

## MORMUGAO PORT TRUST

### a) Mormugao Port provides shore power supply at following locations:

Sr. No.	Location of Berth	No. of Points	Maximum Power which can be supplied.	Voltage and frequency
1.	Breakwater Berth	2 nos.	400 KVA (200 KVA x 2 nos.)	440V, 50 Hz, 3 phase
2.	Mole Berth	1 no.	200 KVA	440V, 50 Hz, 3 phase
3.	Berth No. 8	3 no.	360 KVA (120 KVA x 3 nos.)	440V, 50 Hz, 3 phase
4.	Berth No. 10	1 no.	200 KVA	440V, 50 Hz, 3 phase
5.	Barge Unloader Jetty 2	1 no.	160 KVA	440V, 50 Hz, 3 phase
6.	Barge Unloader Jetty 3	1 no.	120 KVA	440V, 50 Hz, 3 phase
7.	Berth no. 4	1 no.	200 KVA	440V, 50 Hz, 3 phase

### b) Preparation and Procedure at the dock before taking shore power supply by ship :

- Check the cable drawn to ship for providing shore supply is in working condition.
- Check the insulation resistance (IR value) of the cable provided for the shore supply.
- Check the insulation resistance of the shore supply box.
- Check the polarity of shore supply using a voltmeter.
- Check and ensure the frequency and voltage of shore supply are matching with the specifications required by the ship.
- Check the phase sequence of the shore supply using phase sequence tester.
- Check the tightness of the shore cable connector clamp to ensure they are not loose.
- Ensure to display notice near the vicinity of ship's receiving terminal box about cable in use.
- Check and ensure the ship's generators are disconnected from the Main Switch Board of the ship.
- A responsible officer must check and record the energy meter reading provided on shore side.
- Ensure ship's hull is earthed to the shore before supplying shore power to the ship.

#### **Taking the Shore Supply :**

Once all above checks are carried out by ship's engineer are found satisfactory, the ship is ready to take the shore power supply by charging the breaker.