

**TENDER NO. UCSSL/CC/T/ TUG/302 DT.:03-12-2024**

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**TENDER FOR ELECTRICAL OUTFITTING, CABLE LAYING,  
TERMINATION & COMMISSIONING OF ELECTRICAL SYSTEMS OF 70  
TON BOLLARD PULL ASD-TUG**

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UDUPI COCHIN SHIPYARD LIMITED

**UDUPI COCHIN SHIPYARD LIMITED**  
**MALPE, UDUPI 576108**





UDUPI COCHIN SHIPYARD LIMITED  
Tender for Electrical Work of 70 -Ton Bollard Pull ASD-Tug  
UCSL/CC/T/TUG/302 DT: 03rd Dec 2024

## TENDER NOTICE

Tender No. & date	UCSL/CC/T/TUG/302 DT: 03 <sup>RD</sup> DECEMBER 2024
Name of work	<b>Tender for Electrical Outfitting, Cable Laying, Termination &amp; Commissioning of Electrical Systems of 70 Ton Bollard Pull ASD-Tug</b>
Last date & time of receipt of tender	<b>12<sup>TH</sup> DECEMBER 2024 (THURSDAY), 15:30 HRS.</b>
Date & time of opening of Technical Bid (Part-I)	<b>12<sup>TH</sup> DECEMBER 2024 (THURSDAY), 15:30 HRS.</b>

1. Password protected quotations in the prescribed format is invited from bidders, for the work specified above, subject to the terms and conditions as mentioned in the annexure to the tender enquiry so as to reach the undersigned by email mentioned on or before the date and time as stipulated.

2. **The following shall be submitted along with the quote: -**

### **PART- I: TECHNICAL BID**

- a. **Tender document duly signed on all pages** - Including Terms & conditions, Scope of work and indicative Quantum of work placed at Annexure I, II and III respectively
- b. **The Techno commercial Check List** at Annexure VI to be filled up completely and duly signed.
- c. Duly filled form at Annexure – IV & VII
- d. **Unpriced Price bid** (Price bid without price and marked as "QUOTED") to be submitted along with Part-I.

### **PART-II: PRICE BID**

- a. The price bids shall be prepared based on the price bid format at Annexure V.

**3. Mode of Submission of Quote:**

- i. Bid shall be submitted as **Password Protected Zip File** in two parts.  
Part I: Technical Bid – with all enclosures and annexures as mentioned in Para 2 above  
Part II: Price Bid.
- ii. The files are to be forwarded as **Two (2) separate password protected Zip files** to [contractcell@udupicsl.com](mailto:contractcell@udupicsl.com)
- iii. **Part I and Part II are to be protected with separate and distinctly different passwords.**





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- iv. The Bids will be opened on online mode during which the bidder will be advised to share the password through SMS with which the technical bid will be opened.
  - v. The price bids will be opened after technical evaluation and **only the technically qualified bidders will be invited for opening of price bids** which shall also be conducted on online mode as above.
  - vi. The bidders can also attend the bid opening physically at Udupi Cochin Shipyard Limited, Baputhotta Ware house complex Office, Udupi, Karnataka, India.
  - vii. The contractors can also submit the quotations in sealed covers (Two-Bid) – as separate sealed covers for Technical Bid and Price bid, both enclosed in a common sealed cover to reach the below mentioned address before the stipulated time.
4. The bidders shall ensure the receipt of bids at [contractcell@udupicsl.com](mailto:contractcell@udupicsl.com) An acknowledgement mail shall be sent to the bidders on receipt of bids. UCSL takes no responsibility for delay, loss or non-receipt of tenders by mail by the stipulated time.
  5. The tender should be addressed to the **Assistant General Manager (Material & Contract Cell), Udupi Cochin Shipyard Limited, Malpe Harbor Complex, Malpe, Udupi 576 108, Karnataka, India.**
  6. No deviations on the tender conditions will be accepted, and bids with deviations will be considered technically disqualified. The acceptance of a tender or part thereof will rest with the Assistant General Manager (Materials & Contract Cell), Udupi Cochin Shipyards Limited, tender and reserves the authority to reject the tender received without assigning any reason.
  7. Contact Person: Mr. Sarun Babu E B, Ph. No: +91 8592048487.

Assistant General Manager (Material & Contract Cell)

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





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## TERMS AND CONDITIONS

### TENDER FOR ELECTRICAL OUTFITTING, CABLE LAYING, TERMINATION & COMMISSIONING OF ELECTRICAL SYSTEMS OF 70 TON BOLLARD PULL ASD-TUG

#### 1. DESCRIPTION OF WORK

- 1.1. This tender enquiry pertains to the awarding of contract for "Electrical Outfitting, Cable laying, Termination & Commissioning of Electrical Systems for UY-171 to UY-174" (04 No's) of 70T Bollard Pull ASD-Tug to be built at Udupi Cochin Shipyard Limited (UCSL), Malpe, Karnataka.
- 1.2. The work includes Electrical equipment installation, cable laying, cable gland termination, commissioning of electrical systems as required to the satisfactory completion of works in accordance with the requirements of UCSL, Classification society and owner requirements.
- 1.3. Infrastructure and Consumables: The contractor shall complete the work with the available infrastructure facilities and materials provided by Udupi Cochin Shipyard Ltd (UCSL) in accordance with the enclosed Specifications, delivery schedule and UCSL - General Terms and conditions in all respects
- 1.4. Consumables:
- Gases (DA, Oxygen, CO2 and Argon) will be provided free of cost by UCSL
  - Welding consumables: All welding consumable shall be provided by UCSL on chargeable basis. The charges applicable for welding electrodes are mentioned below:

<b>Welding Electrodes</b>	<b>Rate</b>
Flux Cored GMA (CO2) welding wire 1.2mm	Rs 278 Per kg
MIG Coil 671T 1C 1.2mm	Rs 159 Per kg
Welding electrode: E 6013: 2,5 mm	Rs 215 Per kg
Welding electrode: E 6013: 3,15 mm	Rs 156 Per kg
Welding electrode: E 6013: 4 mm	Rs 130 Per kg
Welding electrode: E 7018: 4 mm	Rs 130 Per kg
Welding electrode: E 7018: 3.15 mm	Rs 130 Per kg
SAW Filler Wire EHI 4mm Dia Coil	Rs 158 Per kg
SAW FLUX Wire 70, S2 2.4mm	Rs 113 Per kg

\*The above prices are inclusive of GST @ 18%.

- 1.5. Welding electrodes and gases used for fabrication / erection purposes are supplied by UCSL only.
- 1.6. The work is to be carried out at the skid area allocated to the contractor (s) inside UCSL Malpe premises.
- 1.7. **You are requested to obtain clarifications, if any, and carefully study the documents and the scope of services and UCSL, before submitting your offer.**
- 1.8. The Agencies are advised to familiarize themselves with the site conditions before quoting.





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## **2. SCOPE OF WORK**

- 2.1. Electrical Outfitting, Cable laying, Termination & Commissioning, Hot Work, and dry survey necessary to satisfactorily complete the work in accordance with UCSL, Classification Society and Owner's requirements.
- 2.2. Refer **Annexure II and Annexure III** for detailed scope of work and indicative quantum of outfit structural works respectively

## **3. ABOUT THE 70T BOLLARD PULL ASD-TUG:**

Length O.A (Including fender)	: 33.0 meter
Length B. P	: 31.0 meter
Breadth (MLD)	: 12.2meter
Depth (MLD)	: 5.5 meter
Draft (Hull)	: 5.1 meter
Complement	: 12 Persons
Bollard Pull	: 70T @ 100% MCR
Installed Power	: 2 x 1838 Kw
Gross Tonnage	: 500 GT
Class Notation	: IRS- SWATIKA SUL, TUG, SWASTHIK IY, INWATER SURVEY, AGNI 1 (2400 M3/Hr.)
Type	: Indian Coastal Vessel

## **4. METHOD OF AWARDING CONTRACT**

- 4.1. Contract will be concluded with Bidder qualifying technically, agreeing to Techno Commercial conditions (Annexure VI) and emerging as L1 based on the total contract value.
- 4.2. This tender is for construction of 4 Nos 70T Bollard Pull ASD Tug and UCSL reserves the right to award work order on two different contractors for each Tug. The L1 bidder will be awarded with the construction of UY-171(1st vessel) and the next inline bidder will be called for negotiation to meet the L1 bidder's rate to award work order for UY172 (2<sup>nd</sup> vessel). In case L2 bidder is not willing to match L1 bidder's rate, L3/L4/L5 etc. bidders will be invited for the negotiation to match L1 bidder rate. If L2/L3/L4/L5 etc. are not willing to match with L1 bidder's rate, hence work order for construction of both vessels to be awarded to L1 bidder.
- 4.3. UCSL reserves the right to award the scope of works for UY-173 & UY-174, based on mutual acceptance and on the basis of performance in the allocated vessels UY-171/UY-172.
- 4.4. UCSL also reserves the right to cancel the tender if required.

## **COMMON REQUIREMENTS**

- 4.5. The work will be undertaken by only qualified welders of the contractor. Towards this, UCSL will provide the WPS and PQR. Welders will have to be qualified by Class by UCSL. The subcontractor must pay for the welder qualification, testing and certification charges to UCSL on actuals. The contractor must retain the qualified welders till the completion of the project.





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- 4.6. Work will be undertaken and inspected as per the quality standards provided by UCSL, and approved by CLASS and Owner of the vessels. The same may be seen prior bidding, if required. Copy of the standards will be provided while awarding contract.
- 4.7. Area and steel skids will be provided by UCSL, leveling of the skid will be undertaken by contractor to the satisfaction of UCSL QC. Required production aids shall be arranged by Contractors.

## **5. SCHEDULE OF COMPLETION OF VESSELS**

- 5.1. UY-171 to UY-174 BP ASD-Tug electrical outfitting, cable laying, termination & commissioning of electrical systems to be completed within 8 Months from the date of commencement.

### Note:

The above Electrical outfitting, cable laying, Termination & commissioning of electrical systems completion date is inclusive of handing over to commissioning activities.

- 5.2. The contractor in turn shall submit their detailed scheduled of completion of the work, in consultation with the officer In-charge. The progress of work shall be made in tandem with the progress of completion of the vessel allowing sufficient time for other interface activities/works.
- 5.3. Yard has the right to change the schedules of the project to the interests of the company and the firm should be capable of adjusting the resources according to the instructions from the Yard contact person.
- 5.4. Detailed working schedule (Weekly/monthly) etc. to be prepared and submitted to yard personnel. However, a detailed overall schedule, in a reasonable manner should be submitted prior to commencement of work.
- 5.5. The work is of urgent nature and hence the contractor should mobilize the team to start the work not later than fifteen (15) days from the date of placement of work order.

## **6. QUALIFICATION CRITERIA FOR VENDORS**

- 6.1. The Bidder shall be a single firm having experience in Electrical Outfitting, Cable laying, Termination & Commissioning for a minimum of Three-year experience in similar areas of expertise.
- 6.2. The bidder should have qualified welders having relevant WPS approved by classification societies.
- 6.3. The contractor must have a site-in charge/ supervisor to execute work, with a minimum experience of 3 yrs. in Vessel Electrical field.
- 6.4. Documents to prove credentials of the firm to undertake the subject work. Eg: Details of available equipment's & facilities, Skilled / qualified Manpower, Work experience of similar job, etc. The firm has to submit the documents to validate the same.
- 6.5. Bidder shall not be under a declaration of ineligibility issued by Govt. of India/ State govt./ Public Sector Undertakings etc. The bidder shall not have been debarred / black listed by UCSL or by any of the Public Sector Undertaking or Government department etc.





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- 6.6. Net worth of the contractor must be positive as per the latest balance sheet. (MSME/NSIC will get exemptions).
- 6.7. The Bidder should be registered for GST and PAN no (Submit copy of Registration Certificate and PAN Card).
- 6.8. Firms claiming start-up certification issued by Govt of India, will be exempted as per govt rules & regulations.

## **7. INSPECTION**

- 7.1. The vessel shall be built under the classification of IRS Class.
- 7.2. Work will be undertaken and inspected as per the quality standards provided by UCSL, and approved by CLASS and Owner of the vessels.
- 7.3. The complete work has to be carried out under the survey of UCSL, CLASS and Owners. The works are to be inspected and approved by UCSL initially and thereafter presented to CLASS and the Owner for their survey and approval.
- 7.4. All welding machines are to be calibrated.
- 7.5. All test and Inspections shall be carried out as per approved Quality Plan.
- 7.6. All test including NDT, Radiography tests, Tank testing as applicable
- 7.7. All works shall be as per strict compliance to weight control and approved UCSL drawings.
- 7.8. All correspondence with the Shipyard to be in English language. All documents and plans to be in English language and in metric units.

## **8. VALIDITY**

- 8.1. The offer shall be valid for a period of 06 months and no escalation in rate shall be allowed by UCSL on whatsoever reason.

## **9. RATE**

- 9.1. Rates are to be quoted in the Price Bid Format at Annexure V attached herewith.

## **10. PAYMENT TERMS**

- 10.1. Payment will be made in 5 stages:

**Stage I: 25% of Total contracted value per vessel**

Deliverables: Completion of 90% of the hot work completion including fixing of cable trays, cable penetrations and control panel foundation erection onboard.

**Stage II: 15% of Total contracted value per vessel**

Deliverables: Completion of 90% of Electrical panel installation, MSB installation and wheel house console installation.

**Stage III: 20% of Total contracted value per vessel**

Deliverables: Completion of 90% of cable laying and strapping.

**Stage IV: 30% of Total contracted value per vessel**

Deliverables: On completion of 100% cable termination, Loop testing and electrical system readiness for commissioning.





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**Stage V: 10% of Total contracted value per vessel**

Deliverables: Completion of scope awarded to the contractor subject to clearance of all surveys and inspections by Class, Owner representative, UCSL representative, successful sea trail completion and delivery of the vessel.

- 10.2. Payment shall be made on the basis of certification by UCSL officer in-charge.
- 10.3. The payment shall be made within 30 days from submission of invoice along with the work completion certificate.
- 10.4. All claims for payment for the work/additional work shall be submitted by the contractor within one month of completion of work.
- 10.5. Payment will be made by RTGS/NEFT to the account of Agency. The name of the bank, branch, A/C No., IFSC code & other particulars shall be furnished by the Agency in the proforma of UCSL.

**11. TAXES & DUTIES**

- 11.1. GST shall be applicable extra on the prescribed work. You are requested to furnish the following details in the invoice/Bill.
- Applicable rate of GST/SAC Code
  - Firms GST Reg. NO.
  - Service accounting code (SAC) as prescribed by statutory authorities.
  - GST Reg. No. of Udupi Cochin Shipyard Limited(29AAACT1281B1ZO).

**12. SECURITY DEPOSIT**

- 12.1. The contractor shall remit 5% of the value of the contract as security deposit within 15 days of receipt of the work order. This amount may be remitted by way of demand draft or bank guarantee (in approved proforma of UCSL) from any of the nationalized banks, valid till the satisfactory completion of the entire work. The Security Deposit will be released on certification of satisfactory completion of the contract and no liability to UCSL by Officer-in charge. The Security Deposit retained will not bear any interest.

**13. PERFORMANCE GURANTEE**

- 13.1. The complete work carried out by the contractor shall be guaranteed against defective on poor workmanship for a period of Six (06) months from the date of completion of work or till delivery of that vessel, whichever is earlier. Any work found defective during this period is to be repaired entirely at the contractor's cost at the vessel's location and such repaired items shall be guaranteed for a further period of three months from the date of repair.
- 13.2. Should any unsatisfactory performance and / or damage or failure occur due to poor workmanship and poor-quality material used by the contractor, the contractor shall be solely responsible for payment/reimbursement of expenditure incurred by Ship owner for rectifying the defect.
- 13.3. Towards this, a performance guarantee equivalent to 5% of the value of the contract to be furnished by the contractor on completion of the works by way of a bank guarantee (in approved proforma of UCSL, from a nationalized bank valid till the expiry of the guarantee period. In case the contract fails to submit the PG in time, SD mentioned at Clause 11 will be retained till the expiry of guarantee period.







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#### **14. LIQUIDATED DAMAGES**

- 14.1. The progress of work will be monitored against the mutually agreed detailed schedule. Liquidated damages for delays in execution of the work beyond the scheduled date of completion, for any reason other than force majeure conditions, will be recovered at the rate of half percent of the value of the contract per week or part thereof, subject to a maximum of ten (10) percent of the value of the contract.
- 14.2. For better clarity, order values mentioned in LD clause are values excluding duties and taxes (Basic value). Liquidated damages, if any, shall be decided and settled only after the completion of the entire project but prior to the release of Final stage Payment.
- 14.3. If, for any reasons, supplier has a justification towards delay in supply / work execution and would intend to consider applicability/ non applicability of LD, the same shall be intimated to UCSL by way of a letter, failing which it will be deemed that delay is attributable to the supplier.
- 14.4. Delay in supply/Interruption of the work for reasons not attributable to supplier shall entitle extension of the order execution period for proportionate period without any additional cost to UCSL.

#### **15. POWER OF ATTORNEY**

- 15.1. The tenderer(s) shall have to sign in each page of the tender documents with official stamp as a token of his acceptance of the conditions stated therein.
- 15.2. The person signing the tender form on behalf of another or on behalf of a firm, shall enclose to the tender, a Power of Attorney or the said deed duly executed in his favour or the partnership deed giving him such power showing that, he has the authority to bind such other persons or the firm, as the case may be, in all matters pertaining to the contracts. If the Person so signing the tender, fails to enclose the said Power of Attorney, his tender shall be liable for being summarily rejected. The Power of Attorney shall be signed by all partners in the case of partnership concern, by the Proprietor in the case of a proprietary concern, and by the person who by his signature can bind the company in the case of a Limited Company.

#### **16. TERMINATION & LIMITATION OF LIABILITY**

- 16.1. This contract may be terminated upon the occurrence of any of the following events
- 16.2. By agreement in writing of the parties hereto;
- 16.3. By the non-defaulting party, upon default by the other party, of any clause of this contract, if not remedied within fifteen (15) days, or such longer time as may be agreed upon by the parties, after receipt of notice thereof in writing from the non-defaulting party;
- 16.4. By the other party, upon either party;
- i. Making the assignment for the benefit of creditors, being adjudged a bankrupt or becoming insolvent; or
  - ii. Having a reasonable petition filed seeking its' dissolution or liquidation, not stayed or dismissed within sixty (60) days; or
  - iii. Ceasing to do business for any reason.
- 16.5. For fraud and corruption or other unacceptable practices.





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- 16.6. Upon expiry or termination of this Contract, neither party shall be discharged from any antecedent obligations or liabilities to the other party under this Contract unless otherwise agreed in writing.
- 16.7. UCSL may by notice in writing to Agency to terminate the order after issuing due notice i.e., 30 days' notice period. UCSL shall be entitled to compensation for loss limited to the order value.
- 16.8. Liability maximum that can be claimed by the Agency shall be limited to what is due to be and has been paid by UCSL for work done as per the payment milestones and limited to work order value.

### **17. ARBITRATION & JURISDICTION**

- 17.1. Any disputes arising during the period of the contract shall, in the first instance be settled by mutual discussions and negotiations. The results of such resolution of dispute shall be incorporated as an amendment to the contract, failing which supplier shall approach the UCSL Grievance Redressal Committee as per relevant clause of the Contract.
- 17.2. If any dispute, disagreement or question arising out of or relating to or in consequence of the contract, or to its fulfillment, or the validity of enforcement thereof, cannot be settled mutually or the settlement of which is not herein specifically provided for, then the dispute shall within thirty days from the date either party informs the other in writing that such disputes, disagreement exists, be referred to arbitration. The arbitrators shall be appointed and the arbitration proceedings shall be conducted in accordance with and subject to the Arbitration and Conciliation Act, 1996 (No. 26 of 1996) as amended from time to time and the decision of the Arbitrators shall be final and binding on the parties hereto. The arbitration will be done by a Board comprising one arbitrator nominated by each party, and a mutually agreed Umpire. Each party shall bear its own cost of preparing and presenting its case. The cost of arbitration shall be shared equally by the parties unless the award provides otherwise. Performance under this Contract shall however, continue during arbitration proceedings and no payment due or payable by the parties hereto shall be withheld unless any such payment is or forms a part of the subject matter of arbitration proceedings.
- 17.3. Seat & Venue of Arbitration: The seat & venue of arbitration shall be at Bangalore.
- 17.4. Language of Arbitration: The Language of arbitration shall be English.
- 17.5. Governing Law: The contract shall be governed by Indian Law
- 17.6. In case of disputes, the same will be subjected to the jurisdiction of courts at Bangalore, Karnataka.

### **18. SUB CONTRACTING AND ASSIGNMENT**

- 18.1. Contractor shall not assign or transfer the Purchase Order/ Work Order or any share or interest therein in any manner or degree to any third party without the prior written consent of UCSL.
- 18.2. Contractor shall not contract with any subcontractor and/or vendor without the prior written consent of UCSL. Such consent shall not relieve the Contractor from any of his responsibilities and liabilities under the Purchase Order/ Work Order. In addition, Contractor shall ensure that the terms and conditions of any such contract shall comply with and correspond to the terms and conditions of the Purchase Order/ Work Order.





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## **19. SECRECY & RESTRICTION ON INFORMATION TO MEDIA**

- 19.1. The information contained in the enquiry as such shall NOT be communicated to any third party without prior approval of UCSL.
- 19.2. Information in respect of contracts/orders shall NOT be released to the national or international media or anyone not directly involved in its execution without the written approval of UCSL.

## **20. CANCELLATION OF ORDER AND RISK CONTRACTING**

- 20.1. In the event the Agency fails to complete the work promptly and satisfactorily as per the terms of the order, and if any work is delayed beyond thirty (30) days from the agreed schedule, UCSL, without prejudice, reserves the right to cancel the order and get the work done at Agency's cost and the expenditure so incurred including any damage or loss will be recovered from him and the Security Deposit furnished by him is liable to be forfeited either in whole or in part.
- 20.2. UCSL also reserves to right to impose penalties ranging from Rs. 100 to Rs.500 to the employees of agencies and will be deducted from the bills, for any habitual offence on the cleanliness of uniforms, lack of obedience, not attending the tasks etc., and will be to the discretion of the Officer in charge for the work.

## **21. FORCE MAJEURE**

- 21.1. Should failure in performance of any part of this contract arise from war, insurrection, restraint imposed by Government act or legislation of other statutory authority, from explosion, riot, legal lock-out, flood, fire, act of God or any inevitable or unforeseen event beyond human control which will be construed as a reasonable ground for extension of time, UCSL may allow such additional time as is mutually agreed to be justified by the circumstances of the case.

## **22. STORAGE OF MATERIAL AND EQUIPMENT**

- 22.1. The Contractor shall arrange the storage of the materials/ equipment etc. if any, at a suitable location assigned by UCSL and shall ensure the safe and secure possession and handling of the items thus handed over to contractor. UCSL shall allot storage space within UCSL premises, if available.
- 22.2. As regards the equipment/materials stored by him as above as also in use by him, UCSL will not be responsible for any damage, pilferage, accident that may take place during the course of execution of the work. It will be entirely his responsibility to keep all the equipment, materials etc., in safe custody as also hold them duly insured at his expense.

## **23. IMS GUIDELINES**

- 23.1. UCSL implemented an Integrated Management System (IMS) and the Quality Management System (QMS) within the yard. As part of IMS, subcontractors shall comply with the following measures related to the Quality, Health, and Safety & Environment (QHSE) policy of UCSL.
- a) Meeting or exceeding customer requirements.
  - b) Assuring quality of the products and service.
  - c) Preventing occupational ill health & injuries.
  - d) Ensuring safe work sites.





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- e) Conserving natural resources.
- f) Preventing / minimizing air, water & land pollution.
- g) Handling and disposal of Hazardous wastes safely.
- h) Complying with statutory & regulatory and other requirements.
- i) Developing skills and motivating employees.

23.2. Occupational Health, safety & Environmental requirements of UCSL shall also include the following.

- a) The contractor (or a sub-contractor performing work on behalf of the contractor) is deemed to comply with the Occupational health, safety and environmental policy of the company and also to all operational controls/standard operating procedures and shall undertake the work in total compliance with the requirements of the established Integrated Management System (IMS) of the company.
- b) The Contractor shall undertake the work in total compliance with all applicable legal/statutory requirements related to occupational health, safety and environment effective in the state of Karnataka.
- c) It is the sole responsibility of the contractor to assure that any sub-contractor/s who shall perform works in company lands/facilities/worksites on behalf of the contractor, is also following all requirements related to the Integrated Management System of the company and the health/safety/environmental Rules effective in the state.
- d) The contractor shall provide/implement and operate/practice all occupational health, safety and environmental management measures/facilities, for their period of contract, in their activities/at their work sites, which shall be required according to the IMS of the company or that required by the health/safety/environmental Rules established and effective in the state, at their own cost.
- e) If any contractor failed to comply with or violated any clauses/requirements of occupational health, safety and environmental Rules effective in the state, in their activities or at work sites and the same shall be exposed to the government or any competent authorities upon inspections, the contractor shall be solely responsible for all liabilities caused by his/her action and shall be responsible for paying the penalty and taking stipulated corrective actions insisted by the authorities within the specified time, at their own cost. Any liability to the company in this regard needs to be compensated by the contractor.
- f) Upon completion of the work, contractor shall clear the area and shall not leave any Occupational health/safety/environmental liabilities to the company, from their activities at the worksites.
- g) Any clarification related to IMS requirements of the yard, may be obtained by the contractor from the AGM (HSE) or the authorized representative of the contract, prior to the commencement of work.

#### **24. SAFETY OF PERSONNEL AND FIRST AID**

24.1. The contractor shall be entirely responsible for the safety of all the personnel employed by him on the work. In this regard, he may adopt all the required safety measures and strictly comply with the safety regulations in force. A copy of UCSL's "Safety Rules for Contractors (Revised)" is available with HSE department for reference.





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- 24.2. The Agency may arrange to suitably insure all his workmen/ other personnel in this regard. UCSL will not be responsible for any injury or illness to the Agency's workmen/other personnel during execution of the works due to whatsoever reasons.
- 24.3. In this regard, the Contractor will have to fully indemnify UCSL against any claims made by his workmen/other personnel
- 24.4. The Agency shall provide and maintain so as to be readily accessible during all working hours, a first aid box with prescribed contents at every place where he employs contract labor for executing the works.

## **25. LABOUR LAWS AND REGULATIONS**

- 25.1. The Agency shall undertake and execute the work with contract Labor only after taking license from the appropriate authority under the Contract Labor (Regulation & Abolition) Act 1970.
- 25.2. The Agency shall observe and comply with the provisions of all labour and industrial laws and enactments and shall comply with and implement the provisions of the Factories Act, 1948, Employees Provident Funds & Miscellaneous Provisions Act, 1952, Employees State Insurance Act, Payment of Gratuity Act, minimum Wages Act, Payment of Bonus Act, Contract Labour (Regulation and Abolition) Act and all other enactments as are applicable to him and his workmen employed by him. The Agency shall inform UCSL his license number from the Central Labour Commissioner.
- 25.3. All Persons, except those exempted under the respective Acts, shall necessarily be insured under the ESI scheme and be made members of the EPF Scheme from the day of their engagement as personnel in the Company. In Case 1, All such insured Persons should carry with them their ESI Identity Card for verification by the authorities. No Persons without a valid ESI Identity Card for verification by the authorities will be permitted to work in the company.
- 25.4. The Agency shall submit the Labour Reports/Returns as required by the Company from time to time in respect of their workmen in standard format to the concerned contracting officer so as to enable the same to reach Contract cell by the 5th of every month. Delayed submission of the same shall attract penal interest /damages at the rate as levied by the respective authorities under the relevant Acts.
- 25.5. The Agency shall maintain the records viz. Muster Roll, Acquittance Roll with full details, Account books etc., in original. These are required for inspection by the concerned authorities under each scheme.
- 25.6. If the Agency fails to pay any contributions, charges or other amounts payable under any of the aforementioned provisions of law, UCSL shall deduct or adjust amounts equivalent to such contribution, charges or amounts from amount payable to him by UCSL, including any deposit or amounts payable against bills and make payments on his account to the appropriate authority. He shall not be entitled to question or challenge such deductions, adjustments or payment made by UCSL.
- 25.7. Any other amount payable under any law or in respect of any person employed by the Agency, if not paid by him, shall be deducted or adjusted by UCSL out of any amount payable to the Agency including any Security Receipt and paid ever or withheld for payment by UCSL.





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- 25.8. The Agency shall be fully responsible for the conduct and discipline of the workmen employed by him in the Company premises. If such workmen commit any misconduct or criminal act inside the Company, the Agency shall take appropriate action against such workmen. The Agency shall abide by the instructions/ guidelines issued by the Company for maintenance of discipline and good conduct among the workmen employed by him.
- 25.9. All persons who are engaged for various works in UCSL either directly or through Agency/contractors, should produce the following documents prior to issuing their entry passes:
- 25.10. Passport/Aadhaar attested copy of passport with photo and address particulars.  
OR  
Police clearance certificate with photo and address particulars. (Police clearance certificate to the effect that the concerned person is staying in the area of jurisdiction of the certificate issuing Police Station and that the person is not involved in any criminal offences as per the records available therein.)
- 25.11. Application and Declaration for enrolling under Employees Provident Fund and ESI Scheme- 3 individual passport size photographs and two copies of family photographs of the members.
- 25.12. **Agency shall familiarize themselves with the labour rules & regulations.**

## **26. ELECTRICITY RULES AND REGULATION**

- 26.1. The contractor shall adhere to the various rules in respect of electrical installation as per the Indian Electricity Rules and Regulations and Electrical Inspectorate Standards in order to make sure that men and materials are safe from hazards.

## **27. OVERWRITING & CORRECTIONS**

- 27.1. Tenders shall be free from overwriting or erasures. Corrections and additions, if any, shall be duly attested and a separate list of such corrections shall be attached with the offer

## **28. OTHER TERMS & CONDITIONS**

- 28.1. Quality of services shall conform to the specification/ standards laid down by UCSL.
- 28.2. UCSL reserves the right to accept / reject any offer.
- 28.3. **UCSL reserves the right to award the work to more than one contractor or to take over partially or fully the work depending upon the schedule requirements.**
- 28.4. During the evaluation of tender, officer-in-charge may seek clarifications from the bidders. Clarification if any shall be given in writing/e-mail. Officer-in-charge's decision will be final and binding on the bidder.
- 28.5. Compliance of all statutory safety requirements and other safety rules stipulated by UCSL and other applicable statutory bodies shall be the responsibility of the Agency while working at UCSL premises. The Agency should ensure that their workmen and staff are adequately covered under Insurance.





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- 28.6. Damages caused to the Shipyard properties/tools/accessories should be rectified by the Agency at his cost or proportional recoveries will be made from the Agency while passing their bills for payment.
- 28.7. The service provider shall have to engage men on round the clock basis and also on Sundays and holidays. Service has to be completed to the satisfaction of Udupi Cochin Shipyard Limited officer in-charge.
- 28.8. The service provider shall indemnify UCSSL or its officers against any claims arising out of accidents or injuries to workmen or other persons or damage to other property which may arise during the execution of the contract or from breach of any Law or Regulation prior to delivery and acceptance of the items at UCSSL.
- 28.9. The service provider shall also be governed by the General Conditions of Contract of UCSSL, General Safety Rules and other relevant labour laws.
- 28.10. The upper age limit of all workers and supervisors employed by the Agency and those Agency who do or supervise the job themselves shall be as per the prevailing rules of UCSSL and shall comply to the requirements of this tender.
- 28.11. Assistant General Manager, or his authorized representative will be the Officer-in-charge of these contracts.





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## SCOPE OF WORK

### TENDER FOR ELECTRICAL OUTFITTING, CABLE LAYING, TERMINATION & COMMISSIONING OF ELECTRICAL SYSTEMS OF 70 TON BOLLARD PULL ASD-TUG

- 1.1. The scope of work pertains to the Electrical outfitting, Cable laying, Termination & Commissioning of Electrical systems, including all connected hot works and dry survey required for the satisfactory completion and commissioning assistance up to delivery in accordance with the requirements of UCSL, Classification society and owner requirements.
- 1.2. Cable schedule per specification and the drawings provided by UCSL.
- 1.3. Integration of the electrical systems with all machineries, Accommodation system and other electrical system in the entire vessel.
- 1.4. Production drawing will be provided on commencement of work.
- 1.5. The entire Electrical hot work, Electrical outfitting, cable laying, termination & commissioning of electrical systems as per the indicative quantum of work as per Annexure III.
- 1.6. Electrical outfitting scope includes Electrical hot works, fixing of cable trays, cable laying, switch socket fixing, starter panel fixing, Switch board fixing and termination and presenting survey.
- 1.7. Electrical cable tray supports, Flat bars, equipment seats/Foundation and coamings required to be fabricated and welded on board, will be under the scope of contractor.
- 1.8. Commissioning scope involves loop testing of cables, Megger test of electrical motors, Commissioning assistance till completion of the vessel.
- 1.9. Commissioning assistance for all electrical system up to delivery.
- 1.10. Project Execution, supervision, management and reporting of all the tasks/activities associated with the electrical works of the vessel as above.
- 1.11. Ensuring best housekeeping practices to keep the work premises neat and clean in daily basis.
- 1.12. Survey presentation to Yard I&QC, Owners and Class authorities as per yard practices and standards. Documents for the same may be accessed at TSL. Copies of the same will be provided at the time of awarding contract.
- 1.13. Rectification of defects as per the comments from Yard I&QC, Owners & Class authorities.
- 1.14. Qualified and experienced electricians to be engaged by the subcontractor.
- 1.15. All tools and tackles like crimping tools, testing multimeter/clamp meter, terminal ferrule printing machine, cable strapping tool, production aids required for the work are under the scope of the subcontractor.
- 1.16. Mobilization of entire labour / Workmanship (Skilled/Semiskilled/Unskilled) required for the Electrical outfit fabrication & erection onboard, Electrical outfitting, cable laying, termination & commissioning of electrical systems work in accordance with the specifications and drawings provided by UCSL. Quality Assurance plan (QAP) and applicable data if required will be provided by UCSL.







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- 1.17. Contractors are required to work round the clock / Sundays/ holidays as per the requirement of concerned department in order to complete the work in time.
- 1.18. Minor staging up to 3m height shall be erected by the contractor for the work using UCSL material without any extra charges. Any requirement over and above this shall be arranged by UCSL separately.
- 1.19. Collection of material, Transportation/loading/unloading of materials / other equipment's from UCSL shops/store to contractor's site/skid in UCSL premises.
- 1.20. Providing all personnel protective items like safety helmets, gloves, welding shields, goggles, leg guards, safety belts, aprons, safety shoes etc. to their employees.
- 1.21. Attending weekly quality and safety patrol along with a UCSL officer, the observations are required to be closed within 7 days.
- 1.22. Ensuring best HSE practices at site during the construction of vessel, which includes mandatory work permits/certifications/approvals in accordance with the prevailing guidelines in UCSL.

## **2. SCOPE OF SUPPLY / WORK OF UCSL**

- 2.1. Providing the required technical specifications & applicable drawings.
- 2.2. Electrical outfitting materials, electrical systems & cables shall be supply by UCSL.
- 2.3. Drawings, Quality assurance plan (QAP) shall be provided.  
 Note: Drawings & QAP are UCSL property & contractor should not use this for any other purpose/projects.
- 2.4. Services of UCSL crane & forklift /other material handling facilities, will be provided subjected to availability.
- 2.5. Overseeing of the construction process.
- 2.6. Supply of electricity, water, cutting gas, Argon, and compressed air at free of cost.
- 2.7. Supply of welding consumables on chargeable basis.

## **3. ADDITIONAL WORKS**

- 3.1. Any additional works up to 5% growth of work on the electrical outfitting, cable laying on the entire scope is to be envisaged and is to be undertaken without any additional price impact.
- 3.2. Any minor modifications, resulting from the change in statutory regulations prevailing at the time of final inspection of work by Classification Society, to be carried out by the Contractor free of cost. In case of rework/modification/additional work, written consent is to be obtained from the Officer-in-charge before commencement of the work.
- 3.3. Contractor shall carry out the complete work in accordance with Shipyard's approved drawings. Any minor modifications from drawing or any other work or supply of material, which is not specified hereunder, but is considered incidental and essential for the successful completion of the job shall be carried out by the Contractor without any additional charge.
- 3.4. Contractor shall execute, during or after completion of the work, any minor job connected with the work, that is considered necessary by Shipyard and/or Classification Society.
- 3.5. The contractor shall be responsible for any damages caused to the material supplied by UCSL. Compensation with penalty for damage or loss of the item will be recovered from the Contractor, in the event of loss or damage.





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## INDICATIVE QUANTUM OF ELECTRICAL WORKS

### TENDER FOR ELECTRICAL OUTFITTING, CABLE LAYING, TERMINATION & COMMISSIONING OF ELECTRICAL SYSTEMS OF 70 TON BOLLARD PULL ASD-TUG

Sl. No	SYSTEMS	SCOPE INCLUDED SYSTEM
1	ICAF/MGPS	Included
2	Deck crane	Included
3	Autopilot	Included
4	NAVIGATION & COMMUNICATION EQUIPMENT PACKAGE LOCAL INTEGRATOR (individual equipment specified below), a) Radar Plant, b) DGPS Navigators, c) Magnetic Compass, d) Speed log & Echo Sounder, e) Automatic Identification System (AIS), f) ECDIS, h) VHF with DSC and Watch Receiver, i) EPIRB, j) Radar Transponder, k) NAVTEX Receiver, l) VHF Hand held Radio g) Anemometer, m) Inmarsat C, n) Gyro, o) BANWAS, p) MFHF	Included
5	Auto Telephone System, Public Address System, Sound Powered Telephone System	Included
6	Navigation light	Included
7	Search Lights	Included
8	Deck Machinery	Included
9	Oil Spill Dispersant Arm & Oil Dispersant Pump	Included
10	Galley/Pantry and Laundry Equipment	Included
11	Ventilation, Air-Conditioning System	Included
12	Centrifugal/Screw pump	Included
13	Sewage treatment plant	Included
14	Main diesel engine	Included
15	Azimuth Thruster	Included
16	Main diesel generator set	Included
17	Harbour Diesel Generator	Included
18	Fuel & Lube oil purifier	Included
19	Starting air compressor	Included
20	Central Alarm system	Included
21	Oily Water separator	Included
22	Fire detection and alarm system	Included
23	CO2 Fixed Fire system	Included
24	External Fire Fighting System - Pump/Monitor/Foam System/Water Spray	Included
25	Power System Package a) Distribution Transformer, b) 24V Battery Charger for starting Batteries, c) Main switchboard & Distribution Boards (415/230/24V), d) Local/Group Starter Panels, e) Shore power supply connection box & f) Rectifier cum battery charger	Included
26	Batteries	Included
27	Normal & emergency Lighting System	Included
28	Rescue boat & Davit	Included
29	Window wiper	Included
30	CCTV	Included
31	LAN	Included





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<b>ELECTRICAL HOT WORK</b>						
<b>Sl No.</b>	<b>Activities</b>	<b>Unit</b>	<b>Qty</b>	<b>Location</b>	<b>Dimension</b>	<b>Type</b>
1	Installation of Z type cable ladder (GAL).	Mtrs	120		1591(L) X 400(W)	Major
2	Installation of Z type cable ladder (GAL).	Mtrs	60		1591(L) X 200(W)	Major
3	Installation of Z type cable ladder (GAL).	Mtrs	15		1591(L) X 100(W)	Major
4	Fabrication & Installation of cable coaming	Nos	10		100NB X 100mm	Major
5	Fabrication & Installation of cable coaming	Nos	10		250X150X250	Major
6	Fabrication & Installation of cable coaming	Nos	7		450X150X250	Major
7	Fabrication & Installation of cable coaming	Nos	6		250X150X100	Major
8	Fabrication & Installation of cable coaming	Nos	7		450X150X100	Major
9	Installation of flat bar	Mtrs	250		50x50x6	Major
10	Installation of flat bar	Mtrs	100		25x25x6	Major
11	Earth bush fit-up and welding	Nos	150		M25x30x30	Major
12	External equipment cable duck tube flip-up and welding	Nos	60		1 inch	Major
13	Seat for Shore Connection Box	Nos	1	Main Deck	600x600x250	Major
14	Seat for 440V DB1-PA402	Nos	1	ER	600x1000x300	Major
15	Seat for 440V DB2-PB402	Nos	1	ER	600x1000x300	Major
16	415v Group starter panel-1	Nos	1	ER	550x750x250	
17	415v Group starter panel-2	Nos	1	ER	700x800x250	
18	415v Group starter panel-3	Nos	1	domestic Equip. Room	550x700x200	
19	415v Group starter panel-4	Nos	1	domestic Equip. Room	500x700x250	
20	415v Group starter panel-5	Nos	1	z dive	500x700x250	





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### ELECTRICAL HOT WORK

Sl No.	Activities	Unit	Qty	Location	Dimension	Type
21	230v Group starter panel 6	Nos	1	Gally	700x800x250	
22	230v gally DB	Nos	1	Galley/accom/ messroom	450x700x150	
23	230V Navigation system DB	Nos	1	Wheel house	400x550x150	
24	230V communication system DB	Nos	1	Wheel house	400x550x150	
25	24V DC GMDSS deter panel DB	Nos	1	wheel house	400x550x150	
26	415VAC lube oil pump starter (Port)	Nos	1	Engine room		
27	415VAC lube oil pump starter (STBD)	Nos	1	Engine room		
28	415V AC starting air compressor (main)	Nos	1	Engine room		
29	415V AC starting air compressor (Stand by)	Nos	1	Engine room		
30	Deck crane starter panel	Nos	1	Workshop		
31	Deck machinery starter panel A (30KW)	Nos	1	domestic equip. Room		
32	Deck machinery starter panel B (50KW)	Nos	1	domestic equip. Room		
33	Deck machinery starter panel C (7.5KW)	Nos	1	domestic equip. Room		
34	160A Battery charger	Nos	2	Planium space		
35	45A battery charger	Nos	1	Wheel house		
36	35A battery charger	Nos	1	Engine room		
37	SSG battery charger 20A	Nos	1	workshop		
38	HDG battery charger 20A	Nos	1	workshop		
39	Seat for 230V MSB	Nos	1	SWBD ROOM	Refer Sl.no.1	Major
40	Seat for 230V DB1-PC201	Nos	1	WH	450x600x210	Major
41	Seat for 230V DB2-PC202	Nos	1	ACC	500x700x210	Major
42	Seat for 230V DB3-PC203	Nos	1	ER	450x600x210	Major
43	Seat for 230V DB4-PC204	Nos	1	ER	450x600x210	Major
44	Seat for 24V DC DB-1	Nos	1	WH	600x700x210	Major
45	Seat for 24V DC DB-2	Nos	1	ER	500x700x210	Major
46	Seat for 24V DC DB-3	Nos	1	ER	500x500x210	Major





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ELECTRICAL HOT WORK						
Sl No.	Activities	Unit	Qty	Location	Dimension	Type
47	Seat for Transformer-1 50 KVA	Nos	1	ER		
48	Seat for Transformer-2 50 KVA	Nos	1	ER		
49	Seat for Remote start/stop panel	Nos	26	ER		
50	Seat for Control Box	Nos	1	ER	750x1350x400	Major
51	Seat for CPT Control box	Nos	1	Near Capstan	200x330x123	Minor
52	Seat for Hook control box	Nos	1	Near hook	200x330x123	Minor
53	Seat for Engine Control Panel PS	Nos	1	ER	1300x1800x650	Major
54	Seat for Engine Control Panel STBD	Nos	1	ER	1300x1800x650	Major
55	Seat for SOLENOID PANEL	Nos	1	ER	240x140x92	Minor
56	Seat for Hyd Tank JB	Nos	1	ZR		
57	Seat for Control Air panel	Nos	1	ER		
58	Seat for Follow up transmitter	Nos	2	ZR		
59	Seat for ZP AUX HYD PUMP STARTER	Nos	1	ZR	500x630x230	Major
60	Seat for Fi Fi Control panel	Nos	1	ER	600x800x210	Major
61	Seat for Smoke Detector	Nos	12	ER		
62	Seat for Sound Power telephone	Nos	2	ER		
63	Seat for Auto Telephone System	Nos	5			Major
64	Seat for PA system	Nos	1	Planium	700x776x650	Major
65	Seat for Speaker	Nos	8	ER		
66	Seat for RADAR ANTENNA	Nos	1	Mast		
67	Seat for DGPS ANTENNA	Nos	1	Mast		
68	Seat for AIS ANTENNA	Nos	1	Mast		
69	Seat for ECHO SOUNDER JB	Nos	1	Main Deck		
70	Seat for LOG JB	Nos	1	Main Deck		
71	Seat for MAGNETIC COMPASS	Nos	1	wheelhouse top		
72	Seat for ANEMOMETER SENSOR	Nos	1	Mast		





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ELECTRICAL HOT WORK						
Sl No.	Activities	Unit	Qty	Location	Dimension	Type
73	Seat for VHF ANTENNA	Nos	4	Mast		
74	Seat for NAVTEX ANTENNA	Nos	1	Mast		
75	Seat for INMAR SAT C ANTENNA	Nos	2	Mast		
76	Seat for CONSOLE WHEELHOUSE	Nos	2	Wheelhouse		
77	Seat for CONSOLE SWBD ROOM	Nos	1	SWBD Room		
78	Seat for LIGHTS	Nos	95	ER-55 outside-40		
79	Seat for FLOOD LIGHT	Nos	8			
80	Seat for SEARCH LIGHT	Nos	2			
81	Seat for SWITCH & SCOKET	Nos	28			
82	Seat for Navigation Lights	Nos	15	MAst		
83	Seat for Tank sensor	Nos	18	Tank		
84	Seat for Bilge level switch	Nos	8	ER low level		
85	Goose necks	Nos	25			
86	Rescue boat & Davit	Nos	1			
87	Window wiper control panel	Nos	1			
88	Automation system	Nos	1			
89	GMDSS Battery charger 45A	Nos	1	Wheel house		
90	Dead ship battery charger 45A	Nos	1	deck locker		
91	Estop panel main	Nos	1	Passageway		
92	Welding machine receptacles	Nos	1	Workshop		
93	HVAC main panel	Nos	1	Mazzinian deck		
94	HVAC wheel house panel	Nos	2	Wheel house		
95	CO2 Alarm unit	Nos	1	CO2 room		
96	CO2 Time delay unit	Nos	1	CO2 room		
97	CO2 flasher	Nos	2	Engine room		
98	PA jb seat	Nos	8	hold deck/main deck		
99	Solenoid for air whistle	Nos	1	Wheel house		
100	Satellite compass	Nos	1	Mast		
101	Lighting junction box	Nos	15	Engine room/Acc/Pl anium space		





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ELECTRICAL HOT WORK						
Sl No.	Activities	Unit	Qty	Location	Dimension	Type
102	battery bank foundation					
	A) Emergency system		1	Wheelhouse		
	B) Navigation system		1	Wheelhouse		
	C) GMDSS system		1	Wheelhouse		
	D) control system		1	Engine room		
	E) Dead ship battery		1	Main deck		
	F) SSG1 Battery bank		1	Engine room		
	G) SSG2 battery bank		1	Engine room		
	H) HDG battery bank		1	Engine room		
103	MGPS 2 WAY Panel		1	Engine room		
104	MGPS 4 WAY Panel		1	Engine room		
105	MGPS (junction box)		2	Engine room		
106	CCTV/junction box foundation		1 set	main deck/engine room		
107	MFHF Antenna		2	top of wheel house		
108	Embarkation lamp		3	wheelhouse/m ain-deck		
109	hmi foundation		1			
110	Engine order telegraph		2			
111	Engine bell		2			
112	AMS panel foundation		1			
113	Door sensor foundation		1			
114	Bilge sensors foundation		8			
115	Foam pump (optional)		1			





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ELECTRICAL EQUIPMENT INSTALLATION				
SL. NO	ELECTRICAL EQUIPMENT INSTALLATION	NO. OF EQUIPMENTS	LOCATION	DIMENSION
1	440V MSB	1	SWBD ROOM	2450x1800x500
2	Shore Connection Box	1	Main Deck	600x600x250
3	440V DB1- PA402	1	ER	600x1000x300
4	440V DB2- PB402	1	ER	600x1000x300
5	230V MSB	1	SWBD ROOM	Refer Sl.no.1
6	230V DB1-PC201	1	WH	450x600x210
7	230V DB2-PC202	1	ACC	500x700x210
8	230V DB3-PC203	1	ER	450x600x210
9	230V DB4-PC204	1	ER	450x600x210
10	24V DC DB-1	1	WH	600x700x210
11	24V DC DB-2	1	ER	500x700x210
12	24V DC DB-3	1	ER	500x500x210
13	Electrical Test Panel	1	Workshop	600x700x210
14	Transformer-1 35 KVA	1	ER	
15	Transformer-2 35KVA	1	ER	
16	Remote start/stop panel	15	ER	
17	Control Box	1	ER	750x1350x400
18	CPT Control box	1	Near Capstan	200x330x123
19	Hook control box	1	Near hook	200x330x123
20	TGW Remote Control Panel	1	WH	360x320x150
21	AWT remote Panel	1	WH	360x320x150
22	load monitor Panel layout	1	WH	275x230x100
23	Engine Control Panel PS	1	ER	1300x1800x650
24	Engine Control Panel STBD	1	ER	1300x1800x650
25	INDICATOR DIP	1	WH	330x310
26	INDICATOR DIP METER	1	WH	330x135
27	INDICATOR DIP MP	1	WH	600x700x150
28	GROUP ALARM DIP	1	WH	230x220
29	LEVER	1	WH	190 Depthx96 W
30	SOLENOID PANEL	1	ER	240x140x92
31	Electric Bell	1	ER	337x107, Dia 07
32	Aux Steering Pump Unit	1	ZR	
33	Hyd Tank JB	1	ZR	







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<b>ELECTRICAL EQUIPMENT INSTALLATION</b>				
<b>SL. NO</b>	<b>ELECTRICAL EQUIPMENT INSTALLATION</b>	<b>NO. OF EQUIPMENTS</b>	<b>LOCATION</b>	<b>DIMENSION</b>
34	Control Air panel	1	ER	
35	Follow up transmitter	1	ZR	
36	ZP AUX HYD PUMP STARTER	1	ZR	500x630x230
37	Fi Fi Control panel	1	ER	600x800x210
38	Bridge Control Panel	1	WH	180x142x3
39	Fire detection Control Panel	1	WH	
40	FDS repeater Panel	1	SWBD ROOM	
41	Smoke Detector	12	ER	
42	Smoke Detector	29	Accommodation	
43	Sound Power telephone	2		
44	Sound Power telephone	2	ER	
45	Auto Telephone System	5	ALL	
46	Auto Telephone System	1	Planium	500x600x210
47	PA system	1	Planium	700x776x650
48	Speaker	8	ER	
49	Speaker	18	Accommodation	
50	RADAR DISPLAY	1	Console	
51	RADAR ANTENNA	1	Mast	
52	DGPS CONTROLLER	1	Console	
53	DGPS ANTENNA	1	Mast	
54	AIS CONTROLLER	1	Console	
55	AIS ANTENNA	1	Mast	
56	ECHO SOUNDER SENSOR	1	ER	
57	ECHO SOUNDER JB	1	Main Deck	
58	ECHO SOUNDER DISPLAY	1	Console	
59	LOG SENSOR	1	ER	
60	LOG JB	1	Main Deck	
61	LOG DISPLAY	1	Console	
62	MAGNETIC COMPASS	1	wheelhouse top	
63	AUTO PILOT DISPLAY	1	Console	
64	ANEMOMETER SENSOR	1	Mast	
65	ANEMOMETER DISPLAY	1	Console	





UDUPI COCHIN SHIPYARD LIMITED  
Tender for Electrical Work of 70 -Ton Bollard Pull ASD-Tug  
UCSL/CC/T/TUG/302 DT: 03<sup>RD</sup> Dec 2024

ELECTRICAL EQUIPMENT INSTALLATION				
SL. NO	ELECTRICAL EQUIPMENT INSTALLATION	NO. OF EQUIPMENTS	LOCATION	DIMENSION
66	VHF RECEIVER	1	Console	
67	VHF ANTENNA	1	Mast	
68	VHF RECEIVER	1	Console	
69	VHF ANTENNA	1	Mast	
70	EPIRB	1	Wheelhouse	
71	SART	1	Wheelhouse	
72	NAVTEX RECEIVER	1	Console	
73	NAVTEX ANTENNA	1	Mast	
74	INMAR SAT C ANTENNA	1	Mast	
75	INMARSAT C DISPLAY	1	Console	
76	CONSOLE WHEELHOUSE ( 5 qty)	1	Wheelhouse	
77	CONSOLE SWBD ROOM	1	SWBD Room	
78	LIGHTS	180	ER-55 outside-40	
79	FLOOD LIGHT	8		
80	SEARCH LIGHT	2		
81	SWITCH & SCOKET	110		
82	Navigation Lights	15	MAst	
83	NLCP	1	Console	
84	telegraph	2	SWBD ROOM	
85	AMS Control Panel	1	SWBD ROOM	
86	Tank sensor and JB	18	Tank	
87	Bilge sensor and JB	8	ER low level	
88	Door sensor and JB	5		
89	Flow sensor and JB	1		
90	Monitor	1	Console	
91	Coaming filling	10		
92	Satellite compass	1	Console	
93	HMI unit	4		
94	Printer GMDSS table	2	GMDSS TABLE	
95	MFHF transiter unit/power supply unit	2	Console	
96	inmersat power supply unit	2	GMDSS TABLE	





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UCSL/CC/T/TUG/302 DT: 03<sup>RD</sup> Dec 2024

<b>ELECTRICAL EQUIPMENT INSTALLATION</b>				
<b>SL. NO</b>	<b>ELECTRICAL EQUIPMENT INSTALLATION</b>	<b>NO. OF EQUIPMENTS</b>	<b>LOCATION</b>	<b>DIMENSION</b>
97	CCTV ups	1	GMDSS TABLE	
98	Foam pump (optional)	1	engine room	
99	aldis lamp socket	2	wheelhouse	
100	Emergency stop panel	1	wheelhouse	
101	Embarkation lamp	3	wheelhouse	
102	BANWAS	1	Console/acco.	
103	VHF repeater	1	messroom/cpt. Room	
104	Welding socket	1	workshop	

<b>CABLE LAYING</b>			
<b>SL. NO</b>	<b>SYSTEM</b>	<b>NUMBER OF CABLES (NOS)</b>	<b>TOTAL (Meters)</b>
1	POWER SYSTEM CABLE		
	3CX50SQMM TO 3CX16SQMM	30	580
	3CX10SQMM TO 3CX1.5SQMM	520	13170
2	SIGNAL CABLE		
	12CX2X0.75SQMM TO 6CX2X0.75SQMM	20	400
	4CX2X0.75SQMM TO 2CX2X0.75SQMM	30	250
	1CX2X0.75SQMM TO 1CX2X0.5SQMM	472	9900
3	SUPPLIER CABLES	60	1350
4	CAT6 CABLE (LAN)	30	1200
	<b>TOTAL CABLES</b>	<b>1162</b>	<b>26850</b>

**Note: Including cable strapping and cable survey**

<b>CABLE GLAND TERMINATION</b>			
<b>SL. NO</b>	<b>SYSTEM</b>	<b>NUMBER OF CABLES (NOS)</b>	<b>NUMBER OF ENDS</b>
1	POWER SYSTEM CABLE		
	3CX50SQMM TO 3CX16SQMM	30	60
	3CX10SQMM TO 3CX1.5SQMM	520	1040
2	SIGNAL CABLE		
	12CX2X0.75SQMM TO 6CX2X0.75SQMM	20	40
	4CX2X0.75SQMM TO 2CX2X0.75SQMM	30	60
	1CX2X0.75SQMM TO 1CX2X0.5SQMM	472	944
3	SUPPLIER CABLES	60	120
	CAT6 CABLE (LAN)	30	60
	<b>TOTAL CABLES</b>	<b>1162</b>	<b>2324</b>



**POWER OF ATTORNEY**

*(On Applicant's letter head)*

(Date and Reference)

To  
The Assistant General Manager (Materials & Contract Cell)  
Udupi Cochin Shipyard Limited  
Fishing Harbour complex, Malpe,  
Udupi-576 108.

**Subject: Power of Attorney**

Mr. / Mrs. / Ms..... (Name of the Person(s)), domiciled  
at .....(Address),  
acting as..... (Designation and name of the company), and whose  
signature is attested below, is hereby appointed as the Authorized Representative and authorized on  
behalf of ..... (Name of the  
company) to provide information and respond to enquiries etc. as may be required by the Employer for  
the project of ..... (Project title) and is  
hereby further authorized to sign and file relevant documents in respect of the above.

(Attested signature of Mr. ....)

For.....  
(Name & designation)

(Company Seal)





UDUPI COCHIN SHIPYARD LIMITED  
Tender for Electrical Work of 70 -Ton Bollard Pull ASD-Tug  
UCSL/CC/T/TUG/302 DT: 03<sup>RD</sup> Dec 2024

**UCSL/CC/T/TUG/302**

**TENDER FOR ELECTRICAL OUTFITTING, CABLE LAYING, TERMINATION & COMMISSIONING OF ELECTRICAL SYSTEMS OF 70 TON BOLLARD PULL ASD-TUG**

**PRICE BID**

SL NO	WORK DESCRIPTION	QTY	UOM	TOTAL(INR)
1	Electrical equipment installation, Cable laying, Cable gland termination & Commissioning of electrical systems as per the scope of work.	1	Shipset	
2			IGST/GST..... %	
3			<b>GRAND TOTAL AMOUNT (INR)</b>	
<b>AMOUNT IN WORDS:</b>				

Signature:

Address of the contractor:

Seal:





UDUPI COCHIN SHIPYARD LIMITED  
Tender for Electrical Work of 70 -Ton Bollard Pull ASD-Tug  
UCSL/CC/T/TUG/302 DT: 03<sup>RD</sup> Dec 2024

**ANNEXURE-VI**

**TECHNO COMMERCIAL CHECK LIST (To be submitted by the bidder)**

(Bidders may confirm acceptance of the Tender Conditions/deviations if any to be specified)

SL No.	Tender Enquiry Requirements	Confirmation from bidder (Strike off whichever is not applicable)	Specific comments /Remarks
1	Terms & Condition, Scope of work & Indicative Quantum of Work. (Annexure-I, II & III)	Agreed as per tender /Do not agree	
2	Schedule	Agreed as per tender/Do not agree	
3	Mobilization period as per clause no 5.5	Agreed as per tender/Do not agree	
4	Unconditional Acceptance	Agreed as per tender/Do not agree	
5	Offer Validity	06 Months - Agreed as per tender/Do not agree	
6	Taxes & Duties	Specified/included in Price	
7	Payment terms - confirm		
a	As per Clause 10 of Annexure - I	Agreed as per tender/Do not agree	
8	Price shall remain firm and fixed and No Escalation in prices after awarding of contract	Agreed as per tender/Do not agree	
9	Security Deposit	Agreed as per tender/Do not agree	
10	Performance Guarantee	Agreed as per tender/Do not agree	
11	Force Majeure	Agreed as per tender/Do not agree	
12	Liquidated damages and cancellation of contract	Agreed as per tender/Do not agree	
13	Arbitration & Jurisdiction clauses	Agreed as per tender/Do not agree	
14	Confirm all other terms and conditions of our enquiry are acceptable.	Confirmed/Not confirmed	
15	Deviations from Tender conditions	No Deviations	

Signature:

Address of the Contractor:

Seal:







**ROBERT ALLAN LTD.**  
NAVAL ARCHITECTS AND MARINE ENGINEERS

220-1839 West 2nd Avenue  
Vancouver, B.C. V6L 1H2  
Canada

www.ra.co  
info@ra.co  
41-604-735-9469

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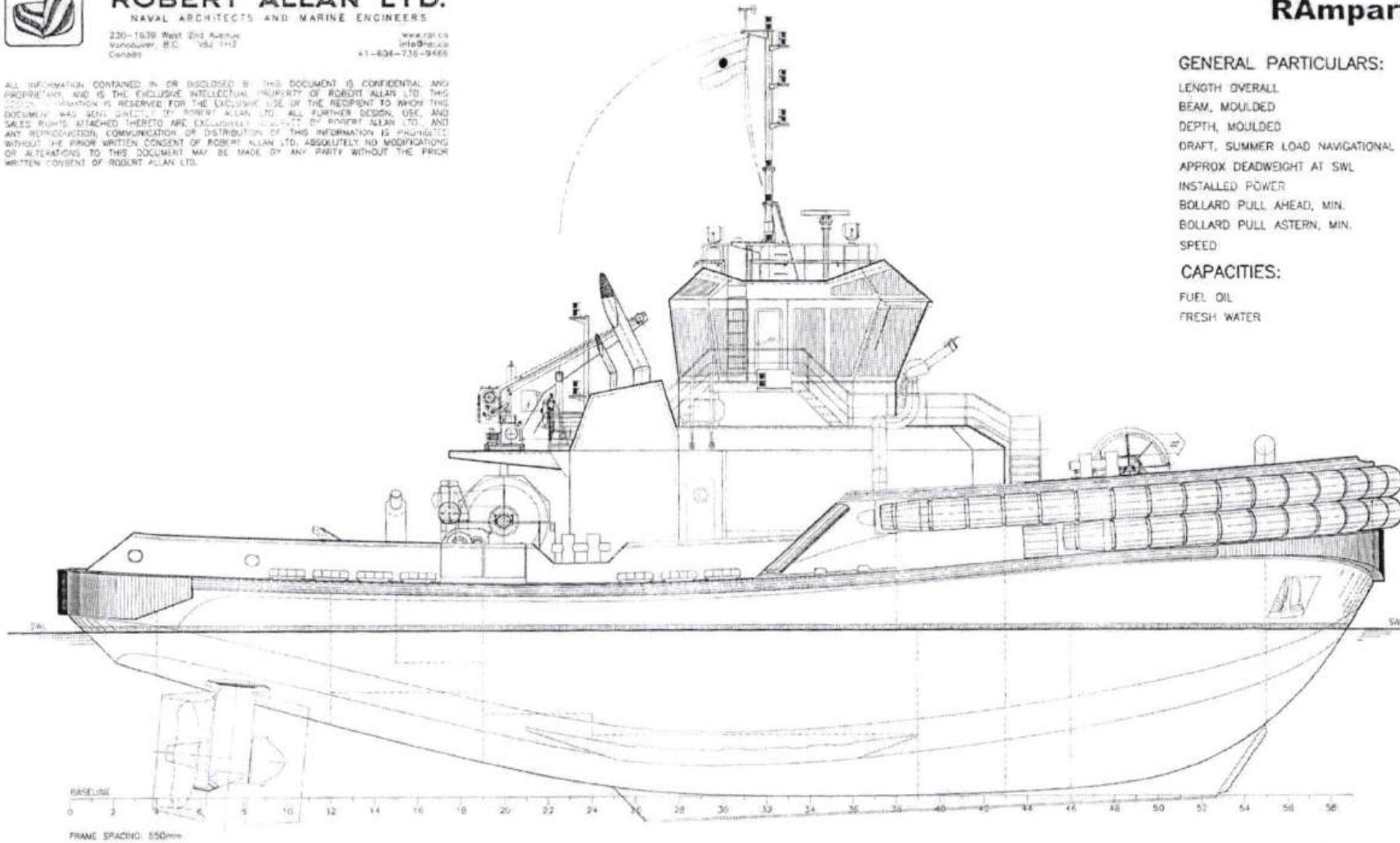
# RAMparts 3300

**GENERAL PARTICULARS:**

LENGTH OVERALL	33.0 m
BEAM, MOULDED	12.2 m
DEPTH, MOULDED	5.5 m
DRAFT, SUMMER LOAD NAVIGATIONAL	5.1 m
APPROX DEADWEIGHT AT SWL	250 TONNES
INSTALLED POWER	2 x 1838 kW
BOLLARD PULL AHEAD, MIN.	70 TONNES
BOLLARD PULL ASTERN, MIN.	65 TONNES
SPEED	12.5 KNOTS

**CAPACITIES:**

FUEL OIL	200 m <sup>3</sup>
FRESH WATER	85 m <sup>3</sup>



PROFILE

1	UPDATED NAV LIGHTS	LB	
2	UPDATED FOREDECK ARRANGEMENT, NAV LIGHTS, MESS DOOR, LAUNDRY ROOM, CHANGED BALLAST TO PORTABLE WATER	LB	
3	FIRST ISSUE	MTR	
REV	REVISIONS	BY	DATE

CLIENT			
TITLE: <b>GENERAL ARRANGEMENT</b>			
DRAWN BY MTB	CHECKED LB	DATE	SHEET 1 OF 4
ENQUIRY No. 21-157	SET No. 222-032	DRAWING No. 30000	REV 3

