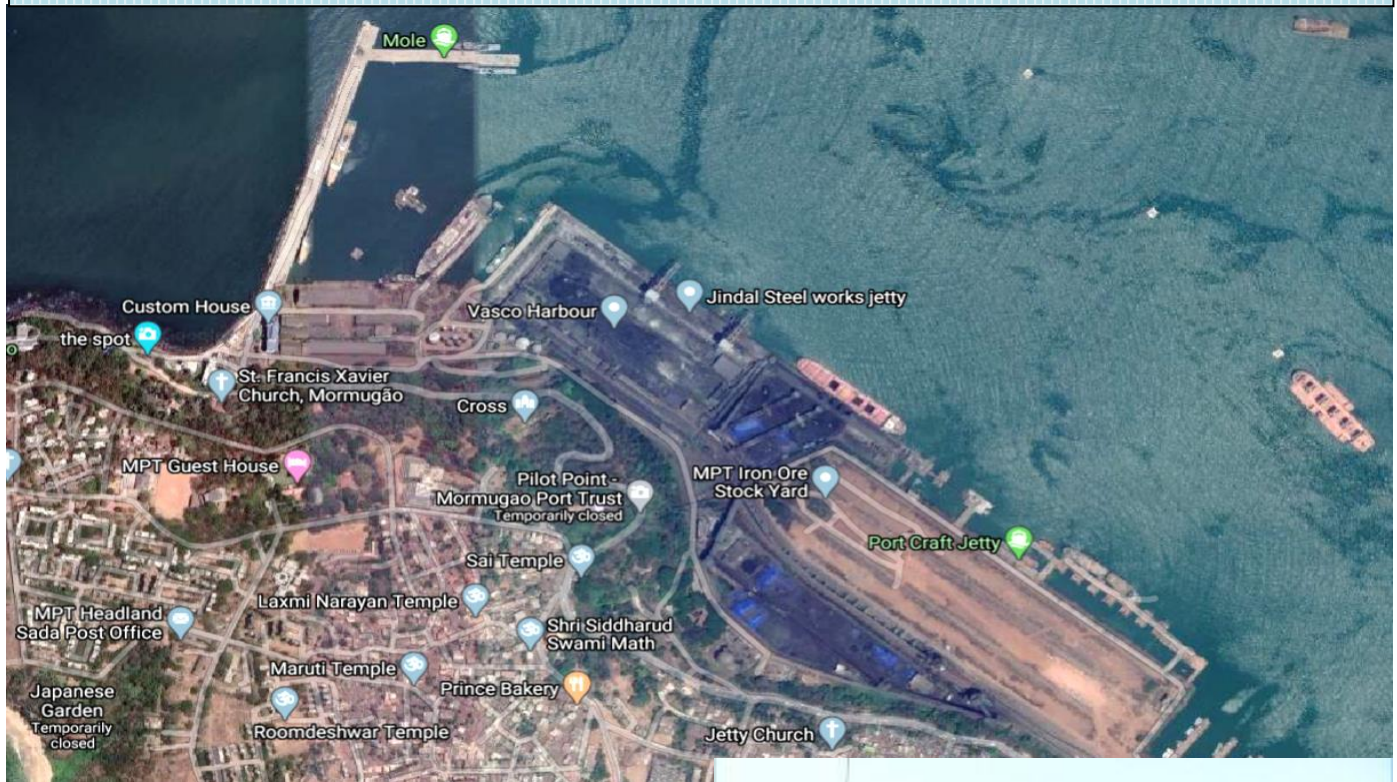


**South West Port Ltd., (JSW Group)
Mormugao Harbour, Goa, India**

IN-MOTION WAGON LOADING SYSTEM AND NECESSARY MODIFICATIONS AT THE EXISTING COAL TERMINAL AT BERTHS 5A & 6A OF MORMUGAO PORT, GOA, INDIA



Involves:

- **Planning and Preparation of Conceptual Drawing including Feasibility Report, introducing In-Motion Wagon Despatch System for Imported Coal**
- **Integration and Enhancement of the Existing System**
- **Preparation of Tender Documents and assisting Client to appoint Suppliers / Contractors.**
- **Preparation of Construction Drawings, review of submittals, etc.**



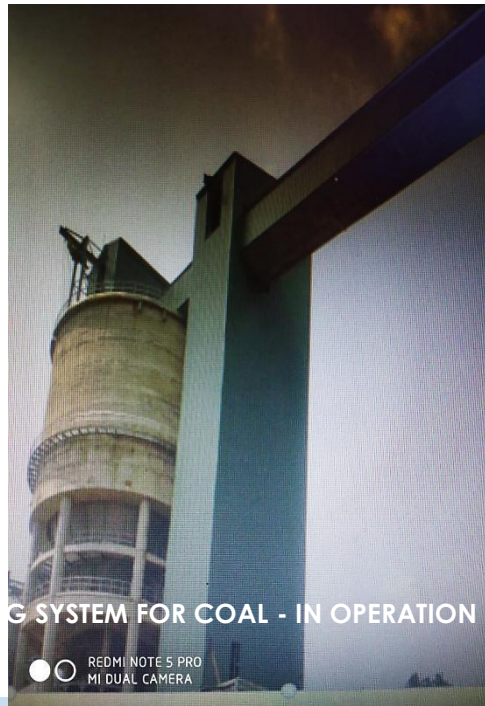
The Existing Coal Import Terminal of JSW South West Port Ltd. at Berths 5A & 6A of Mormugao Port was operating with wagon loading arrangements keeping the railway rake stationary. Grafix engineered the addition of the In-motion Wagon Loading System integrated with the existing terminal. The additions included:

- Pipe Conveyor
- Silo, including construction drawings
- In-Motion Wagon Loading System
- Modification of the existing system, including detailed engineering

Grafix prepared the tender packages and specifications for the necessary additions and

modifications to the existing facility and reviewed the Contractor's designs in detail.

Grafix continued to be involved with further development plans for the Terminal by preparing a Feasibility Report for enhancement of its capacity, increase in ship size to vessels of the Cape category and to explore the introduction of Iron Ore, Limestone and other Bulk Cargo imports by proposing alterations and additions to the existing Coal Handling Facilities. Engineering proposals were made to enable the facility to handle 9 to 10 MTPA of Coal, or 12 to 13 MTPA of Iron Ore using common facilities which also handled Steel Products at the berth, back-up area and rail siding.



IN-MOTION WAGON LOADING SYSTEM FOR COAL - IN OPERATION

● ○ REDMI NOTE 5 PRO
MI DUAL CAMERA

**ELEVATED PIPE CONVEYOR
CROSSING OVER 'OTHER FACILITIES' FOR SILO FEEDING**

