

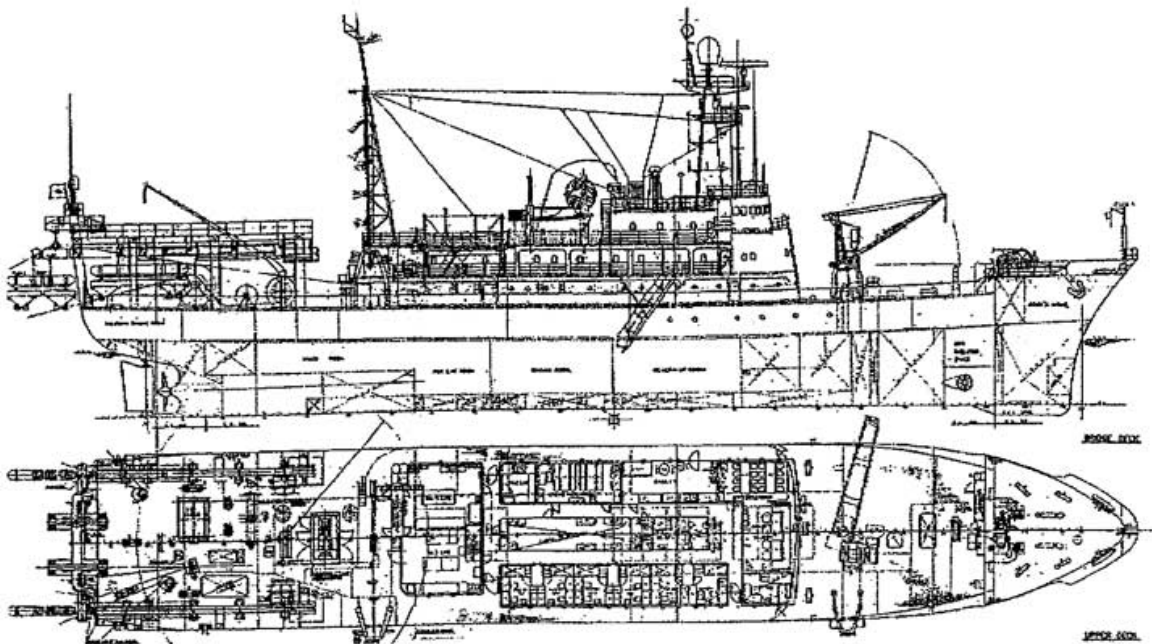


The TEKNIK PERDANA is a purpose built Survey Research vessel designed and built to perform full ocean depth geophysical and general survey operations. The vessel is typically deployed onto deep sea submarine cable route surveys, Deep Seismic 2D Exploration surveys, and High Resolution Site Survey contracts, but also performs pipeline route surveys, hydrographic surveys, and shallow geotechnical sampling surveys. The vessel is one of four owned and operated by TL Geohydrographics throughout the Asia Pacific region.

The vessel is fitted with a complete suite of Konnesberg Simrad EM120/EM1002 full ocean depth Multibeam systems for both deep and shallow waters. The systems are controlled and operated by workstations running Poseidon, Triton, Neptune and C-Floor acquisition and processing software. The combined system utilises the EM1002 system for enhanced resolution in shallow waters down to 1,000m. The onboard systems provide for full onboard processing, charting and reporting. Echo Sounder transducers operating at 12kHz, 24kHz, and 200kHz are permanently Hull Mounted. Transducers for the Simrad Multibeam are fitted in a Hull mounted gondola cradle. A gate valve is used for the deployment of the Sonardyne LUSBL system. The vessel also operates as a Deep Seismic vessel acquiring both 2D Exploration Seismic and High Resolution site survey data.

The vessel has several available Instrument, survey, data processing rooms at lower, main and upper deck levels. A meeting room and client offices are provided. The vessel carries a Raytheon Deep Sea Echo Sounder, Edgetech Sea Floor Mapping Sonar, and Raytheon Sub Bottom profiling system operating through Hull mounted transducers. Digital recording, processing and reporting is by CODA and Delph Elics II systems. Charting Plotting and Reporting systems provide for A0 digitisation and colour plotting.

The TEKNIK PERDANA has capacity for 620 Tonnes of fuel and 260 Tonnes of fresh water. A water maker produces up to 10 Tonnes per day. Extended endurance of 60 days can be accommodated. The vessel provides accommodation for a total of 55 persons onboard in air-conditioned accommodation. There is a large mess room, recreational facilities and a hospital. Client personnel are accommodated in a single cabin. Phone, Fax and Data telemetry is available from the NERA Inmarsat B system. GSM telephone is also available. The vessel complies with international GMDSS requirements. The vessel is maintained under NKK class, and is fully covered under the company's Hull and PNI insurance's.


GENERAL

Refitted	:	Dec 2000
Port of Registry	:	Panama
Call Sign	:	H3RN
Builder	:	Mitsubishi Heavy Industries
Class	:	NK (NS*,NMS*, ICE Class C)

MACHINERY

Engines	:	Akaska Mitshubishi Diesel Type 6UET45/75C dev 3,800bhp
@230rpm		
Propulsion	:	4 blade, variable pitch, diameter 3.1m
Bow thruster	:	Electric Tunnel thruster rated 500bhp
Stern Thruster	:	N/A
Auxiliaries	:	3 units 500kW / 750KVA Generators

CONSUMPTION

Port	:	1.5 Tonne/day
Survey Mode	:	4.5 Tonne/day
Transit	:	9.5 Tonne/day
Maximum speed	:	15 Knots
Endurance	:	15,000 n.m. or 60 days working

CRANES

Fwd Deck Crane	:	2 Tonnes @ 9m radius
Aft Deck Crane	:	2 Tonnes @ 12m radius

DECK MACHINERY

Aft Travelling Gantry for Seismic Gear Deployment, and as towing point.
Below Deck Oceanographic winch rated 8.5 Tonne outfitted with 10,000m of 12mm steel wire.
Small A-Frame forward rated to 2 Tonnes operating with winch rated to 3 Tonne outfitted with 8,000m 8mm wire.

ACCOMODATION

Total Available	:	55
Clients Berths	:	6
Marine Crew Berths	:	18
Survey Crew Berths	:	25
Passengers	:	4
Hospital	:	2

COMMUNICATIONS

Vessel	:	JRC GMDSS, JRC Radio, Inmarsat B & C Satellites with Voice/Fax/Data/e-mail facilities. 3 x JRC VHF Radios
Mobile Phone	:	GSM Handphone

ELECTRIC

Ship Power	:	450VAC 3ph 60Hz
Clean Power	:	1 x 15KV1, 2 x 20KVA, 2 x 25KVA for Survey Instruments Room
Emergency Use	:	24V

PHYSICAL SPECIFICATIONS

Dimensions		
Length	:	86.95 metres
Breadth	:	13.40 metres
Depth Moulded	:	7.8 metres
Tonnage		
Gross	:	1,830 tons
Net	:	681

