

80.0 TONS BOLLARD PULL ANCHOR HANDLING TUG CUM SUPPLY VESSEL

GENERAL

Year built	
Builder	Bharati Shipyard Ltd., Mumbai, India
Designer	Havyard
Port of Registry	
Call sign	
Class	IRS
Owners	Shipping Corporation of India
Official Number	
Deck cargo	About 700 tons with VCG of 0.9m above deck
Clear deck space	400m ² (aft)

DIMENSIONS

Length Overall	64.8m
Breadth Moulded	15.7m
Depth Moulded	7.00m
Draft, normal oper	5.00m
Draft, summer	5.8m
GT.	~ 2040
NT	~ 686
DWT at assigned draft	~ 2000 tonnes @ 3.8 m draft
Speed	13.5 knots (trial draft -4.45m)
Classification	+Sul Tug/Supply vessel STS, +IY, SYJ, GS(SK), AGNI1, "Deck strengthening 5T/sq m) Mud tankers carrying heavy liquid (2.5T/m ³ mud)

MACHINERY (Propulsion system and thrusters by Rolls Royce)/ Equ.

Main Engine	CAT make - Min. 2400 KW
Propellers	Schottel make - 2 nos. Controllable pitch propellers in Kort nozzles
Rudder	Rolls Royce make - 2 nos. Flap type Rudders
Bow thruster	HRP make - 2 nos. of 400 KW (driven by electric motor)
Stern Thruster	HRP make - 1 no. of 400 KW (driven by electric motor)
Generators	CAT 2x320 KW Diesel generator, 2x800 KW shaft generator, Cummins 1x65 Kw (Abt) Emergency generator
Joystick Control	Rolls Royce make

ANCHOR HANDLING & TOWING

Bollard Pull	80.0T minimum @ 100% MCR (static ahead)
AHT Winch	PLIMSOL make - Twin drum winch with spooling gear
Line pull	160 Tons @ 10M/min on first layer
Brake capacity	200 Tons
Drum capacity	62mm x 1500mm (Towing wire drum capacity) 62mm x 1500mm (anchor handling wire drum)
Rig chain wildcats	Suitable for chain
Control	Wheelhouse & local
Storage wire reels	62mm" x 1500mm x 2 nos.
Tugger winches	2 x 12 tonnes @ 8m/min
Stern roller	1.5m dia x 3.6m length
Shark Jaw tow pin	200 tonnes
Rig chain locker	151 m ³ (Aft deck strengthened)

Deck strength	5t/m ² from stern roller up to frame 17, 5t/m ² forward of frame 17
Fuel oil	590 m ³ (includes 150 m ³ that can be carried in base oil/fuel oil tank)
Drill/ballast water	1000 m ³ (includes 460 m ³ that can be carried in mud/drill water tank)
Potable water	450 m ³
Dry bulk: 4 Tks capacity	220 M ³
Liquid mud	2 tanks, total capacity 460 m ³
Brine tank	150 m ³
Base oil	150 m ³
Freezer room	10m ³
Chiller room	10 m ³
PUMPING	
Fuel oil	200m ³ /hr x 80m (total head)
Drill water	200m ³ /hr x 90m
Fresh water supply	200m ³ /hr x 80m (total head)
Bulk	Rolls Royce or equ. supplied discharge system 23.2 m ³ /min @ 5.6 bar
Liquid mud	2 Pumps of capacity 75 m ³ /hr x 18 bar each (specific gravity of 2.5)
Brine pump	75 m ³ /hr @ 18 bar
External Fire fighting (FI - FI 1)	
1main engine driven pump	3050 m ³ /hr total capacity x 15.0 bar
Monitors	2 monitors, one water jet monitor and one water/foam changeable jet monitor operable remotely from wheel house.
Foam tank	10 m ³
Dispersant tank/nozzles	10m ³ / 2 nos. on forecastle deck
Anchor & Mooring	
Anchors	2 x 1575 kg HHP Anchors
Capstans	10 tons @ 9.4 m/min
Officers & crew	6x1 man cabin, 1x2 men cabin, 3x4 men cabin (total 20 persons)
Character	4 x 3 berth (total 12 persons)
Total	32 berths, fully air conditioned
Navigation & Communication	
Radars (2 sets)	
Echo Sounder	
Auto Pilot	
Gyro Compass	
Doppler speed log	
Navtex	
DGPS	
GMDSS (A1+A2+A3) Equipment	
Fog signaling system	
Anemometer (digital)	
P.A. system	
AIS	
Integrated joystick	
Inmarsat Fleet 77	
Miscellaneous	
One hydraulic driven crane, hoisting capacity 5 tons of about 10m radius.	
Work boat - 9 man capacity, 20 knot (with 3 persons)	
Fire fighting & Life saving	
As per SOLAS	