



UDUPI COCHIN SHIPYARD LIMITED

Malpe Harbour Complex, Malpe,
Udupi, Karnataka – 576 108, India.
Tel – 0820 2538604

MATERIALS DEPARTMENT

CORRIGENDUM - 3

EXTENSION OF TENDER OPENING DATE & REVISION IN PURCHASE TECHNICAL SPECIFICATION

Tender No.: UCSSL/MAT/2023-24/008

Date: 12.05.2023

Sir,

CORRIGENDUM-3 - TENDER FOR SUPPLY & COMMISSIONING OF RESCUE BOAT & DAVIT FOR UCSSL Y163 & Y164

The following terms of the subject tender is amended as follows:

Sl. No.	Description	FOR	READ AS
1	Last date for Receipt.	15 th May 2023, 15:30 Hrs	22 nd May 2023, 15:30 Hrs
	Technical Bid Opening date.	15 th May 2023, 15:30 Hrs	22 nd May 2023, 15:30 Hrs
2	Annexure 1 - Purchase Technical Specification	PTS-163-027 Rev0	PTS-163-027 Rev1

All the other terms and conditions of the tender enquiry and corrigendum - 1 & 2 remains unchanged.

For Udupi Cochin Shipyard Limited,

Assistant General Manager (Materials & Contract Cell)

सोणि क्लेमेन्ट टी एम
SONY CLEMENT T M
सहायक महाप्रबंधक / ASSISTANT GENERAL MANAGER
उडुपि कोचीन शिपयार्ड लिमिटेड
UDUPI COCHIN SHIPYARD LIMITED
माल्पे, कर्नाटक / MALPE, KARNATAKA-576 108

Rev. No.	Rev. Status	Pages	Description	Date	Sign.
0	-	09	First Issue	31-03-2023	Riyas Mydheen
1	-	09	Rescue Boat Material is changed	09-05-2023	Riyas Mydheen



70T BOLLARD PULL ASD TUG

This document contains a total of 09 pages.

Rev. 1



UDUPI COCHIN SHIPYARD LTD (A Cochin Shipyard Company)

YARD NO	Y163 - 164	70T BOLLARD PULL ASD TUG													
OWNER	POLESTAR MARITIME	PURCHASE TECHNICAL SPECIFICATIONS FOR RESCUE BOAT AND DAVIT													
APPROVED	RAM MOHAN B 														
CHECKED	RIYAS MYDHEEN M 														
PREPARED	RIYAS MYDHEEN M														
DATE	09-05-2023	Doc. No.: PTS-163-027													
ISSUED TO	DEP														
	NO														

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UDUPI COCHIN SHIPYARD LTD
(A COCHIN SHIPYARD COMPANY)
MALPE – 576108 INDIA

70T BP ASD

Yard No.

Y163 -164

SECTION A – GENERAL SPECIFICATIONS

1. Introduction

The 70 T Bollard Pull Azimuth Stern Drive (ASD) tug vessel shall be designed by Robert Allan Ltd. and built by Udupi Cochin Shipyards Ltd (UCSL)., a fully owned subsidiary of Cochin Shipyard Ltd. This document intends to supply of complete **Rescue Boat & Davit** listed in the next chapter. The design, supply of all required accessories and obtaining class approvals for the equipment also to be included in the scope of supply.

2. Name & Quantity

Rescue Boat& Davit : 1 Set. / vessel

The quantity indicated above is for only one (1) vessel. The total requirement is to be considered for two (2) vessels. The technical specifications of the equipment shall be as per Section-B of this document.

3. Class & Flag Rules

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

Flag : India

Classification : American Bureau of Shipping (ABS).

Class notation : ~~A~~**A1, (E), Towing Vessel, FFV 1, ~~AMS~~, BP (70T);**

Vessel structure to be designed for unrestricted navigation
and to be classed as **Ocean Going vessel**

Complement : Up to 12 persons

4. Rules and Regulations

The vessel shall be built in compliance with all relevant International Standards as applicable at the time of construction, including (but not limited to) the following. Exemptions on any requirements of these regulations, as deemed necessary considering the operational needs of the vessel are to be obtained from relevant Authorities/Class:

- 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) NOx Technical Code (2008) – IMO II Engine Emissions (latest ME and AE emission requirements)
- e) Tonnage - International Convention on Tonnage Measurement of Ships, 1969
- f) 2008 IS Code – International Code on Intact Stability, 2008
- g) International Labour Conference – Maritime Labour Convention, 2006
- h) IMO regulations A 468 (Noise levels) and ILO Recommendation R141 as far as practicable for tugs.
- i) International Convention on the Control of Harmful Anti-Fouling Systems on Ships, 2001



- j) IEC Standard and recommendation for GMDSS sea Area A3.

5. Certification, Testing and Inspection

- a) All certificates as required by SOLAS, Classification society, IMO rules, regulations and resolutions shall be provided.
- b) Manufacturer's shop tests and inspection shall be carried out in accordance with the manufacturer's standard and the requirements of the ABS Rules and Regulations and the test results and certificates shall be supplied as applicable.
- c) All necessary documentations/drawings complying the above rules shall be submitted to & ABS by the firm for approval, if required. Suppliers are requested to consider/include drawing approval from classification society (ABS) under their scope of supply if applicable.

6. Design Conditions

The following ambient conditions shall be considered for the selection of the Vessel's equipment and machinery. Machinery shall be able to deliver its specified output and operate satisfactorily under tropical conditions as mentioned below:

Sea water temperature	:	max. 32° C min. 5° C
Air temperature outside	:	max. 40° C min. 10° C
Relative Humidity	:	max. 90% min. 50%
Engine Room temperature	:	50° C

List, rolling, trim and pitch according to limits as per Class

Above requirements to be considered as minimum, any other requirements which are necessary to meet class/IMO/flag rules/regulations shall be considered for design and operation of the equipment.

7. Electric Power Supply

- a) The electric power supply available onboard is as follows.
- 415VAC, 50 Hz, 3Φ, 3 Wire
 - 230VAC, 50 Hz, 3Φ, 3 Wire / 1Φ, 2 Wire
 - 24VDC
- b) Any other voltage other than the above should be derived by the firm by using necessary built-in arrangement. All type of power supplies requirements with number of feeders and power rating are to be listed out in the offer.
- c) Electrical fittings shall be suitable for tropical and marine environment at an ambient temperature of 50°C. Electrical fittings, wirings and controls shall comply with the classification requirement and shall meet relevant IEC standard.

8. Supply of Documents

All documents shall be in English and in SI unit system and the following documents shall be submitted, where applicable. The drawing approval where required by the Classification Society shall be obtained by the manufacturer.



8.1. Documents to be submitted along with offer

- a. Technical offer containing the specifications of the rescue boat, davit and other major components and their applicable standards.
- b. General arrangement drawing of the equipment with dimensional details.
- c. Weight details.
- d. List of spares / tools as required by class& manufacturer (if any).
- e. Type approval certificate if any.
- f. Scope of supply list.
- g. Deviation List.

8.2. Documents to be submitted within 21 working days after placement of Order/LOI/As per final agreement

- a. Detailed Bill of Material.
- b. General Arrangement along with dimensions showing maintenance space required around the equipment in Auto CAD/Dxf format.
- c. Mounting/ Footprint arrangement drawing and fasteners details.
- d. Installation and commissioning details.
- e. Technical datasheet of each individual components containing model no., type, capacity, electrical details, power required, material of construction etc.
- f. Lifting Arrangements.
- g. Weight and CG details of each item in the system.
- h. Electrical schematic system diagrams, internal wiring diagram with terminal numbers marked.
- i. Wiring diagram and connection diagram of whole system including all junction boxes, starter panels, control panel etc with cable details.
- j. Cable included in the scope along with Yard cables to be clearly indicated.
- k. Detailed definition of all terminal points and interfaces.
- l. Operation, Installation, Maintenance and Troubleshooting Manual.
- m. Details of shop tests and inspection for all items.
- n. List of spares / tools as agreed.

8.3. Documents to be submitted along with delivery of Machinery and/or Equipment to the Yard (4 sets / vessel unless otherwise mentioned)

- a. Class/ Type approval certificates for equipment as applicable.
- b. Manufacturers Test certificate as applicable (3 copies/vessel with original)
- c. Test and inspection results if any.
- d. Packing list (with reference to each item of Bill of Materials)



- e. Installation, Operation, Maintenance manuals (3 sets and one soft copy in CD)
- f. Any other certificate required as per international regulations in force.

9. General Remarks

a) Name Plate (s)/Caution Plate (s) and Instrumentation

The name plate(s) and caution plate (s) shall be written in English indicated in SI unit. All major machinery, electrical and equipment shall be provided with identification nameplates made from stainless steel/brass plates as per manufactures standard and label plates indicating equipment type, capacity, electric rating etc. shall be fitted as per manufacturer's standard. Instrumentation shall also be indicated in SI unit.

b) Liability

Manufacturer shall bear all responsibilities for the shop trials and the delivery of the machinery or equipment.

c) Piping Flange

Piping end connection shall be as per EN1092-1 Type 01 PN10/ PN16 Flat Face as applicable. If there is any deviation with the standard mentioned above, then mating flanges shall be supplied for all end connections by the firm.

d) Screw Thread

Screw thread if any, shall be in accordance with ISO standard.

e) Grease Nipple

Pin type grease nipple, where grease is supplied shall be used.

f) Painting

Painting schedule shall be as per manufacturer's standard and the painting scheme shall be specified.

g) Preservation

Recommended method of preservation and names of recommended preservatives shall be indicated. Maximum R.H. (Relative Humidity) at Malpe in Karnataka is around 80% and minimum R.H is at around 60%.

h) Special Tools

Special tools if any required for installation have to be supplied with the equipment.

i) Instruments

All necessary instruments to be supplied by the firm.

10. 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 conditions. Guarantee of the equipment shall be as per commercial terms and conditions.



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11. Support of commissioning engineer:

Required support and assistance of OEM experts free of cost for commissioning number of days not less than one trip of 3 days for each vessel. The exact date shall be intimated with 14 days' notice.

12. Compliance Matrix

A compliance matrix in the following format shall be submitted by the supplier along with the offer. Deviations from the Technical specification shall be specifically indicated.

Vendor name and address:				Spec. No /Offer No:	
				Page No:	
Item description:				Ship: Y163 -164	
Sl. No.	Spec. Clause no.	Requirement	Status (A/N/C*)	Deviation/ Reason	For UCSL comment

A-Acceptable, N-Not Acceptable, C-Conditional acceptance.



SECTION B – TECHNICAL SPECIFICATIONS

1. General Requirements

- a) The system and its accessories must be suitable for marine applications and function smoothly at design and environmental conditions mentioned in section A of this document, without any undue effect.
- b) It should withstand air contamination through oil, salt and other contaminants associated with the marine environment.

2. Technical Requirements

- a) One set of **Rescue Boat and Davit** complying with SOLAS, IMO resolutions and ABS classification society rules and regulations to be supplied along with required certifications.

- b) Rescue Boat:

Type	: Life boat cum Rescue Boat of approved type
Length	: ~4.2m
Breadth	: As per maker's standard
Height	: As per maker's standard
Material	: Inflatable
Propulsion System	: ~15HP gasoline outboard gasoline engine (self-propulsion)
Painting	: As per maker's standard
Weight	: To be specified by the OEM.

Suitable lifting arrangements shall be provided in the rescue boat.

- c) Davit:

Type	: Davit of approved type for life boat cum rescue boat Hydraulic slewing single arm type
Length	: Suitable for the lifeboat cum rescue boat
Min. Outreach	: ~4.5m
Capacity	: capable of carrying the weight of the lifeboat cum rescue boat with its full complement and equipment.
Operation type	: Fixed electric motor driven winch and shall be capable of manual operation in emergency
Hoisting height	: reference as per attachment
Lowering speed	: As per SOLAS, LSA
Weight	: To be specified by the OEM.
Motor Protection	: IP56 / Insulation 'F'



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1. Davit complete with winch and hydraulic system for handling life boat cum rescue boat is to be supplied.
2. The davit shall be of approved type and shall conform to the requirements of SOLAS, LSA Code including its latest amendments and all other applicable Rules and Regulations.
3. Davit shall be equipped with both on electrical driven winch. Manual operation of winch shall also be possible.
4. Slewing angle of davit through electrical should be min. **215 degree**. The davit should be capable of being slewed through stored hydraulic power to an angle of upto **215 degree**. The stored hydraulic power should be independent of ship's power supply.
5. The davit should also contain **manual slewing option** in case of emergency.
6. Motor shall be suitable for mounting on open deck and provided with main switch, start/ stop push button, 'power on' indicator, 'heater on' indicator, overload and under voltage protection, ammeter and running hour meter (motors above 15kW) shall be provided.
7. The hoist operation to be facilitated with a hand-held push-button remote-control device (IP56 or above) with 3m cable. The same shall be with a stowing arrangement on the davit control panel
8. Electric cabling on the davit up to the motor starter (all units to be pre wired. Yard will provide cable only for connecting to the ship's power network). Necessary cable glands for all the bottom of the starter panel. Dummy cable glands shall be provided for the spare holes if provided in the gland plate.
9. The lowering of life boat cum rescue boat shall be by means of gravity or stored mechanical power which is independent of ship power supplies for launching life boat cum rescue boat in fully loaded and equipped condition.
10. Manual operation for launching of life boat cum rescue boat shall also be provided on davit.
11. Limit switches are to be with suitable IP grade for mounting on weather deck as per class rules.

All necessary rope and fittings required for lifting rescue boat to be added in the scope of supply.

Note: Notwithstanding any omission in these specifications, all required accessories required for the functioning of the equipment should be supplied along with the equipment. Any deviation with the purchase specifications shall be clearly mentioned in the offer.



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3. Attachment:

General Arrangement Drawing for the location of Rescue boat & Davit

