

TENDER No.: UCSSL/CC/T/W/011 Dt 16<sup>th</sup> January 2024

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TENDER FOR HULL OUTFIT STRUCTURAL WORKS ON 3800 DWT  
GENERAL CARGO VESSEL

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UDUPI COCHIN SHIPYARD LIMITED

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



Udupi Cochin Shipyard Limited  
Tender For Hull Outfit Structural Works On 3800 DWT General Cargo Vessel  
UCSL/CC/T/W/011 Dt 16th January 2023

## TENDER NOTICE

Tender No. & date	UCSL/CC/T/W/011 Dt 16th January 2024
Name of work	Tender For Hull Outfit Structural Works On 3800 DWT General Cargo Vessel
Last date & time of receipt of tender	20th January 2024 (Saturday), 15:30 Hrs.
Date & time of opening of Technical Bid (Part-I)	20th January 2024 (Saturday), 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](mailto:contractcell@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](mailto:contractcell@udupicsl.com) An acknowledgement mail shall be sent to the bidders on receipt of bids. UCSL takes no responsibility for delay, loss or non-receipt of tenders by mail by the stipulated time.
5. The tender should be addressed to the **Assistant General Manager (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 and the authority reserves the right to reject the tender received without assigning any reason.
7. Contact Person: Mr. Vineesh V Pillai (Mob: 8939751165)/ Mr. Sarun Babu E.B (08592048487)

Assistant General Manager (Material & Contract Cell)

सोणि क्लेमेन्ट टी एम  
SONY CLEMENT T M

सहायक महाप्रबंधक / ASSISTANT GENERAL MANAGER  
उडुपि कोचीन शिपयार्ड लिमिटेड  
UDUPI COCHIN SHIPYARD LIMITED  
माल्पे, कर्नाटक / MALPE, KARNATAKA-576 108

**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 HULL OUTFIT STRUCTURAL WORKS ON 3800 DWT GENERAL CARGO VESSEL

#### 1. DESCRIPTION OF WORK

- 1.1. This tender enquiry pertains to the awarding of contract for hull outfit structural works of 06 numbers of 3800 DWT General Cargo Vessel to be built at **Udupi Cochin Shipyard Limited (UCSL)**, Hangarkatta/Malpe, Karnataka.
- 1.2. Hull Outfit structure work includes fabrication, positioning, welding and erection, including all hot work and dry survey necessary to satisfactorily complete the work in accordance with UCSL, Classification Society and Owner's requirements
- 1.3. The work includes outfitting work (fabrication, positioning and welding of outfitting items), the major work section is specified as follows
- Fabrication
  - Welding and fitting on place
  - Cutting and bending of required item
  - Dry Survey by the yard, class and owner
  - Rectification of defects till delivery of vessel.
- 1.4. 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 and drawings, delivery schedule and UCSL - General Terms and conditions in all respects
- 1.5. Consumables
- Gases (DA, Oxygen, CO2) will be provided free of cost by UCSL
  - Welding consumables: All welding consumables shall be provided by UCSL on chargeable basis. For bidding of the project, the following rates may be considered which shall be charged to the contractor.

<u>Welding Electrodes</u>	<u>Rate</u>
Flux Cored GMA (CO2) welding wire 1.2mm	Rs 225 Per kg
Welding electrode: E 6013: 2.5 mm	Rs 254 Per kg
Welding electrode: E 6013: 3.15 mm	Rs 184 Per kg
Welding electrode: E 6013: 4 mm	Rs 154 Per kg
Welding electrode: E 7018: 3.15 mm	Rs 148 Per kg
Welding electrode: E 7018: 4 mm	Rs 175 Per kg

- 1.6. The work is to be carried out at the skid area allotted to the contractor (s) inside UCSL premises
- 1.7. You are requested to obtain clarifications, if any, and carefully study the documents and the scope of services and UCSL, before submitting your offer.



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- 1.8. The Contractors are advised to familiarize themselves with the site conditions before quoting.

## **2. SCOPE OF WORK**

- 2.1. Hull Outfit structure work includes fabrication, positioning, welding and erection, including all 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. Structural outfit is not in the scope of contractor.
- 2.3. This is a turnkey job and any additional works up to 10% growth of work on the Hull to be envisaged and is to be undertaken without any additional price impact.

## **3. METHOD OF AWARDED CONTRACT**

- 3.1. Contract will be concluded with Bidder qualifying technically, agreeing to Techno-Commercial conditions (Annexure VII) and emerging as L1 based on Annexure - VI.
- 3.2. The bidder shall submit the prices at the Annexure - VI and the same rates shall be applied to the for L1 determination.
- 3.3. Yard intends to award the total scope of work for 06 ship, out of which 02 ship is confirmed and remaining 04 ship as option.
- 3.4. The order of 6 ship would be split between three bidders, UCSL intends to place the scope of work for two ships set on each bidders subjected to matching the L1 rate.
- 3.5. UCSL reserves the right to award work order on three different contractors for two vessel per bidder. The L1 bidder will be awarded with the scope of work of two vessel each as confirmed and the L2 bidder will be called for negotiation to meet the L1 bidder's rate to award work order for next two vessels. 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. The same methodology will be adopted for the awarding of remaining two vessels to the third bidder subjected to matching L1 rate.
- 3.6. If L2/L3/L4/L5 etc. are not willing to match with L1 bidder's rate, hence work order for remaining Four (4) vessel will be placed on L1 bidder based on their performance on the already awarded two (2) vessels and this decision to award balance four (4) vessel will be sole discretion of UCSL.
- 3.7. In case of the contractor fails to perform at any stage of the project, the yard reserves the right to delink the individual ship scope of work and will award the same to alternate contractor. In such cases, the value shall be determined based on Annexure-V which shall be deduction from the total contract value for payments.



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- 3.8. The contractor shall indicate the fabrication lead time as per the requirement of Annexure-III. However, the schedule as issued by the yard shall be final and binding which shall be reasonable and in line with the overall project schedule.
- 3.9. UCSL reserves the right to cancel the tender if required.

#### 4. COMMON REQUIREMENTS

- 4.1. 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 BV by UCSL. The subcontractor has to pay for the welder qualification, testing and certification charges to UCSL on actuals. The contractor has to retain the qualified welders till the completion of the project.
- 4.2. 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.
- 4.3. 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. QUALIFICATION CRITERIA FOR BIDDERS

- 5.1. The Bidder shall be a single firm having experience in Hull fabrication, welding and erection, including all hot work and dry survey necessary to satisfactorily complete the Hull Outfitting work in ships or floating marine structures for the last three years.
- 5.2. The bidders shall have minimum 2 years of experience in handling hull outfitting Fabrication, Installation, welding and erection and should submit the document as evidence.
- 5.3. The technical experience means "the experience of successfully completed similar works (as per clause 5.1, 5.2 above) for period of 2 years. In the case of ongoing works, work progress report from the authorized officer of the work order issued firm shall be submitted for considering UCSL requirement.
- 5.4. The bidder should have qualified welders having relevant WPS approved by classification societies.
- 5.5. The contractor must have a site-in charge/ supervisor to execute work, with a minimum experience of 3 yrs. in Hull Outfitting field.
- 5.6. The project shall comprise of complete work having comparable nature to that of fabrication, Installation, Testing and commissioning of Hull Outfitting Systems on floating marine structures. If the experience claimed by the bidder is of no relevance with respect to fabrication, Installation, Testing and commissioning of Hull Outfitting Systems, then such experience will not be considered for pre-qualification. Decision taken by UCSL in this regard will be final.



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- 5.7. The Bidder should furnish the required work-specific information and satisfactory documentary evidence such as copy of work order / agreement and a certificate from the employer for satisfactory completion of work or any other relevant document indicating completion of work shall be submitted to UCSL in support of its claim of experience.
- 5.8. 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. SCHEDULE OF COMPLETION

- 6.1. UCSL shall indicate the master construction schedule of completion of the work of vessel. 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.
- 6.2. 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.
- 6.3. 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.

## 7. INSPECTION

- 7.1. The vessel shall be built under the classification of BV 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 correspondence with the Shipyard to be in English language. All documents and plans to be in English language and in metric units.

## 8. VALIDITY

- 8.1. The offer shall be valid for a period of 02 year 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.



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## 10. PAYMENT TERMS

10.1. Payment will be made as 6 stages:

**Stage -1 40% of total contract value.**

On completion 50% of Structural outfit fabrication, erection and dry survey of each item to satisfactorily completion work in accordance with UCSL, Classification society and owners' requirements.

**Stage -2 40% of total contract value.**

On completion of balance 50% of Structural outfit fabrication, erection and dry survey of each item to satisfactorily complete work in accordance with UCSL, Classification society and owners' requirements.

**Stage -3 20% of total contract value.**

On successful completion of sea trail.

10.2. Payment shall be made on the basis of certification by UCSL Quality Control Representative for quality and quantity of work on actuals.

10.3. The payment shall be made within 30days 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 Contractor. The name of the bank, branch, A/C No., IFSC code & other particulars shall be furnished by the Contractor in the proforma of UCSL.

## 11. TAXES & DUTIES

11.1. GST shall be applicable extra on the prescribed work. You are requested to furnish the following details in the invoice/Bill.

- Applicable rate of GST/SAC Code
- Firms GST Reg. NO.
- Service accounting code (SAC) as prescribed by statutory authorities.
- GST Reg. No. of Udupi Cochin Shipyard Limited(29AAACT1281B1ZO).

## 12. PERIOD OF CONTRACT & COMMENCEMENT OF SERVICES

12.1. Period of contract will be two years from the date of work order. The rates quoted and all other terms and conditions will remain unchanged for the entire period and also for the extended period (if extended).

## 13. SECURITY DEPOSIT

13.1. The successful tenderer 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



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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.

#### **14. PERFORMANCE GUARANTEE**

- 14.1. The complete work carried out by the contractor shall be guaranteed against defective on poor workmanship for a period of six 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.
- 14.2. 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.
- 14.3. 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 10 will be retained till the expiry of guarantee period.

#### **15. LIQUIDATED DAMAGES**

- 15.1. 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.
- 15.2. 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.
- 15.3. 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.
- 15.4. 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.

#### **16. POWER OF ATTORNEY**

- 16.1. 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.



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- 16.2. 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.

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

- 17.1. This contract may be terminated upon the occurrence of any of the following events
- 17.2. By agreement in writing of the parties hereto;
- 17.3. 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;
- 17.4. 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.
- 17.5. For fraud and corruption or other unacceptable practices.
- 17.6. 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.
- 17.7. 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.
- 17.8. 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.

#### **18. ARBITRATION & JURISDICTION**

- 18.1. 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.
- 18.2. 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



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settled mutually or the settlement of which is not herein specifically provided for, then the dispute shall within thirty days from the date either party informs the other in writing that such disputes, disagreement exists, be referred to arbitration. The arbitrators shall be appointed and the arbitration proceedings shall be conducted in accordance with and subject to the Arbitration and Conciliation Act, 1996 (No. 26 of 1996) as amended from time to time and the decision of the Arbitrators shall be final and binding on the parties hereto. The arbitration will be done by a Board comprising one arbitrator nominated by each party, and a mutually agreed Umpire. Each party shall bear its own cost of preparing and presenting its case. The cost of arbitration shall be shared equally by the parties unless the award provides otherwise. Performance under this Contract shall however, continue during arbitration proceedings and no payment due or payable by the parties hereto shall be withheld unless any such payment is or forms a part of the subject matter of arbitration proceedings.

18.3. Seat & Venue of Arbitration: The seat & venue of arbitration shall be at Bangalore.

18.4. Language of Arbitration: The Language of arbitration shall be English.

18.5. Governing Law: The contract shall be governed by Indian Law

18.6. In case of disputes, the same will be subjected to the jurisdiction of courts at Bangalore, Karnataka.

## **19. SUB CONTRACTING AND ASSIGNMENT**

19.1. 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.

19.2. 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.

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

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

20.2. 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.

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

21.1. 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



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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.

- 21.2. 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.

## **22. FORCE MAJEURE**

- 22.1. 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.

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

- 23.1. 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.
- 23.2. 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.
- 23.3. In this regard, the Contractor will have to fully indemnify UCSL against any claims made by his workmen/other personnel
- 23.4. 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.

## **24. IMS GUIDELINES**

- 24.1. 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.



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- g) Handling and disposal of Hazardous wastes safely.
- h) Complying with statutory & regulatory and other requirements.
- i) Developing skills and motivating employees.

24.2. 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 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.

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

- 25.1. 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.



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- 25.2. 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.
- 25.3. All Persons, except those exempted under the respective Acts, shall necessarily be insured under the ESI scheme and be made members of the EPF Scheme from the day of their engagement as personnel in the Company. In Case 1, All such insured Persons should carry with them their ESI Identity Card for verification by the authorities. No Persons without a valid ESI Identity Card for verification by the authorities will be permitted to work in the company.
- 25.4. The 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.
- 25.5. 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.
- 25.6. 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.
- 25.7. 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.
- 25.8. 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.
- 25.9. 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:
- 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



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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. Contractor shall familiarize themselves with the labour rules & regulations.

## **26. OVERWRITING & CORRECTIONS**

26.1. 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

## **27. OTHER TERMS & CONDITIONS**

27.1. Quality of services shall conform to the specification/ standards laid down by UCSL.

27.2. UCSL reserves the right to accept / reject any offer.

27.3. 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.

27.4. 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.

27.5. 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.

27.6. 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.

27.7. 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.

27.8. 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.

27.9. The service provider shall also be governed by the General Conditions of Contract of UCSL, General Safety Rules and other relevant labour laws.



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- 27.10. 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.
- 27.11. Assistant General Manager, or his authorized representative will be the Officer-in-charge of these contracts.



## SCOPE OF WORK

### TENDER FOR HULL OUTFIT STRUCTURAL WORKS ON 3800 DWT GENERAL CARGO VESSEL

#### 1. SCOPE OF CONTRACTOR:

- 1.1. Hull Outfit fabrication, positioning, welding and erection, including all hot work and dry survey necessary to satisfactorily complete the work in accordance with UCSL, Classification Society and Owner's requirements.
- 1.2. The Contractor shall execute the work as per the specifications / drawings issued and to the satisfaction of UCSL.
- 1.3. Outfitting items which needs to fabricate and installed have been listed in Annexure III of the Specification along with scope of material.
- 1.4. Any machining requirement as per the drawing has to be undertaken by the firm at own cost. However, the required material will be provided by UCSL.
- 1.5. Contractor shall maintain quality as per UCSL quality standards and yard quality procedures. UCSL will conduct inspection during fabrication.
- 1.6. Any revisions/ modifications / additions etc required shall also be carried out by the supplier as per UCSL issued drawings. Material for such revisions/ modifications/ additions shall be arranged by UCSL.
- 1.7. All production aid material, like strong backs, clamps, wedges, etc., incidental to the production jobs has to be prepared by the firm with material supplied by UCSL.
- 1.8. The fitment of lifting lugs is to be done as per the lifting plan drawing issued by UCSL, and the required cut plate as per the lifting plan drawing will be supplied by UCSL. The lifting of the block is to be done as per UCSL procedure and verified by UCSL QC.
- 1.9. All additional stiffening materials like angles, flat bars, T-sections, etc., if required in connection with outfitting fabrication, are also to be prepared and to be fitted by the firm in connection with block fabrication. Necessary material will be provided by UCSL.
- 1.10. All tests, including NDT and radiography tests, will be undertaken by UCSL as per the NDT plan. Rectification, if any, is to be undertaken by the firm at his own expense. Additional expenses incurred by UCSL in connection with RT failures will be deducted as per the prevailing rate from the final bill for every RT failure. If any further increase in RT rate, same will be applied.
- 1.11. Dry penetration test kits (Cleaner, Penetrant & Developer) shall be arranged by the UCSL for carrying the DP test as applicable on weld seams.
- 1.12. Any other miscellaneous items (outfit and hull) as per drawing not included in the scope and is required for the completion of outfitting work shall be under the scope of supplier.



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- 1.13. Any rectification works which arise due to inspection checks by UCSL QC or during class survey are also part of the scope of work of the supplier and are to be under taken by the supplier.
- 1.14. Consumables required for fabrication and erection such as grinding wheel, cutting wheel, cutting nozzle, etc is in the contractor's scope
- 1.15. Welding machines for the process involved for fabrication and erection works at site, such as (SMAW, FCAW, SAW & TIG) shall be arranged by the contractor.
- 1.16. The contractor must also have sufficient no of mother ovens and portable oven for baking electrodes as per requirements.
- 1.17. Mobilization of all required labor (Skilled/Semi-Skilled/Unskilled) for hull construction & erection works as per specifications and drawings provided by UCSL. UCSL will provide Quality Assurance Plan (QAP) and applicable Welding Procedure Specification (WPS)
- 1.18. The transportation of the fabricated item from Fabrication location to Erection site will be to yard's scope. The contractor shall give necessary assistance for handling / movement if any. Any assistance for securing of the fabricated item is in contractor's scope.
- 1.19. Ensuring good housekeeping practices to keep the workplace clean and tidy.
- 1.20. Pressure testing requirement for the scope of items indicated to be executed by the firm. The required equipments for testing to be arranged by the firm at own cost.
- 1.21. Carry out Vacuum test for all drain plugs to meet class requirements.
- 1.22. Hose testing wherever applicable shall be carried out in according with Classification Society requirements.
- 1.23. Necessary surface preparation and cleaning to be done by supplier at own cost.

**The scope of the contractor also includes:**

- 1.1. Collection, Transportation/unloading of materials / other equipment's from UCSL shops/store to contractor's site/skid in UCSL premises.
- 1.2. Arrangement of required tools and tackles like steel rules, punches, hammers, warpage removing jacks, bottle screws, grinders, hydraulic jacks etc. Cutting tools, gas cutting sets and hoses, welders flux chippers, painting brush, wire brush etc. The required Welding sets including arc (SMAW) welding machine, Co2 (FCAW, Sub-merged arc welding (SAW)) welding sets, all these types of welding machines are required at site for carrying out fabrication & erection works, including the arc gouging process (SMAW) suitable machine need to be arranged (Ranging from 600Amps to 8000 Amps), air arc gouging sets, welding cables, gas heaters and regulators, welding holders, baking ovens (including mother & portable ovens) etc. are required for fabrication & erection.
- 1.3. Outfit fabrication and erection works are to be carried out at Hangarkatta and Malpe Yard of UCSL.



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- 1.4. Arrange local material handling facilities like pulley blocks, cylinder handling mainly trolleys required for (Co2, O2 & DA), tripods etc.
- 1.5. The structural materials required for fabrication of skid (ISMB, ISMC, etc.) will be arranged by UCSL on Free of cost. Prefabricated skid shall be provided by UCSL. But the levelling and final preparation of skid shall be to the contractor's scope.
- 1.6. Welding shall be done by qualified welders for respective WPS and the welders shall carry / submit the welder's certificate to Quality control department for records. The contractors shall requalify the welders if so, felt necessary or as mandated by the class. The fee as applicable for recertification of welder shall be to contractor's scope.
- 1.7. The contractor shall ensure that the necessary manpower for successful completion of the work. Qualified fabrication and erection supervisors, Fabricators, Fitters, Markers, Welders, Helpers and cleaners. The Supervisor for the contractor shall be qualified with sufficient experience in Fabrication and erection and should be able to handle the team single handedly based on the drawings supplied by UCSL. At least One (1) HSE representative is also to be arranged by the subcontractor at his work site who shall report to the HSE in charge of yard and shall ensure that the HSE requirements are complied.
- 1.8. The contractor shall provide their employees with all Personal Protective Equipment (PPE) such as safety helmets, gloves, welding shields, goggles, leg guards, safety belts, safety harness, safety aprons and safety shoes and shall ensure safety of personnel at the site at all times.
- 1.9. HSE representative shall conduct weekly quality and safety patrols with UCSL officer and terminate observations within 7 days if any are found.
- 1.10. 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.
- 1.11. The Contractor shall execute the work in accordance with the specifications / drawings issued and to the satisfaction of UCSL.
- 1.12. Contractor shall maintain quality as per UCSL quality standards and yard quality procedures. UCSL will conduct inspection during fabrication/erection.

## 2. SCOPE OF UCSL:

1. UCSL will provide necessary work instructions, technical specifications and applicable drawings etc. for the work.
2. Materials for fabrication will be UCSL scope.
3. Quality assurance plan (QAP) and available welding procedure specification (WPS) shall be provided. QAP & WPS are UCSL property & contractor should not use this for any other purpose.
4. Required crange (Hydra/For lift/Crawler Crane, etc.) for fabrication and erection, shall be arranged by UCSL at free of cost.



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5. Welder qualification shall be carried out by UCSL in presence of competent authority for acceptance and performing on the job works. (The welder test will be conducted on chargeable basis)
6. Supply of electricity, water, cutting gas, Co2, and compressed air at free of cost
7. Supply of welding consumables on chargeable basis.

### **3. ADDITIONAL WORKS**

- 3.1. This is a turnkey job and any additional works up to 10% growth of work in terms of total weight / indicative total number of units is to be envisaged and is to be undertaken without any additional price impact.
- 3.2. Any minor modifications, resulting from the change in statutory regulations prevailing at the time of final inspection of work by Classification Society, to be carried out by the Contractor free of cost. In case of rework/modification/additional work, written consent is to be obtained from the Officer-in-charge before commencement of the work.
- 3.3. At any time, contractor should be available/presence with a minimum of 20 manpower on site.
- 3.4. Contractor shall carry out the complete work in accordance with Shipyard's approved drawings. Any minor modifications from drawing or any other work or supply of material, which is not specified hereunder, but is considered incidental and essential for the successful completion of the job shall be carried out by the Contractor without any additional charge.
- 3.5. Contractor shall execute, during or after completion of the work, any minor job connected with the work, that is considered necessary by Shipyard and/or Classification Society
- 3.6. The contractor shall be responsible for any damage 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.

### **4. INSPECTION**

- 4.1. The complete work has to be carried out under the survey of UCSL Quality Control Dept.
- 4.2. Contractor to maintain the required dimensional accuracy and surface finish as per quality standards (to be provided by UCSL).
- 4.3. All welding works shall be carried out by approved and qualified welders only.
- 4.4. All welding machines are to be calibrated.
- 4.5. All test and Inspections shall be carried out as per approved Quality Plan.
- 4.6. All test including NDT, Radiography tests, as applicable
- 4.7. All works shall be as per strict compliance to weight control and approved UCSL drawings.
- 4.8. 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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**INDICATIVE QUANTUM OF WORK**

Sl.No	Scope of Work	UOM	Qty	References	Remarks
1	Manhole - Fit up, welding, dry survey including box up and stud protection.(UCSL will supply the required manholes for installation)	Nos	83		
2	Vertical ladder (including tank ladder) - Fit up, welding, Dry survey, Final securing etc., (UCSL will supply the required ladder for installation)	Nos	56	Typical drawing attached (UY165-3141-Ladders and stairs Arrangement)	
3	Bottom plug - fit up, welding, dry survey including vacuum test and Boxing up the tank.(UCSL will supply the required bottom plugs for installation)	Nos	31		
4	Rungs & Handles - Fabrication & Installation (UCSL will supply the FB and Square bars for Fabrication and onboard erection)	Nos	80		
5	Anodes - Pad fit up, welding, dry survey and installation of anodes.(UCSL will supply the Anodes and required raw materials)	Nos	30		
6	Bilge keel - Fitment, welding and dry survey (Port & Stbd). (UCSL will supply the FB and bulb angles)	Shipset	1	Typical drawing attached (UY165-2051-Bilge keel arrangement)	
7	Eco sounder & doppler Speed log (~150mm dia) - Fitment, welding, dry survey including vacuum/hose test. (UCSL will supply the Eco sounder & doppler Speed log for installation)	Nos	2		



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8	Sea Chest gratings - Fabrication & Installation (UCSL will supply the required materials for sea chest fabrication & erection)	Shipset	1	Typical drawing attached (UY165-3003-Sea Chest Arrangement & UY165-3182-Sea inlet openings arrangement)
9	Bow thruster Grating (P&S) - Fabrication & Installation.(UCSL will supply the required materials for sea chest fabrication & erection)	Nos	1	
10	Hull marking (across ship), Tank boundary markings (as per tank plan), Draft marking (6 Locations), Plimsol marking (2 no's).	Set	1	
11	Vessel name, Owner logo, Builder logo IMO number, port of registry (Aft and fwd of vessel P&S)	Set	1	
12	Flush type D-Ring (Lashing Pot) - Fitment, welding and dry survey. (UCSL will supply the Flush type D-Rings (Lashing Pot) for installation)	Nos	34	
13	Structural Fender (76 x 38 mm dia Half round bar) fitment, welding and dry survey.(UCSL will supply the 76 x 38 mm dia Half round bar)	Rmtr	460	Typical drawing attached (UY165-2052-Fender arrangement)
14	Double bollard - Fitment, welding and dry survey including DP Test. (UCSL will supply the Double bollard for installation)	Nos	16	
15	Warping roller - Fitment, welding and dry survey including DP Test. (UCSL will supply the Warping roller for installation)	Nos	2	
16	Panama Chock - Fitment, welding and dry survey including DP Test.(UCSL will supply the Panama Chock for installation)	Nos	13	



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17	Three Row Hand Rail (Top pipe Ø 42 x 3.25, Bottom two rows 20 dia solid bar) fabrication & Installation.(UCSL will supply the pipes, solid bar and stanchion post for fabrication & installation )	Mtr	300	
18	Staircase ladder Fabrication & erection including removable type hand rail - Approx 3 meter height. (UCSL will supply the plates and gratings for fabrication & erection)	Nos	15	Typical drawing attached (UY165-3141- Ladders and stairs Arrangement
19	Storm Rail Fabrication & erection.(UCSL will supply the pipes for fabrication & erection)	Mtr	70	
20	Equipment lifting eyes various capacity (approx. 3 Ton capacity) - Fitment, welding and dry survey including DP Test.(UCSL will supply the plates for fabrication & erection)	Nos	60	
21	Gutter-ways - Fitment, welding and dry survey.(UCSL will supply the FB for fitment)	Mtr	260	UY165-3004- Arrangement
22	Drip-trays - Fabrication & Erection.(UCSL will supply the plates, angles and drain plugs for fabrication & erection)	Nos	12	UY165-3004- Arrangement
23	Light box hatches Fabrication & Erection (Approx Size 600mm x 600mm)(UCSL will supply the plates for fabrication & erection)	Nos	6	
24	Under deck carling - Fitment, welding and dry survey. (UCSL will supply the plates for fabrication & erection)	Mtr	120	
25	Rungs & handles Fabrication & erection. Accessing ventilation hatches.(UCSL will supply the FB and Square bars for the Fabrication & Installation)	Nos	30	



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26	Propulsion room raised platform fabrication, erection and securing the gratings. Platform Height : Approx 2 meter Material : ISMB Beam / ISMC Channel (UCSL will supply the ISMB/ISMC and Gratings for the Fabrication & Installation)	Sq. meter	60		
27	Bow thruster room raised platform fabrication, erection and securing the gratings. Platform Height : Approx 0.8 meter Material : MS Angle (UCSL will supply the MS angles and Gratings for the Fabrication & Installation)	Sq. meter	14		
28	Walkway platform Boat Deck - Fabrication, erection nd securing the gratings. (UCSL will supply the MS angles and Gratings for the Fabrication & Installation)	Sq. meter	4		
29	Walkway platform Void Deck - Fabrication, erection nd securing the gratings.(UCSL will supply the MS angles and Gratings for the Fabrication & Installation)	Sq. meter	12		
30	Walkway platform Wheel house Deck - Fabrication, erection nd securing the gratings.(UCSL will supply the MS angles and Gratings for the Fabrication & Installation)	Sq. meter	7		
31	Walkway platform Wheel house top Deck - Fabrication, erection nd securing the gratings.(UCSL will supply the MS angles and Gratings for the Fabrication & Installation)	Sq. meter	4		



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32	Raised floor works in various locations (Including chequered plate cutting, positioning and securing).	Sq. meter	120		
33	Auxiliary Expansion tank installation	Nos	1		
34	Life craft positioning - Platform Fabrication & Erection (Port & Stbd)	Nos	2		
35	LSA & FFA - Items installation and survey.	Shipset	1		
36	Generator room exhaust - Access platform fabrication & erection to access the exhaust. (UCSL will supply the required MS Angles and Gratings)	Sq. meter	4		
37	Gangway platform - Fabrication & erection (UCSL will supply the required MS Angles and Gratings)	Nos	2		
38	Exhaust silencer platform inside funnel & extended platform. (UCSL will supply the required MS Angles and Gratings)	Sq. meter	50		
39	Steel rack fabrication & erection for stores/spares including wooden positioning & securing.(UCSL will supply the required materials)	Sq. meter	30		
40	CO2 Room Arrangement - Erection of CO2 cylinders including securing arrangement.	SET	1		
41	Fabrication & Erection of Aft Mast	SET	1	Typical drawing attached (UY165-3125-Arrangement Aft Mast)	
42	Fabrication & Erection forward mast	SET	1	Typical drawing attached (UY165-3126-Arrangement fore mast)	
43	Installation of Hatches. (Fit-up, welding, Dry survey and Hose test)(UCSL will supply the Hatches)	Nos	26	Typical drawing attached (UY165-3142-Arrangement Small Hatches and Ventilation Openings)	



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44	Anchor Winch foundation, chain stopper, bitter end - Fabrication & Erection	Nos	1	Typical drawing attached (UY165-3153-Rev00-Anchor pocket arrangement, incl. hawse pipe and chain locker)
45	Embarkation & Pilot ladder - Installation and securing. (UCSL will supply the Embarkation & Pilot ladder for installation).	Nos	4	
46	Expansion tank & foundation - Fabrication & Erection. (UCSL will supply required Plates and angles for fabrication & erection of expansion tank and foundation)	Nos	1	
47	Fabrication of racks in Paint store, forecastle store, Main store, linen store, Provision store ( 4 tire racks). Wooden planks to be installed as per site conditions.	Shipset	1	
48	Fabrication & installation of bilge well gratings	Nos	8	
49	Foundation for drilling machine & welding machine	Nos	2	
50	E motors and gearbox foundation - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	2	Typical drawing attached (UY165-2071- Foundation for e motors and gearbox)
51	Steering gear foundation - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	2	Typical drawing attached (UY165-2073- working-Foundation steering gear)
52	Bow thruster foundation - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1	Typical drawing attached (UY165-2075- Foundation bow thruster)



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	Diesel generator set foundation - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	3	Typical drawing attached (UY165-2076- Foundation generator set)	
53					
54	General service pump foundation - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	2		Below 50KG
55	Stop/Stripping pump foundation - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1		Below 50KG
56	Bilge ejector foundations - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	2		Below 50KG
57	Foundation for Bilge pump in propulsion room - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1		Below 50KG
58	Foundation for Oily water separator - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1		Below 100KG
59	Foundation for ballast treatment plant - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1		Below 200KG
60	Foundation for fire pump - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1		Below 50KG
61	Foundation for FO transfer pump - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	2		Below 50KG
62	Foundation for cooling water circulation pump - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	2		Below 50KG
63	Foundation for fuel oil purifier - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	2		Below 50KG
64	Foundation for FO transfer pump for Emergency generator - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1		Below 50KG
65	Foundation for HT cooling water pump - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	2		Below 50KG



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66	Foundation for combined plate coolers - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	2		Below 50KG
67	Foundation for electrical driven LT cooling water circulation pumps	Nos	2		Below 50KG
68	Foundation for Potable/FW pumps	Nos	2		Below 50KG
69	Foundation for UV stabilizer and filter - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1		Below 50KG
70	Foundation for Insulated electrical boiler - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1		Below 50KG
71	Foundation for circulating pump - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1		Below 50KG
72	Foundation for STP - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1		Below 200KG
73	Foundation for Sewage discharge pump - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1		Below 50KG
74	Foundation for Electrically driven dirty oil pump - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1		Below 50KG
75	Foundation for water cooled heat pump system - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1		Below 50KG
76	Foundation for Emergency/Harbour generators - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1		Below 200KG
77	Foundation for Reluctant feed pump - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1		Below 50KG
78	Foundation for Mooring capstan - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	2		Below 150KG
79	Foundation for Air compressors - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	2		Below 100KG



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80	Foundations for Air receivers - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1	Below 50KG
81	Foundation for Air dryer - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1	Below 50KG
82	Radar foundation - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	2	Below 50KG
83	Search light foundations - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	2	Below 50KG
84	Hand pump foundation (LO System) - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	4	Below 50KG
85	Life raft foundation - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	2	
86	MOB boat foundation - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1	
87	Foundation for chiller plant & AHU - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos		Equipment weight ~ 1.5T
88	Foundation for propulsion panel - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1	Below 100KG
89	Foundation for Break resistor - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	2	Below 100KG
90	Foundation for ESB - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1	Below 100KG
91	Foundation for navigation & side light arrangements - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	2	Below 50KG
92	Shaft guard - Fabrication & Erection (fit up/welding/dry survey, etc..)	Rmtr	2	
93	Ballast treatment plant UV Panel foundation - - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1	Equipment weight ~1.25T



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94	MSB foundation - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1		Equipment weight ~ 2.5T
		Nos	1		Equipment weight ~ 2.3T
		Nos	1		Equipment weight ~ 1.0 T
		Nos	1		Equipment weight ~ 1.0T

**POWER OF ATTORNEY**

*(On Applicant's letter head)*

(Date and Reference)

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

**Subject: Power of Attorney**

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

(Attested signature of Mr. ....)

For.....  
(Name & designation)

(Company Seal)



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**PRICE BID FORMAT**

<b>TENDER FOR HULL FABRICATION &amp; ERECTION OF 3800 DWT GENERAL CARGO VESSEL</b>							
<b>Sl.No</b>	<b>Scope of Work</b>	<b>UOM</b>	<b>Qty</b>	<b>References</b>	<b>Remarks</b>	<b>Rate /Qty</b>	<b>Total Price</b>
1	Manhole - Fit up, welding, dry survey including box up and stud protection.(UCSL will supply the required manholes for installation)	Nos	83				
2	Vertical ladder (including tank ladder) - Fit up, welding, Dry survey, Final securing etc., (UCSL will supply the required ladder for installation)	Nos	56	Typical drawing attached (UY165-3141-Ladders and stairs Arrangement)			
3	Bottom plug - fit up, welding, dry survey including vacuum test and Boxing up the tank.(UCSL will supply the required bottom plugs for installation)	Nos	31				
4	Rungs & Handles - Fabrication & Installation (UCSL will supply the FB and Square bars for Fabrication and onboard erection)	Nos	80				
5	Anodes - Pad fit up, welding, dry survey and installation of anodes.(UCSL will supply the Anodes and required raw materials)	Nos	30				
6	Bilge keel - Fitment, welding and dry survey (Port & Stbd). (UCSL will supply the FB and bulb angles)	Shipset	1	Typical drawing attached (UY165-2051-Bilge keel arrangement)			



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7	Eco sounder & doppler Speed log (~150mm dia) - Fitment, welding, dry survey including vacuum/hose test. (UCSL will supply the Eco sounder & doppler Speed log for installation)	Nos	2		
8	Sea Chest gratings - Fabrication & Installation (UCSL will supply the required materials for sea chest fabrication & erection)	Shipset	1	Typical drawing attached (UY165-3003-Sea Chest Arrangement & UY165-3182-Sea inlet openings arrangement)	
9	Bow thruster Grating (P&S) - Fabrication & Installation. (UCSL will supply the required materials for sea chest fabrication & erection)	Nos	1		
10	Hull marking (across ship), Tank boundary markings (as per tank plan), Draft marking (6 Locations), Plimsol marking (2 no's).	Set	1		
11	Vessel name, Owner logo, Builder logo IMO number, port of registry (Aft and fwd of vessel P&S)	Set	1		
12	Flush type D-Ring (Lashing Pot) - Fitment, welding and dry survey. (UCSL will supply the Flush type D-Rings (Lashing Pot) for installation)	Nos	34		
13	Structural Fender (76 x 38 mm dia Half round bar) fitment, welding and dry survey. (UCSL will supply the 76 x 38 mm dia Half round bar)	Rmtr	460	Typical drawing attached (UY165-2052-Fender arrangement)	
14	Double bollard - Fitment, welding and dry survey including DP Test. (UCSL will supply the Double bollard for installation)	Nos	16		



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15	Warping roller - Fitment, welding and dry survey including DP Test. (UCSL will supply the Warping roller for installation)	Nos	2				
16	Panama Chock - Fitment, welding and dry survey including DP Test.(UCSL will supply the Panama Chock for installation)	Nos	13				
17	Three Row Hand Rail (Top pipe Ø 42 x 3.25, Bottom two rows 20 dia solid bar) fabrication & Installation.(UCSL will supply the pipes, solid bar and stanchion post for fabrication & installation )	Mtr	300				
18	Staircase ladder Fabrication & erection including removable type hand rail - Approx 3 meter height. (UCSL will supply the plates and gratings for fabrication & erection)	Nos	15	Typical drawing attached (UY165-3141-Ladders and stairs Arrangement			
19	Storm Rail Fabrication & erection.(UCSL will supply the pipes for fabrication & erection)	Mtr	70				
20	Equipment lifting eyes various capacity (approx. 3 Ton capacity) - Fitment, welding and dry survey including DP Test.(UCSL will supply the plates for fabrication & erection)	Nos	60				
21	Gutter-ways - Fitment, welding and dry survey.(UCSL will supply the FB for fitment)	Mtr	260	UY165-3004-Arrangement			
22	Drip-trays - Fabrication & Erection.(UCSL will supply the plates, angles and drain plugs for fabrication & erection)	Nos	12	UY165-3004-Arrangement			
23	Light box hatches Fabrication & Erection (Approx Size 600mm x 600mm)(UCSL will supply the plates for fabrication & erection)	Nos	6				



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24	Under deck carling - Fitment, welding and dry survey. (UCSL will supply the plates for fabrication & erection)	Mtr	120				
25	Rungs & handles Fabrication & erection. Accessing ventilation hatches.(UCSL will supply the FB and Square bars for the Fabrication & Installation)	Nos	30				
26	Propulsion room raised platform fabrication, erection and securing the gratings. Platform Height : Approx 2 meter Material : ISMB Beam / ISMC Channel (UCSL will supply the ISMB/ISMC and Gratings for the Fabrication & Installation)	Sq. meter	60				
27	Bow thruster room raised platform fabrication, erection and securing the gratings. Platform Height : Approx 0.8 meter Material : MS Angle (UCSL will supply the MS angles and Gratings for the Fabrication & Installation)	Sq. meter	14				
28	Walkway platform Boat Deck - Fabrication, erection nd securing the gratings. (UCSL will supply the MS angles and Gratings for the Fabrication & Installation)	Sq. meter	4				
29	Walkway platform Void Deck - Fabrication, erection nd securing the gratings.(UCSL will supply the MS angles and Gratings for the Fabrication & Installation)	Sq. meter	12				



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30	Walkway platform Wheel house Deck - Fabrication, erection and securing the gratings.(UCSL will supply the MS angles and Gratings for the Fabrication & Installation)	Sq. meter	7				
31	Walkway platform Wheel house top Deck - Fabrication, erection and securing the gratings.(UCSL will supply the MS angles and Gratings for the Fabrication & Installation)	Sq. meter	4				
32	Raised floor works in various locations (Including chequered plate cutting, positioning and securing).	Sq. meter	120				
33	Auxiliary Expansion tank installation	Nos	1				
34	Life craft positioning - Platform Fabrication & Erection (Port & Stbd)	Nos	2				
35	LSA & FFA - Items installation and survey.	Shipset	1				
36	Generator room exhaust - Access platform fabrication & erection to access the exhaust. (UCSL will supply the required MS Angles and Gratings)	Sq. meter	4				
37	Gangway platform - Fabrication & erection (UCSL will supply the required MS Angles and Gratings)	Nos	2				
38	Exhaust silencer platform inside funnel & extended platform. (UCSL will supply the required MS Angles and Gratings)	Sq. meter	50				
39	Steel rack fabrication & erection for stores/spares including wooden positioning & securing.(UCSL will supply the required materials)	Sq. meter	30				
40	CO2 Room Arrangement - Erection of CO2 cylinders including securing arrangement.	SET	1				
41	Fabrication & Erection of Aft Mast	SET	1	Typical drawing attached (UY165-			



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				3125- Arrangement Aft Mast)			
42	Fabrication & Erection forward mast	SET	1	Typical drawing attached (UY165- 3126- Arrangement fore mast)			
43	Installation of Hatches. (Fit-up, welding, Dry survey and Hose test)(UCSL will supply the Hatches)	Nos	26	Typical drawing attached (UY165- 3142- Arrangement Small Hatches and Ventilation Openings)			
44	Anchor Winch foundation, chain stopper, bitter end - Fabrication & Erection	Nos	1	Typical drawing attached (UY165- 3153-Rev00-Anchor pocket arrangement, incl. hawse pipe and chain locker)			
45	Embarkation & Pilot ladder - Installation and securing. (UCSL will supply the Embarkation & Pilot ladder for installation).	Nos	4				
46	Expansion tank & foundation - Fabrication & Erection. (UCSL will supply required Plates and angles for fabrication & erection of expansion tank and foundation)	Nos	1				
47	Fabrication of racks in Paint store, forecastle store, Main store, linen store, Provision store ( 4 tire racks). Wooden planks to be installed as per site conditions.	Shipset	1				
48	Fabrication & installation of bilge well gratings	Nos	8				
49	Foundation for drilling machine & welding machine	Nos	2				



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50	E motors and gearbox foundation - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	2	Typical drawing attached (UY165-2071-Foundation for e motors and gearbox)		
51	Steering gear foundation - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	2	Typical drawing attached (UY165-2073-working-Foundation steering gear)		
52	Bow thruster foundation - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1	Typical drawing attached (UY165-2075- Foundation bow thruster)		
53	Diesel generator set foundation - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	3	Typical drawing attached (UY165-2076- Foundation generator set)		
54	General service pump foundation - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	2		Below 50KG	
55	Stop/Stripping pump foundation - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1		Below 50KG	
56	Bilge ejector foundations - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	2		Below 50KG	
57	Foundation for Bilge pump in propulsion room - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1		Below 50KG	
58	Foundation for Oily water separator - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1		Below 100KG	
59	Foundation for ballast treatment plant - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1		Below 200KG	



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60	Foundation for fire pump - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1		Below 50KG		
61	Foundation for FO transfer pump - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	2		Below 50KG		
62	Foundation for cooling water circulation pump - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	2		Below 50KG		
63	Foundation for fuel oil purifier - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	2		Below 50KG		
64	Foundation for FO transfer pump for Emergency generator - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1		Below 50KG		
65	Foundation for HT cooling water pump - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	2		Below 50KG		
66	Foundation for combined plate coolers - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	2		Below 50KG		
67	Foundation for electrical driven LT cooling water circulation pumps	Nos	2		Below 50KG		
68	Foundation for Potable/FW pumps	Nos	2		Below 50KG		
69	Foundation for UV stabilizer and filter - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1		Below 50KG		
70	Foundation for Insulated electrical boiler - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1		Below 50KG		
71	Foundation for circulating pump - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1		Below 50KG		
72	Foundation for STP - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1		Below 200KG		
73	Foundation for Sewage discharge pump - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1		Below 50KG		



Udupi Cochin Shipyard Limited  
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74	Foundation for Electrically driven dirty oil pump - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1		Below 50KG		
75	Foundation for water cooled heat pump system - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1		Below 50KG		
76	Foundation for Emergency/Harbour generators - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1		Below 200KG		
77	Foundation for Reluctant feed pump - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1		Below 50KG		
78	Foundation for Mooring capstan - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	2		Below 150KG		
79	Foundation for Air compressors - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	2		Below 100KG		
80	Foundations for Air receivers - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1		Below 50KG		
81	Foundation for Air dryer - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1		Below 50KG		
82	Radar foundation - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	2		Below 50KG		
83	Search light foundations - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	2		Below 50KG		
84	Hand pump foundation (LO System) - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	4		Below 50KG		
85	Life raft foundation - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	2				
86	MOB boat foundation - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1				
87	Foundation for chiller plant & AHU - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos			Equipment weight ~ 1.5T		



Udupi Cochin Shipyard Limited  
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88	Foundation for propulsion panel - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1		Below 100KG		
89	Foundation for Break resistor - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	2		Below 100KG		
90	Foundation for ESB - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1		Below 100KG		
91	Foundation for navigation & side light arrangements - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	2		Below 50KG		
92	Shaft guard - Fabrication & Erection (fit up/welding/dry survey, etc..)	Rmtr	2				
93	Ballast treatment plant UV Panel foundation - - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1		Equipment weight ~1.25T		
94	MSB foundation - Fabrication & Erection (fit up/welding/dry survey, etc..)	Nos	1		Equipment weight ~ 2.5T		
		Nos	1		Equipment weight ~ 2.3T		
		Nos	1		Equipment weight ~ 1.0 T		
		Nos	1		Equipment weight ~ 1.0T		



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### **ANNEXURE-VII**

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

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

SL No.	Tender Enquiry Requirements	Confirmation from bidder (Strike off whichever is not applicable)	Specific comments /Remarks
1	Terms & Condition, Scope of work & Indicative Quantum of Work. (Annexure-I, II & III)	Agreed as per tender /Do not agree	
2	Schedule Clause 6.1 ,6.2 & 6.3	Agreed as per tender/Do not agree	
3	Eligibility criteria documents	Submitted/Not submitted	
4	Unconditional Acceptance	Agreed as per tender/Do not agree	
5	Offer Validity	01 Year - 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)

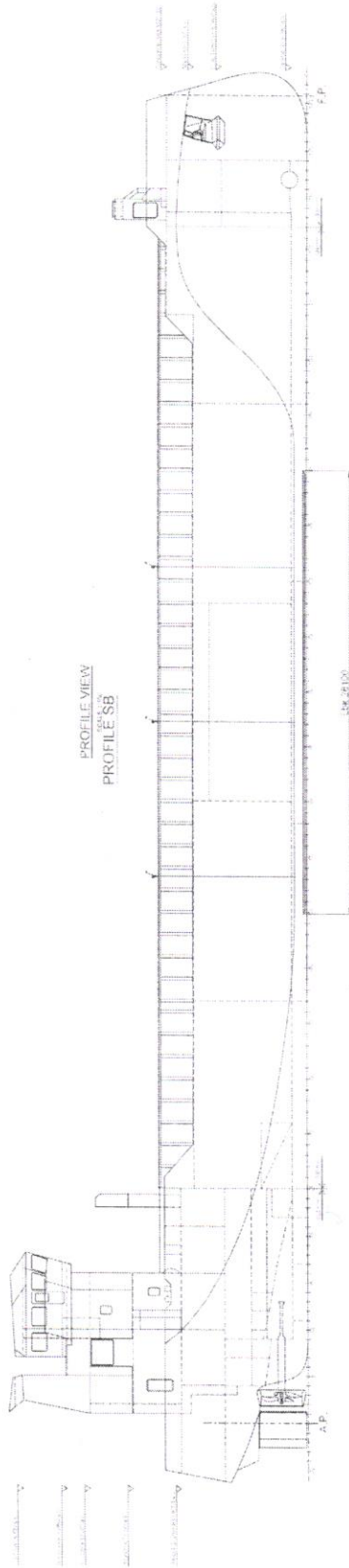
### **ACCEPTANCE OF TENDER CONDITIONS**

1. Tender Document no. UCSL/CC/T/W/011 dated 16th January 2024 Tender for Hull Outfit Structural Works of 3800 DWT General Cargo Vessel at UCSL 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.

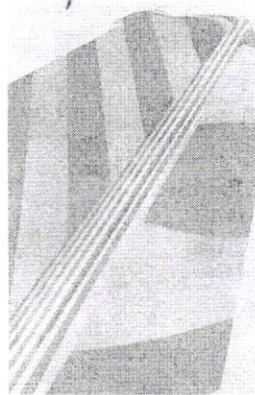
Yours faithfully,

(Signature of the tenderer) with rubber stamp

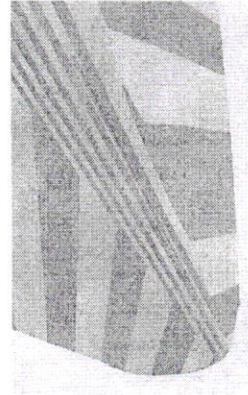
Date: .....



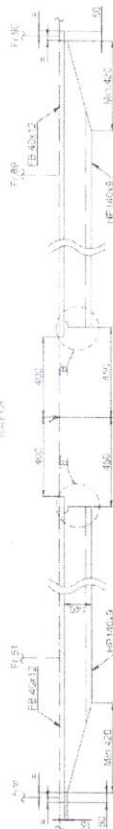
Looking aft to forward



Looking forward to aft



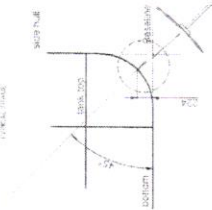
DETAIL BILGE KEEL



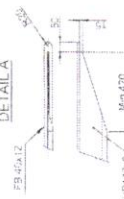
DETAIL INSERT PART



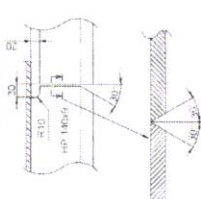
LOCATION OF BILGE KEEL



DETAIL A



DETAIL B



BILGE KEEL ORIGINATES

AN BILGE KEEL ORIGINATES FROM THE FOLLOWING

Frame	h mm	De (mm)
50	224	45
55	224	45
60	224	45
65	224	45
70	224	45
75	224	45
80	224	45
85	224	45
90	224	45

NOTES

- TO PRELIMINARY DESIGN OF BILGE KEEL (A. 224) (A. 224) (A. 224)
- FOR IS CODE 224
- Bilge keel height projected surface = 8 mm
- Projected length of bilge keel = 25 mm



CONOSHIP  
CONSTRUCTION  
11 B. 501, GROUND FLOOR, THE DISTANCE

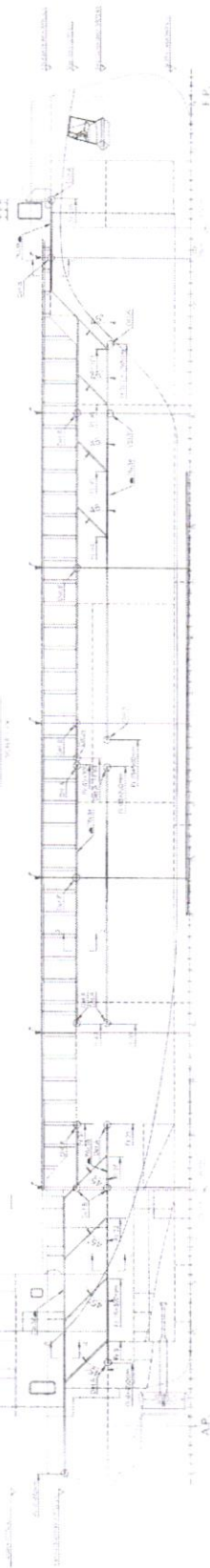
UY165-2051

Bilge keel arrangement

SCALE	SIZE	TAINT NO.	VERSION	SHEET
1:100	A1	07165	01	1-1
DRAWN BY	DATE	APPROVED BY	DATE	
J.K.	14.07.2023	M.C.	14.07.2023	



# PROFILE SB



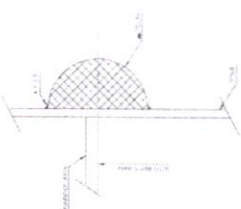
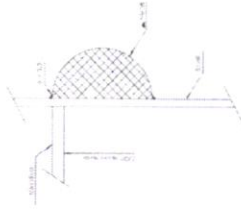
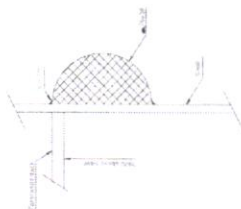
VIEW ON TRANSOM

SEC. 1-1

SEC. 2-2

SEC. 3-3

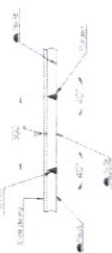
SEC. 4-4



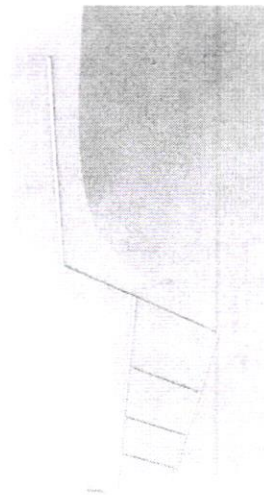
Detail A



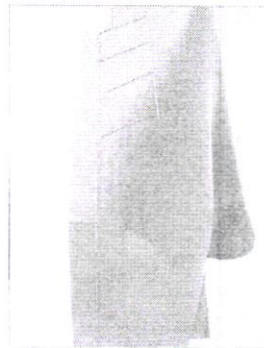
Detail B



Looking forward to aft



Looking aft to forward



REV	DATE	BY	CHK	APP	DESCRIPTION
01	11.12.2022				Initial design
02	14.07.2023				Revised design

SCALE	DATE	BY	CHK	APP	DESCRIPTION
1:100	14.07.2023				Final design

Fender Arrangement

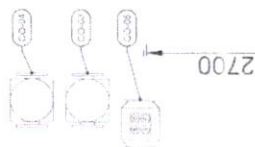
SCALE	DATE	BY	CHK	APP	DESCRIPTION
1:100	14.07.2023				Final design

SHEET

1-1

TOP OF BOXCOOLERS 2280 A.B.

TANKTOP 980 A.B.

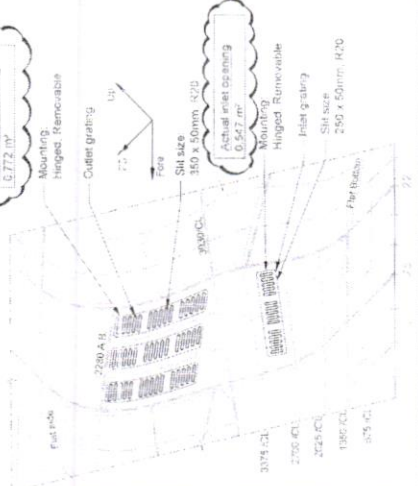


2700

1350 2700

SCALE 1:50

Actual outlet opening  
0.772 m<sup>2</sup>



LONGITUDINAL VIEW 2700 OFF CL PS



2280

420 820 924 924 924

FRAME 22

2280

980

2700 1350

FRAME 23

2280

980

2700 1350

# PENDING INFORMATION SUPPLIER

Sea Chest Arrangement

Item No.	Quantity	Material	Unit	Remarks	Remarks	Remarks
1	1	Sea Chest	1	For anodes see	UY 165-3161 - Cathodic Protection Plan	
2	1	Slit size	1	Slit size and amount according	supplier recommendations	
3	1	Minimum required inlet opening	1	Minimum required inlet opening	0.342 m <sup>2</sup>	
4	1	Minimum required outlet opening	1	Minimum required outlet opening	0.684 dm <sup>2</sup>	
5	1	Removable grids mounted by welding strips or hinges	1	Removable grids mounted by welding strips or hinges		

## NOTES

- Removable grids made of Grade A steel
- For anodes see
- UY 165-3161 - Cathodic Protection Plan
- Slit size and amount according
- supplier recommendations
- Minimum required inlet opening 0.342 m<sup>2</sup>
- Minimum required outlet opening 0.684 dm<sup>2</sup>
- Removable grids mounted by welding strips or hinges

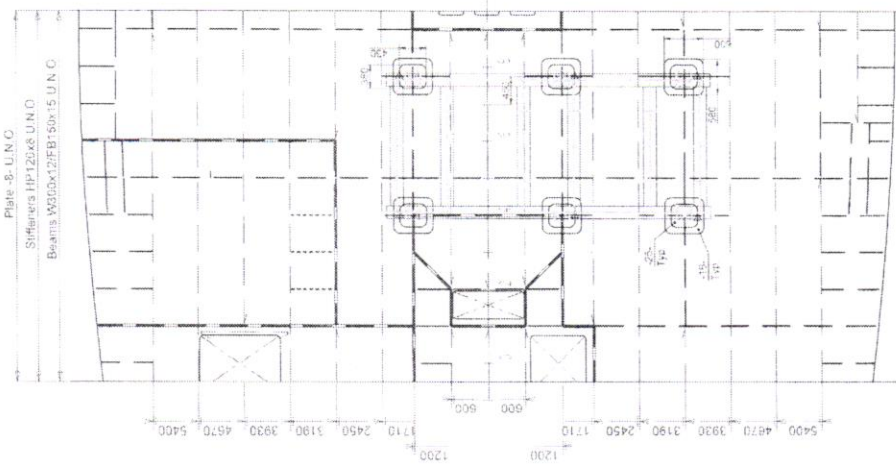
CONSHIP

CONSHIP  
P.O. BOX 100000, THE NETHERLANDS

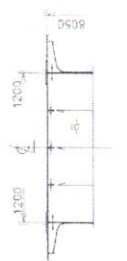
UY165-3003

REVISION	SCALE	DATE	APPROVED BY	DATE	1-1
1	1:50	21-07-2023	MC	21-07-2023	1-1

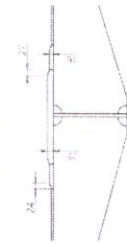
Raised Quarter Deck 8050 above base



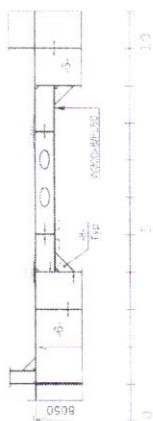
Frame 4



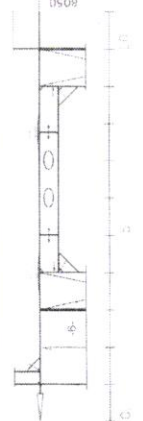
Detail insert plate  
Scale 1:10



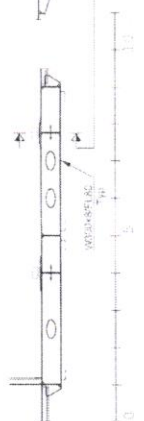
Long. section 1200 off C.L. PS



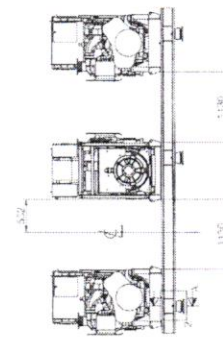
Long. section 1200 off C.L. SB



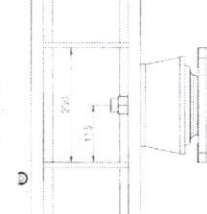
Long. section 3190 off C.L. SB



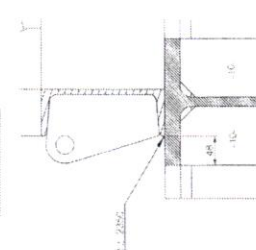
Frame 3



Detail Mounting 2  
Scale 1:5

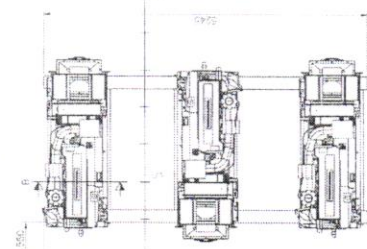
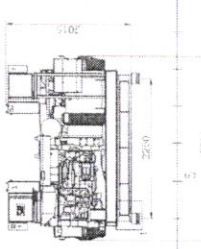
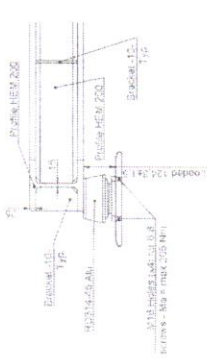


Cut B - Welding Detail - Typical  
Scale 1:4

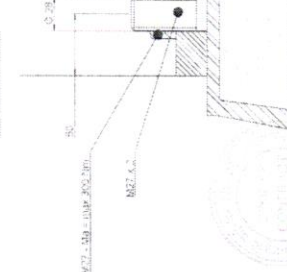


REFERENCE FILES:  
Sheet CM RD 519-41  
810714035 - XXX-00A VOL 01 CM-04C - L547.3 MB + 50R - HRS-01 (NIP) - pdf

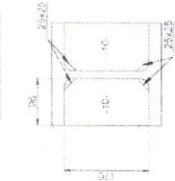
Detail mounting 1  
Scale 1:10



Cut A - Typical  
Scale 1:2



Bracket - Typical  
Scale 1:5



REV	DATE	SCALE	BY	APPROVED BY	DESCRIPTION
1	14.04.2023	1:10	YANU AG	YANU AG	FOUNDATION GENERATOR SETS

Element	No	Mass (approx.)
Generator	1	12500 kg
Generator	3	3000 kg
Generator	-	1815 kg
<b>Total</b>		<b>13185 kg</b>

SCALE	DATE	BY	APPROVED BY	VERSION	SHEET
1:10	14.04.2023	YANU AG	YANU AG	30	1-1

REV	DATE	SCALE	BY	APPROVED BY	DESCRIPTION
1	14.04.2023	1:10	YANU AG	YANU AG	FOUNDATION GENERATOR SETS

Technical drawing of a road intersection showing a roundabout and a T-junction. The roundabout has a central island with a cross-hatched pattern and a circular road marking. The T-junction has a rectangular road marking. Dimensions are given in meters (m) and feet (ft). The drawing is labeled "SAR 72511 4".

[illegible]

1. Select the 300 shortest people for a 1.5-part study.
2. **Matched:**
  - Pair matched based on 10 groups of 100 Shortest People.
3. Comparison between female and male patients is missing. Now, 100 males are added to the study with 100 females.

Received 22 July 2004

- LY165-101: Rev'd General Arrangement Plan
- LY165-104C: Rev'd 30-Second Cluster Room Arrangement
- LY165-105: Rev'd Construction plan for table

Equipment and materials

02001-025 1016 1025-01

REV	DATE	ISSUED BY	APPROVED BY	DESCRIPTION
				CONVENTION COMMITTEE (COUNCIL) 15-1-2004
<p>1. The following is the proposed agenda for the 15th Annual General Meeting of the Association of Teachers in Schools (ATS) to be held on 15th January 2004 at the Raffles Hotel, Singapore.</p> <p>2. The following is the proposed agenda for the 15th Annual General Meeting of the Association of Teachers in Schools (ATS) to be held on 15th January 2004 at the Raffles Hotel, Singapore.</p> <p>3. The following is the proposed agenda for the 15th Annual General Meeting of the Association of Teachers in Schools (ATS) to be held on 15th January 2004 at the Raffles Hotel, Singapore.</p>				

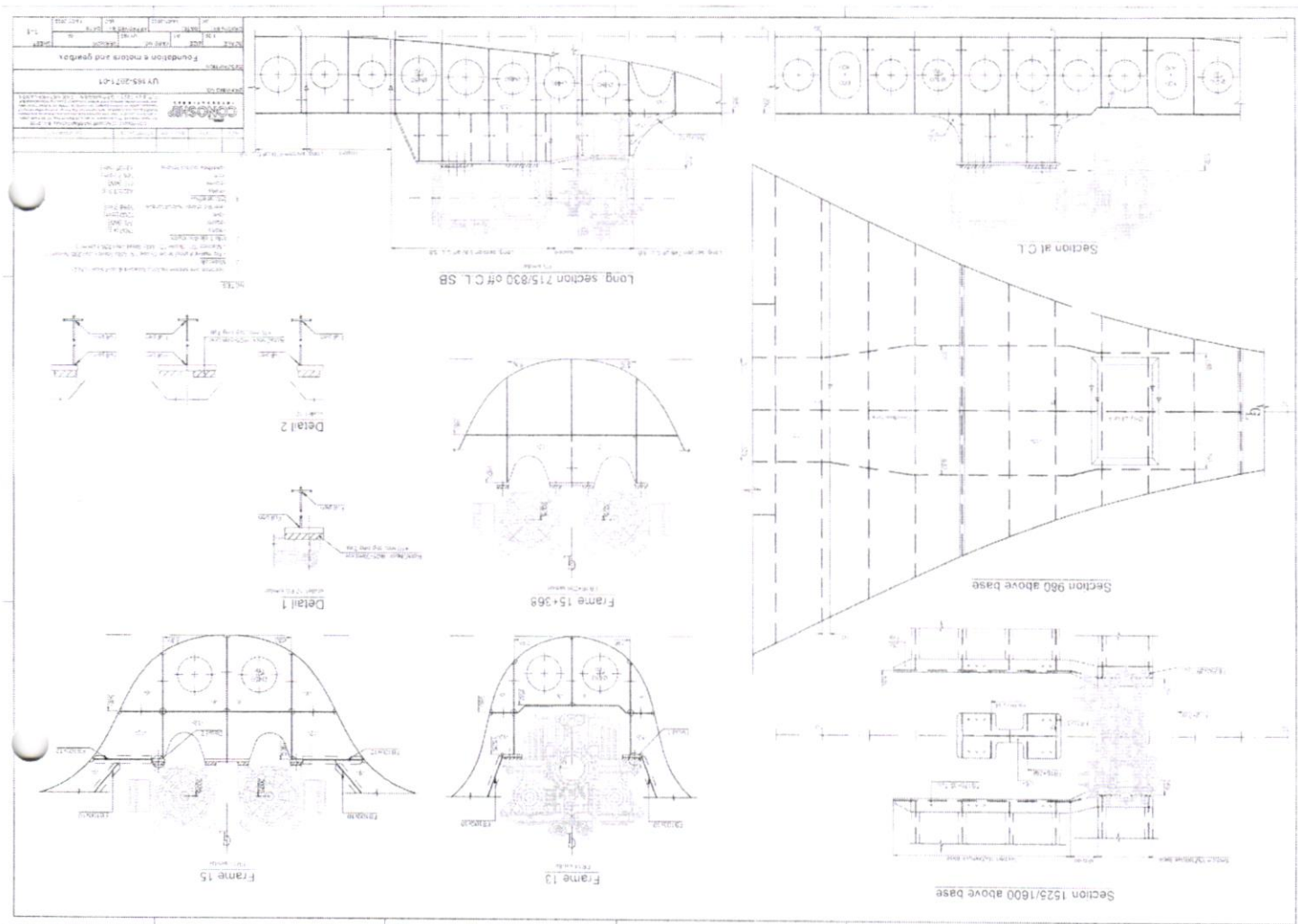


ASSOCIATION OF TEACHERS IN SCHOOLS

UY165-2075

Foundations bow thruster

SCALE	REV	DATE	ISSUED BY	APPROVED BY	DESCRIPTION
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1:25	A-2	14-01-2002	UY165-2075		
1:25	A-3	14-01-2002	UY165-2075		
1:25	A-4	14-01-2002	UY165-2075		
1:25	A-5	14-01-2002	UY165-2075		
1:25	A-6	14-01-2002	UY165-2075		
1:25	A-7	14-01-2002	UY165-2075		
1:25	A-8	14-01-2002	UY165-2075		
1:25	A-9	14-01-2002	UY165-2075		
1:25	A-10	14-01-2002	UY165-2075		
1:25	A-11	14-01-2002	UY165-2075		
1:25	A-12	14-01-2002	UY165-2075		
1:25	A-13	14-01-2002	UY165-2075		
1:25	A-14	14-01-2002	UY165-2075		
1:25	A-15	14-01-2002	UY165-2075		
1:25	A-16	14-01-2002	UY165-2075		
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1:25	A-19	14-01-2002	UY165-2075		
1:25	A-20	14-01-2002	UY165-2075		
1:25	A-21	14-01-2002	UY165-2075		
1:25	A-22	14-01-2002	UY165-2075		
1:25	A-23	14-01-2002	UY165-2075		
1:25	A-24	14-01-2002	UY165-2075		
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1:25	A-26	14-01-2002	UY165-2075		
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1:25	A-30	14-01-2002	UY165-2075		
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1:25	A-99	14-01-2002	UY165-2075		
1:25	A-100	14-01-2002	UY165-2075		





[illegible]

- Type and arrangement of antennas to be arranged by supplier in accordance with Class, Yard and owners requirements







