

DSV CIDADE OURO PRETO

Air Diving with Light Work Class ROV

BELOV



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

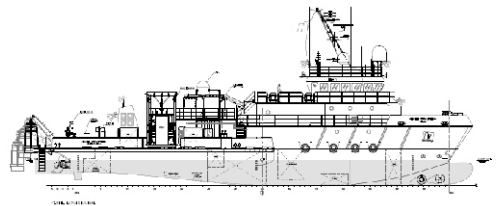
Vessel Name: Cidade Ouro Preto
Type: Diving Support Vessel (Petrobras SDVS)

Class: RINA C ⚓ Special Service - Working Boat Unrestricted Navigation - DP2

Year: 2013

Builder: INACE Indústria Naval do Ceará

Owner: BELOV Group



MAIN PARTICULARS

DIMENSIONS

Length overall	42.20 m
Moulded breadth	10.56 m
Depth	3.75 m
Draft	2.59 m
Deadweight	551.90 t
Net tonnage	147 TAL
Gross tonnage	461 TAB

CAPACITIES

Deck capacity	5.0 t/m ²
Fuel oil	121.62 m ³
Fresh water*	27.73 m ³

*Includes redundant fresh water generators (reverse osmosis)

ACCOMMODATIONS

Accommodation for	37 POB
Cabins	11
Hospital	1

1 mess room, laundry, galley, stores, diving control room, ROV control room, 1 office, gym.

Diesel oil filtration system:
GEA Westphalia with CJC separator

OPERATION

PROPULSION - MACHINERY

Diesel engines	3 x 520 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

PERFORMANCE

Trial speed	11 knots
Economic speed	8 to 10 knots

EQUIPMENT & ELETRONICS

DECK EQUIPMENT

Main knuckle boom crane: 1 MELCAL Offshore Crane Foldable Telescopic Boom (Model FL20T1)			
Luffing (min/max boom angle)	-45/78°	Load capacity @ 6.15 m (max)	1.400 kg
Slewing range	360°	Load capacity @ 4.30	2.000 kg

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

ELETRONICS

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

GENERAL EQUIPMENT

Black water pump	1 x 5 m ³ /h
Gray water pump	1 x 5 m ³ /h
Ballast pump	2 x 130 m ³ /h
Bilge water separator	1 x 1 m ³ /h

SAFETY EQUIPMENT

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

Fire-fighting/black water pump 2 x 55 m³/h
Emergency fire-fighting pump 1 x 25 m³/h

DIVING EQUIPMENT

AIR DIVING EQUIPMENT (50 M DEPTH)

Diving A-frame with open bell	3.00 t
Man-rider Winches by Ekron model EKPH-MR-2,5T	2 x 2.50 t
Decompression chamber model Deco 1800 by Totalmat	1 each

Air quads, compressor, filters, etc.

ROV EQUIPMENT

ROV A-frame	2.00 t
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

PORTABLE CURRENT METER

Valeport 106 portable current meter	1 x 50 m depth
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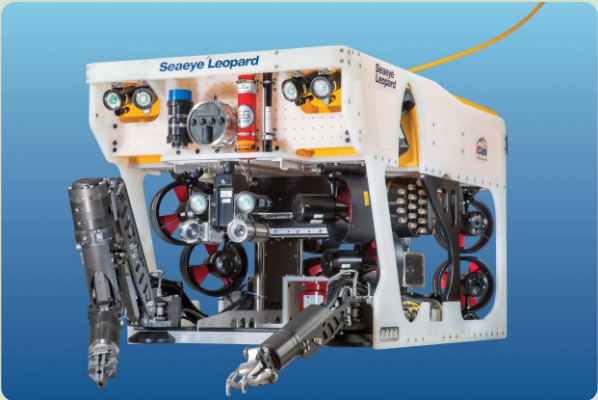
DYNAMIC POSITIONNING SYSTEM

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
- 4 MRU-PD, 3 wind sensor
- 2 INS (inertial navigation system) MGC R1

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.





www.belov.com.br

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