

78M PLATFORM SUPPLY/ OIL RECOVERY VESSEL

<p>Classification: BV 1 +HULL +MACH SUPPLY VESSEL OIL, PRODUCT (FP-60 DEG C) LHNS, FIRE-FIGHTING SHIP 1 WATER SPRAYING, OIL RECOVERY SHIP SPECIAL SERVICE - SPECIAL PURPOSE SHIP, UNRESTRICTED NAVIGATION, +DYNAPOS AM/AT R. INWATERSURVEY, AUT-UMS</p> <p>Dimensions: Length, o.a. abt: 78.00m Length B.P. 70.20m Beam moulded 18.60m Depth moulded 7.80m Draft scantling 6.00m Draft scantling 6.40m Max Deadweight: about 4,000 t Deck cargo space: Aht. 800 m2 Deck design load 7.5 t / m2</p> <p>Tank capacities: Potable water: 600 m3 Fuel oil (Incl. cargo) : 1,200 m3 Cargo fuel oil: 650 m3 Drill water / Water ballast : 1,250 m3 Dry bulk cargo tanks: 300 m3 Mud / Brine (SG 2.5) : 800 m3 Rec. oil : 1,000 m3 Base oil : 200 m3 Methanol / Chemical: 200 m3</p> <p>Accommodation(Total : 60 men): 8 x 1-berth cabins : 8 men 4 x 2-berth cabins : 8 men 11 x 4-berth cabins : 44 men</p> <p>Performance Speed: 13 knots at 100%MCR at ballast draft of 4.7m, and sea state two (2)</p> <p>Flag: Malaysia or Convenience flag</p>	<p>Main Engine: Nilgata 2 x 3,000 PS each, medium speed/front PTO for fire pumps and shaft generators. Run on MDO,air start</p> <p>Propeller: Nilgata , 2*Z-peller;FPP</p> <p>Main Generator Set: CAT, 3 x 550KW, diesel driven,450/3/60</p> <p>Shaft alternator: Leroy Somer 2 x1100kw,450/3/60,driven by M/E PTO</p> <p>Emergency Generator: CAT, 99kw @ 1800 rpm, radiator air cooled, 450/3/60</p> <p>Bow Thruster: 2*CPP Thruster, 14tonne, 940KW motor</p> <p>DP2 equipped</p> <p>DECK MACHINERY: Anchor&Chain: Two AC-14 HHP stockless anchors, each 2640 kg / Chain:550m x 46mm / Grade U3 stud-link-chain cables, / Chainstopper:2 sets</p> <p>Capstan: 2*5 tonnes at 15m/min, Elec.-Hyd.</p> <p>Tugger Winches:2*10 t SWL at 12 m / min</p> <p>Crane:1* SWL 5t-10m</p> <p>External FFI: Pumps:2*1,825 m3/hr at min. 125m, Monitors:2*water monitors, 1,200 m3/hr each,one is dual for water/foam,, foam mixer with mixing ratio 0-5%</p> <p>Fast Rescue Boat:15men/20 knots/inboard diesel engine with A-frame</p> <p>Oil Pollution Control Equipment: consisting of 2 spray booms, each of 6m length, dispersant pump 25m3/hr at 30m , proportioning metering valve 0-10%.</p> <p>Ballast Water Treatment Plant: reserved space</p> <p>Watertight sliding door: As shown in GA</p>	<p>Air compressors&receivers:22m3/h x 30kg/cm2/receiver:2 x 500 litres at 30 bar</p> <p>Reefer plugs: Four (4) 440V/3ph/50Hz and four (4) 220V/1ph/50Hz reefer plugs</p> <p>Navigation/Communication Equipment: Standard magnetic reflector compass Autopilot. 3 x Gyrocompass, with repeaters forward and aft. Radars: Two (2) daylight display color radars. Echo sounder: 200 KHz c/w transducer etc. Speed log: Doppler type, range -10 to 45 knts</p> <p>3 x DGPS</p> <p>Automatic identification system</p> <p>Weather fax receiver</p> <p>VDR</p> <p>GPS Navigator</p> <p>BNWAS</p> <p>Communication: PA / talkback System. Sound powered telephone system GMDSS Communication (Sea Area 'A3') - 1 x MF/HF, 250W, voice, DSC & NBDP. - 1 x MF/HF DSC watch keeping receiver - 2 x 25W VHF - 2 x VHF watch receiver - 4 x 2-way VHF handheld transceivers - 1 x Navtex receiver -SSAS -LRIT to IMO requirement 1 x Inmarsat 'C' is to be fitted. 1 x Inmarsat 'F' is to be fitted. EPIRB, GMDSS satellite 406 MHz EPIRB SART: 2 sets, GMDSS 9GHz</p>	<p>TV antenna: 14 outlets</p> <p>Integrated telephone / command system: 1 exchanger, 48 lines max.</p> <p>Two (2) transistorized portable loud hailer.</p> <p>Pump: Bilge & Ballast & Fire/GS Pump:2*100 m3/hr at 80 m Bilge pump:1*52 m3/hr at 25m, 1*2 m3/hr at 25m for daily bilge Fuel transfer pump:2*10 m3/hr at 20m Fresh Water & Drill Water Cargo Pump:2*100 m3/hr, @80m Cargo Oil Pumps:2*100 m3/hr@80m Mud/Brine / O.R.O. Pump:2 sets,75m3/hr discharging against 20 bar for mud of SG 2.5 t / m3, 100m3/hr discharging against 5 bar for O.R.O of SG 1.0 t / m3. Mud Agitator: Hydraulic type agitators to be installed inside mud tanks Dirty Oil / Sludge Pump: 1*5 m3/hr at 45 m Sewage Transfer Pump: 1*5 m3/hr at 30 m F.W.&S.W pressure set: 2 sets Hot Water Circulation Pump: 1*2 m3/hr at 20 m Emergency Fire Fighting Pump: 35m3/hr at 60m Methanol Pumps:2*50m3/hr at 80m</p> <p>Oil Bilge Water Separator: 2.5 m3/hr ,15 ppm.</p> <p>Sewage Treatment Plant:60men</p> <p>Fresh water maker: 10 t/day</p> <p>Purifiers:LO 800ltr/hr,FO 1,150ltr/hr</p> <p>Cargo flow meters:4 sets</p>
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Remark: All stated dimensions and quantities are approximately

1 MACHINERY PART				
No.	ITEMS (项目)	brand (品牌)	Country (产地)	Remark
1	Main engines 主机	Niigata	Japan	
2	Rudder Propeller 舵桨系统	Niigata	Japan	
3	Shaft Generators 轴带发电机	Leroy Somer	China	
4	Generating sets 发电机组	Cat	USA	
5	Emergency generator 应急发电机	Cat	USA	
6	Starting air compressors 启动空压机装置	Sperre	Norway	
7	pumps 泵浦	Azcue	Spain	
8	F.O & L.O. purifier 油 & 滑油分油机	Alfa Laval	China/India	
9	Sewage treatment plant 污水处理装置	Dete gasa	Spain	
10	Oily water separator 油水分离器	Dete gasa	Spain	
11	Water maker&U.V 造水机	HANSUN	China	
12	Fan 风机	Qingdao	China	
13	Water mist system 机舱水雾	HANS-BELL	China	
14	Fixed CO2 system 固定式CO2	UNITOR (Wilhelmsen)	Norway	
15	flowmeter 流量计	Nitro Seiko Oval Floral	Japan Japan Korea	
2 HULL PART				
2.1 MACHINERY&OUTFITTING				
No.	ITEMS (项目)	brand (品牌)	Country (产地)	Remark
1	Anchor windlass 锚机	Hydraulic promoter	Singapore	
2	Tugger winches 拖带绞车	Hydraulic promoter	Singapore	
3	Capstans 绞盘	Hydraulic promoter	Singapore	
4	Side thruster 艏侧推	Kawasaki	Japan	
5	Deck crane 甲板吊车	Jiangsu HaiTai	China	
		hengyuan	China	
		MASDA (Mitsubishi licence)	China	
6	Mud Agitator 泥浆搅拌机	PG-marine	Norway	
7	methanol pump 甲醇泵	PG-marine	Norway	
8	Bulk handling system and bulk air compressor 散料系统&水泥罐压缩机	Uniship	Japan	
9	External fire fighting 外消防	FFS	Norway	
10	Painting 漆	IP	China	
		JOTUN	China	

	漆	CHUGOKU	China	
11	Painting Methanol Tank 甲 醇舱特涂	IP	China	
		JOTUN	China	
		CHUGOKU	China	
2.2 ACCOMMODATION				
No.	ITEMS (项目)	brand (品牌)	Country (产地)	Remark
1	Air condition system& Refrigeration system & Ventilation 空调冷藏通风	IL-marine	Singapore	
		Viking	China	
2	panel ,toilet module 岩 棉板, 卫生单元	HAUU	China	
3	GALLEY AND LAUNDRY 厨房洗衣设备	Kangli	Singapore	
		Arox	Singapore	
		Nantong jinyang	China	
4	FURNITURE 木质家具	Shanghai yulan	China	
		wynn	Singapore	
5	Wipers and clear view screen 雨刮及旋转视窗			
6	Inflatable liferafts 救生筏	Shanghai Y oulong	China	
7	Rescue boat and davit 救 助艇	Vanguard	China	
8	Fire fighting , lifesaving and EEBD,Immersion suits etc. 消防 救生杂件	Various	China	
3 ELECTRIC PART				
No.	ITEMS (项目)	brand (品牌)	Country (产地)	Remark
1	navigaton and communication equipments 通信与导航	SIMBO	China	
1.1	GMDSS Area A1+A2+A3 无线电通讯组合电台	Furuno	Japan	
1.2	Radars 雷达	Furuno	Japan	
1.3	VDR	Furuno	Japan	
1.4	GPS 卫星定位仪	Furuno	Japan	
1.5	Echo sounder 测深仪	Furuno	Japan	
1.6	Navtex 航行警告接收机	Furuno	Japan	
1.7	Weather Facsimile	Furuno	Japan	
1.8	Auto-pilot 自动操舵仪	Anschutz	Germany	
1.9	Gyro-compass 电罗径	Anschutz	Germany	
1.10	Imarsat-C 卫星 C 站	Furuno	Japan	
1.11	Speed log 测速仪	Furuno	Japan	
1.12	Magnetic compass 磁罗径	Lilley&Gillie	UK	
1.13	SART 雷达应答器	McMurdo	UK	
1.14	EPRB 应急示位标	McMurdo	UK	
1.15	Automatic Identification System (AIS) 自动识别系统	Furuno	Japan	
1.16	Portable GMDSS VHF 对讲机	McMurdo	UK	
1.17	BNWAS 驾驶室值守系统	STEIN SHON	Germany	
1.18	intercom systems 内通系统	Vingtor	Norway	
2	Main and emergency switchboards 主应急配电板	EMS	Singapore	

3	Monitoring and alarm system报警监测系统	Kongsberg	Norway	
4	light fixture(internal accommodation) 室内照明灯具	Hai xing	China	
		Kunshan Shengang	China	
5	NAVIGATION LIGHTS AND OUTSIDE LIGHT FITTING 航行灯和室外灯具	Aqua Signal	Germany	
6	Fire detection system 火灾探测报警系统	Tyco	UK	
7	mechanical fog horn 雾笛	ZOELLNER	Germany	
8	Dynamic position system DP2 动力定位	Kongsberg	Norway	
9	Cables 电缆	JiangSu YuanYang	China	
		Shandong Zhongchuan	China	
		ChangZhou marine cable	China	

Remark: Above mentioned items from 1.1 to 1.17 should be packaged by packer