23):2006 2022	IS 5182 (Part 24):2019 2024	IS 5182 (Part 2):2018 2023	IS 5182 (Part 6):2006 2022

Reviewed By Authorized Signatory
(S. Ashkan)
Technical Manager

End of Report

ECO GREEN SOLUTION SYSTEMS PVT LTD

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CIN NO: U74140KA2005PTC036991
EGSSPL/FRN/055
ULR NO: TC148542600000814P

Ambient Air Quality Analysis Report

1	Customer Name & Address	M/s. RWF HQ - Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	7	Sample Collected On	05.03.2026
2	Date of Analysis Completed/Date of Report	07.03.2026/09.03.2026	8	Sample Receipt On	06.03.2026
3	Sampling Methodology	IS 5182 Part-5: 2020 (RA 2024)	9	SRC Code	4204
4	Sampling Plan Reference	EGSSPL/F/SOP/01	10	Sample Collected By	Mr. Abhilash
5	Data/Information obtained from the Customer (If Any)	NA	11	Condition of Test Item	Good
6	Monitoring Done By	M/s. Eco Green Solution Systems Pvt. Ltd.	12	Monitoring Duration	24hrs

Instrument Details	$PM_{2.5}$ (Fine Particulate Sampler)	PM10 (Respirable Dust Sampler)
Make/Model No.	Eco Green Instruments/ EGSS-007	Eco Green Instruments/ EGSS-ML-011
Sl. No.	001, 002, 003	001, 002, 003
Instrument Calibrated Date	31.10.2025	31.10.2025
Instrument Calibration Due Date	30.10.2026	30.10.2026

Sl. No.	Name of the Location	Unique Identification No.	Particulate Matter (PM_{10})	Particulate Matter ($PM_{2.5}$)	Sulphur Dioxide as SO_2	Nitrogen Dioxide as NO_2
1	Near RT Shop	768	60.3	30.3	15.1	23.9
2	Near M Lab	769	54.4	26.2	16.1	21.7
3	Near Axle Shop RHF & Scrap Cutting	770	66.1	32.1	16.5	22.9
NAAQ Standards			100	60	80	80
Unit			µg/m³	µg/m³	µg/m³	µg/m³
Method			IS 5182 (Part 23):2006 2022	IS 5182 (Part 24):2019 2024	IS 5182 (Part 2):2018 2023	IS 5182 (Part 6):2006 2022

Reviewed & Authorized Signatory
Technical Manager

End of Report

ECO GREEN SOLUTION SYSTEMS PVT LTD

EGSSPL

Recognized by Ministry Of Environment, Forest & Climate Change (MOEFCC) Govt. Of India, New Delhi, Dt: 27.11.2024 to 21.11.2027
An ISO 9001:2015 & ISO 45001:2018 Certified Company
48/A-4, KIADB Industrial Area, Doddaballapur, Bengaluru-561203
E mail: lab@egsspl.in, ecogreen@egsspl.in

CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055
ULR NO: TC148542600000843F

Ambient Air Quality Analysis Report

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	7	Sample Collected On	09.03.2026
2	Date of Analysis Completed/Date of Report	11.03.2026/13.03.2026	8	Sample Receipt On	10.03.2026
3	Sampling Methodology	IS 5182 Part-5: 2020 (RA 2024)	9	SRC Code	4240
4	Sampling Plan Reference	EGSSPL/F/SOP/01	10	Sample Collected By	Mr. Abhilash
5	Data/Information obtained from the Customer (If Any)	NA	11	Condition of Test Item	Good
6	Monitoring Done By	M/s. Eco Green Solution Systems Pvt. Ltd.	12	Monitoring Duration	24hrs

Instrument Details	**$PM_{2.5}$ (Fine Particulate Sampler)**	**PM_{10} (Respirable Dust Sampler)**
Make/Model No.	Eco Green Instruments/ EGSS-007	Eco Green Instruments/ EGSS-NL-011
Sl. No	001, 002, 003	001, 002, 003
Instrument Calibrated Date	31.10.2025	31.10.2025
Instrument Calibration Due Date	30.10.2026	30.10.2026

Sl. No.	**Name of the Location**	**Unique Identification No.**	**Particulate Matter (PM_{10})**	**Particulate Matter ($PM_{2.5}$)**	**Sulphur Dioxide as SO_2**	**Nitrogen Dioxide as NO_2**
1	Near RT Shop	771	63.9	29.9	14.4	21.1
2	Near M Lab	772	60.5	28.3	12.9	19.9
3	Near Axle Shop RHF & Scrap Cutting	773	66.7	32.9	15.0	18.8
NAAQ Standards			100	60	80	80
Unit			µg/m³	µg/m³	µg/m³	µg/m³
Method			IS 5182 (Part 23):2006 2022	IS 5182 (Part 24):2019 2024	IS 5182 (Part 2):2018 2023	IS 5182 (Part 6):2006 2022

1. Results relevant only for tested sample.
2. Sample will be disposed after 7 days of report.
3. Subject to jurisdiction in Bengaluru only.
4. This test report cannot be reproduced in any manner or form or published without written approval from the laboratory.
5. The valid validity of this laboratory is limited to calibration only.
6. The results do not apply to the items tested.

Reviewed & Authorized Signatory
R. Asokan
Technical Manager

****End of Report****

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E-mail: lab@egsspl.in, ecogreen@egsspl.in

CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055
ULR NO: TC1485426000000960F

Ambient Air Quality Analysis Report

1	Customer Name & Address	M/s. RWF BQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	7	Sample Collected On	12.03.2026
2	Date of Analysis Completed/Date of Report	14.03.2026/ 16.03.2026	8	Sample Receipt On	13.03.2026
3	Sampling Methodology	IS 5182 Part-5: 2020 (RA 2024)	9	SRC Code	4343
4	Sampling Plan Reference	EGSSPL/F/SOP/01	10	Sample Collected By	Mr. Abhilash
5	Date/Information obtained from the Customer (If Any)	NA	11	Condition of Test Item	Good
6	Monitoring Done By	M/s. Eco Green Solution Systems Pvt. Ltd.	12	Monitoring Duration	24hrs

Instrument Details	$PM_{2.5}$ (Fine Particulate Sampler)	PM_{10} (Respirable Dust Sampler)
Make/Model No.	Eco Green Instruments/ EGSS-007	Eco Green Instruments/ EGSS-ML-011
Sl. No.	001, 002, 003	001, 002, 003
Instrument Calibrated Date	31.10.2025	31.10.2025
Instrument Calibration Due Date	30.10.2026	30.10.2026

Sl. No.	Name of the Location	Unique Identification No.	Particulate Matter (PM_{10})	Particulate Matter ($PM_{2.5}$)	Sulphur Dioxide as SO_2	Nitrogen Dioxide as NO_2
1	Near RT Shop	788	67.1	33.3	17.7	25.3
2	Near M Lab	789	65.8	30.3	15.0	22.0
3	Near Axle Shop RHF & Scrap Cutting	790	68.1	34.9	17.1	26.3
NAAQ Standards			100	60	80	80
Unit			µg/m³	µg/m³	µg/m³	µg/m³
Method			IS 5182 (Part 23):2006 2022	IS 5182 (Part 24):2019 2024	IS 5182 (Part 2):2018 2023	IS 5182 (Part 6):2006 2022

Reviewed & Authorised Signatory
S. Asokan,
Technical Manager

End of Report

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CIN NO: U74140KA2005PTC036991

EGSSPL/FRM/055

ULR NO: TC148542600000997F

Ambient Air Quality Analysis Report

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	7	Sample Collected On	16.03.2026
2	Date of Analysis Completed/Date of Report	18.03.2026/20.03.2026	8	Sample Receipt On	17.03.2026
3	Sampling Methodology	IS 5182 Part-5: 2020 (RA 2024)	9	SRC Code	4378
4	Sampling Plan Reference	EGSSPL/P/SOP/01	10	Sample Collected By	Mr. Abhilash
5	Data/Information obtained from the Customer (If Any)	NA	11	Condition of Test Item	Good
6	Monitoring Done By	M/s. Eco Green Solution Systems Pvt. Ltd.	12	Monitoring Duration	24hrs

Instrument Details	$PM_{2.5}$ (Fine Particulate Sampler)	PM_{10} (Respirable Dust Sampler)
Make/Model No.	Eco Green Instruments/ EGSS-007	Eco Green Instruments/ EGSS-NL-011
Sl. No.	001, 002, 003	001, 002, 003
Instrument Calibrated Date	31.10.2025	31.10.2025
Instrument Calibration Due Date	30.10.2026	30.10.2026

Sl. No.	Name of the Location	Unique Identification No.	Particulate Matter (PM_{10})	Particulate Matter ($PM_{2.5}$)	Sulphur Dioxide as SO_2	Nitrogen Dioxide as NO_2
1	Near RT Shop	801	64.8	31.1	15.0	22.8
2	Near M Lab	802	62.7	28.2	12.9	20.6
3	Near Axle Shop RHF & Scrap Cutting	803	72.4	36.1	19.3	28.1
NAAQ Standards			100	60	80	80
Unit			µg/m³	µg/m³	µg/m³	µg/m³
Method			IS 5182 (Part 23):2006 2022	IS 5182 (Part 24):2019 2024	IS 5182 (Part 2):2018 2023	IS 5182 (Part 6):2006 2022

1. Results reported are related to the sample tested.
2. Reproduction of this report is not permitted except in full without written approval from the laboratory.
3. Any corrections must be reported to the issuing laboratory.
4. This report shall not be used for any legal purpose.

Reviewed & Authorized Signatory
MS. Asokan
Technical Manager

End of Report

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CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055
ULR NO: TC148542600001071F

Ambient Air Quality Analysis Report

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	7	Sample Collected On	17.03.2026
2	Date of Analysis Completed/Date of Report	20.03.2026/23.03.2026	8	Sample Receipt On	18.03.2026
3	Sampling Methodology	IS 5182 Part-5: 2020 (RA 2024)	9	SRC Code	4447
4	Sampling Plan Reference	EGSSPL/F/SOP/01	10	Sample Collected By	Mr. Abhilash
5	Data/Information obtained from the Customer (If Any)	NA	11	Condition of Test Item	Good
6	Monitoring Done By	M/s. Eco Green Solution Systems Pvt. Ltd.	12	Monitoring Duration	24hrs

Instrument Details	$PM_{2.5}$ (Fine Particulate Sampler)	PM_{10} (Respirable Dust Sampler)
Make/Model No.	Eco Green Instruments/ EGSS-007	Eco Green Instruments/ EGSS-NL-011
Sl. No.	001, 002, 003	001, 002, 003
Instrument Calibrated Date	31.10.2025	31.10.2025
Instrument Calibration Due Date	30.10.2026	30.10.2026

Sl. No.	Name of the Location	Unique Identification No.	Particulate Matter (PM_{10})	Particulate Matter ($PM_{2.5}$)	Sulphur Dioxide as SO_2	Nitrogen Dioxide as NO_2
1	Near RT Shop	820	66.8	32.9	17.7	23.6
2	Near M Lab	821	63.2	30.4	14.4	22.3
3	Near Axle Shop RHP & Scrap Cutting	822	74.7	38.0	22.4	33.8
NAAQ Standards			100	60	80	80
Unit			µg/m³	µg/m³	µg/m³	µg/m³
Method			IS 5182 (Part 23):2006 2022	IS 5182 (Part 24):2019 2024	IS 5182 (Part 2):2018 2023	IS 5182 (Part 6):2006 2022

Reviewed & Authorized Signatory
S. Asokan
Technical Manager

End of Report

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EGSSPL/FRM/055

ULR NO: TC148542600001096F

Ambient Air Quality Analysis Report

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	7	Sample Collected On	23.03.2026
2	Date of Analysis Completed/Date of Report	25.03.2026/27.03.2026	8	Sample Receipt On	24.03.2026
3	Sampling Methodology	IS 5182 Part-5: 2020 (RA 2024)	9	SRC Code	4477
4	Sampling Plan Reference	EGSSPL/F/SOP/01	10	Sample Collected By	Mr. Abhilash
5	Data/Information obtained from the Customer (If Any)	NA	11	Condition of Test Item	Good
6	Monitoring Done By	M/s. Eco Green Solution Systems Pvt. Ltd.	12	Monitoring Duration	24hrs

Instrument Details	$PM_{2.5}$ (Fine Particulate Sampler)	PM_{10} (Respirable Dust Sampler)
Make/Model No.	Eco Green Instruments/ EGSS-007	Eco Green Instruments/ EGSS-NL-011
Sl. No	001, 002, 003	001, 002, 003
Instrument Calibrated Date	31.10.2025	31.10.2025
Instrument Calibration Due Date	30.10.2026	30.10.2026

Sl. No.	Name of the Location	Unique Identification No.	Particulate Matter (PM_{10})	Particulate Matter ($PM_{2.5}$)	Sulphur Dioxide as SO_2	Nitrogen Dioxide as NO_2
1	Near RT Shop	834	65.4	30.4	15.2	22.8
2	Near M Lab	835	64.4	28.6	12.8	25.2
3	Near Axle Shop RHF & Scrap Cutting	836	68.1	31.8	17.0	26.6
NAAQ Standards			100	60	80	80
Unit			µg/m³	µg/m³	µg/m³	µg/m³
Method			IS 5182 (Part 23):2005 2022	IS 5182 (Part 24):2019 2024	IS 5182 (Part 2):2018 2023	IS 5182 (Part 6):2006 2022

Reviewed & Authorized Signatory
(S. Asokan)
Technical Manager

End of Report

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CIN NO: U74140KA2005PTC036991
EGSSPL/FRM/055
ULR NO: TC148542600000111SF

Ambient Air Quality Analysis Report

1	Customer Name & Address	M/s. RWF HQ – Mechanical Office of the Chief Mechanical Engineer, Rail Wheel Factory Bangalore, 560064 Karnataka, India	7	Sample Collected On	26.03.2026
2	Date of Analysis Completed/Date of Report	28.03.2026/31.03.2026	8	Sample Receipt On	27.03.2026
3	Sampling Methodology	IS 5182 Part-5: 2020 (RA 2024)	9	SRC Code	4497
4	Sampling Plan Reference	EGSSPL/F/SOP/01	10	Sample Collected By	Mr. Abhilash
5	Data/Information obtained from the Customer (If Any)	NA	11	Condition of Test Item	Good
6	Monitoring Done By	M/s. Eco Green Solution Systems Pvt. Ltd.	12	Monitoring Duration	24hrs

Instrument Details	$PM_{2.5}$ (Fine Particulate Sampler)	PM_{10} (Respirable Dust Sampler)
Make/Model No.	Eco Green Instruments/ EGSS-007	Eco Green Instruments/ EGSS-NL-011
Sl. No.	001, 002, 003	001, 002, 003
Instrument Calibrated Date	31.10.2025	31.10.2025
Instrument Calibration Due Date	30.10.2026	30.10.2026

Sl. No.	Name of the Location	Unique Identification No.	Particulate Matter (PM_{10})	Particulate Matter ($PM_{2.5}$)	Sulphur Dioxide as SO_2	Nitrogen Dioxide as NO_2
1	Near RT Shop	848	68.2	34.5	19.3	25.2
2	Near M Lab	849	64.9	32.8	16.1	24.6
3	Near Axle Shop RHF & Scrap Cutting	850	70.4	36.2	22.5	28.1
NAAQ Standards			100	60	80	80
Unit			µg/m³	µg/m³	µg/m³	µg/m³
Method			IS 5182 (Part 23):2006 2022	IS 5182 (Part 24):2019 2024	IS 5182 (Part 2):2018 2023	IS 5182 (Part 6):2006 2022

Reviewed & Authorized Signatory
(S. Asokan)
Technical Manager

End of Report