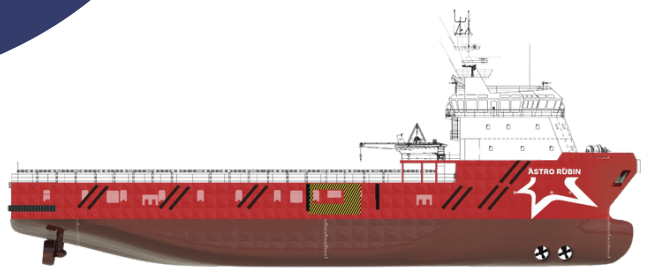
Astro Offshore
An Adani Group Company



ASTRO RUBIN

80M MULTIPURPOSE SUPPORT VESSEL WITH SSR

GENERAL

Flag:	Marshall Islands
Registry:	Majuro
IMO No.:	9715000
Year Built:	2014
Classification:	American Bureau of Shipping (ABS) XA1, SSR GR. B -(135), FFV 1, OSR-C1, Offshore Support Vessel, SPS, Supply-HNLS, (E), XAMS,X DPS-2, BWT, UWILD, RW

PRINCIPAL PARTICULARS

Length OA:	80.00m
Dynamic Positioning:	DP2

MACHINERY

Main Engines:	2 x 2,206kW, Total Power (Electric): 4412kW - Niigata Japan 8L28HX
Stern Thrusters:	Twin Azimuth Propellers, 2 x 2,206kW; Z-Peller, Niigata ZP-41
Bow Thruster FP:	2 x 800kW CPP Tunnel Thruster; Driven by Electric Motor each about 12T - Kawasaki KT-88B3
Main Generator:	2 x 640kW, 1 x 940kW
Emergency Generator:	1 x 158kW (440V/3/60Hz)
Shaft Generator:	2 x 1,250kW, Leroy Somer
ROV Sockets:	On main deck, aft of accommodation area
Sockets / Plugs:	4 x 440V and 4 x 220V, installed at forward of the cargo deck for containers

SAFETY EQUIPMENT

Fire Fighting:	FiFi Class 1
Fire Pump:	2 x 1,825m³ / hr @ 125m head
Monitors:	Water / Foam: 2 x 1,200m³ / hr
Self-drenching System:	As per FiFi Class 1 Requirement
Emergency Fire Pump:	35m³ / hr @ 60m head
CO2 System:	Engine Room & RO Pump Room

RESCUE EQUIPMENT

Over-side Rescue Zone:	SSR Port & Starboard
Scrambling Nets:	2 x Scrambling nets fitted at rescue zones
Rescue Basket:	Billy Pugh X-871; SWL 300kg
Search Lights:	3000W Karl Dose SS4S0
Water Jet Craft:	2 x 15 man, SOLAS certified
FRC:	Water Jet Vanguard, VS 6.0 FRW
Davit:	Vanguard PR30

ACCOMMODATION

One Man Cabins:	6
Two Man Cabins:	6
Four Man Cabins:	8
Single Bunks:	2
Double Bunks:	9
Total POB:	205 (70 Berths + 135 Passengers)
Medical Bay	

DECK EQUIPMENT

Deck Crane:	5T @ 12m outreach
Deck Space:	800m²
Deck Cargo:	2,000T
Deck Strength:	7.5T / m²
Anchors:	2 x AC14 HHP Stockless Anchors each 2,690KG
Chain Cable:	550 m (L) x 46 mm ø total approx
Anchor Windlass:	2 x 10T @ 9-10m / min
Capstan:	2 x 5T@ 0-15m / min, electro-hydraulic
Tugger Winch:	2 x 10T (SWL) @ 0-12 m / min, electro-hydraulic
Astern Towing:	2 x 60T via stern fairleads
Deck Sockets:	1 x 440V, 400A; 2 x 220V, 32A
Cargo Automation System:	Kongsberg K-Chief

CAPACITIES

Fuel Oil:	1,234m³
Cargo Fuel Oil:	955m³
Drill / Ballast Water:	1,596m³
Potable Water:	640.7m³
Base Oil:	218.4m³
Recovery Oil:	834.8m³
Liquid Mud / Brine:	834.8m³
MEG:	834.8m³
Dry Bulk:	300m³
Methanol:	223.4m³ dedicated SUS 316 tank, piping, pump
Dispersant:	35.7m³
Foam:	39.3m³
Fresh Water Maker:	25T /day approx, reverse osmosis
Oily Bilge Water Separator:	2.5m³ / hr, comes with 15ppm alarm

DISCHARGE RATES

Cargo Fuel Oil:	2 x 100m³ / hr @ 80m head, Vertical Centrifugal pump
Drill / Ballast Water:	1 x 100m³ / hr @ 100m head, Vertical Centrifugal pump
Potable Water:	1 x 100m³ / hr @ 80m head, Vertical Centrifugal pump
Base Oil:	2 x 100m³ / hr @ 80m head, Vertical Centrifugal pump
Recovery Oil:	2 x 100m³ / hr @ 20 bar, Mud SG 2.5T/m³ | 2 x 100m³ / hr @ 5 bar, ORO 1.0T/m³
Liquid Mud / Brine:	2 x 100m³ / hr @ 20 bar, Mud SG 2.5T/m³ | 2 x 100m³ / hr @ 5 bar, ORO 1.0T/m³
MEG:	1 x 100m³ / hr @ 90m head, with dedicated piping
Dry Bulk:	6 Tanks | 2 x 75m³ / hr @ 5.6 bar
Methanol:	2 x 50m³/hr @ 6.3 bar, submersible pumps

For enquiries, please contact commercial@astro-offshore.com
www.astro-offshore.com

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NAVIGATION

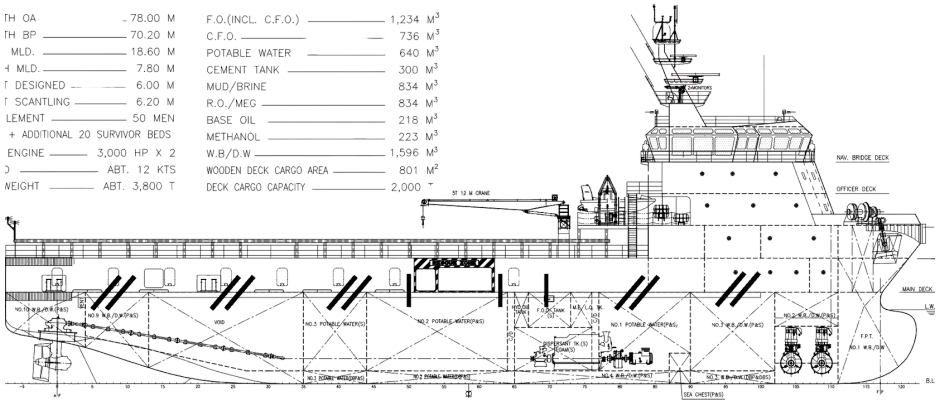
ECDIS:	Lilley & Gillie Navmaster 800
Voyage Data Recorder:	Furuno VR-3000
BNWAS:	SM Electric Le Guardian 2025
Radars:	Furuno FAR-2117-D Furuno FAR-2137S-D
DGPS:	2 x Furuno GP-150
Auto Identification System:	Furuno FA-150
Echo Sounder:	Furuno FE-700
Wind Anemometer:	Kongsberg Wind Observer II
Autopilot:	SIMRAD AP 80
Gyro Compass:	Simrad Twin RGC 80 Simrad 3rd RGC 80
Magnetic Compass:	Saura MR-150
Speed Log:	Furuno DS-80
Weather Fax Receiver:	Furuno Fax-408
Helicopter Beacon:	Nautel VR-125S

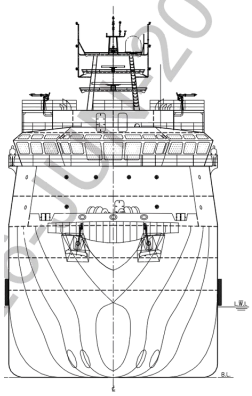
COMMUNICATION

Inmarsat:	Inmarsat C
P.A. & Intercom:	Vingtor SPA/CTB
Integrated Telephone/ Command System:	Vingtor ACM
Battery-less Telephone:	Vingtor VSP
GMDSS Radio Comm:	AREA A3, Furuno
MF / HF S.S.B. Radio:	1 x Furuno FS-2575
Rack Console:	1 x Furuno RC-1800T25DCMK5
Inmarsat-C/SSAS:	1 x Felcom-18ssas
Inmarsat-C:	1 x Felcom-18
VHF DSC Radio:	2 x Furuno FM-8900S
Battery Charger:	1 x Furuno BC-6158L
Remote VHF Handset:	1 x Furuno RB-8900
NAVTEX:	1 x JMC NT-1800
EPIRB:	1 x JOTRON 2131A-TRON60SGPS
SART:	2 x McMurdo S4
Portable VHF Airband:	Radio 4 x McMurdo R5 (Two-Way, GMDSS)
Airband VHF Transceiver:	1 x ICOM A210, for helicopter communication

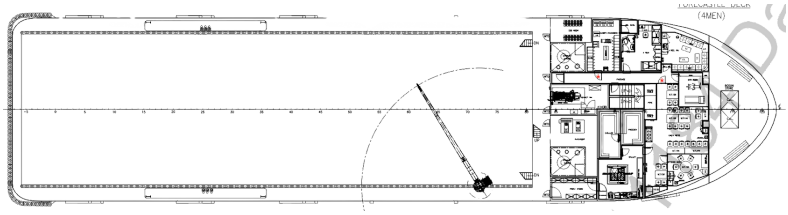
GENERAL ARRANGEMENTS

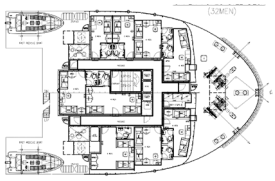
TH OA	78.00 M	F.O.(INCL. C.F.O.)	1,234 M³
TH BP	70.20 M	C.F.O.	736 M³
MLD.	18.60 M	POTABLE WATER	640 M³
H MLD.	7.80 M	CEMENT TANK	300 M³
T DESIGNED	6.00 M	MUD/BRINE	834 M³
T SCANTLING	6.20 M	R.O./MEG	834 M³
LEMENT	50 MEN	BASE OIL	218 M³
+ ADDITIONAL 20 SURVIVOR BEDS		METHANOL	223 M³
ENGINE	3,000 HP X 2	W.B/D.W	1,596 M³
)	ABT. 12 KTS	WOODEN DECK CARGO AREA	801 M²
WEIGHT	ABT. 3,800 T	DECK CARGO CAPACITY	2,000 T





FRONT VIEW





OFFICER DECK (14MEN)



9	AMENDED AS PER OWNER COMMENTS	ZQX	JUNE-12-2014
8	AMENDED AS PER OWNER COMMENTS & DESIGN PROGRESS	YP/FWF	APR-01-2014
7	AMENDED AS PER OWNER COMMENTS	YP	AUG-08-2013
6	AMENDED AS PER OWNER COMMENTS	YP	AUG-01-2013
REV NO.	REVISION DESCRIPTION	BY	DATE

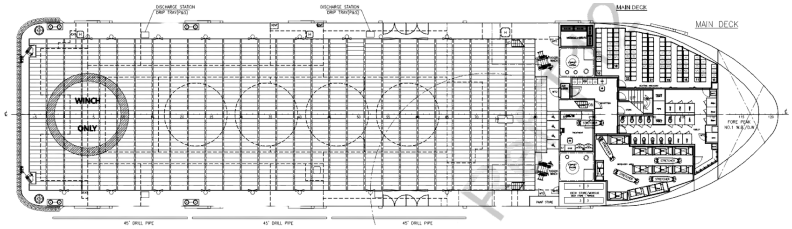
OWNER: MARINE DELVERY

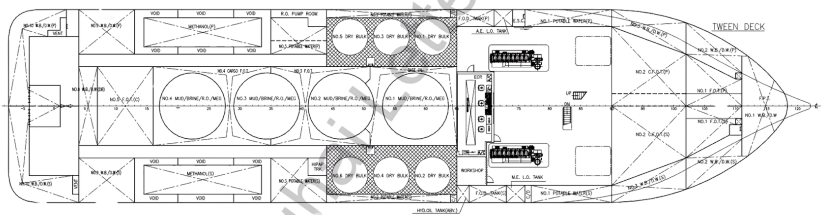
BUILDER: POET(CHINA) SHIPBUILDING & ENGINEERING PTE LTD
HULL NO.: ~~POET1541~~ POET1542

PROJECT: 78M PLATFORM SUPPLY/OIL RECOVERY /SAFETY STANDBY VESSEL "FOCAL 522"

APPROVE	DWG TITLE: GENERAL ARRANGEMENT	JOB NO.:	P-1592
VERIFIER		DWG NO.:	P-1592-G01
CHECKER		SCALE:	1:200(A1)
DRAWER		CLASS:	ABS

FOCAL MARINE & OFFSHORE
EMAIL: info@focalmarine.com
SHANGHAI TEL: 86-21-58705786 FAX: 86-21-50313265
SINGAPORE TEL: 65-68481387 FAX: 65-68481291

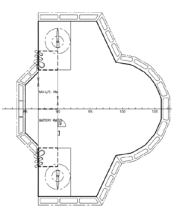


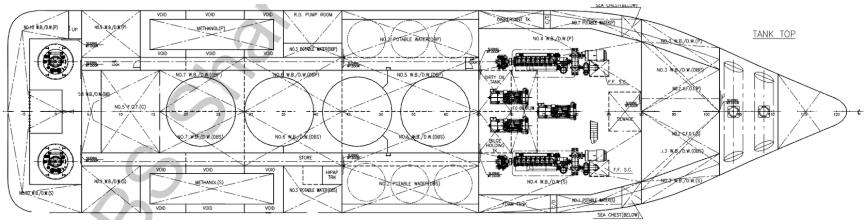


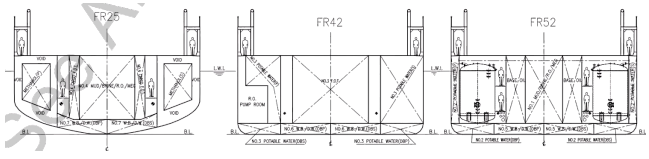
NAV. BRIDGE DECK



COMPASS DECK







Original Not to Scale

All particulars are believed to be correct but without guarantee