

# Paradip International Cargo Terminal (PICTPL – JM Baxi Group)

# DEVELOPMENT OF CLEAN CARGO TERMINAL AT PARADIP PORT, ODISHA, INDIA



#### Overview:

The **J M Baxi Group**, Mumbai, India, through a special purpose vehicle (**PICTPL**) under a concession agreement with Paradip Port Trust, developed a green-field Multipurpose Clean Cargo Terminal for containers, steel products and specific clean bulk cargo at Paradip Port, India..

### **Project Features:**

• Berth: 450 m Length

• Berth: 450m Length with 200m expansion provision

Container Yard : 48535 sq.m.Hazardous Area : 5140 sq.m.

• Fertilizer Warehouse: 2100 sq.m.

Rail Siding: Four full rakes to handle unitised cargo and bagged cargo

## The Assignment

- · Preparation of Master Plan.
- Preparation of DPR.
- Preparation of Tender Documents and assisting Client to appoint Suppliers / Contractors.
- Coordination with Independent Engineer.

Steel Yard : 12200 sq.m.

- Gate Complex
- Power Distribution System:
- Fire Fighting and Services
- Functional Buildings, Roads, Drainage and boundary structures

[ Year Completed: 2018 ]

- Coordination with Railway Consultants.
- Planning of reclamation, filling & consolidation.
- Preparation of Construction Drawings, review of submittals, etc.
- Assisting Client in discussions with the Port Authorities and other agencies.

# **Key Challenges and Bespoke Engineering**

A virgin dock arm was dredged at the existing harbour to locate a new berth with an isolated low lying undeveloped backup area. The entire infrastructure, including berth, rail track, electricity, etc., needed to be created in a wedge shaped limited space with presence of clay in the subsoil. A clean environment was mandatory under the Concession Agreement.

Grafix introduced appropriate solutions to suit the site within the space constraints.

- a. Berth size and alignment was firmed up to maximize efficacy within the available waterfront.
- b. The dead ends at the railway siding were planned to eliminate locomotive track switching.
- c. The gate complex was split to accommodate railway, warehouse, offices, and operational logistics.
- d. Systems and equipment were planned in detail to address a wide mix of discrete and continuous cargo handling needs.



e. Basic and Detailed Engineering of civil works, MEP and Cargo Systems were undertaken with Independent Engineer's approval at relevant stages.











- 1 A Panoramic View
- 2 Berth under construction
- 3 Berth Return Wall under construction
- 4 Container Yard, etc., under preparation
- **5** Gate Complex
- 6 Mobile Harbour Crane after LoLo
- **7** Mobile Harbour Crane after LoLo
- 8 Container Yard & Back-up Area
- Warehouse







