

**FIRE FIGHTING SYSTEM DETAILS AT OIL BERTHS AT NMPT**

Description	OISD Requirement	Berth 10	Berth 11	Berth 12	Berth 13
Fire water design requirement	600 m3/ hrs for water/ foam monitors ( 2 tower monitors X 5000 lpm)	Tower monitors (2 nos. x 5000 LPM) provided.	Tower monitors ( 2 nos. X 6000 LPM) provided.	Tower monitors ( 2 nos. X 6000 LPM) provided.	Tower monitors ( 4 nos. X 6000 LPM) provided.
	600 m3/ hrs for hydrant & water curtains ( 2 Jumbo nozzles X 5000 lpm)	8 x 1.5" (690 LPM each) and 9 x 1" (362 LPM each) 8778 LPM in all	18 x 1" (362 LPM each) 6516 LPM in all.	16 x 1" (362 LPM each) 5792 LPM in all	64 X 1 " ( 362 LPM)
Jockey pump capacity		25 m3/ hr	54 cu.m/hr	54 cu.m/hr	54 cu.m/hr
Foam System	2 X 5000 lpm Tower foam monitor + 2 X 2400 lpm base foam monitor  <u>Foam calculation</u> = 14800 X .03X 60 = 26640 litre	Tower monitors (2 nos. x 5000 LPM) Ground monitor (1 No.x5000 LPM)  As per calculation requirement is ( 15000 X .03 X 60) =27000 litre	Tower monitors ( 2 nos. X 6000 LPM) Ground monitor (1 No.x 3000 LPM)  As per calculation requirement is ( 15000 X .03 X 60) =27000 litre	Tower monitors ( 2 nos. X 6000 LPM) Ground monitor (1 No.x 3000 LPM).  As per calculation requirement is ( 15000 X .06 X 60) =54000 litre( since 6% foam is available)	Tower monitors ( 4 nos. X 6000 LPM) Ground monitor (2 No.x 3000 LPM)  As per calculation requirement is ( 18000 X .03 X 60) =32400 litre.
Foam Pump Capacity		54 Cu.m /hr @ 18 kg/cm2 X 2 nos pumps available	27 Cu.m /hr @ 17 kg/cm2 X 2 nos pumps available	54 Cu.m /hr @ 17 kg/cm2 X 2 nos pumps available	28 Cu.m /hr @ 17 kg/cm2 X 2 nos pumps available
Extinguishers	6x10 kg. DCP extinguisher	1 X 5 kg, 2 X 10 kg, 2 X 20 Kg	2 X 10 Kg, 2 X 20 Kg	4 X 10 kg, 2 X 20	12 X 10 Kg, 4 X 5 Kg
	4x75 wheeled DCP	4 X 25 kg, 2 X 50 Kg	4 X 25 Kg, 2 X 50 kg	4X 25 Kg, 5 X 75 kg	4 X 75 Kg
Jockey pumps / Booster Pumps		2	2	2	2
International shore connection	minimum 1 per berth	1 No.	1 No.	1 No.	1 No
Hydrant	Single headed		3	3	9
	Double headed	16	16	12	16
Fixed water spray system	To be provided for all jetties handling more than 20,000 DWT		2 No.	2 No.	2 no.
Gas Detectors	as per requirement	4	4	4	4
Flame Detectors	as per requirement		10	10	10