



Connecting you to key markets

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ESSAR
PORTS



Rajiv Agarwal

The ports industry plays a significant role in supporting growth in the Indian economy. Huge demand for cargo handling services means we are in a rapidly growing and exciting sector.

Essar Ports, which offers a comprehensive range of port and terminal services for liquid, dry bulk, break bulk and general cargo, is growing to help its customers meet that demand.

The company's sites at Vadinar, Hazira and Salaya are strategically located in the west coast of India, in the state of Gujarat. These are well connected to state highways and will have connectivity to the railway network.

Its two sites at Paradip are located on the east coast of India, in the state of Odisha, to service mineral and metal-rich eastern India. These are well positioned to service cargo for the steel and power industries.

We are focused on developing assets that are environmentally friendly and offer world-class infrastructure. Essar Ports has an exemplary track record in health, safety and the environment. The company contributes significantly to the development of local communities.

We can help you to connect to your key customers.

Overview

The Essar Group is a global conglomerate and a leading player in the sectors of Steel, Energy (Oil & Gas and Power), Infrastructure (Ports, Projects & Concessions) and Services (Shipping, Telecom, Realty and Business Process Outsourcing). With operations in more than 25 countries across five continents, the group employs 75,000 people and has revenues of over US\$ 27 billion.

Essar Ports has three operational all-weather, deep-draft terminals at Hazira and Vadinar on the west coast, and Paradip on the east coast of India.

The Hazira facility has 30 MMTPA of dry bulk and break bulk cargo handling capacity. Vadinar has capacity of 58 MMTPA for liquid cargo and Paradip has an iron ore berth of 16 MMTPA.

Essar Ports is currently developing a coal berth terminal of 14 MMTPA at Paradip, and a dry bulk terminal at Salaya, on India's west coast, with a capacity of 20 MMTPA. Essar Ports is expanding its Hazira terminal capacity by 20 MMTPA taking its capacity to 50 MMTPA.

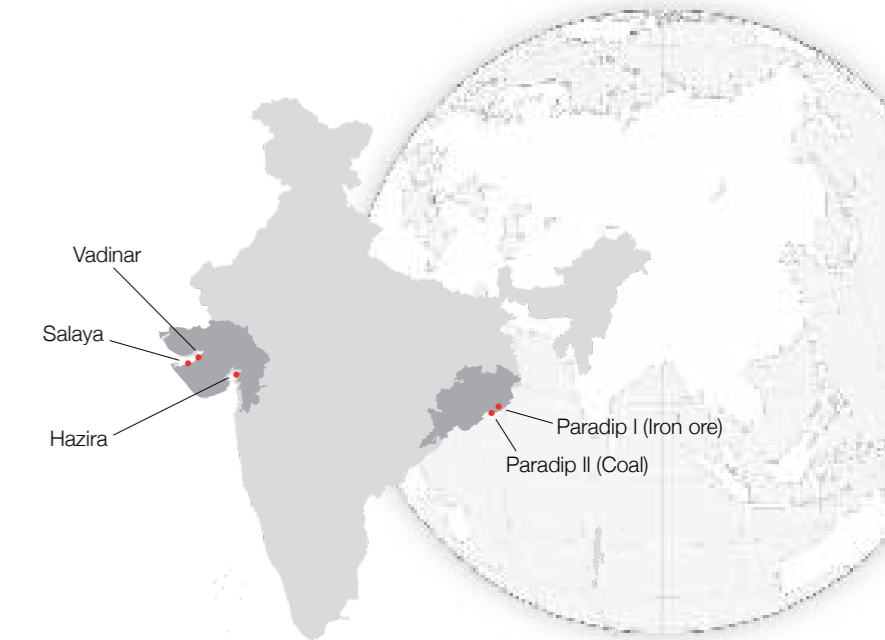
158

MMTPA
**total capacity
post expansion**

Essar Ports is one of India's largest ports companies.

Its current capacity of 104 MMTPA will be expanded to 158 MMTPA by 2014.

Essar Ports Limited is listed on the Bombay Stock Exchange (BSE) and the National Stock Exchange of India (NSE).



Hazira, Gujarat



Vadinar, Gujarat



Paradip, Odisha



Salaya, Gujarat

30 MMTPA
operational capacity

20 MMTPA
under construction

The Essar Bulk Terminal is an all-weather deep-draft terminal located in the Gulf of Khambatt, on the outskirts of Surat in Gujarat. The terminal has a capacity of 30 MMTPA for handling dry bulk cargo and break bulk cargo which is being expanded to 50 MMTPA.

The terminal can accommodate partially loaded capesize vessels and fully loaded minicape vessels (105,000 DWT). It offers mechanised handling of bulk cargo such as iron ore, limestone and coal using gantry cranes and a conveyor system. It also handles steel products including coil, slab, plates and pipes and over dimensional cargo like project cargo.

Hazira expansion project
The Hazira terminal is being expanded to 50 MMTPA. This will include additional berth of 1100m and draft of 16m. The bulk cargo berths will be capable of direct berthing of capesize vessels.




Berth

Berth length	Draft	Ship size
550m	14m	1,05,000 DWT

Cranes

Equipment	Units	Hook capacity	Capacity
Gantry ship unloaders	3	65 MT	2,500 TPH each
Mobile harbour cranes	4	2 x 140 MT, 2 x 80 MT	

Connectivity:

-  NH-6 connects the Hazira region to NH-8 which runs from Mumbai to Delhi via Ahmedabad
-  Hazira is located approximately 18km (11miles) from the nearest rail head. Approvals for 47km (29.2miles) direct link to the Mumbai-Delhi railway line have been received
-  Surat airport is around 20km (12.5miles) away





58 MMTPA
operational capacity

Vadinar Oil Terminal is an integrated oil terminal situated at Vadinar, Gujarat. It has a capacity of 58 MMTPA and handles crude oil and petroleum products. Vadinar is one of the deepest natural draft terminals in India and it does not require any maintenance dredging. The facilities consist of an off-shore single point mooring (SPM), two jetties for handling liquid petroleum products, tanks for storage of crude oil and petroleum products and rail and road gantries for dispatch of petroleum products.

Vadinar storage facilities for 3rd party customers

Crude and petroleum product storage facilities for 3rd party customers are being developed at Vadinar. These will utilise the existing marine facilities including the SPM and product jetty and land evacuation facilities consisting of rail and road gantries. The plan is to develop Vadinar, which lies in one of the world's largest refinery hubs, as trading hub for crude and petroleum products.

Marine facilities

Facilities	Jetty length	Draft	Capacity
Jetty A	305m	20m	7 MMTPA
Jetty B	295m	16m	7 MMTPA
SPM	NA	32m	27 MMTPA




Storage facilities

Facilities	No. of units	Capacity
Crude storage tanks	13 and 3 slop tanks	1,136,800 KL
Product storage tanks (liquid and gaseous products)	86	1,367,438 KL
Intermediate tanks	37	618,500 KL
Total	139	3,122,738 KL

Land evacuation facilities

Facilities	Total number	Capacity
Rail Gantries	1	5 MMTPA
Road Gantries	6	5 MMTPA

Connectivity:

-  All the facilities, except the marine oil terminal, are located within the Essar Oil Refinery which is adjacent to the four-lane state highway (SH-25). Road gantries are connected to SH-25
-  A 12.5km (7.7miles) spur line connects the rail gantry to Modpur railway station
-  Distance to Jamnagar 47km (29miles)

VADINAR
Oil Terminal

PARADIP

Iron Ore

Essar Bulk Terminal Paradip is an all-weather deep-draft terminal at Paradip Port Trust in Odisha. This is an existing terminal which has been mechanised to 16 MMTPA capacity for faster export of dry bulk cargo.

The terminal can handle vessels up to 105,000 DWT and can export dry bulk cargo including iron ore pellets, coal, dry bulk and other ores through a mechanised handling system using conveyors and a ship loader.

Berth

Berth length	Draft	Ship size
230m	14m	1,05,000 DWT

Cranes and Conveyor System

Equipment	Units	Capacity
Ship loader	1	4,500 TPH
Conveyor system	1	5,000 TPH

Connectivity:



Paradip Port is connected to national highway NH-5A



Paradip Port is connected by rail to the main railway line



Nearest airport is at Bhubaneswar, which is 122km (69miles) away



16

MMTPA
operational capacity

14

MMTPA
under construction

Essar Paradip Terminals is a new all-weather deep-draft terminal being developed at Paradip Port Trust in Odisha to handle coal.

The terminal will have an initial draft of 17.1m which will be subsequently increased to 20m. It will accommodate vessels up to 170,000 DWT. It will be one of the deepest terminals in India to handle bulk cargo and will feature a highly mechanised coal handling system.

The capacity of the terminal will be 14 MMTPA and all existing non-mechanised terminals will stop handling import of coal at Paradip Port Trust once this terminal becomes operational.

The terminal is strategically located close to the integrated steel plants of SAIL, Tata Steel, Jindal Steel & Power Ltd., Bhushan Steel and Visa Steel. It is also close to several thermal power plants using imported coal to blend their fuel.

Project status: All necessary project approvals including Environment and Forest clearances have been granted. A concession agreement with the Paradip Port Trust has been signed.

Berth

Berth length	Draft	Ship size
370m	17.1m	1,70,000 DWT

Cranes and Conveyor System

Equipment	Units	Capacity
Ship unloaders	2	2,500 TPH each
Conveyor system	2	2,500 TPH each

PARADIP

Coal Bulk

SALAYA

Bulk Terminal

Essar Bulk Terminal Salaya is an all-weather deep-draft terminal at Salaya in the Jamnagar district of Gujarat. The jetty is located in the Salaya Harbour, which is naturally protected by two islands Kalubhar Tapu and Dhani Be.

The terminal will have capacity of 20 MMTPA. It will offer facilities for import and export of coal and other dry bulk cargo. The draft at the channel and terminal will be 14m capable of handling minicape vessels (105,000DWT).

Project status: Construction is in progress. Part of the stockyard is complete. Berth construction is complete and all major equipment including ship unloaders, ship loaders and stacker cum reclaimers are onsite.

Berth

Berth length	Draft	Ship size
385m	14m	1,05,000 DWT

Cranes and Conveyor System

Equipment	Units	Capacity
Screw-type ship unloader	2	2,500 TPH each
Ship loader	1	1,500 TPH
Conveyor system	1	5,000 TPH

Connectivity:



Connected to state highway SH-25 which runs from Rajkot to Okha



Nearest railway station is 15km (9.3miles) from the terminal in the Jamnagar-Okha line, rail connectivity to the terminal is in progress



Jamnagar Airport is 45km (28miles) away



20
MMTPA
under construction

Essar companies adhere to stringent Health, Safety & Environment standards wherever they operate. Essar Ports are managed in ways that minimise environmental impact and ensure the safety of all.

Essar Ports subscribes to a group-level sustainability strategy that drives continual improvement.

Essar Ports facilities have received the following accreditations:



- Gold Award for Occupational Health & Safety from The Royal Society for Prevention of Accidents (RoSPA), UK



- Awarded 5 Star certification by British Safety Council for health and safety
- Awarded Sword of Honour by British Safety Council for health and safety



- ISO 9001:2008 certification for Quality Management
- ISO 14001:2004 certification for Environment Management
- ISO 28000:2007 certification for Security Management
- Awarded 5 Star certification for Environment Management System; the first facility to get a double five star in its very first audit
- ISO/TS 29001:2007 certification for Quality Management - Petroleum Sector



- OHSAS 18001:2007 certification for Occupational Health



- Greentech Award for Safety Management



Essar positively impacts the lives of all stakeholders including employees and the communities living close to its facilities. Community initiatives aim to enhance livelihoods through programmes focused on entrepreneurship, education, empowering women, infrastructure, environment and health.

It sees involving community leaders as key to success. Essar has also made significant financial contributions during national disasters such as earthquakes and tsunamis.

Essar has transformed Hazira and Vadinar and their neighbouring areas by planting thousands of trees and laying water pipelines. Essar companies generate direct and indirect employment for thousands of people in Gujarat.

Initiatives at Hazira include:

- A water pipeline to carry 0.7 million cubic metres of drinking water everyday to the villages near Hazira
- Weekly recreational programmes for children between the ages of 9 and 12
- Subsidised medical care at the Essar Hospital at Nand Niketan
- Subsidised education facilities at Nand Vidya Niketan for children of nearby communities
- Infrastructure development including an overhead water storage tank at Matafalia village.

Initiatives at Vadinar include:

- Deepening of two major wells for rainwater harvesting
- Water tankers sent to local villages to help deal with water shortages
- Renovation of school buildings
- Provision of more than 150,000kg of fodder to farms in 14 surrounding villages
- Mobile clinics have benefitted more than 12,000 patients from 10 surrounding villages
- A 24-hour Essar Community Health Centre provides three doctors, three paramedics, an ambulance and a full-fledged laboratory.