

**TENDER NO. UCSSL/CC/SB/T/191-192/205/2026**  
**DT.:04-05-2026**

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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**  
**MALPE, UDUPI 576108**





UDUPI COCHIN SHIPYARD LIMITED  
Tender for Electrical Work of 70 -Ton Bollard Pull ASD-Tug  
UCSL/CC/SB/T/191-192/205/2026 DT: 04.05.2026

## TENDER NOTICE

Tender No. & date	UCSL/CC/SB/T/191-192/205/2026 DT: 04 <sup>th</sup> May 2026
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>18<sup>th</sup> May 2026 (Monday), 15:30 HRS.</b>
Date & time of opening of Technical Bid (Part-I)	<b>18<sup>th</sup> May 2026 (Monday), 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 (A)(B) 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@udupiUCSL.com](mailto:contractcell@udupiUCSL.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@udupiUCSL.com](mailto:contractcell@udupiUCSL.com) An acknowledgement mail shall be sent to the bidders on receipt of bids. UUCSL 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 (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 (Contract Cell), Udupi Cochin Shipyards Limited, tender and reserves the authority to reject the tender received without assigning any reason.
  7. Contact Person: Mr. Akhil RP, Ph. No: **0820-2912103.**

Assistant General Manager (Contract Cell)

अखिल आर पी  
AKHIL R P  
प्रबंधक MANAGER  
उडुपि कोचीन शिपयार्ड लिमिटेड  
UDUPI COCHIN SHIPYARD LIMITED  
माल्पे, 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-191 & UY-192" of 70T Bollard Pull ASD-Tug to be built at Cochin Shipyard Limited (UCSL), cochin, Kerala.
- 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>
Mig Coil E71t 1c 1.2mm Dia	177.10
Flux Cored Wire of Ss 309l 0.8mm Dia	977.50
Tig Filler Wire 70 S2, 2.4mm	276.00
Mig Solid Wire Er-70s-6 1.2mm	126.50
Welding Electrode: E 6013: 2.5 Mm	126.50
Welding Electrode: E 6013: 3.15 Mm	168.48
Welding Electrode: E 6013: 4 Mm	168.48
Welding Electrode: E 7018: 2.5 Mm	120.75
Welding Electrode: E 7018: 3.15 Mm	143.75
Welding Electrode: E 7018: 4 Mm	195.50
SS Welding Electrode 309l 3.15mm	740.60
SS Welding Electrode E316 L, 2.5 Mm	740.60
SS Welding Electrode E316 L, 3.15 Mm	740.60
MS To SS Welding Electrode 309 X2.5mm	753.25

\*The above prices are excluding of GST.

- 1.5. Welding electrodes and gases used for fabrication / erection purposes are supplied by UCSL only.
- 1.6. Consumable related to the electrical installation as per annexure will be scope of contractor.





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- 1.7. The work is to be carried out at the skid area allocated to the contractor (s) inside CSL premises.
- 1.8. **You are requested to obtain clarifications, if any, and carefully study the documents and the scope of services and UCSL, before submitting your offer.**
- 1.9. The Agencies are advised to familiarize themselves with the site conditions before quoting.

## **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 1918 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 2 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-191(1st vessel) and the next inline bidder will be called for negotiation to meet the L1 bidder's rate to award work order for UY192 (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 also reserves the right to cancel the tender if required.





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### **COMMON REQUIREMENTS**

- 4.4. 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.
- 4.5. 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.
- 4.6. 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-191 to UY-192 BP ASD-Tug electrical outfitting, cable laying, termination & commissioning of electrical systems to be completed within 8 Months from the date of commencement.

Sl No	Vessel Detail	Tentative Start Date	Tentative Completion Date
1	UY-191- 70 Ton Bollard Pull ASD Tug	Nov 2026	Aug 2027
2	UY-192- 70 Ton Bollard Pull ASD Tug	Dec 2026	Sep 2027

- 5.2. The above Electrical outfitting, cable laying, Termination & commissioning of electrical systems completion date is inclusive of handing over to commissioning activities.
- 5.3. 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.
- 5.4. 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.
- 5.5. 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.
- 5.6. 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.





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## 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.
- 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.





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## 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.

### **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 trial 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 Cochin Shipyard Limited(32AAACC6905B1ZD).





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## **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 GURANTEEE**

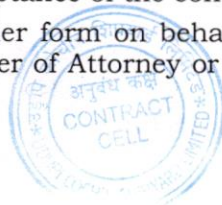
- 13.1. The complete work carried out by the contractor shall be guaranteed against defective on poor workmanship for a period of Six (06) months from the date of completion of work or till delivery of that vessel, whichever is earlier. Any work found defective during this period is to be repaired entirely 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.

## **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





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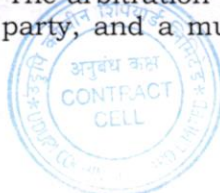
or the partnership deed giving him such power showing that, he has the authority to bind such other persons or the firm, as the case may be, in all matters pertaining to the contracts. If the Person so signing the tender, fails to enclose the said Power of Attorney, his tender shall be liable for being 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.
- 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





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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.

## **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.

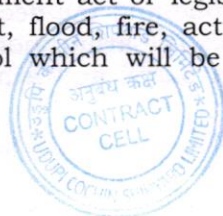
## **20. CANCELLATION OF ORDER AND RISK CONTRACTING**

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





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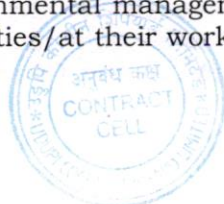
extension of time, UCSL may allow such additional time as is mutually agreed to be justified by the circumstances of the case.

## **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.
  - 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





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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.

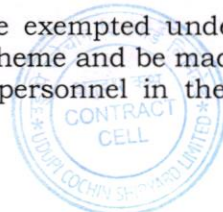
- e) If any contractor failed to comply with or violated any clauses/requirements of occupational health, safety and environmental Rules effective in the state, in their activities or at work sites and the same shall be exposed to the government or any competent authorities upon inspections, the contractor 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.
- 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





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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.
- 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.**





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## **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.
- 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 UCSL 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 UCSL.
- 28.9. The service provider shall also be governed by the General Conditions of Contract of UCSL, 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 UCSL 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. Integration of the electrical systems with all machineries, Accommodation system and other electrical system in the entire vessel.
- 1.3. Production drawing will be provided on commencement of work.
- 1.4. 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.
- 1.5. 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.
- 1.6. 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.
- 1.7. Commissioning scope involves loop testing of cables, Megger test of electrical motors, Commissioning assistance till completion of the vessel.
- 1.8. Commissioning assistance for all electrical system up to delivery.
- 1.9. Project Execution, supervision, management and reporting of all the tasks/activities associated with the electrical works of the vessel as above.
- 1.10. Ensuring best housekeeping practices to keep the work premises neat and clean in daily basis.
- 1.11. 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.
- 1.12. Rectification of defects as per the comments from Yard I&QC, Owners & Class authorities.
- 1.13. Qualified and experienced electricians to be engaged by the subcontractor.
- 1.14. 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.
- 1.15. 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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- 1.16. 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.
- 1.17. 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.
- 1.18. Collection of material, Transportation/loading/unloading of materials / other equipment's from UCSL shops/store to contractor's site/skid in UCSL premises.
- 1.19. Providing all personnel protective items like safety helmets, gloves, welding shields, goggles, leg guards, safety belts, aprons, safety shoes etc. to their employees.
- 1.20. Attending weekly quality and safety patrol along with a UCSL officer, the observations are required to be closed within 7 days.

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 WORK - CONTRACTOR**

The scope of work includes complete electrical outfitting, cable way fabrication and installation, cabling, termination, testing, commissioning assistance, and survey presentation, including all associated hot works and dry surveys, from commencement up to delivery of the vessel, to the satisfaction of UCSL, Owners, and Classification Society.

### **PART I - CABLE WAY & EQUIPMENT SEATS (ENTIRE VESSEL)**

The contractor shall be responsible for fabrication and installation of complete cable ways and electrical equipment foundations throughout the vessel, including accommodation and exposed deck areas.

This includes:

- a) Fabrication and installation of cable tray supports, flat bars, equipment seats/foundations, goose necks, tank penetrations, coamings, gland pipes, and related structural items.
- b) Installation of complete cable way system including cable trays, saddles, conduits, flat bars, coamings, goose necks, and associated hot works for the entire vessel.
- c) Installation of seats/foundations for all electrical and instrumentation equipment including field sensors, level switches, remote-control valves, tank sounding systems, and related items. Required copper tubing, if any, is included in contractor scope.
- d) Welding of pads and fittings for cable trays and equipment seats on tanks, bulkheads, decks, mast, and weather-exposed areas as per drawings and yard standards.

### **PART II - ELECTRICAL OUTFITTING, CABLING, TERMINATION & COMMISSIONING**

The contractor shall carry out installation, cabling, termination, testing, and commissioning assistance for all electrical systems (except those explicitly mentioned under UCSL scope), in accordance with contract specifications, UCSL standards, approved drawings, and marine/class requirements.





This includes:

- a) Installation of all electrical equipment including switchboards, panels, starters, motors, sensors, and field instruments.
- b) Laying of all types of cables onboard the vessel as per UCSL and marine standards.
- c) Cables include power, control, instrumentation, fiber optic, CAT-7, underwater transducer cables, antenna and communication cables, maker cables, sensor cables, and other special cables..
- e) Dressing, segregation, and localized routing of cables near equipment (temporary and permanent).
- f) Cable termination for all electrical and electronic equipment as per approved standards.
- g) Testing and commissioning assistance including loop checks, continuity checks, megger testing of motors and cables (as required), and support to OEM / UCSL commissioning engineers until vessel delivery.
- h) Earthing of all equipment including welding of earthing studs where required. Supply of earthing cables and earthing hardware is under contractor scope.
- i) Fabrication and installation of pipes and routing of cables for echo sounder, speed log, ICCP, ICAF, bilge level sensors, etc., from sensors to JB/equipment as per yard drawings.
- j) Laying and termination of load test cables at load bank/transformer and MSB, and assistance during generator load testing.
- k) Assistance during machinery commissioning, accommodation outfitting, harbour trials, surveys, and sea trials as directed by UCSL.
- l) Minor re-works, modifications, and rectifications arising due to outfitting constraints, drawing revisions, or survey comments shall be carried out at no extra cost.

### 3. HARDWARE, CONSUMABLES & TOOLS – CONTRACTOR SCOPE

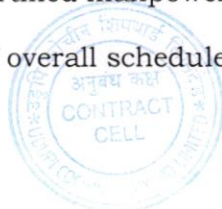
The **entire supply, handling, and consumption of the following items shall be under contractor scope:** (Indicative list of consumables is attached in the separate annexure)

- a) Cable lugs (PG type and Class-approved), suitable for M4 to M16 bolts.
- For cables  $\geq 35$  sq.mm, double compression long barrel lugs shall be used.
- b) Cable glands (where not supplied by OEM),
- c) Cable identification tags (PVC/metal slip-in for indoor areas and SS 316 for outdoor areas), ferrules, sleeves, and printing materials.
- d) Stainless steel bands, buckles, marine-grade cable ties, clamps, saddles, fasteners, bolts, nuts, washers, and fixing hardware.
- e) Welding electrodes, cutting consumables, gases, and all minor consumables required for execution.
- f) All tools and tackles including crimping tools, testing instruments (multimeter, clamp meter, megger), sleeve printers, cable strapping tools, winches, ladders, and installation aids.

### 4. OTHER RESPONSIBILITIES OF CONTRACTOR

Transportation within Malpe unit, storage, protection, preservation, and accounting of all issued materials until vessel delivery.

- b) Execution strictly as per approved drawings, UCSL standards, marine rules, and class requirements.
- c) Deployment of qualified and certified manpower, supervisors, tools, and test equipment.
- d) Preparation and submission of overall schedule and weekly/monthly progress





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plans.

- e) Compliance with UCSL safety rules, work permits, hot work approvals, confined space entry, and HSE requirements.
- f) Housekeeping, waste disposal, and maintaining clean work areas on a daily basis.
- g) Erection of minor staging up to 3 m height using UCSL material at no extra cost.
- h) Survey and trial presentation to UCSL I&QC, Owners, and Classification Society and rectification of all observations.
- i) Any damage or loss to UCSL-supplied material due to contractor negligence shall be recovered from the contractor.
- j) Contractor shall work round-the-clock, including Sundays/holidays, if required to meet project schedules.

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

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

### **4.ADDITIONAL WORKS**

- a. 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.
- b. 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.
- c. 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.
- d. 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.
- e. 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, m) UHF 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 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
32	Gas detection System	Included





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33	UHF	Included				
<b>ELECTRICAL HOT WORK</b>						
Sl No.	Activities	Unit	Qty	Location	Dimension	Type
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	Major
17	415V Group starter panel-2	Nos	1	ER	700x800x250	Major
18	415V Group starter panel-3	Nos	1	domestic Equip. Room	550x700x200	Major
19	415V Group starter panel-4	Nos	1	domestic Equip. Room	500x700x250	Major
20	415V Group starter panel-5	Nos	1	Z dive	500x700x250	Major





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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	Major
22	230v gally DB	Nos	1	Galley/accom/ messroom	450x700x150	Major
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	Void 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	domestic equip. Room		
48	Seat for Transformer-2 50 KVA	Nos	1	domestic equip. Room		
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 Sound Power telephone	Nos	2	WH/MSB room		
63	Seat for Auto Telephone System	Nos	5	Accommodation /WH/MSB		Major
64	Seat for PA system	Nos	1	Void deck	700x776x650	Major
65	Seat for Speaker	Nos	9	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	4	Wheelhouse		
77	Seat for CONSOLE SWBD ROOM	Nos	1	SWBD Room		
78	Seat for LIGHTS	Nos	102	Inside-60 outside-42		
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	14	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		6 set	main deck/engine room		
107	MFHF Antenna		2	top of wheel house		
108	Embarkation lamp		3	wheelhouse/ main-deck		
109	HMI foundation		4			
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			
116	Gas detection System		1			
117	Seat for UHF		3			

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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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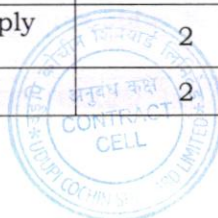
ELECTRICAL EQUIPMENT INSTALLATION				
SL. NO	ELECTRICAL EQUIPMENT INSTALLATION	NO. OF EQUIPMENTS	LOCATION	DIMENSION
34	Control Air panel	1	ER	
35	Follow up transmitter	1	ZR	
36	ZP AUX HYD PUMP STARTER	1	ZR	500x630x230
37	Fi Fi Control panel	1	ER	600x800x210
38	Bridge Control Panel	1	WH	180x142x3
39	Fire detection Control Panel	1	WH	
40	FDS repeater Panel	1	SWBD ROOM	
41	Smoke Detector	12	ER	
42	Smoke Detector	18	Accommodation	
43	Sound Power telephone	2	WH/MSB room	
44	Sound Power telephone	2	ER	
45	Auto Telephone System	11	ALL	
46	Auto Telephone System	1	Planium	500x600x210
47	PA system	1	Planium	700x776x650
48	Speaker	5	ER	
49	Speaker	14	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	





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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>
66	VHF RECEIVER	1	Console	
67	VHF ANTENNA	1	Mast	
68	VHF RECEIVER	1	Console	
69	VHF ANTENNA	1	Mast	
70	UHF RECEIVER	1	Console	
71	UHF ANTENNA	1	Mast	
72	EPIRB	1	Wheelhouse	
73	SART	1	Wheelhouse	
74	NAVTEX RECEIVER	1	Console	
75	NAVTEX ANTENNA	1	Mast	
76	INMAR SAT C ANTENNA	1	Mast	
77	INMARSAT C DISPLAY	1	Console	
78	CONSOLE WHEELHOUSE	5	Wheelhouse	
79	CONSOLE SWBD ROOM	1	SWBD Room	
80	LIGHTS	102	ER-60 outside-42	
81	FLOOD LIGHT	8		
82	SEARCH LIGHT	2		
83	SWITCH & SCOKET	128		
84	Navigation Lights	14	MAST	
85	NLCP	1	Console	
86	TELEGRAPH	2	SWBD ROOM	
87	AMS Control Panel	1	SWBD ROOM	
88	Tank sensor and JB	18	Tank	
89	Bilge sensor and JB	8	ER low level	
90	Door sensor and JB	5		
91	Flow sensor and JB	1		
92	Monitor	1	Console	
93	Coaming filling	10		
94	Satellite compass	1	Console	
95	HMI unit	4		
96	Printer GMDSS table	2	GMDSS TABLE	
97	MFHF transiter unit/power supply unit	2	Console	
98	INMERSAT power supply unit	2	GMDSS TABLE	





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<b>SL. NO</b>	<b>ELECTRICAL EQUIPMENT INSTALLATION</b>	<b>NO. OF EQUIPMENTS</b>	<b>LOCATION</b>	<b>DIMENSION</b>
99	CCTV UPS	1	GMDSS TABLE	
100	Foam pump (optional)	1	engine room	
101	Aldis lamp socket	2	wheelhouse	
102	Emergency stop panel	1	wheelhouse	
103	Embarkation lamp	3	wheelhouse	
104	BANWAS	1	Console/acco.	
105	VHF repeater	1	messroom/capt. Room	
106	Welding socket	1	workshop	
107	PA Speaker	2	weather deck	
108	PA Speaker	2	MSB/WH	
109	MCP	18	ER/ Acco.	
110	FDS Sounder strobe system	9	ER	
111	Heat Detectors	6	ER/CO2 room	
112	MSB Vibration mount	15	MSB Room	

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<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		
	2CX16SQMM TO 2C1.5SQMM	302	6600
	3CX50SQMM TO 3CX16SQMM	42	1500
	3CX10SQMM TO 3CX1.5SQMM	100	2300
2	FIRE RESISTANT CABLE		
	2CX2.5SQMM TO 2CX1.5SQMM	30	1000
3	SIGNAL CABLE		
	14CX2X0.75SQMM TO 7CX2X0.75SQMM	49	2200
	5CX2X0.75SQMM TO 2CX2X0.75SQMM	225	8500
	1CX2X1.5SQMM TO 1CX2X0.75SQMM	60	1600
4	SUPPLIER CABLES	60	1500
5	CAT6 CABLE (LAN)	30	1200
	<b>TOTAL CABLES</b>	<b>899</b>	<b>26400</b>

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

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<b>CABLE GLAND TERMINATION</b>
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SL. NO	SYSTEM	NUMBER OF CABLES (NOS)	NUMBER OF ENDS
1	POWER SYSTEM CABLE		
	2CX16SQMM TO 2C1.5SQMM	302	604
	3CX50SQMM TO 3CX16SQMM	42	74
	3CX10SQMM TO 3CX1.5SQMM	100	200
2	FIRE RESISTANT CABLE		
	2CX2.5SQMM TO 2CX1.5SQMM	30	60
3	SIGNAL CABLE		
	14CX2X0.75SQMM TO 7CX2X0.75SQMM	49	70
	5CX2X0.75SQMM TO 2CX2X0.75SQMM	225	450
	1CX2X1.5SQMM TO 1CX2X0.75SQMM	60	108
4	SUPPLIER CABLES	60	120
5	CAT6 CABLE (LAN)	30	60
	<b>TOTAL CABLES</b>	<b>899</b>	<b>1756</b>

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## INDICATIVE QUANTUM OF CONSUMABLE SUPPLY

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

SL NO	Description	Qty	UOM
1	CABLE CRIMPING LUG 0.75 SQMM TUBLER TYPE	2500	EA
2	CABLE CRIMPING LUG 1.5 SQMM TUBLER TYPE	5000	EA
3	CABLE CRIMPING LUG 1.5 SQMM FOR M4 BOLT - MATERIAL: - COPPER WITH TIN COATING (INSULATED TYPE)	300	EA
4	CABLE CRIMPING LUG 1.5 SQMM FOR M6 BOLT - MATERIAL: - COPPER WITH TIN COATING (INSULATED TYPE)	300	EA
5	CABLE CRIMPING LUG 2.5 SQMM TUBLER TYPE	3000	EA
6	CABLE CRIMPING LUG 2.5 SQMM FOR M4 BOLT - MATERIAL: - COPPER WITH TIN COATING (INSULATED TYPE)	100	EA
7	CABLE CRIMPING LUG 2.5 SQMM FOR M6 BOLT - MATERIAL: - COPPER WITH TIN COATING (INSULATED TYPE)	100	EA
8	CABLE CRIMPING LUG 2.5 SQMM FOR M8 BOLT - MATERIAL: - COPPER WITH TIN COATING (INSULATED TYPE)	100	EA
9	CABLE CRIMPING LUG 4 SQMM TUBLER TYPE	100	EA
10	CABLE CRIMPING LUG 4 SQMM FOR M6 BOLT - MATERIAL: - COPPER WITH TIN COATING (INSULATED TYPE)	100	EA
11	CABLE CRIMPING LUG 4 SQMM FOR M8 BOLT - MATERIAL: - COPPER WITH TIN COATING (INSULATED TYPE)	100	EA
12	CABLE CRIMPING LUG 6 SQMM PIN TYPE	100	EA
13	CABLE CRIMPING LUG 6 SQMM FOR M6 BOLT - MATERIAL: - COPPER WITH TIN COATING (INSULATED TYPE)	50	EA
14	CABLE CRIMPING LUG 6 SQMM FOR M8 BOLT - MATERIAL: - COPPER WITH TIN COATING (INSULATED TYPE)	50	EA
15	CABLE CRIMPING LUG 6 SQMM FOR M10 BOLT - MATERIAL: -COPPER WITH TIN COATING (INSULATED TYPE)	50	EA
16	CABLE CRIMPING LUG 10 SQMM TUBLER TYPE	50	EA
17	CABLE CRIMPING LUG 10 SQMM FOR M6 BOLT - MATERIAL: - COPPER WITH TIN COATING (INSULATED TYPE)	50	EA





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18	CABLE CRIMPING LUG 10 SQMM FOR M8 BOLT - MATERIAL: - COPPER WITH TIN COATING (INSULATED TYPE)	50	EA
19	CABLE CRIMPING LUG 10 SQMM FOR M10 BOLT - MATERIAL: - COPPER WITH TIN COATING (INSULATED TYPE)	50	EA
20	CABLE CRIMPING LUG 10 SQMM FOR M12 BOLT - MATERIAL: - COPPER WITH TIN COATING (INSULATED TYPE)	50	EA
21	CABLE CRIMPING LUG 16 SQMM PIN TYPE	100	EA
22	CABLE CRIMPING LUG 16 SQMM FOR M8 BOLT - MATERIAL: - COPPER WITH TIN COATING (NON-INSULATED HEAVY-DUTY TYPE)	50	EA
23	CABLE CRIMPING LUG 16 SQMM FOR M10 BOLT - MATERIAL: - COPPER WITH TIN COATING (NON-INSULATED HEAVY-DUTY TYPE)	50	EA
24	CABLE CRIMPING LUG 16 SQMM FOR M12 BOLT - MATERIAL: - COPPER WITH TIN COATING (NON-INSULATED HEAVY-DUTY TYPE)	50	EA
25	CABLE CRIMPING LUG 25 SQMM PIN TYPE	50	EA
26	CABLE CRIMPING LUG 25 SQMM FOR M6 BOLT - MATERIAL: - COPPER WITH TIN COATING (NON-INSULATED HEAVY-DUTY TYPE)	50	EA
27	CABLE CRIMPING LUG 25 SQMM FOR M8 BOLT - MATERIAL: - COPPER WITH TIN COATING (NON-INSULATED HEAVY-DUTY TYPE)	50	EA
28	CABLE CRIMPING LUG 25 SQMM FOR M10 BOLT - MATERIAL: - COPPER WITH TIN COATING (NON-INSULATED HEAVY-DUTY TYPE)	50	EA
29	CABLE CRIMPING LUG 25 SQMM FOR M12 BOLT - MATERIAL: - COPPER WITH TIN COATING (NON-INSULATED HEAVY-DUTY TYPE)	50	EA
30	CABLE DOUBLE CRIMPING LONG BARREL LUG 35 SQMM PIN TYPE	50	EA
31	CABLE DOUBLE CRIMPING LONG BARREL LUG 35 SQMM FOR M6 BOLT - MATERIAL: - COPPER WITH TIN COATING (NON-INSULATED HEAVY-DUTY TYPE)	50	EA
32	CABLE DOUBLE CRIMPING LONG BARREL LUG 35 SQMM FOR M8 BOLT - MATERIAL: - COPPER WITH TIN COATING (NON-INSULATED HEAVY-DUTY TYPE)	50	EA
33	CABLE DOUBLE CRIMPING LONG BARREL LUG 35 SQMM FOR M10 BOLT - MATERIAL: - COPPER WITH TIN COATING (NON-INSULATED HEAVY-DUTY TYPE)	50	EA
34	CABLE DOUBLE CRIMPING LONG BARREL LUG 35 SQMM FOR M12 BOLT - MATERIAL: - COPPER WITH TIN COATING (NON-INSULATED HEAVY-DUTY TYPE)	50	EA
35	CABLE DOUBLE CRIMPING LONG BARREL LUG 50 SQMM FOR M8 BOLT - MATERIAL: -COPPER WITH TIN COATING (NON-INSULATED TUBULAR HEAVY DUTY DOUBLE COMPRESSION LONG BARREL TYPE)	50	EA
36	CABLE DOUBLE CRIMPING LONG BARREL LUG 50 SQMM FOR M10 BOLT - MATERIAL: - COPPER WITH TIN COATING (NON-INSULATED TUBULAR HEAVY DUTY DOUBLE COMPRESSION LONG BARREL TYPE)	50	EA
37	CABLE DOUBLE CRIMPING LONG BARREL LUG 50 SQMM FOR M12 BOLT - MATERIAL: -COPPER WITH TIN COATING (NON-INSULATED TUBULAR HEAVY DUTY DOUBLE COMPRESSION LONG BARREL TYPE)	50	EA





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38	CABLE DOUBLE CRIMPING LONG BARREL LUG 95 SQMM FOR M8 BOLT - MATERIAL: - COPPER WITH TIN COATING (NON-INSULATED TUBULAR HEAVY DUTY DOUBLE COMPRESSION LONG BARREL TYPE)	50	EA
39	CABLE DOUBLE CRIMPING LONG BARREL LUG 95 SQMM FOR M10 BOLT - MATERIAL: -COPPER WITH TIN COATING (NON-INSULATED TUBULAR HEAVY DUTY DOUBLE COMPRESSION LONG BARREL TYPE)	25	EA
40	CABLE DOUBLE CRIMPING LONG BARREL LUG 95 SQMM FOR M12 BOLT - MATERIAL: - COPPER WITH TIN COATING (NON-INSULATED TUBULAR HEAVY DUTY DOUBLE COMPRESSION LONG BARREL TYPE)	25	EA
41	EARTHING CABLE 2.5 SQ MM 1 CORE MULTI STRANDED ANNEALED COPPER CONDUCTOR WITH INSULATION 1.1KV GRADE (COLOUR: YELLOW & GREEN)	100	MTRS
42	EARTHING CABLE 4 SQ MM 1 CORE MULTI STRANDED ANNEALED COPPER CONDUCTOR WITH INSULATION 1.1KV GRADE (COLOUR: YELLOW & GREEN)	50	MTRS
43	EARTHING CABLE 6 SQ MM 1 CORE MULTI STRANDED ANNEALED COPPER CONDUCTOR WITH INSULATION 1.1KV GRADE (COLOUR: YELLOW & GREEN)	50	MTRS
44	EARTHING CABLE 16 SQ MM 1 CORE MULTI STRANDED ANNEALED COPPER CONDUCTOR WITH INSULATION 1.1KV GRADE (COLOUR: YELLOW & GREEN)	20	MTRS
45	EARTHING CABLE 25 SQ MM 1 CORE MULTI STRANDED ANNEALED COPPER CONDUCTOR WITH INSULATION 1.1KV GRADE (COLOUR: YELLOW & GREEN)	20	MTRS
46	NYLON 6.6 CABLE TIE LOCKING TYPE -WHITE COLOUR 100MM LENGTH 0.1-5.0MM WIDTH	20	PACK
47	NYLON 6.6 CABLE TIE LOCKING TYPE -WHITE COLOUR 150MM LENGTH 0.1-5.0MM WIDTH	30	PACK
48	NYLON 6.6 CABLE TIE LOCKING TYPE -BLACK COLOUR 300MM LENGTH 7.1-9.0MM WIDTH	40	PACK
49	NYLON 6.6 CABLE TIE LOCKING TYPE - WHITE COLOUR 350MM LENGTH 0.1-5.0MM WIDTH	5	PACK
50	PVC Cable Tie 300x7.5mm Black	50	PACK
51	PVC Cable Tie 400x7.5mm Black	50	PACK
52	PVC Cable Tie 300x4mm White	100	PACK
53	PVC Cable Tie 400x4mm White	50	PACK
54	PVC Cable Tie 100x4mm White	30	PACK
55	PVC Cable Tie 200x4mm White	50	PACK
56	STAINLESS-STEEL SELF-LOCKING CABLE TIES-SS 316 WITH NYLON/ POLYESTER COATING -BLACK COLOUR 150MM LENGTH 4.6MM WIDTH	5	PACK
57	STAINLESS-STEEL SELF-LOCKING CABLE TIES-SS 316 WITH NYLON/ POLYESTER COATING -BLACK COLOUR 300MM LENGTH 4.6MM WIDTH	10	PACK





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58	STAINLESS STEEL ID TAG 20mmx900mm	225	EA
59	IDENTIFY CABLE CARRIER PVC STRIP 8.5MMx100MM	2000	NOS
60	Ferrule ID PRINTING TUBE 10MM WHITE	100	MTRS
61	Ferrule ID PRINTING TUBE 2.5MM WHITE	300	MTRS
62	Ferrule ID PRINTING TUBE 3MM WHITE	200	MTRS
63	Ferrule ID PRINTING TUBE 4MM WHITE	100	MTRS
64	Ferrule ID PRINTING TUBE 6MM WHITE	200	MTRS
65	GREEN & YELLOW PVC EARTH SLEEV 3MM	100	MTRS
66	GREEN & YELLOW PVC EARTH SLEEV 4MM	100	MTRS
67	GREEN & YELLOW PVC EARTH SLEEV 6MM	100	MTRS
68	GREEN & YELLOW PVC EARTH SLEEV 10MM	100	MTRS
69	5/2.5 MM DIA HALOGEN FREE FLAME RETARDENT WEATHER RESISITANT HEAT SHRINKABLE SLEEVE -BLACK COLOUR	20	MTRS
70	5/2.5 MM DIA HALOGEN FREE FLAME RETARDENT WEATHER RESISITANT HEAT SHRINKABLE SLEEVE - RED COLOUR	20	MTRS
71	5/2.5 MM DIA HALOGEN FREE FLAME RETARDENT WEATHER RESISITANT HEAT SHRINKABLE SLEEVE - BLUE COLOUR	20	MTRS
72	5/2.5 MM DIA HALOGEN FREE FLAME RETARDENT WEATHER RESISITANT HEAT SHRINKABLE SLEEVE - YELLOW WITH GREEN STRIPES	20	MTRS
73	10/5 MM DIA HALOGEN FREE FLAME RETARDENT WEATHER RESISITANT HEAT SHRINKABLE SLEEVE -BLACK COLOUR	50	MTRS
74	10/5 MM DIA HALOGEN FREE FLAME RETARDENT WEATHER RESISITANT HEAT SHRINKABLE SLEEVE - YELLOW WITH GREEN STRIPES	20	MTRS
75	10/5 MM DIA HALOGEN FREE FLAME RETARDENT WEATHER RESISITANT HEAT SHRINKABLE SLEEVE - BLUE COLOUR	20	MTRS
76	10/5 MM DIA HALOGEN FREE FLAME RETARDENT WEATHER RESISITANT HEAT SHRINKABLE SLEEVE - RED COLOUR	20	MTRS
77	15/7.5 MM DIA HALOGEN FREE FLAME RETARDENT WEATHER RESISITANT HEAT SHRINKABLE SLEEVE -BLACK COLOUR	50	MTRS
78	15/7.5 MM DIA HALOGEN FREE FLAME RETARDENT WEATHER RESISITANT HEAT SHRINKABLE SLEEVE - YELLOW WITH GREEN STRIPES	20	MTRS
79	15/7.5 MM DIA HALOGEN FREE FLAME RETARDENT WEATHER RESISITANT HEAT SHRINKABLE SLEEVE - BLUE COLOR	20	MTRS





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80	15/7.5 MM DIA HALOGEN FREE FLAME RETARDENT WEATHER RESISITANT HEAT SHRINKABLE SLEEVE - RED COLOUR	20	MTRS
81	20/10 MM DIA HALOGEN FREE FLAME RETARDENT WEATHER RESISITANT HEAT SHRINKABLE SLEEVE -BLACK COLOUR	50	MTRS
82	20/10 MM DIA HALOGEN FREE FLAME RETARDENT WEATHER RESISITANT HEAT SHRINKABLE SLEEVE - YELLOW WITH GREEN STRIPS	20	MTRS
83	20/10 MM DIA HALOGEN FREE FLAME RETARDENT WEATHER RESISITANT HEAT SHRINKABLE SLEEVE - BLUE COLOUR	20	MTRS
84	20/10 MM DIA HALOGEN FREE FLAME RETARDENT WEATHER RESISITANT HEAT SHRINKABLE SLEEVE - RED COLOUR	20	MTRS
85	25/12 MM DIA HALOGEN FREE FLAME RETARDENT WEATHER RESISITANT HEAT SHRINKABLE SLEEVE -BLACK COLOUR	50	MTRS
86	25/12 MM DIA HALOGEN FREE FLAME RETARDENT WEATHER RESISITANT HEAT SHRINKABLE SLEEVE - YELLOW WITH GREEN STRIPS	20	MTRS
87	25/12 MM DIA HALOGEN FREE FLAME RETARDENT WEATHER RESISITANT HEAT SHRINKABLE SLEEVE - BLUE COLOUR	20	MTRS
88	25/12 MM DIA HALOGEN FREE FLAME RETARDENT WEATHER RESISITANT HEAT SHRINKABLE SLEEVE - RED COLOUR	20	MTRS
89	40 MM DIA HALOGEN FREE FLAME RETARDENT WEATHER RESISITANT HEAT SHRINKABLE SLEEVE - BLACK COLOUR	50	MTRS
90	25/12 MM DIA HALOGEN FREE FLAME RETARDENT WEATHER RESISITANT HEAT SHRINKABLE SELF ADHESIVE SLEEVE -BLACK COLOUR	50	MTRS
91	25/12 MM DIA HALOGEN FREE FLAME RETARDENT WEATHER RESISITANT HEAT SHRINKABLE SELF ADHESIV SLEEVE -BLACK COLOUR	50	MTRS
92	SHORT LINK 1.5SQRMM AND 2.5 SQRMM	100	NOS. EACH
93	PG11 SS CABLE GLAND	150	EA
94	PG 13.5 SS CABLE GLAND	250	EA
95	PG 16 SS CABLE GLAND	100	EA
96	PG 21 SS CABLE GLAND	120	EA
96	PG 29 SS CABLE GLAND	100	EA
97	PG 36 SS CABLE GLAND	60	EA
98	1/2 INCH NPT THREAD CABLE GLAND	150	EA
99	3/4 INCH NPT THREAD CABLE GLAND	15	EA





**UDUPI COCHIN SHIPYARD LIMITED**  
**Tender for Electrical Work of 70 -Ton Bollard Pull ASD-Tug**  
**UCSL/CC/SB/T/191-192/205/2026 DT: 04.05.2026**

100	CABLE GLAND REDUCER M50X1.5 – PG 21 SS	10	EA
101	CABLE GLAND REDUCER M50X1.5 -PG 19 SS	10	EA
102	CABLE GLAND REDUCER M50X1.5 -PG 19 SS	10	EA
103	ELMAX TERMINAL BLOCK 1.5 SQ MM	200	EA
104	ELMAX TERMINAL BLOCK END 1.5 SQ MM	50	EA
105	ELMAX TERMINAL BLOCK END CLAMP 1.5 SQ MM	50	EA
106	ELMAX TERMINAL BLOCK 2.5 SQ MM	200	EA
107	ELMAX TERMINAL BLOCK END 2.5 SQ MM	50	EA
108	ELMAX TERMINAL BLOCK END CLAMP 2.5 SQ MM	50	EA
109	ELMAX TERMINAL BLOCK 4 SQ MM	200	EA
110	ELMAX TERMINAL BLOCK END 4 SQ MM	25	EA
111	ELMAX TERMINAL BLOCK END CLAMP 4 SQ MM	25	EA
112	ELMAX TERMINAL BLOCK 6 SQ MM	100	EA
113	ELMAX TERMINAL BLOCK END 6 SQ MM	25	EA
114	ELMAX TERMINAL BLOCK END CLAMP 6 SQ MM	25	EA
115	HYLEX SELF DRILLING SCREW 1"LENGHT (DIA-M3-9-MM)	300	EA
116	HYLEX SELF DRILLING SCREW 3/4"LENGHT (DIA-M3-9-MM).	300	EA
117	HYLEX SELF DRILLING SCREW 1/2"LENGHT (DIA-M3-9-MM).	300	EA
118	HYLEX SELF DRILLING SCREW 1/4"LENGHT (DIA-M3-9-MM).	300	EA
119	M12X50-HEXAGONAL HEADED BOLT WITH NUT- GRADE: SS316L	250	EA
120	M10X55-HEXAGONAL HEADED BOLT WITH NUT- GRADE: SS316L	100	EA





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**Tender for Electrical Work of 70 -Ton Bollard Pull ASD-Tug**  
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121	M8X50-HEXAGONAL HEADED BOLT WITH NUT- GRADE: SS316L	700	EA
122	M6X30-HEXAGONAL HEADED BOLT WITH NUT- GRADE: SS316L	500	EA
123	M8X20-HEXAGONAL HEADED HIGH TENSILE BOLT (BLACK COLOR)- GRADE: SS316L	120	EA
124	M12- PLATE WASHER- GRADE: SS316L	500	EA
125	M10- PLATE WASHER- GRADE: SS316L	200	EA
126	M8- PLATE WASHER - GRADE: SS316L	1400	EA
127	M6- PLATE WASHER - GRADE: SS316L	600	EA
128	M12 - SPRING WASHER- GRADE: SS316L	250	EA
129	M10 - SPRING WASHER- GRADE: SS316L	100	EA
130	M8- SPRING WASHER- GRADE SS316L	700	EA
131	M8- SPRING WASHER HIGH TENSILE (BLACK COLOR)- GRADE SS316L	120	EA
132	M6- SPRING WASHER- GRADE SS316L	500	EA
133	Bolt with nut M10X40 (GI)	150	Nos
134	Plate washer M10(GI)	300	Nos
135	Spring washer M10 (GI)	150	Nos
136	Bolt with nut M12X40 (GI)	150	SET
137	Plate washer M12 (GI)	300	Nos
138	Spring washer M12 (GI)	150	Nos
139	Bolt with nut M5X40 (GI)	200	Nos
140	Plate washer M5 (GI)	400	Nos
141	Spring washer M5 (GI)	200	Nos





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142	BOLT FULL THREAD GI M8X30	1500	Nos
143	GI NUT M8	1500	Nos
144	GI PLATE WASHER M8 (SHORT OUTER DIA)	3000	Nos
145	GI SERRATED WASHER M8	1500	Nos
146	cable gland reducer M25x1.5 to PG 13.5mm	25	EA
147	Dummy Cable gland PG M25x1.5	25	EA
148	Cable gland PG M20x1.5	50	EA
149	Dummy cable gland PG M20x1.5	15	EA
150	Cable gland reducer M40x1.5 to PG 16mm	25	EA
151	Dummy cable gland PG M40x1.5	10	EA
152	SS316 PVC coated band 16mm width 20m/roll	30	Nos
153	buckle for 16mm SS strap	750	Nos
154	PVC cale tie black 300mmx7.5mm	10	PACK
155	SS Dummy cable gland PG 11	25	EA
156	SS Dummy cable gland PG 13.5	25	EA
157	SS Dummy cable gland PG 16	25	EA
158	SS Dummy cable gland PG 21	10	EA
159	SS Dummy cable gland PG 29	10	EA
160	SS Dummy cable gland PG 36	10	EA
161	INSULATED TWIN CORD-END TERMINAL LUG, TINNED COPPER,2X0.75SQMM	500	EA
162	INSULATED TWIN CORD-END TERMINAL LUG, TINNED COPPER,2X1SQMM	500	EA
163	INSULATED TWIN CORD-END TERMINAL LUG, TINNED COPPER,2X1.5SQMM	500	EA
164	INSULATED TWIN CORD-END TERMINAL LUG, TINNED COPPER,2X2.5SQMM	500	EA
165	CABLE CRIMPING LUG 0.75 SQMM TUBLER TYPE	1000	EA
166	CABLE CRIMPING LUG 1.5 SQMM TUBLER TYPE	2000	EA
167	GREEN & YELLOW PVC EARTH SLEEV 4MM	300	MTRS





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168	GREEN & YELLOW PVC EARTH SLEEV 6MM	300	MTRS
169	M20 PVC GLAND	50	EA
170	M25 PVC GLAND	50	EA
171	M16 PVC GLAND	100	EA
172	PVC INSULATED TAPE (R,Y,B,G,BL)EACH	20	EA

**Notes**

1. All quantities mentioned are indicative only and are provided solely for the purpose of a rough estimate. For accurate and detailed work quantities, subcontractors are requested to visit Udupi Cochin Shipyard, Malpe, and assess the scope directly at the ongoing project site.



**POWER OF ATTORNEY**

*(On Applicant's letter head)*

(Date and Reference)

To  
The Assistant General Manager (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/SB/T/191-192/205/2026 DT: 04.05.2026

**UCSL/CC/SB/T/191-192/205/2026**

**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/SB/T/191-192/205/2026 DT: 04.05.2026

**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 & Conditions and Scope of Work shall be governed by the Quantum of Work, including the use of consumables, as detailed in Annexure-I, II, and III (A & B).	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:



**UNCONDITIONAL ACCEPTANCE LETTER**

**(Unconditional acceptance to be given by in letter head)**

**ACCEPTANCE OF TENDER CONDITIONS**

1. Tender Document no. UCSSL/CC/SB/T/191-192/205/2026 dated 04<sup>th</sup> May 2026 Tender for Electrical Outfitting, Cable Laying, Termination & Commissioning of Electrical Systems of 70Ton Bollard Pull ASD-Tug has been received by me/us and I/We hereby unconditionally accept the tender conditions of tender documents in its entirety for the above work.
2. It is further noted that it is not permissible to put any remarks/conditions in the tender enclosed in "Part-2 (price bid)". I/We agree that the tender shall be rejected and ACCEPTING AUTHORITY.

Yours faithfully,

(Signature of the tenderer) with rubber stamp

Date: .....

