FISHERY RESEARCH VESSEL 7417
“BAIA FARTA”

GENERAL
Yard number 556069
Delivery date October 2018
Basic functions Fishery, geological and hydrographical research, environmental sampling
Classification DNV: #1A1- E(0)-SPS- COMP V(2) C(1)-SILENT-A/F/R-Dynamic Position DPS2
Underwater noise Compliant with ICES, CRR report 209
Basic Design Skipsteknik, type ST-368
Owner Ministry of Fisheries of Angola

DIMENSIONS
Length overall 74.10 m
Beam overall 16.40 m
Depth 8.70 m
Draught (design) 5.30 m

TANK CAPACITIES
Fuel oil capacity 430 m³
Fresh water capacity 120 m³
Stability tank Controlled passive Hoppe system

PERFORMANCES (APPROX.)
Speed (90 % MCR) 15.0 kn
Bollard pull 30.0 t

RANGE (APPROX.)
9000 nautical mile (29 days at 13 knots)

PROPELLION SYSTEM
Main drive 2x AC electric motors in tandem
Output max. 2 x 1650 kW/180 rpm, silent execution
Propeller 1x FPP 3600 mm in extreme low noise configuration
Bow thruster FPP retractable type, e-motor, 700 kW
CPP tunnel type, e-motor, 600 kW
Stern thruster CPP tunnel type, e-motor, 400 kW

AUXILIARY EQUIPMENT
Generator sets 2x Wärtsilä 9L20, 1710 kW/690V
1x Wärtsilä 6L20, 1140 kW/690V
Emergency generator set 1x Caterpillar C6.6 ACERT, 125 kW

DECK EQUIPMENT
Deck cranes 1x 8 t at 15 m, 1x 1.5 t at 8 m,
A-frames 1x 25 t, 1x 10 t
CTD retractable beam 1x 6 t in hangar
Split trawl winches 2x 30 t, 5000 m wire
Gislon winches 2x 12 t 290 m wire
Net drum winches 1x 35 t, 10 m³ / 1x 25 t, 2x 10 m³
Net sounding winch 1x 5.6 t, 4700 m wire
CTD winch 1x 6 t, 6000 m wire
Hydrougraph. winch 1x 4 t, 2000 m wire
Generator purpose winch 1x 10 t, 2000 m wire/1x 5 t, 2500 m wire
Dropkeels 2x 3 m under keel

ACCOMMODATION
Fully air-conditioned accommodation for 51 persons
(29 crew and 22 scientists)

LAB AND WORK AREA’S
Main environmental Lab.
Analysis Lab. (Plankton)
Chemical Lab.
Dry Lab. (Data collecting centre)
Fish Lab.
Fish Processing area

SURVEY EQUIPMENT
Double (2x) Retractable keel for lowering scientific transducers.
Split beam echo sounder, Simrad EK80
Multi beam echo sounder, Simrad MS70
Omni directional sounder, Simrad SU90
Trawl monitoring system, Simrad Pi and FX80
Bottom sounder, Kongsberg EA640 12/200 kHz (optional)
Deepwater multi beam echo sounder, Kongsberg EM122 1x2 degree
Acoustic positioning system, Kongsberg HIPAP 501 system
Acoustic Doppler Current Profiler with a 38+150 kHz transducer
GeoAcoustic system, Kongsberg GeoPulse Plus
Thermosalinograph, Seabird SBE21
CTD and Rosette sampler, Seabird SBE911 and SBE32 (24 bottle of 10ltr)
Motion Reference Unit and extensive meteorological instruments.
ROV, Saab Seeye Leopard - up to 1500 m depth (optional)

NAUTICAL AND COMMUNICATION EQUIPMENT
Radio equipment according to GMDSS rules for Area A3.