

* 1

TECHNICAL SPECIFICATION

1. Scope of Work.

Mormuago Port Trust has 11 Berths including one no Oil Berth handling POL products and Ammonia. As per Oil Industry Safety Directorate Standard 156 for Fire Protection Facilities for Port Oil Terminals, Fire Tenders is one of the requirements to provide a reasonable level of protection from loss of life and property from fire and explosion at Port Terminal handling POL products and Hydrocarbons.

At present Port is having one Fire Tender and the proposed Fire tender will carry out service along with the existing one. The crew members on the proposed fire tender will carry out work as per safety norms during the contract period in Port areas and if required the same will be extended to outside Port areas with the permission of the Fire Officer/MPT.

2. Technical Specification.

(i) Fire Tender specification

1. Fire Tender (Water cum Foam) as per IS: 10460 –shall be in good working condition and model of **not earlier than April 2015** with centrifugal high cum low pressure Fire pump having discharge capacity of 4000 LPM at 8 kg/cm² pressure and 300 LPM @ 30 Kg/Cm² pressure with priming system, with 140 mm suction inlet and 4 X 63 mm delivery outlets, high pressure hose reels with high pressure gun – 2nos. ,heavy duty full torque Power – Take-Off unit, Water Tank of 4500 liters , Foam Tank of 2000 liters capacity with water & foam level indicator, internally fitted with DCP system of 2 x 75 Kg capacity , Long rang Foam cum Water monitor (3000 LPM with aqua jet nozzle), Open circuit type indirect cooling system, Foam proportioning system, Siren, Battery operated P.A. System, fire bell, 12 V Battery Charger, Foam transfer pump (Semi rotary type - manual).

2. Accessories

2

No.	Description	Qty.
1.	10.5 mtrs Aluminum double extension ladder, shall be in good condition	1 No.
2.	63mm X 15 mtrs flexible Fire Fighting Delivery Hoses with male and female coupling.	10 No's
3.	Suction strainer (shoe type) 140 mm size	1 No.
4.	Basket strainer (cylindrical type)	1 No.
5.	Long line 50 mm manila, 30 m long (IS:1084)	2 length
6	Short line 50 mm manila, 15m long (IS:1084)	2 length
7	Self Contained Breathing Apparatus (SCBA) sets with one spare air cylinder of 45 min. duration of 6 ltrs. 300 bar pressure shall be CE marked to EN 137 & face mask to EN 136 CL3/ 111. Air cylinder & its value shall have NOC from CCE – Nagpur.	2 Set
8	Aluminised asbester suit	2 Nos.
9	First aid box for 10 persons duly Saint John Ambulance Association approved.	1 No.
10	Rubber gloves with case : (IS : 4770)	5 Pairs
11	Axe, large (IS : 703)	1 No
12.	Spade	1 No
13	Pick axe (IS : 273)	1 No
14	Crow bar (IS : 704)	2 No
15	Sledge hammer 6.5 kg (IS : 841)	1 No
16.	Carpenter's saw 60 cm (IS : 5098)	1 No
17	Hydraulic jack – 16 tone	1 No
18	Fire hook (IS: 927-1964)	1 No
19	FB 5 X (Foam Making Branch)	2 No's
20	Tool Kit	1 No
21	Multi purpose hand held nozzle (made of light alloy extruded construction conf. to 64430 –WP grade, twist type control for straight jet, spray, and wide angle fog)	2 No's.

ii) Manning Pattern

Sr. No	Category	Duty Pattern	No	Qualification
1	Leading Fireman – One in each shift	12 Hrs	2	1. Academic qualification: 12 th Pass. 2. One year diploma in fire & safety. Minimum 2 years industrial experience. 3. Capable of conducting all types fire drills and lead the fire team.
2	Driver – One in each shift	12 Hrs	2	1. Matriculation. 2. Six month Fireman Course with recognized institute. 3. Possession of valid Heavy driving license and at least 3 years experience in driving of heavy motor vehicles and minimum 1 year experience of driving Fire Tender. 4. Experience of handling Centrifugal pump
3	Fireman – Four in each Shift	12 Hrs	8	1. Matriculation 2. Six month Fireman Course with recognized institute with minimum 1 year of industrial experience.
4	Mechanic – One in each shift	12 Hrs	1	ITI or Diploma in Automobile from recognized Institution. Minimum experience one year.

Note: Reliever for Weekly **off** may be arranged by the contractor. Uniforms/ General PPEs for Fire Crew shall be provided by the Contractor.

Shift Timings

1st Shift 0600 to 1800 hrs

2nd Shift 1800 to 0600 hrs (next day)

iii) Other Conditions

- 1) The Fire Tender (Water cum Foam) shall be deployed for operation in Mormugao Port within **30 days from the date of receipt of order**. After due verification and satisfaction of the above conditions the contractor will be allowed to deploy the Fire Tender.
- 2) In addition to supply and operation of the Fire Tender the charges for Insurance, Road Tax, lubrication oil, repairs, driver and cleaner's salary, preventive maintenance servicing and consumables are to be fully borne by the contractor.
- 3) The Mormugao Trust will provide free parking area for the Fire Tender.
- 4) The contractor shall also provide entry passes to their deployed personnel at his own cost.
- 5) The contractor should keep one First Aid box with required medicines etc.
- 6) The contractor is advised to take necessary insurance at his own cost for the Fire Tender and his employees, materials and machineries etc.
- 7) 3rd Party Inspection: The fire tender shall be certified by a IRS or equivalent agency before deployment. However contractor shall carryout the inspection from IRS or equivalent on every year for certification. The cost for the certification by IRS or equivalent shall be borne by the contractor.

A. S. P. S.
