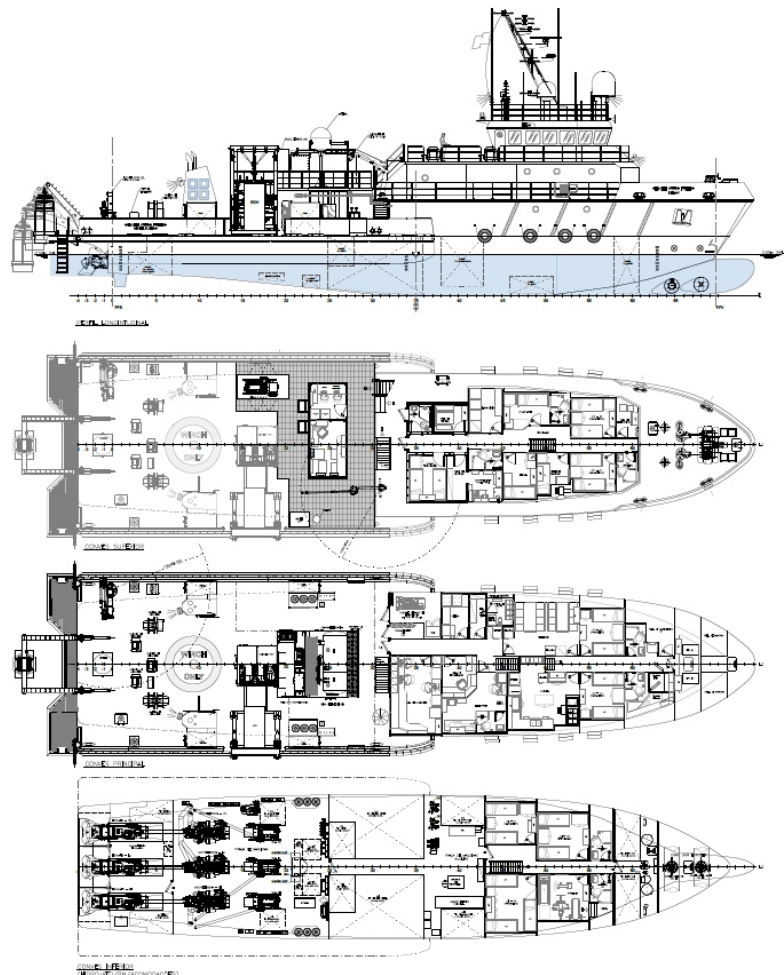


DSV Belov Cidade Ouro Preto

AIR DIVING WITH LIGHT WORK CLASS VEHICLE



This DSV, designed by INACE – Indústria Naval do Ceará, is diesel powered DP-2 rated vessel, fitted with air diving capabilities, a light work-class ROV and knuckle-boom crane to allow effective offshore operations. The propulsion includes three main waterjets and two tunnel thrusters, which allow safe diving conditions while divers are near the surface.



REGISTRATION

Vessel Name: CIDADE OURO PRETO
Builder: INACE Indústria Naval do Ceará S.A.
Class: C ⚓ Special Service – Working Boat Unrestricted Navigation – DP2
Year: 2013 / Flag: Brazilian
Diving Support Vessel, Unrestricted navigation,
Owner: BELOV ENGENHARIA S.A.





MAIN PARTICULARS

DIMENSIONS

Length overall:	42.20 m
Breadth moulded:	10.56 m
Depth:	3.75 m
Draft:	2.59 m
Deadweight:	551,9 t
Net tonnage:	147
Gross tonnage:	461

CAPACITIES

Deck capacity:	5.0 t/m2
Fuel oil :	60.0 (121,62) m3
Fresh water*:	10.0 (27,73) m3

Diesel oil filtration systemGEA Westphalia with CJC separator

*Includes redundant fresh water generators (reverse osmosis).

ACCOMMODATIONS

Accommodation for:	37 pax
Cabins:	11
Hospital:	1
1 mess room, laundry, galley, stores, diving control room, ROV control room, 1 office, gym.	

MACHINERY / PERFORMANCE

PROPULSION - MACHINERY

Diesel engines	3 x 250 kW
Main generators:	3 x 250 kW
Emergency generator:	1 x 72 kW
Main waterjets:	3 x 520 kW
Bow tunnel thruster:	2 x 225 KW

REMARK: Vessel is diesel-electric

PERFORMANCE

Trial speed :	11 knots
Economic speed:	8 to 10 knots

EQUIPMENT & ELECTRONICS

DECK EQUIPMENT

Main knuckle boom crane: 1 MELCAL Offshore Crane Foldable Telescopic Boom, Model FL20T1:

- Luffing:	Min/Max boom angle (degrees) - -45/78°
- Slewing range:	360°
- Load capacity @ 6.15 m (max):	1400 kg
- Load capacity @ 4.30 m:	2000 kg

AIR DIVING EQUIPMENT (50 m depth)

Diving A-frame with open bell	3.0 ton
Man-rider Winches by Ekron model EKPH-MR-2,5T.....	2 x 2.5 ton
Decompression chamber model Deco 1800 by Totalmat	1 each
Air quads, compressor, filters, etc	

ROV EQUIPMENT

ROV A-frame	2.0 ton
ROV AHC Winch Ibercisa Model MO-E/75/1000-26,72	1 each
Light Work Class ROV:	
Leopard by SAAB Seaeye, 2000 m depth* rated, payload up to 205 kg, FW thrust 500 kg, vertical thruster 200 kg, including 2 x 7 f manipulators (Orion), waterjet, cavitation cleaning, CP probe, UTM, hydraulic circuit 40 l/min @ 200 BAR, various tools, etc.	

*Ibercisa winch drum limited to 1000 m of cable

SAFETY EQUIPMENT

Life raft:	4 x auto inflatable for 10 persons each
Life vests:	50 x class 2

PORTABLE CURRENT METER

Valeport 106 portable current meter	1 x 50 m depth
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ELECTRONICS

NAVIGATION
Radar / ECDIS,
Gyrocompass,
Magnetic compass,
Speed log,
Autopilot,
GPS,
2 DGPS (for DP),
Echo sounder,
AIS,
GMDSS,
Inmarsat C
Radio VHF Class A
VSAT



DYNAMIC POSITIONNING SYSTEM

1 Kongsberg DP system (class 2) comprising:

- 2 DGNSS (combined GLONASS and DGPS), including Follow target function, motion prediction and DP capability analysis functions.
- 1 Cyscan
- 1 RadaScan,
- 2 UPS
- 2 MRU, 3 wind sensor
- 2 INS (inertial navigation system) MGC R1

ALARM & MONITORING SYSTEM

1 Bonning IAMCS system control: Engines, main and emergency generators and thrusters
1 K-IMS (Kongsberg Information Management System): heading, wind, motions, DP alerts

CCTV

CCTV system covering:
Deck, ROV LARS, diving LARS, wheelhouse, engine room, subsea images from ROV and diving, DP system supervision and engine room control

Particulars may change without previous notice.