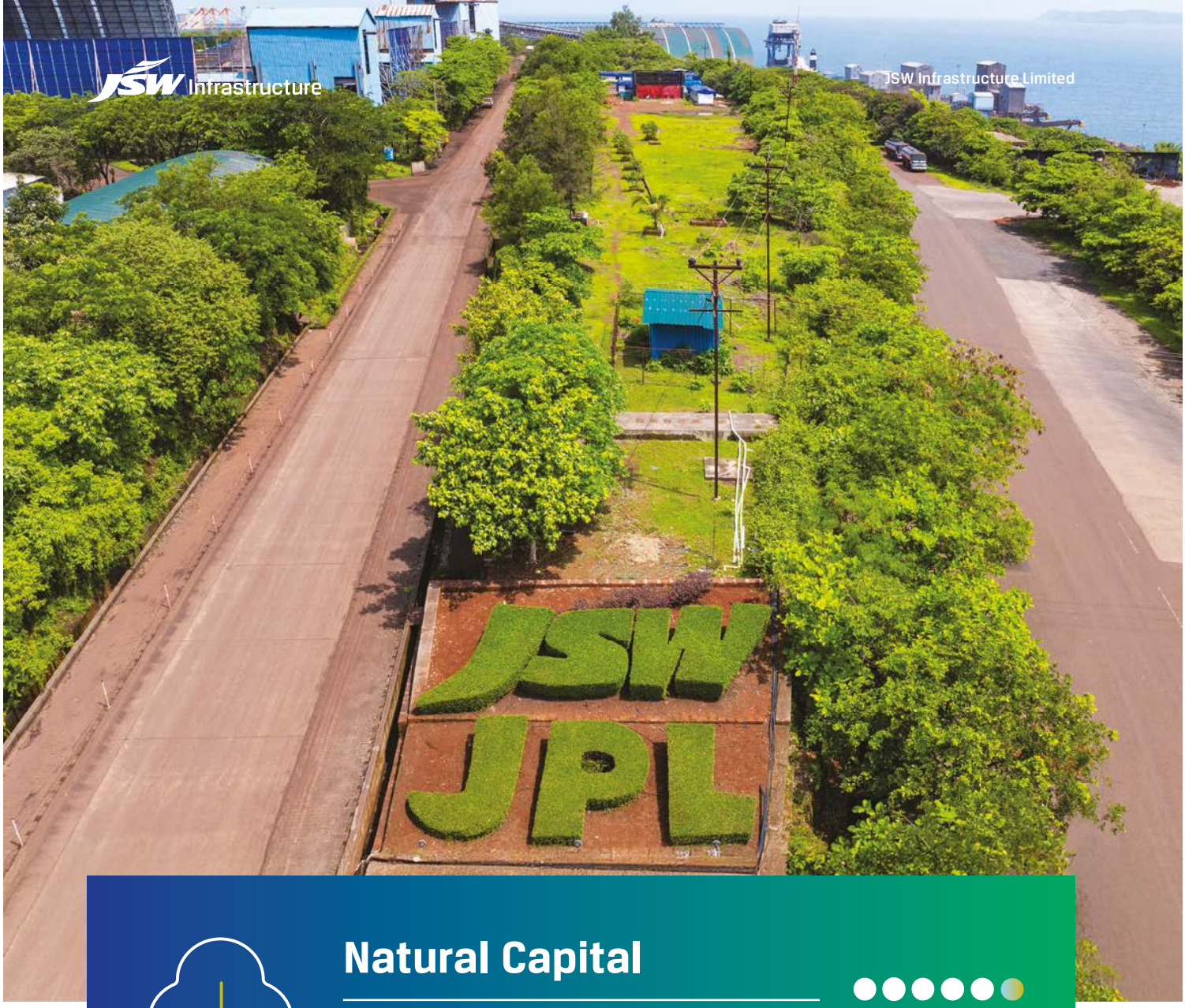
JSW Infrastructure

#BetterEveryday

Building Scale. Strength.

Integrated Report

2024-25



Natural Capital

At JSW Infrastructure, we promote sustainable practices that conserve and minimise the use of natural resources and address climate change. Our aim behind every practice is to ensure that we improve energy efficiency, minimise carbon emissions, reduce specific fresh water consumption and increase recycle / reuse of waste. We also play a key role in helping our value chain partners develop customised strategies towards environmental conservation.

Strategic Linkage

S1 S2 S3

SDGs Impacted

Management Approach

JSW Group is steadfast in its commitment to advancing its environmental objectives and preserving the planet, demonstrating a strong dedication to reducing its environmental footprint. At JSW Infrastructure, as part of our comprehensive Sustainability Vision and Sustainability Strategy, we have set ambitious targets for reducing GHG emissions with a clearly defined pathway to achieve Net Neutrality by 2050. This includes a judicious mix of renewable energy, transition to electric-driven vehicles and equipment, alternate fuels and improvement in energy efficiency. Our Sustainability Strategy encompasses 16 focus areas that are backed by sustainability policies. We strive to achieve 100% waste recycling / reuse, reduce specific freshwater consumption and ensure no net loss of biodiversity.

Significant Aspects

- Net Neutrality by 2050
- Energy efficiency
- Preservation of biodiversity
- Environmental footprint
- Preservation of natural resources
- Reduction in GHG Emission
- Maximise Waste Recycling / Reuse
- Transition to Electric Mobility
- Renewable Energy

Key Material Topics

- Climate change
- Energy management
- Air emissions management
- Water resource management
- Waste management
- Biodiversity

Key Thrust Areas

- Greenhouse Gas Emissions
- Energy Consumption
- Water Consumption
- Waste Generation and Recycling
- Biodiversity Conservation

Performance Highlights in FY2025

0.91 $KgCO_2e/TCH$

0.83 $KgCO_2e/TCH$

Specific GHG Emissions: Scope-1 and Scope-2

4,070 KJ/TCH

3,968 KJ/TCH

Specific Energy Consumption (Electrical)

0.3551 kg/TCH

0.4660 kg/TCH

Specific Waste Generation

0.52 $KgCO_2e/TCH$

0.46 $KgCO_2e/TCH$

Specific GHG Emissions Scope 3

18.40% (25473 MWh)

22.56% (22841 MWh)

Renewable Energy Consumed

90.40%

90.80%

Waste Recycled

3,231 KJ/TCH

2,778 KJ/TCH

Specific Energy Consumption (Fossil Fuels)

4.0 litres/TCH

4.8 litres/TCH

Specific Fresh Water Consumption

71.07 $\mu g/Nm^3$

61.21 $\mu g/Nm^3$

Particulate Matter (PM10) (Median of all locations)

All Locations | SPT Locations

We remain committed to

- Prevent the cause of climate change
- Mitigate and adapt to the impact of climate change
- Create resilience to climate change

Key Initiatives

GHG EMISSIONS

Recognising the urgent need to address climate change, the Company is actively working to reduce its greenhouse gas (GHG) emissions intensity. As a part of the Company's sustainability strategy, the key focus areas include the transition to renewable energy, enhancement of operational efficiency, and the adoption of cleaner fuel alternatives such as electric vehicles and biodiesel. In line with India's Nationally Determined Contributions (NDCs), the Company has set clear GHG intensity reduction targets, reaffirming its commitment to sustainable growth and long-term environmental stewardship.

GHG Emissions Target for SPT Locations (against baseline of FY2021)

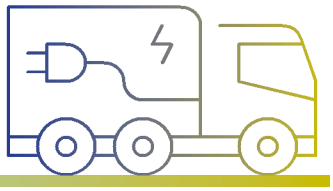
15%
Reduction by 2026

35%
Reduction by 2031

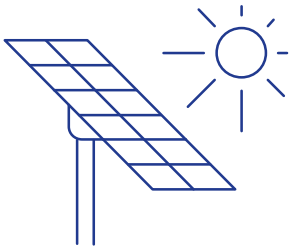
ENERGY MANAGEMENT

Port operations depend heavily on energy for handling and transportation of EXIM cargo to and from its facilities. Understanding the increasing demand for fuel and to conserve the limited available resources, it is important to develop and adopt strategies for more efficient use of energy.

We aim to maximise energy conservation through process improvements and transition to renewable energy sources, including group captive and third-party options, wherever possible. Group captive renewable power plants for Mangalore and Ennore, which were commissioned in March 2024 was made fully operational during the year increasing our share of renewable energy to 18.4% of the total electricity consumption across all locations. We are also working towards replacing fossil fuels with renewables like biofuels and transition to electric mobility including adding a fleet of electric vehicles at all our port locations.



Energy



Paradip

- Solar panel for Security Porta cabins at 5 locations.
- Electric stacker/Forklift deployed in place of diesel-driven hydra.

Mangalore

- 96% Renewable energy

Ennore

- 76% Renewable Energy

DPPL

- Provide shore-based power supply to MBCs and tugs.
- Monitoring electricity utilisation through SCADA-based energy management system.

JPL

- Provide shore-based power supply to MBCs and tugs.
- Conventional Light Fittings in MBCs replaced with LEDs.
- 24 Solar street lights installed resulting in substantial emission reduction.

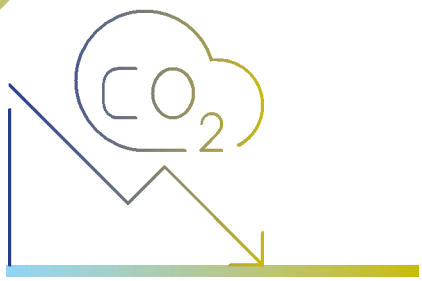
PNP

- Solar-powered LED light poles installed along Rail siding.

SWPL

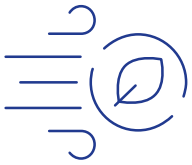
- Installation of Variable Frequency Drive (VFD) for motor controls.

AIR EMISSIONS



We believe the most efficient method to combat the impact of our operations on the air quality is to reduce emissions at the source. Our emphasis is on clean operations by leveraging our state-of-the-art technology and best practices to reduce / mitigate the impact of emissions on the air quality. Our port locations are well equipped with dust suppression mechanisms such as water sprinkling, wind barriers, covered sheds, enclosed conveyor system and green belt to promote clean air by minimising dust dispersion. We also focus on enhancing equipment efficiency and vehicle efficiency to emphasise regular air quality monitoring.

Air Emission



Mangalore

- Replaced R22 based Air Conditioners with ozone-friendly 410A refrigerant
- Covered conveyor belt

DPPL

- Additional sweeping machine procured to enhance efficiency

Ennore

- Procured water tenders for road wetting
- Trucks and rails covered with tarpaulin before leaving the port

SWPL

- Covered shed of 320m length x 135m width with a height of 45m has been constructed to minimise fugitive dust dispersion
- Additional 16 sprinklers installed in storage yard

CASE 1 Covered Sheds

In continuation to our stated objective of responsible cargo handling and storage practices, we have constructed a 320m long x 135m wide covered shed with a height of 45m behind the berths 5A and 6A in Mormugao Port. The covered shed having a capacity to store about 2 lakh metric tonnes of bulk cargo covers an area of 43,200 sq.m. This state-of-the-art structure is equipped with SCADA connected light system and water sprinklers to curtail fugitive dust emission leading to better air quality in the vicinity. Also to reduce electricity consumption the lighting system is timer controlled. Fire fighting systems are provided for safety.

We also have similar covered sheds at our Jaigarh and Dharamtar ports that provide storage for coal and iron ore.

Highlights of covered shed:	Dust dispersion in the vicinity is curtailed	Contains water pollution	Improves working condition

CASE 2 Installation of Hose crimping machine at Jaigarh site

The primary purpose of hose crimping in hydraulic systems is to create a secure, leak-proof connection between the hose and its fitting. This process ensures the fitting is tightly bonded to the hose, allowing it to withstand high pressure and prevent failures or leaks. Earlier the hoses were being sent to Goa for crimping causing increased downtime and emissions due to transportation.

Benefits of crimping machine	Reduction in transport emission for carrying the hose pipes to Goa or Mumbai for repairs	Reduced down time leading to higher efficiency	Flexibility in maintenance work

CASE 3 Mechanisation of gangway ladder

Pick & Carry crane was being used for placing & removing Gangway ladder on each MBC at Berth-6A (Asset/Diesel utilisation). This manual system has been replaced with a motorised gangway ladder which has not only improved operational efficiency but also reduced emissions.

Benefits of gangway ladder	Saving in diesel and electricity from the earlier inefficient process	Dependency on Pick and Carry crane is eliminated	Emissions due to crane eliminated

BIODIVERSITY

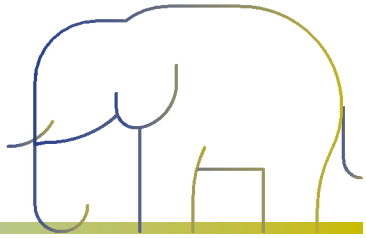
We are aware of the importance of greenbelt around the port areas and have proactively taken efforts for conserving the biodiversity and expanding our green footprint. Our green footprint is dominated by the indigenous species selected in consultation with the local forest department and communities.

Aligning with our target of 'no net loss of biodiversity', we have designed our initiatives to safeguard the plant species, maintaining a healthy ecosystem. The number of plant species in our premises continues to improve, despite the ongoing development. These efforts not only protect biodiversity, but also strengthen the resilience of our natural habitats.

We also adopt measures to preserve the fauna in our port premises. We take several measures to ensure that our operations are safe. We ensure that avian fauna are effectively preserved through measures like bird sheds, drinking water bowls, etc. There are no national parks or sanctuaries around the project sites.

Biodiversity Target

No Net Loss of Biodiversity



Biodiversity

Paradip

- Miyawaki garden developed with about 10,000 plants of 29 different species

DPPL

- Total of 1,20,000 sq feet area brought under green cover with about 67 species of trees with a survival rate of 98%

PNP

- About 1,600 trees of varied species known for reducing air pollution planted along the boundary

Biodiversity: No. of Species

	FY2022	FY2023	FY2024	FY2025
Dharamtar	46	55	60	67
Ennore	19	19	20	20
Goa	27	30	30	31
Jaigarh	94	107	110	111
Mangalore Coal	6	35	44	66
Mangalore Container	0	16	29	46
Paradip	29	29	29	29
PNP	-	-	-	14

WATER MANAGEMENT

We understand the significance of water usage in port operations. Responsible water management is essential for ensuring long-term sustainability. In our conscious effort towards responsible water management across our facilities, we are focussing on reducing fresh water consumption, increasing water recycling and promoting the use of treated water. Water treated in sewage treatment plants (STP) contribute nearly 11% of our total water consumption during port operations. We have a Zero Liquid Discharge policy across all our ports and terminals, ensuring that no wastewater is released into the environment.

DPPL

- Efficient water management and monitoring reducing fresh water consumption by 34%.

PNP

- STP treated water used for gardening and in administrative building as is the practice in other sites.

Mangalore

- Re-use of rain water from coal settling pond for horticulture and other uses.

Water Management Target

Zero Liquid Discharge

WASTE MANAGEMENT

We are committed to diverting waste from landfills by ensuring its proactive reuse and recycling. We undertake regular monitoring and assessment of our practices to ensure continuous improvement of waste management. Robust waste segregation and disposal processes are employed to ensure that both hazardous and non-hazardous waste streams are managed safely, in full compliance with all the regulations. We also compost food and garden waste and utilise the manure in greenbelt management. During FY2025, about 90% of the total waste generated was recycled and re-used.

Managing Waste

- Achieved 90% waste recycling/reuse.
- Employed robust waste segregation and disposal processes to ensure hazardous and non-hazardous waste streams are managed safely.
- Compost food and garden waste and utilise manure in greenbelt management.

DPPL

- Developed area for waste storage with categorisation and designated area for storage of each type of waste.

Paradip

- Elevated platforms for storage of used oil drums.
- Reuse of e-waste components in VFDs and Light fittings.

PNP

- Usable waste oil is filtered and reused for lubrication of non-citical equipment.
- Compost pit made at site for organic waste, which is then used as natural fertiliser for green belt development.

JPL

- Installation of Organic Waste Composter. The compost is used for gardening.
- Installation of food waste composter near the canteen.
- Concerted efforts were taken for waste management by segregating wastes and storing them in designated ares

A comprehensive waste management plan has been developed and the implementation is being regularly monitored for compliance.

- Waste management gap analysis has been carried out and as per the findings, awareness sessions have been conducted for concerned employees to ensure good waste management practices across the port.

Waste Management Target

Recycle/ Reuse of 100% Waste

Winning Accolades

Received the Golden Peacock Award for Sustainability in Transportation (Ports)

JSW Infrastructure won the "Golden Peacock Award for Sustainability" in the Transportation (Ports) Sector for 2024 at the National Level. The Award, presented during the London Global Convention on Corporate Governance & Sustainability in November 2024, . The Award, instituted by The Institute of Directors, recognises the significant initiatives undertaken by JSWIL to enhance its reputation in governance and sustainability practices and to create new benchmarks. The award is a testimony to JSWIL's efforts in going beyond the statutory, ethical and sustainable compliance requirements to achieve high standards of corporate excellence.

ESG RATINGS

Low-Risk ESG Rating by Morningstar Sustainalytics

The global ESG risk rating agency, Morningstar Sustainalytics has rated JSW Infrastructure Limited with "Low Risk" on ESG with a Risk Rating score of 12.3, which places the company at a rank of 35 out 175 companies in the Transportation Infrastructure industry group globally. We take pride in our unwavering commitment to continue with sustainable business practices that meet expectations of all stakeholders. By upholding the principles of accountability, transparency and innovation, we have built a foundation for responsible growth. The rating provided by the globally reputed agency confirms our belief, ability and commitment to manage ESG Risks as part of the overall business strategy.

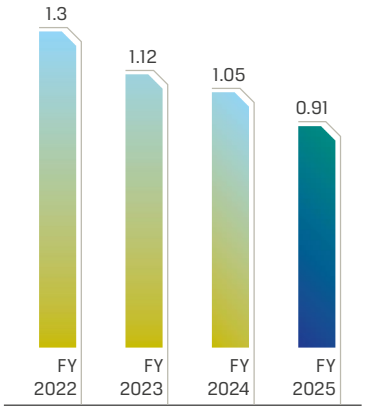
CDP's Management Level (B) rating for Climate Change in its First Disclosure

CDP accorded the Company with Management level 'B' rating for Assessment Year 2024, indicating that we have recognised and addressed the environmental impact of our business and ensured effective environmental management.

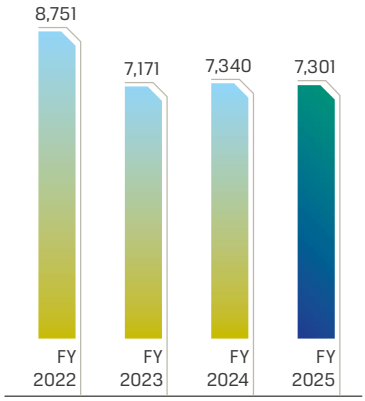
We remain committed to embed sustainable practices in our port operations. Our teams across locations are taking significant steps to adopt new technologies and make process improvements and ensure sustainable operations. Our strategy to encourage the use of renewable energy, electrification of vehicles and fully mechanised material handling systems contributes positively to our CDP score.

Key Performance Indicators

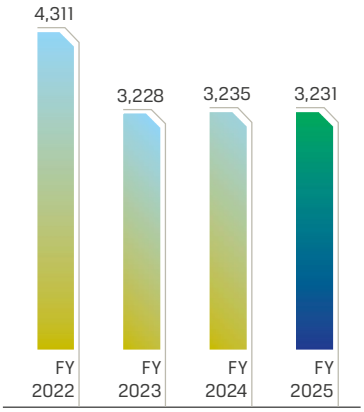
CO_2 Emissions
(Scope 1+2) ($KgCO_2e$/TCH)



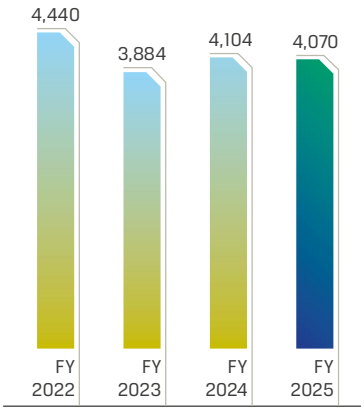
Total Energy Intensity (KJ/TCH)



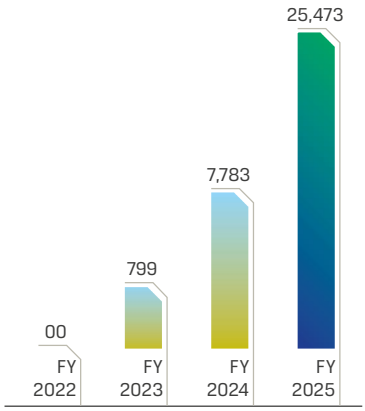
Specific Energy Consumption
(Fossil Fuel) (KJ/TCH)



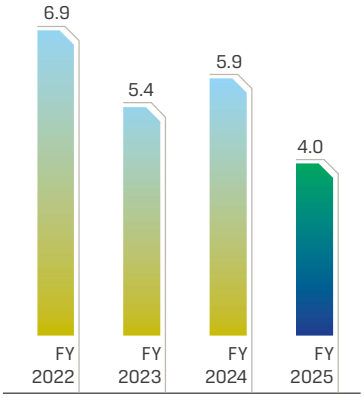
Specific Energy Consumption
(Electrical) (KJ/tch)



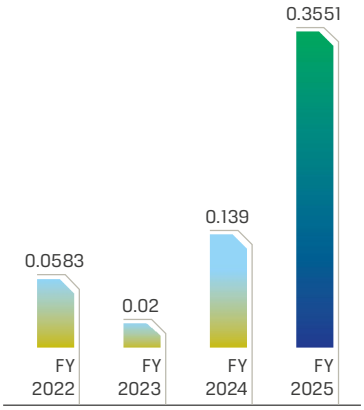
Renewable Energy (MWh)



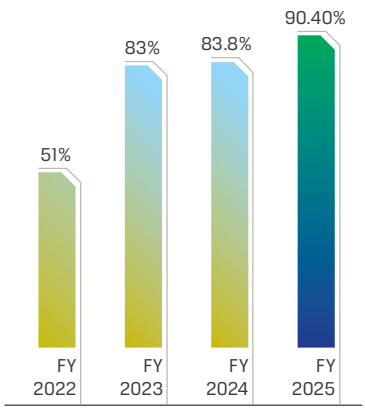
Specific Water Consumption
(L/TCH)



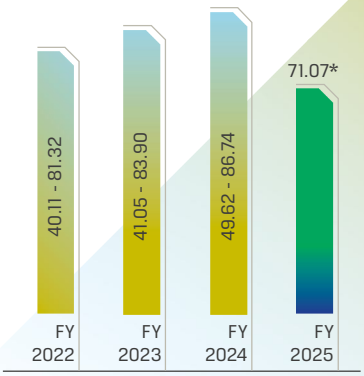
Waste Generation (Kg/TCH)



Waste Recycled/Utilised (%)



Ambient Air Quality (PM10) (ug/Nm3)



*Median value across all locations

Sustainability across SPT Locations (In FY2025)

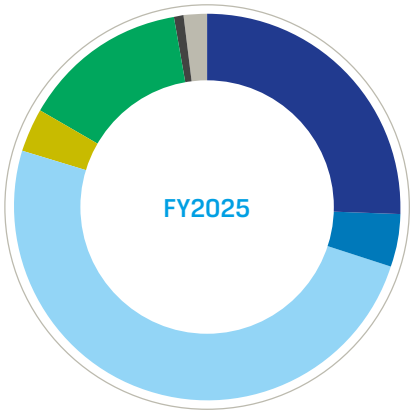
	Dharamtar	Ennore (Coal and Bulk)	Goa	Jaigarh	Mangalore (Coal)	Paradip Iron Ore
Cargo handled (TCH)	2,30,61,068	1,23,06,307	63,52,423	3,24,76,049	62,60,167	1,14,06,427
CO_2 emissions (Scope 1+2) ($KgCO_2e$/tch)	0.47	0.51	1.20	1.23	0.08	0.97
Energy consumption (Electrical) (KJ/tch)	1,963	5,660	5,189	4,053	4,839	4,800
Energy consumption (Fossil Fuel) (KJ/tch)	925	3,177	2,054	5483	575	2
Renewable energy (MWh)	0	14,743	0	0	8,098	0
Fresh water consumption (m^3/tch)	0.00234	0.00108	0.0022	0.0089	0.0059	0.0029
Waste generation (Kg/tch)	0.01663	0.05582	0.629	0.605	1.716	0.644
Waste recycled (%)	92	97	113	99	63	98
Biodiversity (No. of species)	67	20	31	111	66	29

Sustainability across Other Locations in FY2025

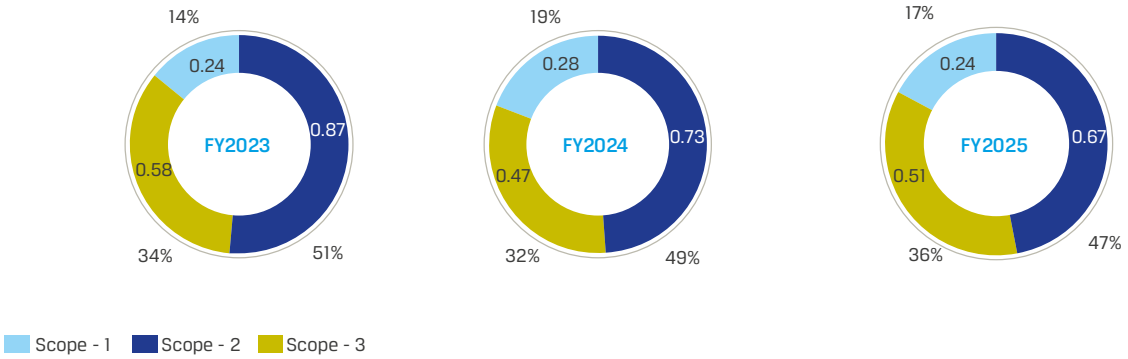
	Mangalore Container	Paradip (Coal)	PNP	Middle East Liquid Terminal (MELT)
Cargo handled (TCH)	23,80,676	1,89,30,102	54,27,229	36,85,281
CO_2 emissions (Scope 1+2) ($KgCO_2e$/tch)	0.51	1.29	1.11	1.0
Energy consumption (Electrical) (KJ/tch)	4,107	6,407	393	0
Energy consumption (Fossil Fuel) (KJ/tch)	6,502	2	13,839	13,376
Renewable energy (MWh)	2,632	0	0	0
Fresh water consumption (m^3/tch)	0.0014	0.0003	0.0075	0.0002
Waste generation (Kg/tch)	0.014	0.008	0.012	0.104
Waste recycled (%)	152	0	2	89
Biodiversity (No. of species)	46	29	14	0

Scope 3

JSW Infrastructure is a key service provider for loading, unloading and storage of cargo at its ports. We do not manufacture any products, and hence, we do not have any activities for downstream facilities like distribution or transportation of finished goods. The cargo at the ports is brought in by the shipping liners and evacuated from the ports to the respective destination by our customers. Accordingly, out of the 15 categories of Scope-3 emissions, we have identified and report on the following 7 categories:



- Cat 1 – Purchase Goods & Hired Services — 16,298.21 tCO_2e
- Cat 2 – Capital Goods — 2,884.51 tCO_2e
- Cat 3 – Electricity and Fuel not included in Scope 1 & 2 — 34,526.06 tCO_2e
- Cat 4 – Upstream Transportation — 1,584.71 tCO_2e
- Cat 5 – Waste Treatment & Transportation — 6,736.90 tCO_2e
- Cat 6 – Business Travel — 98.96 tCO_2e
- Cat 7 – Employee Commute — 179.36 tCO_2e



Value Chain Assessment – Chain Sustainability Assessment

Establishing the thought leadership and demonstrating global stewardship in sustainable procurement, we have successfully completed a comprehensive sustainability assessment, covering the top 75% of our suppliers by purchase value. The identified suppliers were trained to help them respond to a specially-designed assessment questionnaire. On the basis of their responses through a digital platform, the suppliers were assessed and rated to determine their base level of compliance. Certificates were issued to the suppliers with their respective ratings which they can showcase as a responsible supplier complying to Sustainability and Responsible conduct of business. This process not only evinced the suppliers' interest but also served the encompassing goal to develop a responsible supply chain. The certified suppliers have been provided with an AI-powered action plan for fostering improvement and risk mitigation.

JSW Group is one of the pioneers to complete such a comprehensive assessment across the Group including Steel, Energy, Infrastructure, Cement and Paints, demonstrating its strong commitment to build a responsible and sustainable supply ecosystem.

Rail Green Points

Rail Green Points (RGPs) is a digital initiative by Indian Railways to incentivise the use of rail transport for freight by acknowledging the carbon emission savings achieved compared vis-à-vis road transport. Expressed as Tonnes of CO_2, these points are credited to customers who transport goods by using Railways. The initiative highlights our proactive steps towards carbon savings. In FY2025, Ennore Terminal earned 39,704 RGPs, while the Mangalore Terminals has earned 26,859 RGPs.

Signatory to UNGC

We take pride in being a participant of the United Nations Global Compact (UNGC), marking a significant step in our journey towards sustainable and responsible growth. The UNGC is the world's largest corporate sustainability initiative, uniting over 20,000 companies and organisations globally in a shared commitment to align strategies and operations with Ten Universal Principles in the areas of human rights, labour, environment, and anti-corruption. By joining this global movement, JSW Infrastructure has pledged to embed these principles into its business culture and daily operations.


UNGC ID: 179,200

Network India

Certificate of Participation

THIS IS TO CERTIFY THAT

JSW INFRASTRUCTURE LIMITED

IS AN ANNUAL BUSINESS PARTICIPANT OF

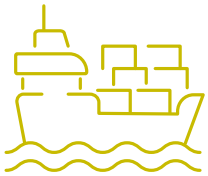
UN GLOBAL COMPACT NETWORK (INDIA)

FOR THE PERIOD OF JANUARY 2025 TO MARCH 2026

Ratnesh
Executive Director
UN Global Compact Network India

▲ WEST COAST

Jaigarh Port



Jaigarh Port is the Company's largest port by installed cargo handling capacity. Strategically positioned between the major ports of Mumbai and Goa, it serves as the Company's flagship port, enabling smooth cargo movement, streamlining logistics and trade flows, and delivering high service standards with operational excellence.

Strategic Location

Ratnagiri, Maharashtra

Type of Cargo Handled

Coal, Iron Ore, Limestone, Sugar, Molasses, Fertilisers, Bauxite, Gypsum, Urea, LPG (STS operation)

Total Cargo handled in FY2025

19.9 MMT

55 MTPA
Cargo handling capacity

Cape Vessel

2,319 metres
Total berth length

1.39 Lakh MT
LPG handled

1.83 Lakh MT
STS Operation

17.5 metres
Draft

With a capacity of 55 MTPA, the Jaigarh Port is a versatile, all-weather, and round-the-clock operational facility that plays a pivotal role in JSW Infrastructure's cargo handling portfolio. Its ability to manage diverse cargo types, combined with cost-effective services, makes it a critical logistics hub, particularly for sugar exports from the rich hinterlands it serves.

Recognised as one of India's deepest draft ports with a depth of 17.5 metres, Jaigarh is also among the most preferred ports for fertiliser imports. Its fully mechanised cargo handling systems and modern equipment enable faster vessel turnaround times and enhanced service delivery. The Company is committed to positioning Jaigarh Port as the leading port facility for Maharashtra and Karnataka.

The strategic location of Jaigarh Port facilitates an efficient trans-shipment process.

Catering to vast hinterland regions including parts of:

- Northern Goa
- Southern and western Maharashtra
- Northern and central Karnataka

Road: Linked to NH-66 (Mumbai-Goa) at Nivali via SH 106

Rail: Located just 55 km from Ratnagiri on Konkan Railway Network

Key Certifications

Demonstrating adherence to international quality and environment management standards:

ISO 9001:2015 | ISO 14001:2015 | SO 45001:2018

Our Proficiencies

08
Liquid tanks

04
Mobile harbour cranes

06
Barge Loader

05
Ship unloaders

09
07 Stacker CUM Reclaimer & 02 Reclaimer

04
Mini bulk carriers of 8,000 MTs

- Jaigarh Port is home to India's first Floating Storage Regasification Unit (FSRU) based LNG Terminal.
- It has a multi-purpose all-weather functionality, which is further augmented by 712-metre breakwater that ensures effective protection.
- It is equipped with state-of-the-art, fully mechanised cargo handling systems, designed to expedite the turnaround of vessels.
- It also conducts LPG cargo transfer through double banking operation.

Key Highlights of FY2025

- Working on expanding capacity by 15 MTPA on the back of an expansion of 5 MTPA steel-making capacity of a customer at Dolvi. Berth construction and dredging work is under progress, with targeted completion by March 2027.
- Brownfield expansion project to add 2 MTPA of capacity is currently underway, with an estimated capital expenditure of ` 900 crore. Civil works have been completed and construction of the berth and LPG terminal is in progress.

Towards Environmental Sustainability

- Provide shore-based power supply to MBCs and tugs.
- Conventional Light Fittings in MBCs replaced with LEDs.
- 24 Solar street lights installed, resulting in substantial emission reduction.
- Installation of the Hose crimping machine at the Jaigarh site.
- Installation of Organic Waste Composter. The compost is used for gardening.
- Installation of a food waste composter near the canteen.
- Concerted efforts were taken for waste management by segregating waste and storing it in designated areas. A comprehensive waste management plan has been developed, and the implementation is being regularly monitored for compliance.
- Waste management gap analysis has been carried out and as per the findings, awareness sessions have been conducted for concerned employees to ensure good waste management practices across the port.

A continued commitment to Efficiency, Innovation and Growth

Awards/Accolades

- Emerged as India's first port to receive a "Sword of Honour 2024 Award" from the British Safety Council, indicating its commitment towards excellence in health and safety management.
- Ranked 3rd for handling bulk cargo (5 MMT category) for FY2024 by the Ministry of Ports, Shipping & Waterways under Sagar Aanklan Certificate for Logistics Port Performance.
- Awarded as the Non-Major Port of the Year for 2nd consecutive year at the International 11th Samudra Manthan Awards 2024.
- Mr. Karun Kant Dave, Unit Head has been honoured with a Jury Award for his exceptional contribution to the Maritime Trade at the Jio Convention Centre in Mumbai.
- Received Platinum Award in the 17th Exceed OHS & Security Award 2024, which recognises the outstanding performance and commitment to excellence in Occupational Health & Safety in Services (Ports & Harbour) sector.

- Received Gold Award at the 1st Green Enviro Safety Awards 2025 for excellence in Safety Training within the Ports & Harbour sector. This is a recognition of the Port's innovative safety training programs, proactive risk management strategies and dedication to fostering a strong safety culture.

Technology

- Launched iPortman-4.2 Project New ERA - Port Operations System on Azure Cloud.
- All 6 Nos. Barge Loader operations transitioned from manual to remote operations, enhancing operational safety and efficiency.
- Project Digitalisation MHS-Phase 2&3 – Quick and easy access of circuit diagrams and related electric manuals to the engineer/shift-in-charges at the time of troubleshooting and maintenance; being implemented for Phase-1 MHS.

Operational Performance

- Achieved highest steam coal discharge rate: 18,000 MT/day at Berths 3B, Non-mechanised berth with PWWD 22,300 MT.
- Combined DWT of all the vessels reached an impressive 359,000 MT, showcasing the growing operational efficiency and capacity.
- Achieved a key milestone of 500th Urea Rake handled – first-time ever
- Achieved highest-ever Coal Blending MBCs in a month (19 Nos. carrying 144,902 MT cargo).

Adding New Commodities and restarted some Commodities

New Commodities

- Received first vessel of Soda Ash
- Welcomed first Boron vessel
- New commercial cargo Ethylene Dichloride
- Bauxite

Restarted few Commodities

- Maize handled at the Port after an 8-year gap.
- Restarted and handled 20 KMT MOP.