



Indian Iron Ore Loading Ports

wss.mineralteam@wilhelmsen.com

| Port: | CHENNAI | PARADIP | MARMUGAO (GOA) | NEW MANGALORE | VISHAKAPATNAM | HALDIA | KRISHNAPATTNAM | ENNORE | KAKINADA |
|---------------------------------|---|--|--|---|---|---|---|--|---|
| Terminal / Berth: | BHARATHI DOCK TERMINAL / BD-2 | MECHANICAL & GEN CARGO BERTHS | BERTH # 9 , ANCHORAGE E LOADING VIA TRANSHIPPERS, MOORING DOLPHINS | BERTH # 14 -- 02 BERTHS OUT OF NINE MANUAL & MECHANICAL BERTHS | OB-1 & OB-2 (MECH BERTHS) , WQ-1 - WQ-5 (MANUAL BERTHS) | RIVERINE BERTHS DEPENDING ON HOOGHLY RIVER DRAFT | BERTHS 1 - 6 & Anchorage loading | ONLY ANCHORAGE LOADING | ONLY ONE DEDICATED BERTH |
| Position: | Latitude - 13° 06' N Longitude - 80° 18' E | Latitude : 20 deg 15' 55 44" N ; Longitude : 85 deg 40' 34.82" E | Latitude : 15°25'N . Longitude : 73°47' E | Latitude: 12 deg 55' N . Longitude: 74 deg 48' E | Latitude: 22 deg 52' N . Longitude: 17 deg 13' E | Latitude : 22 deg 02'N Longitude: 88 deg 05' E. | Latitude : 14 deg 15' N . Longitude: 80 deg 05'E | Latitude - 13° 06' N Longitude - 80° 18' E | Latitude : 17.0 00'16" N Longitude : 82.0 20'48" E |
| Location: | Along southeast coast of india , in Tamil nadu state | Along east coast of india in Orissa state, 280 nm from Vizag | Along west coast of india , in GOA & at anchorage | West coast of india, 170 nm south of mormugao & 191 nm north of Cochin port | Along east coast of india , in Andhra Pradesh state | Along east coast of india near kolkata(west bengal state) | East Coast of India in Nellore District of Andhra Pradesh, 180 kms. North of Chennai. | Along southeast coast of india, 30 km north of Chennai | Kakinada deepwater port is located on the east coast,350 kms south of vizag |
| Owner: | Chennai Port Trust | Paradip Port Trust | Marmugao Port Trust | Mangalore Port Trust | Vizag Port Trust | Kolkata Port Trust | Krishnapatnam Port Company Ltd. | Ennore Port Ltd | Kakinada Seaport Ltd |
| Operator: | Chennai Port Trust | Paradip Port Trust | Marmugao Port Trust | Mangalore Port Trust | Vizag Port Trust | Kolkata Port Trust | Krishnapatnam Port Company Ltd. | Ennore Port Ltd | Kakinada Seaport Ltd |
| Working Hours: | 24 hours | 24 hours | 24 hours | 24 hours | 24 hours | 24 hours | 24 hours | 24 hours | 24 hours |
| Water Density: | 1.025 | BRAKISH WATER 1.012 TO 1.018 | 1.020 TO 1.025 | 1.019 | 1.018 To 1.024 | RIVER - 1.001 / A/SIDE BERTH 1.000 | 1.025 | 1.025 | 1.025 |
| Stowage Factor: | 11 /14 per CFT Per long Ton. | 2.0 - 2.2 MT / CBM | 0.39 MTCBM FOR IORE FINES & 1.8 MT CBM FOR IRON ORE LUMPS | IOP: 15 TO 16 CFT/MT AND IOC: 12 TO 13 CFT/MT | 1.8 MT TO 2.2 MT / CBM | 2.2 MT / CB M | 1.9- 2.1 MT / CBM | 2.0 - 2.2 MT . CBM | 2.4 MT / CBM |
| Maximum Ship Dimensions: | | | | | | | | | |
| LOA | 280.4 M | 260 M | 335 M | 225 M | 270 M | 240 M | 300 M | NA | 190 M |
| Beam | No Restriction | 34.5 M | 50 M RECOMMENDED VIEW MAX OUTREACH OF SHIP LDERS BEING 21.5 M | 32 M & Also no restrictions | 42 m max & 32.2 m MIN | 32 M | 35 M | NA | 32.4 M |
| Draft | 16.7 M | 12.50 MTRS. We are in a position to get special prior permission from Harbour Master of 13.0 M | 13.0 M ON HW DURING FAIR SEASON | 12.5 M | 16.5 M | As per draft forecast | 13.0m (assured loading 12.70m only) | 14.0m | 11 M |
| DWT | 140,000 | 80,000 | MIN 25000 & MAX 275000 MT | 65,000 | 150,000 | MAX. 30,000 | 72000 | 50000t | 60000 t |
| Displacement | 100000 + | 80,000 | NO RESTRICTIONS | 70000 | NO RESTRICTIONS | 65000 | 90000 | NA | 70000 |
| Airdraft: (at Datum) | 16 M | 14.3 M | 19.5 M | NO RESTRICTIONS | 16 M | 15 M | NA | NA | 12 - 12.5 M |
| Berth Length: | 290MTRS | 225 M | 335 M | 350 M | 270 M | 194 M | 1800 m together with 6 berths | NA | 210 M |
| Depth Alongside: at LW | 17.0 MTRS | 14 M | 13.7 M BELOW CHART DATUM | 13.5 M with 1 m tide | 17 m | 13 M | 14.0m | NA | 10.5 M |
| Tide Range: | Normal | 1.50 MTRS. TO 2.90 MTRS. | SPRING 2.3 M & NEAP IS 1.0 M | ONLY DURING MONSOON SEASON VSL WILL HV TO WAIT FOR THE HIGH TIDE RANGE ABT 1 TO 1.5MTRS | 0.32 To 1.5 MTS | Normal | The tides at port are semi diurnal in nature. The mean tidal variation is about 0.7m at spring tides and 0.3m at neap tides | Normal | 0.5 tide range |
| Loading Facilities: | Mechanical Loaders | Mechanical loaders via shore loaders ; for manual loading-vsl should have min 20' 25 t SWL | Mechanical loaders , Transhippers & Mooring dolphins | Mechanical Single chute type boom loader | One Mechanical loader | O2 Shore loaders , but crane preferred from ship / shore | 2 electric crane of 100tons fitted with 35 cbm grab. | Ship crane fitted with ship grab only | 01 shore crane pvt owned |
| Travel: | Length - 300 mtrs. | 170 M length | NA | 180 mtrs length | 5.5 kms | 190 M | 1800 m together with 6 berths | NA | Yes, only middle to south berth |
| Outreach: | abt 20 mtrs. | 14 MTRS. | MAX OUTREACH OF SHILOADERS IS 21.5 MTRS | 32 mtrs | abt 25 M | 20 M | 35 M | NA | about 30 M |
| Load Rate: TPH | Loading by mechanical loaders. Loading rate /day is 25000MT | 1000 MT. PER HOUR | AVERAGE LDRATE IS 30000 MTPD FOR THE VSLs OF 25-40000 DWT. 50000 MTPD OF 45-70000 DWT AND 60000 MTPD OF 70-100000 DWT. | 2500 TO 3000 MTS PER SHIFT/ GANG | 4000MTS/HR | 10,000 - 15,000 mt pwwd agw | 25000 - 30000 t per day by shore crane | 10000 t per day sagw wp | 20000 mt / day by shore crane |