

## SCOPE OF SUPPLY

For One 59.25 M Subsea support

No.	Item	Qty	Origin	Maker	Remark
<b>Seller scope of supply</b>					
Following items (No.1~No.36) shall be supplied by the Seller to comply in accordance with the technical specification and finished with test certificates as required by Classification Society.					
<b>1</b>	<b>Steel material</b>				
	Hull - plate	shipset	China		
	Anodes / sea grating	shipset	China		
	Paint	shipset	Norway	Jotun/IP	
	Outfittings	shipset	China		
	Wooden sheathing	shipset	China		
	Anchors + chains 40mm	shipset	China		
	Vertical rubber fenders	shipset	China		
	HD round fender	shipset	China		
	Manhole and hatches	shipset	China		
	All foundation bolts	shipset	China		
	Pipes and flanges	shipset	China		
	Valves (excluding electric control)	shipset	China		
	Valves - FiFi suction/discharge (Electric control)	shipset	China		
	Quick coupling	shipset	China	Evertite Type	
	Window and portholes	shipset	China		
	Weather tight doors	shipset	China		
	Water tight doors	shipset	China		
	All strainers, mud box, etc	shipset	China		
	Chockfast	shipset	USA	Chockfast	
	Jet plane tire fender	38			
<b>2</b>	<b>Electrical</b>				
	Main and emergency SB	shipset	China		
	Electrical cables + tie	shipset	China		
	Ventilation fans	shipset	China		
	Accommodation lighting	shipset	China		
	Engine room lighting	shipset	China		

No.	Item	Qty	Origin	Maker	Remark
	Engine telegraph	shipset	China		
	Lighting switches and socket	shipset	China		
	Bed light	shipset	China		
	Deck light	shipset	China		
	Transformer	shipset	China		
	Battery charger	shipset	China		
	Pumps starter panels	shipset	China		
	Navigation lights	1 set	China	Aqua / Francis	
	Search light (2000 kw)	2	China	haixing	
	Flood light (1000 kw)	5	China	Haixing	
	EEBD	shipset	China		
	CVS	1	China		
<b>3</b>	<b>Accommodation</b>				
	Paneling, fire door, tiles	shipset	China	Hailu/Huanan	
	Furniture	shipset	China		
	Insulation - thermal / A60	shipset	China		
	Floor composite	shipset	China		
	Toilet modules + fittings	shipset	China	Hailu/Huanan	
	Exhaust cooking hood	1	China		
	Refrigerator	2	China	Hailer or equal	
	Air cond spiral duct+fire damper	shipset	China		
	Refrigerant	shipset			
	Outlet/return air diffuser	shipset	China		
	Cold room insulation + door	1	China	Prefabricated panel	
	WH and ECR console	shipset	China		
	Electrical marine horn	1	Japan		
	Central electric heater	1			
<b>4</b>	<b>LSA / Firefighting equipment</b>				
	Rescue boat + davit	1	China		
	Inflatable rafts	Shipset	China		
	MOB c/w smoke signal	Shipset	China		
	Life buoys	Shipset	China		
	Life jackets	Shipset	China		
	Immersion suit	Shipset	China		
	Breathing apparatus	Shipset	China		

No.	Item	Qty	Origin	Maker	Remark
	Line throwing apparatus	Shipset	China		
	Fireman's outfits	Shipset	China		
	Fixed CO2	Shipset	China		
	Portable fire extinguisher	Shipset	China		
	Pyrotechnic	Shipset	China		
	Distress rocket	Shipset	China		
	Sewage treatment plant	1	China		As per spe.
	Oily water separator	1	China		As per spe.
<b>5</b>	<b>Air cond and freezer</b>				
	Air cond compressor	2	Germany	bitzer or equal	
	Refrigerating compressor	2	Germany	bitzer or equal	
	ECR packaged air con (domestic)	1	China		
	W/H packaged air con (domestic)	1	China		
	Air cond sea water pump	1	Spain	Azcue / Desmi or equal	
	Dom fridge sea water pump	1	Spain	Azcue / Desmi or equal	
<b>6</b>	<b>Documentation by Builder</b>				
	Custom inward clearance OFE from port to builder's yard				
<b>7</b>	Azimuth Thrusters Controllable Propeller with nozzle	2 sets	Finland	Wartsila ,LIPS CS 225-S/WN-K	
<b>8</b>	Bow thruster(350 kw)	1	China	Kwasaki China	
<b>9</b>	C-Joy or MT	2	Norway / USA	Kongsberg /MT	
<b>10</b>	Main engine / 2200 BHP/1600kw each	2	Finland	wartsila 8L20	
<b>11</b>	Auxiliary engine 350KW	3	USA	Catepillar or CUMMINS	
<b>12</b>	Load sharing & speed control	3	USA	Woodward	
<b>13</b>	Auto synchronizer	1	USA	Basler electric	
<b>14</b>	Emergency generator 80KW	1	UK	Perkins or Cat or Cummins or Equal	
<b>15</b>	Pumps(according to the spe)	shipset	Spain/USA Italy/Denmark	Desmi or Azcue or Itur or equal	

No.	Item	Qty	Origin	Maker	Remark
	<b>Including:</b>	1			
	Bilge pump /Ballast	2			
	Emergency fire pump	1			
	Domestic pressure set	1			
	Sanitary pressure set	1			
	Dom/sanitary standby	1			
	Fuel oil transfer pump	1			
	Dirty oil pump	1			
	Fuel oil cargo pump	1			
	Fresh water cargo pump	1			
	GS pump	2			
	Drill water pump	1			
	Bow thruster sea water cooling pump	1			
	Deck Machinery sea water cooling pump	1			
<b>16</b>	Navigation/Radio Equipment	shipset	Japan	JRC/Furuno	
	<b>Including:</b>				
	GMDSS Radio	1			
	Navtex	1			
	EPIRB	1			
	SART	2			
	Self powered Telephone	1			
	Weather fax	1			
	Radar No.1	1			
	Radar No.2	1			
	Echo Sounder	1			
	Speed Log	1			
	AIS	1			
	GPS	1			
	TV-FM Antenna	1			
	Magnetic compass	1			
	Gyro compass & Repeater	1			
	Autopilot	1			
	SSB				
<b>17</b>	Water maker	1	Sweden	Enwa or Equal	

No.	Item	Qty	Origin	Maker	Remark
18	Windlass, tugger, capstan,4-point mooring winch	1 set	Singapore	Mentrade or ME,or Titan or equal	
19	External fire fighting	2 set	Norway	FFS or Kvaerner or equal	
20	FO valve quick closing device	shipset	Sweden	LK VALVES AB /Viking	
21	Fuel Oil Purifier	1 set	Imported	Mitsubishi or Equal	
22	Communication Equipment	shipset	Korea	Hanshin or Equal	
23	Sound power phone	shipset	Korea	Hanshin or Equal	
24	Auto exchange phone	shipset	Korea	Hanshin or Equal	
25	PA	shipset	Korea	Hanshin or Equal	
	CCTV for 4 point mooring winch	shipset	Japan or equal		
26	Dynamic Positioning System(DP1 ) AS PER SPE			KONSBERG or MT or Alstom or Nautronix	
27	Recharging BA compressor	1	Italy	Coltri or Bauer or equal	
28	Fire detection system	1 set	Norway	Unitor	
29	Dispersant system (Nozzles, Proportional)	shipset	Norway	Unitor	
30	Wiper	4	UK	Hepworth	
31	Heavy duty washing machine	2	China	LG or Siemens or equal	
32	Heavy duty dryer	2	China	LG or Siemens or equal	
33	Electric cooking range	1	China		
34	Helmsman chair [fixed]	1	China		
35	Helmsman chair [sliding]	2	China		
36	Air Compressor for ME	2	China		
<b>OWNER'S SUPPLIES</b>					
Following items (No37-41) shall be supplied by the Buyer to comply in accordance with the technical specification and furnished with test certificates as required by Classification Society.					
37	Fuel oil flowmeter	1	Japan	Flow	Owner

No.	Item	Qty	Origin	Maker	Remark
				equipment/Nitto	
38	FW flowmeter	1	Japan	Flow equipment/Nitto	Owner
39	Drill water flowmeter	1	Japan	Flow equipment/Nitto	Owner
40	SOPEP	shipset			Owner
41	Cargo securing manual	shipset			Owner