



### General

Name	MGS SAGAR
Owner	Marine Geological Survey (MGS) Ltd. (Cyprus)
Type	Research vessel
Port of Registration	Port Villa
Flag	Vanuatu
Classification society	RMRS
Class	KM*AUT1
Registered No.	856380
Call sign	YJUP4
IMO	8501074
Year built/rebuilt	1986/1997/2001/2015
Length overall	76,2 m
Breadth	14 m
Draught moulded	5,8 m
Tonnage (MT)	GT/NT/DW: 2508/752/924
Endurance	45 days
Main Engine	1xBergen Diesel KVG12 (2305BHP) 2xBergen Diesel KRG 9 (1730BHP)
Propulsion	2x1500kW propulsion motors 1 propeller
Fuel type	MGO
Fuel capacity	687.8T (100% stores)
Speed/Fuel consumption	Max: 12Kn/10MT Cruising: 10Kn/8,5MT Survey: 7Kn/5,5MT At Berth: 1,8MT
Rudder	1xBecker type
Thruster	Bow Ulstein 150TV 800BHP
FW production:	15 m3/day
FW capacity	129.4T (100% stores)

### Accommodation (Central Aircon/Heating)

Capacity	60 persons
Number of cabins	37 (14 single; 23 double) WC/Shower incl.
Mess room	Seating capacity: 32 persons
Hospital	2 bunks
Recreation room	2
GIM	1
Workshops	3
Laboratory	4

### Safety

Safety manning level	60 persons
Rescue boat	1
Inflatable liferafts	8 Liferafts/Capacity: 4x25 SB side; 4x25 PB side; 1x6 Stern

### Communication

Sat. phone and Internet access	INMARSAT Sailor FBB500 Speed: 524kbps
Inmarsat C	Sailor 6110 INMARSAT-C
MF Radio	Sailor HC4500B
VHF Radio	Sailor RM 2042
Two way VHF	Sailor SP3520
Secondary mean of Alerting	JOTRON TRON 605 KANNAD MARIN SAFELINK SPORTPRO
Radar Transponder	JOTRON TRON SART 20
Intercom	Stationary, all rooms

### Navigation Aids

Autopilot	Robertson AP9 MK3 Autopilot
Radar No.1	FAR-2827, Furuno, Japan (9 GHz)
Radar No.2	AR-2837S, Furuno, Japan (3 GHz)
Gyro	Digital Giro STD22
Wind sensor	AANDERAA sensors 2740 and 3590
Navigation SBES	SW56 30kHz
Electronic chart	ECDIS FMD-3100, FURUNO
NAVTEX	FURUNO NX-700
AIS	JHS-183

### Geophysical equipment

Multibeam echosounder	RESON 7150F 12/24kHz (Gondola mounted ) Operation Depth 6000 m Integrated side scan sonar
Subbottom profiler	KNUDSEN CHIRP 3260 3,5/12kHz
Survey navigation system	Applanix POS MV 320 (Canada ) ( 2xDGPS receivers and IMU ) Accuracy : Positioning: 0.5m Roll and Pitch : 0,02° True heading : 0,01°
Gravimeter	CHEKAN-AM RMS error: 0.4 mGal Range: 500 Gal
Magnetometer	SeaSPY (Marine Magnetics) Absolute Accuracy 0.1nT

### Oceanology equipment

SVP	miniSVP Valeport (UK) Operation depth: 6000 m
CTD	SBE 19plus V2 SEACAT– 2 pcs Operation depth: 7000 m
Dissolved Oxygen sensor	SBE 43 Operation depth: 7000 m
Fluorimeter and Turbidity sensor	ECO FLNTU, WETLABS – 2 pcs Operation depth: 7000 m
Water sampler	SBE 32 Carousel – 2 sets 24 bottles 10 Ltr.
Pinger	Operation depth: 6000 m Frequency: 12kHz



### Geological equipment

Gravity corer	LxD: 6m x133mm - 2 pcs LxD: 3m x133mm - 2 pcs
Dredges	Galateya: Volume 0.54 m3 - 2 pcs Rock Dredges: Volume 0.6 m3 - 3 pcs , Volume 1.1 m3 – 1 pc
Grab	0.25 m3 - 2 pcs
Box corer	0.49 m3 - 1 pc
Core splitting lathe	Cedima CTS-175/1 (Germany)

### Laboratory facilities

Clean lab	Completely Teflon coated equipped with HEPA filter, NWS holders; Milli-Q water purification system; Area:150 sq. ft.
Geophysical data processing lab	Equipped with acquisition and processing PCs (10+ work places) , Area:480 sq. ft.
Dry lab	Area:150 sq. ft.
Geology lab	Equipped with cold storages and deep freezers; Area:290 sq. ft.

### Deck machinery

Hydraulic power pack	4 Hydraulic pumps Caterpillar 176 l/min 75kW
Main Crane	4.5T
Provision crane	MCV -1.5-7.5, SWL 0.9T
Deep sea hydraulic winch	ODIM (Norway) Pulling force 120kN
Oceanographic winch	ODIM (Norway) SWL 7T
Cable winch	ODIM (Norway) -2 pcs SWL 3.7T
Auxillary winch	M31256, ODIM (Norway) - 11 pcs SWL 2.8T
Deflector winch	ODIM (Norway) Pulling force 79kN

### Our services

<b>Hydrography</b>	MBES Survey (full Ocean depth) Side scan Imaging (full Ocean depth) Processing of big volumes of hydrographic data
<b>Geophysics</b>	Sub bottom profiling Marine Magnetic survey (incl. data processing) Marine Gravity survey (incl. data processing)
<b>Oceanology</b>	Multiparameter profiling (up to 6000 m) Water and Plankton sampling
<b>Geology</b>	Bottom loose sediments sampling (up to 6000 m) Rock sampling (up to 6000 m)

## MARINE GEOLOGICAL SURVEY (MGS) LTD

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