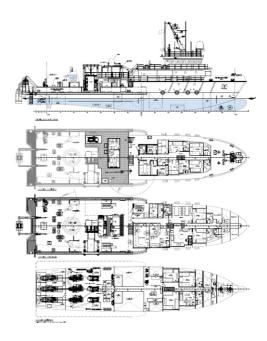
# **DSV Cidade Ouro Preto** Air diving with light work class vehicel



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 Class: C ✤ Special Service - Working Boat Unrestricted Navigation - DP2 Year: 2013 Flag: Brazilian Owner: BELOV Engenharia S.A.



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MAIN PARTICULARS						
DIMENSIONS		ACCOMMODATIONS				
Length overall	42.20m	Accommodation for 37	' pax			
Breadthmoulded	10.56m	Cabins	<u>_</u> 11			
Depth	3.75m	Hospital	1			
Draft	2.59m					
Deadweight	551.9t	1 mess room, laundry, galley, stores,				
Net tonnage	147	diving control room, ROV control roor	n,			
Gross tonnage	461	1 office, gym.				
CAPACITIES	l					
Deck capacity	5.0 t/m <sup>2</sup>	Diesel oil filtration system:				
Fuel oil	60.0 (121,62) m <sup>3</sup>	GEA Westphalia with CJC separator				
Fresh water*	10 (27,73) m <sup>3</sup>					

\*Includes redundant fresh water generators (reverse osmosis)

### OPERATION

#### **PROPULSION - MACHINERY**

Diesel engines
Main generators
Emergency generator
Main waterhets
Bow tunnel thruster

#### 3 x 250 kW 3 x 250 kW 1 x 72 kW 3 x 520 kW 2 x 225 kW

#### PERFORMANCE

Trial speed Economic speed

11 knots 8 to 10 knots

Remark: vessel is diesel-electric

# **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
Slewing range	360°	Load capacity @ 4.30

#### **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

#### **GENERAL EQUIPMENT**

Black water pump Gray water pump Ballast pump Bilge water separator

 $1 \times 5 \text{ m}^{3}/\text{h}$  $1 \times 5 \text{ m}^{3}/\text{h}$ 2 x 130 m<sup>3</sup>/h  $1 \times 1 \text{ m}^{3}/\text{h}$ 

Load capacity	@	6.15 m (max)	1.400 kg	
Load capacity	@	4.30	2.000 kg	

#### **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

#### 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 m<sup>3</sup>/h Emergency fire-fighting pump 1 x 25 m<sup>3</sup>/h

Particulars may change without previous notice. © Belov Group: 2024.

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# **DIVING EQUIPMENT**

#### AIR DIVING EQUIPMENT (50 M DEPTH)

Diving A-frame with open bell3.0 tonMan-rider Winches by Ekron model EKPH-MR-2,5T2 x 2.5 tonDecompresion chamber model Deco 1800 by Totalmat1 each

Air quads, compressor, filters, etc.

#### **ROV EQUIPMENT**

ROV A-frame2.0 tonROV AHC Winch Ibercisa Model MO-E/75/1000-26,721 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

#### **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-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.



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