

**EXPANSION OF GANGAVARAM MARINE WORKS
GANGAVARAM PORT, VISAKHAPATNAM, ANDHRA PRADESH, INDIA**

EPC Contractor : ITD Cementation India Ltd., Kolkata



[Year Completed: 2014]

Overview:

Grafix was appointed by M/s ITD Cementation India Ltd., who was the EPC Contractor for expansion of the marine works, to Gangavaram Port for

- a. Preparation of alternative engineering layouts and basic design of berths suitable for 180,000 DWT ships
- b. Selection of the cost-effective alternative in consultation with ITDC based on the construction methodology to be adopted
- c. Detailed design
- d. Preparation of the construction drawings and BOQs
- e. Assisting ITDC to take IE's and Port's approval
- f. Preparation of as built drawings

Involves:

- Design and Preparation of DBR
 - Detailed Engineering of 3 Berths for Handling Coal and Multipurpose Cargo
 - Taking Independent Engineer's (IE) approval
 - Preparation of Construction Drawings of Marine Structure (Berths)
- o Design Dredged Level : (-)20.5m w.r.t. Chart Datum
 - o Type of Construction : In-situ beams with pre-cast / in-situ slab
- b. Berths 7 & 8 (for Multipurpose Cargo)
 - o Ship size : upto 80,000 DWT
 - o Berth size : 235m x 27m & 248m x 27m respectively
 - o No. of Piles & Diameter : 113 Nos and 93 Nos & 1.2m dia. dia bored cast in-situ piles
 - o Design Dredged Level : (-)15.5m w.r.t. Chart Datum
 - o Type of Construction : In-situ beams with pre-cast / in-situ slab

Details:

a. Berth 6 (for Coal)

- o Ship size : upto 200,000 DWT
- o Berth size : 350m x 25m
- o No. of Piles & Diameter : 135 Nos & 1.35m dia bored cast in-situ piles



MULTIPURPOSE CARGO BERTH UNDER CONSTRUCTION
(Involved only for Berth Design and Preparation of Construction Drawings)



COAL BERTH UNDER CONSTRUCTION
(involved only for Berth Design and Preparation of Construction Drawings)

