

Rev. No.	Pages	Description	Date	Sign.
0	4	For Procurement	15-05-2026	ARGHYA KAMAL ACHARYA
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HOOGHLY COCHIN SHIPYARD LIMITED

HOWRAH - 711 109

YARD NO	01124001, 01224002, 01324003, 01424004	PROJECT: 40 T BOLLARD PULL ASD TUG PURCHASE TECHNICAL SPECIFICATION FOR JUNCTION BOX & ELECTRICAL ITEM
OWNER	INDUSTRIAL HANDLING PRIVATE LIMITED	
APPROVED	SIVA PRASAD <i>[Signature]</i>	
CHECKED	ARGHYA KAMAL ACHARYA <i>Arghya Kamal Acharya</i>	
PREPARED	ARABINDA LAKRA	
DATE	15-05-2026	
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ISSUED TO	NO. DEP.	
	NO.	

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SECTION A – GENERAL SPECIFICATIONS

1.1. Introduction

The 40 T Bollard Pull Azimuth Stern Drive (ASD) tug vessel shall be designed by Robert Allan Ltd. Canada, and built by Hooghly Cochin Shipyard Ltd, a wholly owned subsidiary of Cochin Shipyard Ltd. As a part of this tender yard indents to procure, battery charger for the batteries. All required accessories to be included in the scope of supply.

1.2. Quantity

Total requirement is for 04 vessels.

Total 70 nos required of junction box (Pvc).

Total 03 nos required of star delta motor stater.

Total 06 nos required of FIFI monitor junction box.

Total 15 nos required of timer.

Total 03 nos required of Industrial switch & socket

1.3. Class & Flag Rules

The vessels shall be built under the following flag and classification:

Flag	:	India
Classification	:	Indian Register of Shipping.
Class Notation	:	☞ SUL ☞ IY TUG INWATER SURVEY AGNI 1 (2400 m ³ /hour) Type: "Indian Coastal Vessel"

1.4. Rules and Regulations

Tug shall be built in compliance with all relevant International Standards as applicable at the time of construction, including (but not limited to) the following.:

- a. COLREGS - International Regulations for Preventing Collisions at Sea
- b. Load Lines, 1966/1988 - International Convention on Load Lines, 1966, as Amended by the Protocol of 1988
- c. MARPOL - International Convention for the Prevention of Pollution from Ships
- d. Tonnage - International Convention on Tonnage Measurement of Ships, 1969
- e. 2008 IS Code – International Code on Intact Stability, 2008
- f. International Labour Conference – Maritime Labour Convention, 2006
- g. IMO regulations A 468 (Noise levels) and ILO Recommendation R141 as far as practicable for tugs.
- h. International Convention on the Control of Harmful Anti-Fouling Systems on Ships, 2001
- i. ASTDS For Indian tug vessels.

1.5. Guarantee

The equipment and accessories shall be guaranteed against defective design, material and workmanship and under performance till, for a period as mentioned in commercial terms and

SECTION B – TECHNICAL SPECIFICATION

1. JUNCTION BOX (PVC)

Electrical cables enter the junction box through cable glands or conduit. Inside the box, wires are connected using terminals, and the enclosure safely protects those connections.

1.1. DIMENSION- (100×100×160) =70NOS.

2. STAR DELTA MOTOR STARTER-3Nos.

Star Delta Starter for 20HP motor, with timer

3. JB for FIFI Monitor

3.1. IP-67 DIMENSION-(295×195×100) =3NOS.

3.2 IP-67 DIMENSION-(500×300×230) =3NOS

4. TIMER- coil voltage 230vac, Potential free contact-2NO+2NC, On delay timer 0-60sec 15Nos

A timer receives an input signal or power supply and starts counting time. After the preset time is reached, it changes the output state (ON/OFF) according to this function.

5. INDUSTRIAL SWITCH & SOCKET-1 SET

Wall mounted Industrial switch & socket, Plug .5 pin. IP 66.16A 3P+E - 2 SOCKET CONTROLLED BY 2 SEPERATE MCB

40A 3P+E - 2 SOCKET CONTROLLED BY 2 SEPERATE Co-operation Voltage :415vac, 3ph. Cable Entry Bottom. Including Earthing pin attached in enclosure