

MPSV GRACE



78m DPS2 6000 BHP ROV SUPPORT MAINTENANCE/WORK VESSEL



A Marine Service Asset Wholly Owned By



Broron Oil & Gas Limited

PRINCIPAL PARTICULARS

Length Overall	78.00 m
Length BP	69.60 m
Breadth Moulded	20.00 m
Depth Moulded	8.00 m
Draft (max)	6.00 m
Built	China
GRT / NRT	TBA
Class	American Bureau of Shipping
Notation	A1(E), Offshore Support Vessel (FFV 1, SPS, +AMS, +DPS-2,UWILD)

Flag (Port of Registry)	LAGOS
Call Sign	TBA

PERFORMANCE

Maximum Speed	TBA
Economical Speed	TBA
Type of Fuel	Marine Gas Oil
Fuel Consumption	TBA

CARGO CAPACITIES

Deadweight	3000 mt
Deck Strength	7.5 t / m ²
Clear Deck Area	850 m ²
Fuel Oil	1300 m ³
Fresh Water	1000 m ³
Ballast/Drill Water	2000 m ³
Foam	10 m ³
Sewage Holding	50 m ³
Grey Water/Dirty Oil	50 m ³ / 15 m ³
Bilge	30 m ³
Hyd. Oil	30 m ³
Moon Pool	5m x 5m

PUMPS

Fuel Oil	2 x 15 m ³ /hr @ 20m head
Bilge	2 x 60 m ³ /hr @30m head



BILGE/FIRE/GS/DW
Dirty oil

2 SPEED 120m³/h(90m) 250m³/h (30m)
1x5m³@45m head

PROPULSION SYSTEM

Main Engines
Main Generators

2 x 3000 bhp Niigata 6L28AHX
2x730KW Caterpillar C32 ACERT Generator set

Emergency Generator

1x150 150MXDGE

Shaft Alternator

2x1300KW

Bow Thruster

785KW 117KN

Propulsion
2 x 360 degrees steerable, Z drive propeller; Niigata

DECK EQUIPMENT

Anchor Windlass
Drum

Capacities - 10 tonnes at 9m/min for chain cables.
6 tonnes at 15m/min and at light loads 30m/min for mooring lines.

SpreadMooring System

Drum Pull (1st Layer) : 40T x 0-10m/min (low speed)
10T x 0-30m/min (high speed)

Warping drum

1,500m x 38mm dia. wire rope

Heli-Deck

For Sikorsky 92 Load 12.8 ton, diameter of 21m

Capstan
Pulling force of 5 tonnes at 15m/min.

Tugger Winch
Two (2) sets tugger winches, 10 t SWL at 12 m / min

Main/Aux Crane

SWL 64t at outreach 9.5 m. Maximum working radius 50 m.
SWL 3t at outreach 12m.

SAFETY EQUIPMENTS

Liferafts

Six (6) twenty five (25) men inflatable life rafts with davits

Rescue Boat

Life Boats

6-person rescue raft with diesel propulsion with
A frame davit

Rescue Zone Ladder

scrambling nets, with width not less than 5m and

Weighted at bottom.

Particulars are believed to be correct but not guaranteed. All figures given are approximate only. Owners reserve the right to amend the specifications without notification.

ACCOMMODATION



Berths 6 x 1 berth cabins = 6
 61 x 2 berth cabins = 122 Total
 128

Hospital 1 x 1 berth cabin = 1

All cabins fully air-conditioned & all c/w attached toilet

RADIO AND NAVIGATION EQUIPMENT

GMDSS	TBA
MF/HF (SSB) Radiotelephone	1x Furuno FS-2575 with built in DSC
Inmarsat C	1x Furuno Felcom 18 with SSAS
VHF Radio	2 x Furuno FM 8900S with built-in DSC 2 x ICOM japan IC-M422 with built-in DSC 1x ICOM japan IC-A110 Aviation radiophone
Navtex Receiver	1 x Furuno NX700
SART	2 x
Mcmurdo S4 EPIRB	
1 x Mcmurdo E5	
Portable VHF Radios	TBA
Radar	1 x Furuno FAR 2817 (X Band ARPA Radar) 1 x X Band Radar Repeater at Aft Console
Echo Sounder	1 x Furuno FE-800
GPS	1 x Furuno GP-170
Gyrocompass	TBA
Autopilot	TBA
Magnetic Compass	TBA
Weather Fax	1 x Furuno FAX-408
Speed Log	1 x Furuno DS-80
Wind Sensor	3 x Kongsberg OMC-139
BNWAS	TBA
AIS	1 x Furuno FA-150
VDR	1 x Furuno VR-7000
ECDIS	1 x Furuno FMD-3300
Weather Reporting Station	1X RM YOUNG YONNG26800
Fleetboardband	1 x Furuno FELCOM 500

DYNAMIC POSITIONING SYSTEM (DPS-2)

DP console	Duplex DP Console Kongsberg
Cwing	1 x Kongsberg with 4 docking Stations
Independent Joystick	1 x Kongsberg with 4 docking Stations
	2 x Veripos LD2 2 x Kongsberg with DPS 122



DGPS

Relative Position Measurement	1 x Radius (Radar Scan)
HIPAP	1 X Hipap 501
TAUT WIRE	1X MK 15/B
DP Alert System	

FFE EQUIPMENT & ANTI-POLLUTION EQUIPMENT

EXTERNAL

FIFI Sytem	Class 1 with water curtain all round
Fire Pump m3/h at 130 mlc head	2 x 2230 driven by front PTO of M/E
Monitors - (water/foam)	2 x 1200 m3/hr (one dual barrel water/foam)
Oil Dispersant System	Inductor Principle using GS pump 120 cub.m/hr 2 x TBA Nozzle 1 x TBA Inline Inductor

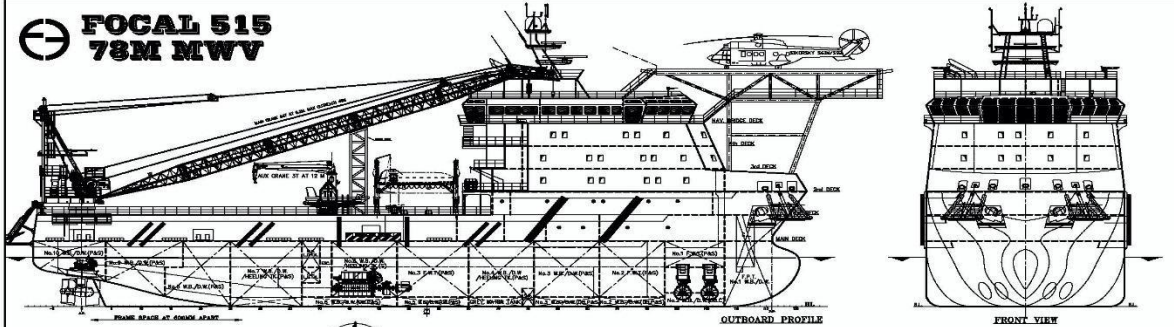
INTERNAL

Emergency Fire Pump	1 x 65 m3/hr @ 60m head
BA Recharging Comp	1 x TBA
CO2 system in engine room	
Fire Detection & Alarm System in living spaces & engine room	

MISCELLANEOUS

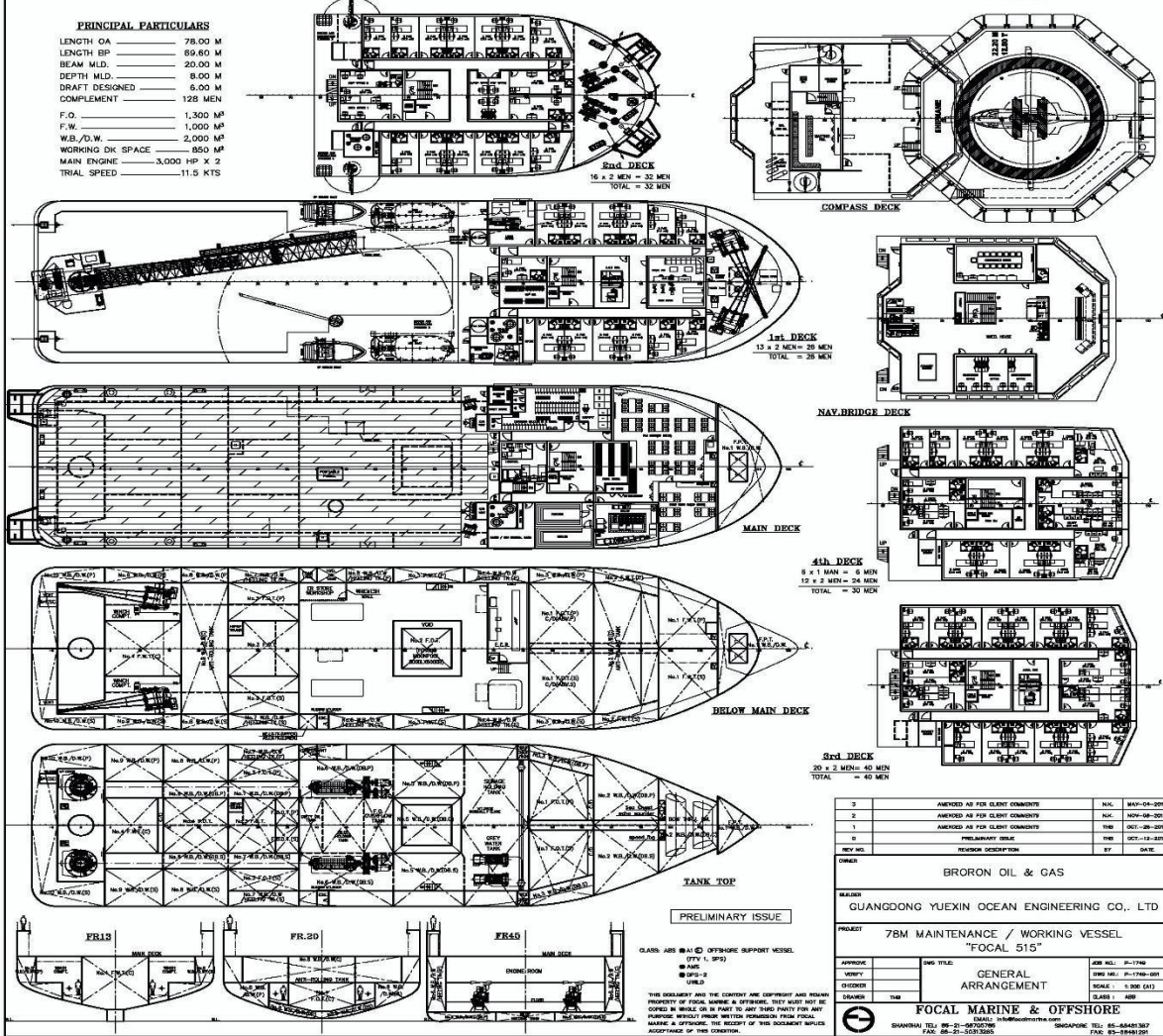
Oily Water Separator	1 x 2 m3/hr c/w 15 ppm alarm Industmarine
Fresh Water Maker	1 x 40 m3/day wit UV Sterilizer
Sewage Treatment Plant	1 x 128 men, Sewage pump with cap.5m ³
Garbage Compactor	1 (TBA)

FOCAL 515 78M MWV



PRINCIPAL PARTICULARS

LENGTH OA	78.00 M
LENGTH BP	59.80 M
BEAM MLD.	20.00 M
DEPTH MLD.	8.00 M
DRAFT DESIGNED	6.00 M
COMPLEMENT	128 MEN
F.O.	1,300 M ³
F.W.	1,000 M ³
W.B./D.W.	2,000 M ³
WORKING DECK SPACE	850 M ²
MAIN ENGINE	3,000 HP X 2
TRIAL SPEED	11.5 KTS



3	APPROVED AS PER CLIENT COMMENTS	NCL	NOV-04-2014
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001			

BRONON OIL & GAS

CLIENT: GUANGDONG YUEXIN OCEAN ENGINEERING CO., LTD

PROJECT: 78M MAINTENANCE / WORKING VESSEL "FOCAL 515"

APPROVE: [Signature] DATE: [Date]

DESIGNER: [Signature] DATE: [Date]

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