

TENDER No.: UCSSL/CC/T/TUG/325 Dt 08th February 2025

TENDER FOR ULTRASONIC AND RADIOGRAPHY TEST (NDT)



UDUPI COCHIN SHIPYARD LIMITED

UDUPI COCHIN SHIPYARD LIMITED
MALPE, UDUPI 576108





Udipi Cochin Shipyard Limited
TENDER FOR ULTRASONIC AND RADIOGRAPHY TEST (NDT)
UCSL/CC/T/TUG/325 Dt. 08th February 2025

TENDER NOTICE

Tender No. & date	UCSL/CC/T/TUG/325 Dt. 08 th February 2025
Name of work	TENDER FOR ULTRASONIC AND RADIOGRAPHY TEST (NDT)
Last date & time of receipt of tender	20 th February 2025 (Thursday), 15:30 Hrs.
Date & time of opening of Technical Bid (Part-I)	20 th February 2025 (Thursday), 15:30 Hrs.

1. Password protected quotations in the prescribed form 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 and 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 and 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 3 above
Part II: Price Bid.
- ii. The files are to be forwarded as **Two (2) separate password protected Zip files** to contractcell@udupicsl.com/ vineeshpillai@udupicsl.com
- iii. **Part I and Part II are to be protected with separate and distinctly different passwords.**
- 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.





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- 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. However, subject to travel restrictions, the bidders can also attend the bid opening physically at Udupi Cochin Shipyard Limited, Baputhotta Ware house complex office.
 - 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/sarunbabu.eb@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 (Materials & 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 Shipyard Limited reserves the right to reject the tender received without assigning any reason.
 7. Contact Person: Mr. Sarun Babu E.B (08592048487)

Assistant General Manager (Material & Contract Cell)

सरुन बाबू ई बि
SARUN BABU E B
सहायक प्रबंधक/ASSISTANT MANAGER
उडुपि कोचीन शिपयार्ड लिमिटेड
UDUPI COCHIN SHIPYARD LIMITED
माल्पे, कर्नाटक/MALPE, KARNATAKA-576 108

Encl:

- | | |
|------------------------------------|----------------|
| 1. Terms & Conditions | - Annexure I |
| 2. Scope of Work | - Annexure II |
| 3. Indicative Quantum of items | - Annexure III |
| 4. Power of Attorney | - Annexure IV |
| 5. Price Bid | - Annexure V |
| 6. Techno-Commercial check List | - Annexure VI |
| 7. Unconditional Acceptance Letter | - Annexure VII |





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TERMS AND CONDITIONS

TENDER FOR ULTRASONIC AND RADIOGRAPHY TEST (NDT)

1. DESCRIPTION OF WORK

- 1.1. This tender enquiry pertains to the awarding of sub contract work to conduct Radiography and ultrasonic test/inspection on Welded Structure of 70Ton bollard pull ASD-Tug Vessel (UY-171 to UY-174) to be built at Udupi Cochin Shipyard Limited (UCSL), Hangarkatte/Malpe, Karnataka.
- 1.2. Carrying out radiography and ultrasonic testing of welded joints of steel hull and its interpretation as per API code and technical analysis to ensure proper work as per API specification.
- 1.3. You are requested to obtain clarifications, if any, and carefully study the documents and the scope of services and UCSL, before submitting your offer.

2. SCOPE OF WORK

- 2.1. Refer Annexure II and Annexure III for detailed scope of work.
- 2.2. This is a turnkey job and any additional works up to 10% growth of work on scope of work to be envisaged and is to be undertaken without any additional price impact.

3. METHOD OF AWARDING CONTRACT

- 3.1. Contract will be concluded with Bidder qualifying technically, agreeing to Techno-Commercial conditions (Annexure VI) and emerging as L1 based on Annexure - V.
- 3.2. The bidder shall submit the prices at the Annexure - V and the same rates shall be applied for L1 determination.
- 3.3. In case of the contractor fails to perform at any stage of the project, the yard reserves the right to award the scope of work to next in line bidder, who is willing to match the L1 rate and execute the scope of job.
- 3.4. UCSL reserves the right to cancel the tender if required.

4. QUALIFICATION CRITERIA FOR BIDDERS

- 4.1. The contractor shall have experience in carrying out radiography & ultrasonic testing works of minimum three years in reputed Industries or other yards/projects using Gama/X-rays. Necessary documents in support of the same shall be submitted along with the offer.
- 4.2. The Contractor shall be in possession of two X-Ray equipment.
- 4.3. The contractor must hold valid License for his X-ray generator issued by AERB and the equipment shall be operated by certified Radiographer approved by AERB. Documentary evidences in support of the same including license for possession and operation for X-ray equipment for industrial radiography issued by AERB





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- 4.4. The Contractor shall have experience in carrying out Ultrasonic testing work for at least six months in a reputed company. Necessary documents in support of the same shall be submitted along with the Offer.
- 4.5. The person certified to NDT level II as per SNT-TC-1A or ISO 9712 or equivalent and conversant in communication in English having minimum one year experience on such testing shall carry out and he has to be approved by at least one Classification societies among IRS, ABS, LRS, BV & DNV GL before carrying out actual job. Copy of competency certificate (Level II) shall be submitted along with the offer.
- 4.6. The contractor shall have sufficient number of equipment/technicians so that the work in UCSL shall not be stopped during breakdown of the equipment/absence of technician.
- 4.7. The ultrasonic shall be carried out in lieu of radiography testing and documentary evidence for the same shall be submitted along with offer.
- 4.8. The Bidders should have their registered office & testing facility within 100Km radius from UCSL, Malpe for easy co-ordination and execution of the work in short notice.
- 4.9. The firm should be ISO17025-05, NABL approved metallurgical test laboratory.
- 4.10. All tests must be performed by an ASNT Level II operator, a document on the operator competence and his currency must be produced by the contracted firm each time the service is sought by the department.

5. SCHEDULE

- 5.1. UCSL will intimate the date and time of inspection within three days in advance for performing/conducting the test as required.
- 5.2. Bidder should also be in a position to undertake the inspection on immediate basis, if required or as per UCSL directions.
- 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.

6. INSPECTION

- 6.1. Contractor to maintain the required quality standards
- 6.2. All correspondence with UCSL to be in English language. All documents and plans to be in English language and in metric units.
- 6.3. All retest specimens are to meet all of the specified requirements.
- 6.4. NDT must be performed by an ASNT Level II operator, a document on the operator competence and his currency must be produced by the contracted firm each time the service is sought by the department of UCSL.
- 6.5. All the operations must be supervised by a qualified supervisor having wide experience dealing with NDT methods, a document must be produced to this effect.





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7. VALIDITY

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

8. RATE

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

9. PAYMENT TERMS

9.1. 100% Payment will be made for the actual quantum of work done on actuals.

9.2. Payment shall be released within 30 days from date of submission of bill and work completion certificate from the executing UCSL officer-in-charge.

9.3. Invoice shall be submitted with necessary Work completion certificate duly certified by UCSL representative.

9.4. 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.

10. TAXES & DUTIES

10.1. 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).

11. LIQUIDATED DAMAGES

11.1. 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.

11.2. 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.

11.3. 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.

11.4. 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.





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12. POWER OF ATTORNEY

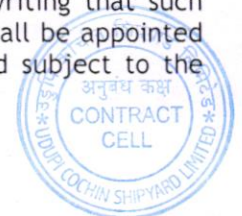
- 12.1. The tenderer(s) shall have to sign in each page of the tender documents with official stamp as a token of his acceptance of the conditions stated therein.
- 12.2. The person signing the tender form on behalf of another or on behalf of a firm, shall enclose to the tender, a Power of Attorney or 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.

13. TERMINATION & LIMITATION OF LIABILITY

- 13.1. This contract may be terminated upon the occurrence of any of the following events
- 13.2. By agreement in writing of the parties hereto;
- 13.3. 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;
- 13.4. 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.
- 13.5. For fraud and corruption or other unacceptable practices.
- 13.6. 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.
- 13.7. UCSL may by notice in writing to Contractor 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.
- 13.8. Liability maximum that can be claimed by the Contractor 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.

14. ARBITRATION & JURISDICTION

- 14.1. 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.
- 14.2. 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





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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.

- 14.3. Seat & Venue of Arbitration: The seat & venue of arbitration shall be at Bangalore.
- 14.4. Language of Arbitration: The Language of arbitration shall be English.
- 14.5. Governing Law: The contract shall be governed by Indian Law
- 14.6. In case of disputes, the same will be subjected to the jurisdiction of courts at Bangalore, Karnataka.

15. SUB CONTRACTING AND ASSIGNMENT

- 15.1. 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.
- 15.2. 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.

16. SECRECY & RESTRICTION ON INFORMATION TO MEDIA

- 16.1. The information contained in the enquiry as such shall NOT be communicated to any third party without prior approval of UCSL.
- 16.2. 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

17. CANCELLATION OF ORDER AND RISK CONTRACTING

- 17.1. In the event the Contractors 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 Contractor'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.
- 17.2. UCSL also reserves to right to impose penalties ranging from Rs. 100 to Rs.500 to the employees of contractors 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.





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18. FORCE MAJEURE

18.1. 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.

19. SAFETY OF PERSONNEL AND FIRST AID

- 19.1. 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.
- 19.2. The Contractor 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 Contractor's workmen/other personnel during execution of the works due to whatsoever reasons.
- 19.3. In this regard, the Contractor will have to fully indemnify UCSL against any claims made by his workmen/other personnel
- 19.4. The Contractor 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.

20. IMS GUIDELINES

- 20.1. 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.
- Meeting or exceeding customer requirements.
 - Assuring quality of the products and service.
 - Preventing occupational ill health & injuries.
 - Ensuring safe work sites.
 - Conserving natural resources.
 - Preventing / minimizing air, water & land pollution.
 - Handling and disposal of Hazardous wastes safely.
 - Complying with statutory & regulatory and other requirements.
 - Developing skills and motivating employees.
- 20.2. Occupational Health, safety & Environmental requirements of UCSL shall also include the following.
- 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.





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- 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 Kerala.
- 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.

21. LABOUR LAWS AND REGULATIONS

- 21.1. The Contractor 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.
- 21.2. The Contractor 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 Contractor shall inform UCSL his license number from the Central Labour Commissioner.
- 21.3. 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.





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- 21.4. The Contractor 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.
- 21.5. The Contractor 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.
- 21.6. If the Contractor 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.
- 21.7. Any other amount payable under any law or in respect of any person employed by the Contractor, if not paid by him, shall be deducted or adjusted by UCSL out of any amount payable to the Contractor including any Security Receipt and paid ever or withheld for payment by UCSL.
- 21.8. The Contractor 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 Contractor shall take appropriate action against such workmen. The Contractor shall abide by the instructions/ guidelines issued by the Company for maintenance of discipline and good conduct among the workmen employed by him.
- 21.9. All persons who are engaged for various works in UCSL either directly or through Contractor, should produce the following documents prior to issuing their entry passes:
- 21.10. 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.)
- 21.11. 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.
- 21.12. Contractor shall familiarize themselves with the labour rules & regulations.

22. OVERWRITING & CORRECTIONS

- 22.1. 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

23. OTHER TERMS & CONDITIONS

- 23.1. Quality of services shall conform to the specification/ standards laid down by UCSL.
- 23.2. UCSL reserves the right to accept / reject any offer.
- 23.3. 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.





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- 23.4. 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.
- 23.5. Compliance of all statutory safety requirements and other safety rules stipulated by UCSL and other applicable statutory bodies shall be the responsibility of the Contractor while working at UCSL premises. The Contractor should ensure that their workmen and staff are adequately covered under Insurance.
- 23.6. Damages caused to the Shipyard properties/tools/accessories should be rectified by the Contractor at his cost or proportional recoveries will be made from the Contractor while passing their bills for payment.
- 23.7. 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.
- 23.8. 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.
- 23.9. The service provider shall also be governed by the General Conditions of Contract of UCSL, General Safety Rules and other relevant labour laws.
- 23.10. The upper age limit of all workers and supervisors employed by the Contractor and those Contractor 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.
- 23.11. Assistant General Manager, or his authorized representative will be the Officer-in-charge of these contracts.





SCOPE OF WORK

TENDER FOR ULTRASONIC AND RADIOGRAPHY TEST (NDT)

1. SCOPE OF CONTRACTOR:

- 1.1. The scope has been determined on the basis of carrying NDT for ship welding joints.
- 1.2. This work pertains to Ultrasonic testing and radiography testing of weld joints of ships, structures under construction in Udupi Cochin Shipyard Limited (hereinafter referred to as Udupi CSL) and any other jobs offered by Udupi CSL which require radiography test using Gama-Rays. Nondestructive testing (RT, gamma rays)- to be done for SMAW process and in accordance with ISO5817-2014 level B.
- 1.3. Scope of work includes cleaning the area, arranging sufficient lighting, checking the scaffoldings and ladders, arranging Blinking lights, Warning boards and Safety barriers/Reflective Tapes, obtaining permit from execution department & safety department, execution of radiography on site, processing of films, evaluation and submission of report along with processed films in the next day as detailed in the following sections.
- 1.4. The contractor shall be responsible to Udupi CSL for the following: -

ULTRASONIC TESTING

- a. Planning and Execution of Ultrasonic testing as per Udupi CSL requirement.
- b. Arranging required equipment's, tools and tackles for the satisfactory completion of work.
- c. Cleaning of the weld area
- d. Execution of Ultrasonic Testing on weld joints of structures including Hull blocks & ships on site and any other jobs offered by Udupi Cochin Shipyard Ltd. (UCSL) using Phased array method.
- e. Interpretation of findings and Checking for the safe scaffoldings and ladders.
- f. Submission of detailed report in the next working day in tune with the scope of work detailed.
- g. The contractor shall submit valid calibration certificates for the equipment's. All copper pipes should be brazed.
- h. The testing or scanning will have to be done in the presence of Udupi CSL quality control representative/ Classification Surveyor, as the case may be to their entire satisfaction
- i. The test results shall be interpreted and signed by the competent person holding Level II certificate. The test report shall be presented to the surveyor for their review. The Contractor is to provide assistance for presenting to Classification society.
- j. The defective areas, if any, shall be marked on the job for repair immediately.

