



GEO GANGASAGAR

SPECIFICATION

Vessel

Year built	1986
Builder	SOUTHERN OCEAN SHIPBUILDING CO. Pte, Ltd, Singapore
Classification	IRS
IRS Notations	SUL, IY
Call sign	VVJW
Official no	2162
IMO No	8416970
Port of Registry	Mumbai
Flag	Indian

DIMENSIONS

Length overall	70.20 mtrs
Breadth moulded	15 mtrs
Draft Full loaded	4.387 mtrs
Depth to shelter Deck	5.2 mtrs
Freeboard Max Draft	1.212 mtrs
DWT	1480.90 MT
GRT	2156 MT
Displacement	3410.55 MT
Light Ship	1929.651 MT
Net Tonnage	647 MT

MACHINERY

Main Engines	4 X WARTSILA , MODEL-6 R22 MD – 1205BHP EACH, TOTAL BHP- 4820
Auxiliary Engines	2 X Caterpillar, MODEL- 3412c (534 KW)
Shaft Generator	2 X Stamford Newage (480 KW)
Bow thrusters	ULSTEIN /90 TV, 355 KW
Main PROP	2 X MAIN PROPELLER, Twin screw
Emergency Generators	Yanmar TS 105c Denyo Fa5n , 5 KW , 220 /1/50
Emg. Fire pump Engine	Kirloskar – Diesel Eng.
UPS	2 x Merlin Gerin

CAPACITIES

Fuel oil	994.69 m3
Fresh water	537 MT

ACCOMODATION

Crew & Seismic Cabins	Crew – 30 Persons & Seismic – 36 Persons 66 persons(Suites -1x 4, Single – 1x12, Double – 2x 25)
Lounge	2 nos. fully equipped with digital TV & DVD
Hospital	Fully furnished hospital

SEISMIC EQUIPMENT DETAILS

Streamer/Cable:

Manufacture	Input/Output
Type	Gel/Fluid
Section Length	100m
Group Interval	12.5m
Streamer Configuration	1x12000m / 2x6000m
Hydrophone/group	16 Nos.
Group Sensitivity	14V/bar
Max outer separation	100m

Navigation System:

Tailbuoy tracking	Kongsberg Seatex Seatrack 220 RGPS
Gun array tracking	Kongsberg Seatex Seatrack 330 RGPS
Acoustic	SIPS 2, Sonardyne
Dynamic Sound velocity	SIPS 2 XSR/SV, Sonardyne
Streamer Positioning	DigiCourse Digibird 5011
Gyro	1 x Sea OCTANS III, 1 x Anschutz STD 20
Echo Sounder	Knudsen-320M, Kongsberg

Source Equipment:

Single mode 2D	3802cu.inch
No of guns	42 for 6 gun arrays
Flip-flop mode	3D, Volume-3162/4087cu.inch
No of guns	14/21
Compressor	3 x LMF 1100SCFM 2000psi 1 x LMF 2200SCFM 2000psi
Operating Pressure	2000-3000psi
Source Controller	Gun Link 2000

On-board Processing:

Processing Server	2 x HP DL380P (64GB RAM, G9:2 x2620V3 (2.4GHz) processor)
Work Station	4 x HP Z420 workstation
Monitor	4 x HP performance series
RAID/Storage	HP MSA FC Storage with 48TB Raw space (Approx 40TB usable)-12 x 4TB MDL SAS

Recording System:

Manufacture	Input/Output MSX System
Software Version	2.0v
A/D Converter	24-bit (sigma-delta)
Low Cut Filter	2Hz 6db/octave, 4Hz 12db/oct,
No of Channels	1920 per Streamer interface Module
No of Aux Channel	48 Max
Plotter	OYO Geospace

Note: All Specifications WOG and Subject to Change without Notice

ANCHOR & MOORING

Deck crane	1x 2 MT @ 12m
Anchors	2 Nos. (Ships FWD Anchors)
Anchor Chain	8 shackles each

FIRE FIGHTING & FOAM SYSTEM

Number of Monitors	2
Discharge Rate	54 m ³ /hr each monitor
Total Capacity	108 m ³ /hr
Number of Pumps	1
Range Capacity	31 m

CONTINGENCY EQUIPMENTS

Heli Deck	L – 18 m , B – 15.5 m (Area 279 m ²)
Life Rafts	08 nos X 25 per cap.
Rescue Boat (6 per)	2 nos
Fast Rescue Craft	01 no

NAVIGATION & COMMUNICATION EQUIPMENT

Radar - 1	Make-JRC, Model-JMA7725-6, SR-LW54641
Radar - 2	Make/Model- FURUNO/FAR2835s, SR-3322-0958
Gyro	Anschutz STD 22
Auto pilot	Pilot standard & Gylut Tokyo Keiki
Navtex	JRC – NCR 300 Navtex
Echo sounder	Make – Consilium , Model E-1 , sr. No. 1250019
GPS	Garmin 152
GPS	JMC GPS/WAAS Receiver GP - 200
Inmarsat - C	SAT –C Sailor DT 4646 E 1X Inmarsat 720 KB
Aero Mobile	Aero VHF – BAXALL
VHF	2 X Sailor RT 5022 – VHF DSC
MF/HF	Sailor HC 4500

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