

TENDER No.: UCSL/CC/T/GEN/215 Dtd.11.12.2023

TENDER FOR UCSL-MALPE SUBSTATION SHIFTING



UDUPI COCHIN SHIPYARD LIMITED
MALPE, UDUPI 576108





Udupi Cochin Shipyard Limited
TENDER FOR UCSL-MALPE SUBSTATION SHIFTING
UCSL/CC/T/GEN/215 Dt 11th December 2023

TENDER NOTICE

Tender No. & date	UCSL/CC/T/W/215 Dt.11th December 2023
Name of work	TENDER FOR UCSL-MALPE SUBSTATION SHIFTING
Pre-Bid Meeting	18 th December 2023 (Monday), 11:00 Hrs.
Last date & time of receipt of tender	20 th December 2023 (Wednesday), 15:00 Hrs.
Date & time of opening of Technical Bid (Part-I)	20 th December 2023 (Wednesday), 15:00 Hrs.
Tentative date & Time of opening of Price Bid (Part - II)	22 nd December 2023 (Friday), 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 placed at Annexure I, II, III and Annexure IV respectively
- b. **The Techno commercial Check List** at Annexure VII to be filled up completely and duly signed.
- c. Duly filled form at Annexure - IV.
- 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
- iii. **Part I and Part II are to be protected with separate and distinctly different passwords.**





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- iv. The Bids will be opened on online mode during which the bidder will be advised to share the password through SMS with which the technical bid will be opened.
- v. The price bids will be opened after technical evaluation and **only the technically qualified bidders will be invited for opening of price bids** which shall also be conducted on online mode as above.
- vi. 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 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. Lijin, (Electrical In charge) (Mob: 996160770)/ Mr. Sarun babu, (Contract Cell) (Mob: 8592048487).

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 work | - 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 MALPE SUBSTATION SHIFTING

1. DESCRIPTION OF WORK

- 1.1. This tender enquiry pertains to the awarding of contract for UCSL-Malpe substation shifting at Udupi Cochin Shipyard Limited (UCSL), Karnataka.
- 1.2. The work includes for UCSL-Malpe substation shift is specified as follows
 - Extension of MESCOM, 11 KV line
 - Substation yard work
 - 1250A HT VCB (Siemens/Schneider/ABB) with metering
 - Earthing
 - Plate earthing
 - HT Cable
 - MV Cable
 - RTCC panel
 - Bus duct
 - Site made cable tray
 - Remove and reinstallation work
 - Liaisoning and approval with government agencies
 - Other miscellaneous work
- 1.3. You are requested to obtain clarifications, if any, and carefully study the documents and the scope of services and UCSL, before submitting your offer.
- 1.4. The Contractors are advised to familiarize themselves with the site conditions before quoting.

2. SCOPE OF WORK

- 2.1. Shifting, erection, inspection, liaisoning and commissioning as per the drawings and necessary testing to satisfactorily complete the work in accordance with UCSL.
- 2.2. Refer Annexure II and Annexure III for detailed scope of work.
- 2.3. This is a turnkey job and any additional works up to 10% growth of work is to be undertaken without any additional price impact.

3. METHOD OF AWARDING CONTRACT

- 3.1. Contract will be concluded with Bidder qualifying technically, agreeing to Techno-Commercial conditions (Annexure VI) and emerging as L1.
- 3.2. The bidder shall submit the prices at the Annexure - V.
- 3.3. UCSL also reserves the right to split the work order to any number of bidders willing to match with L1 rate, if the performance of selected bidder is not satisfactory. UCSL reserves the right to cancel the tender if required.





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4. SCHEDULE OF COMPLETION

- 4.1. The work is urgent in nature hence, contractor to mobilize the men and material for execution of the work not later than 7 days from the date of placement of work order / Confirmation.
- 4.2. 10 calendar days for completion of the work, which includes 5 days of maximum power shutdown.

5. VALIDITY

- 5.1. The offer shall be valid for a period of 01 year and no escalation in rate shall be allowed by UCSL on whatsoever reason.

6. RATE

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

7. PAYMENT TERMS

- 7.1. 100% Payment will be made for the actual quantum of work done.
- 7.2. Payment shall be made on the basis of certification by UCSL Quality Control Representative for quality and quantity of work on actuals.
- 7.3. The payment shall be made within 30days from submission of invoice along with the work completion certificate.
- 7.4. All claims for payment for the work/additional work shall be submitted by the contractor within one month of completion of work.
- 7.5. 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.

8. TAXES & DUTIES

- 8.1. 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).

9. SECURITY DEPOSIT / PERFORMANCE GUARANTEE

- 9.1. 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 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.





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10. PERFORMANCE GUARANTEE

- 10.1. 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.
- 10.2. 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.
- 10.3. 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.

11. LIQUIDATED DAMAGES

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

12. POWER OF ATTORNEY

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





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13. TERMINATION & LIMITATION OF LIABILITY

- 13.1. This contract may be terminated upon the occurrence of any of the following events
- 13.2. By agreement in writing of the parties hereto;
- 13.3. By the non-defaulting party, upon default by the other party, of any clause of this contract, if not remedied within fifteen (15) days, or such longer time as may be agreed upon by the parties, after receipt of notice thereof in writing from the non-defaulting party;
- 13.4. By the other party, upon either party;
 - i. Making the assignment for the benefit of creditors, being adjudged a bankrupt or becoming insolvent; or
 - ii. Having a reasonable petition filed seeking its' dissolution or liquidation, not stayed or dismissed within sixty (60) days; or
 - iii. Ceasing to do business for any reason.
- 13.5. For fraud and corruption or other unacceptable practices.
- 13.6. Upon expiry or termination of this Contract, neither party shall be discharged from any antecedent obligations or liabilities to the other party under this Contract unless otherwise agreed in writing.
- 13.7. UCSL may by notice in writing to Contractor to terminate the order after issuing due notice i.e., 30 days' notice period. UCSL shall be entitled to compensation for loss limited to the order value.
- 13.8. Liability maximum that can be claimed by the Contractor shall be limited to what is due to be and has been paid by UCSL for work done as per the payment milestones and limited to work order value.

14. ARBITRATION & JURISDICTION

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





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

15. SUB CONTRACTING AND ASSIGNMENT

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

16. SECRECY & RESTRICTION ON INFORMATION TO MEDIA

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

17. CANCELLATION OF ORDER AND RISK CONTRACTING

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

18. FORCE MAJEURE

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

19. SAFETY OF PERSONNEL AND FIRST AID

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





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

20. LABOUR LAWS AND REGULATIONS

- 20.1. 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.
- 20.2. 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.
- 20.3. 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.
- 20.4. 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.
- 20.5. 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.
- 20.6. 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.
- 20.7. 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.
- 20.8. 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





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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.

- 20.9. 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:
- 20.10. Passport/Aadhaar attested copy of passport with photo and address particulars.
OR
Police clearance certificate with photo and address particulars. (Police clearance certificate to the effect that the concerned person is staying in the area of jurisdiction of the certificate issuing Police Station and that the person is not involved in any criminal offences as per the records available therein.)
- 20.11. 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.
- 20.12. Contractor shall familiarize themselves with the labour rules & regulations.

21. OVERWRITING & CORRECTIONS

- 21.1. 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

22. OTHER TERMS & CONDITIONS

- 22.1. Quality of services shall conform to the specification/ standards laid down by UCSL.
- 22.2. UCSL reserves the right to accept / reject any offer.
- 22.3. 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.
- 22.4. 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.
- 22.5. 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.
- 22.6. 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.
- 22.7. 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.
- 22.8. 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.
- 22.9. 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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- 22.10. 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.
- 22.11. Assistant General Manager, or his authorized representative will be the Officer-in-charge of these contracts.

23. ELIGIBILITY CRITERIA

- 23.1. The Bidder shall be a single firm having experience in electrical works, especially in substation/heavy electrical areas in the last three years.
- 23.2. The technical experience means “the experience of successfully completed similar works for period of 3 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.
- 23.3. The contractor must have a site-in charge/ supervisor to execute work, with a minimum experience of 3 yrs. in Electrical field.
- 23.4. If the experience claimed by the bidder is of no relevance with respect to heavy electrical works, then such experience will not be considered for pre-qualification. Decision taken by UCSL in this regard will be final.
- 23.5. 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, during the technical bid submission stage.
- 23.6. 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.





SCOPE OF WORK

TENDER FOR MALPE SUBSTATION SHIFTING

1. SCOPE OF CONTRACTOR:

- 1.1. Extension of HT line from Existing MESCOM tapping point
- 1.2. Removing and re stringing of existing LT/HT line
- 1.3. Supply and installation of RCC pole (double pole structure) and its accessories
- 1.4. Supply and Installation of insulated welding mesh fencing with a height of 1800mm above formed level at yard with weld mesh gate and suitable foundation for verticals.
- 1.5. Supply & leveling of new HT Yard by providing & Spreading Blue metal Uniformly
- 1.6. Supply and Installation of PCC Plinth bed for VCB as per given measurement
- 1.7. Supply and installation of Transformer Plinth as per given measurement
- 1.8. Supply and Installation of 1250A HT VCB (siemens/schneider/ABB) with metering. Metering cubicle to be supplied with ESCOM test certificate
- 1.9. Providing and fixing of maintenance free Earthing system the material shall be mineral inert to sub soil and shall not pollute the environment and non-corrosive to earth rod
- 1.10. Supply, Installation, testing and commissioning of earth plate of size as indicated in Annexure III
- 1.11. Supply, laying, testing and commissioning of HT Aluminum Cable through existing cable trench/Existing Cable tray and its end kit suitable for the aluminum cable.
- 1.12. Supply installation testing and Commissioning of Medium Voltage Aluminium Armoured cable through existing Duct or Trench or tray
- 1.13. Shifting and Installation of base Mounted RTCC Panels for Auto/manual Tap Changing Purposes
- 1.14. Removing of aluminium type Bus duct from the existing substation and reinstallation in proposed new substation area.
- 1.15. Supply and install Site made cable tray
- 1.16. Removing and reinstallation of 1250Kva oil cooled transformer, 2000A ACB pannel board, APFC pannel, installation of 800A VCB metering panel.
- 1.17. The Contractor shall execute the work as per the specifications / drawings issued and to the satisfaction of UCSL.
- 1.18. Contractor shall maintain quality as per standards. UCSL will conduct inspection during the process.
- 1.19. During construction phase, the necessary changes recommended by the competent authority shall be done by the contractor without any additional charges.
- 1.20. Consumables required for fabrication and erection such as grinding wheel, cutting wheel, cutting nozzle, Welding machines, welding consumables, etc is in the contractor's scope





1.21. Refer Annexure II and Annexure III for detailed scope of work.

1.22. The contractor should have valid Class-A approval and also the contractor should be in a possession to coordinate with MESCOM & CEA authority at all levels for the successful completion of the scope of job.

The scope of the contractor also includes:

- 1.1. The contractor, while executing the work, shall conform to the provision of the Government Acts relating to the work and to the regulations and Bye laws of the local authorities, and of the company to whose system of supply the installation is proposed to be connected. The contractor shall give all notices, required by the Acts, Regulations or By-Laws. He will also undertake to provide test certificates and drawings as electricity supply. The contractor shall also obtain all approvals for the items of work done under this contract from the appropriate authorities. Contractor shall possess valid electrical contractor's license issued by the inspectorate of the government.
- 1.2. All materials required for the civil and construction/installation work shall be supplied by the contractor. The cement and steel shall also be supplied by the Contractor
- 1.3. The pole is to be erected in alignment with utmost care and the excavated earth should be back filled properly by ramming or concreting
- 1.4. The Contractor shall provide and install danger plates on all DP & four pole structures and at all poles where DT is installed. The danger plates shall conform to REC specification No.57/1993
- 1.5. Any materials supplied by the contractor, if damaged in any way during cartage or execution of work or otherwise, shall be made good by the contractor at his own cost
- 1.6. The contractor shall provide their employees with all Personal Protective Equipment (PPE) such as safety helmets, gloves, leg guards, safety belts, safety harness, safety aprons and safety shoes and shall ensure safety of personnel at the site at all times.

2. SCOPE OF UCSL:

1. UCSL will provide necessary work instructions, technical specifications and applicable drawings etc. for the work.
2. Assistance from yard will be limited to Entry pass for personnel /Crane assistance/Fork Lift assistance for loading and unloading of items within UCSL premises, subject to availability at free of cost.
3. UCSL shall not be responsible for any compensation to personnel for injuries etc under any circumstance, whatsoever.
4. Water for drinking and other purpose will be provided.

3. ADDITIONAL WORKS

- 3.1. This is a turnkey job and any additional works up to 10% growth of work is to be envisaged and is to be undertaken without any additional price impact.
- 3.2. The work shall be carried out in the best workmanlike manner and any defect in the work or changes in the design etc., if pointed out shall be carried out by the contractor within the tendered rates.





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- 3.3. Any minor modifications, resulting from the change in statutory regulations prevailing at the time of final inspection of work, 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.
- 3.4. 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 mobilize the necessary manpower to commence the job within the stipulated schedule.
- 3.7. 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.





Udupi Cochin Shipyard Limited
Tender for UCSL Maple Substation Shifting
UCSL/CC/T/GEN/215 Dt 11th December 2023

TENDER FOR MALPE SUBSTATION SHIFTING

Indicative Quantity & Division of Work

Sl No.	Description	Unit	Quantity
A	Extension of MESCOM,11 KV line		
	Extension of HT line from Existing MESCOM tapping point by using 9/9.5 Mtr RCC pole, ACSR conductor, GI cross arms, insulator etc complete materials as per MESCOM terms and condition.	Span	9
	Removing and re stringing of existing LT/HT line as per MESCOM terms and condition.	No	9
	MESCOM DP structure at transformer yard		
	Supply and installation of 9 mtr RCC pole, LA , GOS, HG fuse interconnection ACSR conductor		
	Total double pole structure	Set	1
B	Substation yard		
1	Supply and Installation of 1" insulated welding mesh fencing using 10SWG GI wire with ms angle frame work and vertical 75x75x40mm C' Channel & 40*6 L angle supports at 1500mm C/C with a height of 1800mm above formed level at yard with suitable foundation for verticals	L/s	1
2	Supply and Installation of Weld mesh gate with vertical supports made of 75x45x6mm angle height with necessary foundation, locking arrangement with painting (1500Wx1800H)		
4	Supply & Leveliing of new HT Yard by providing & Spreading of 40mm Blue metal Uniformly in 100-150mm bed thickness	CU Mtr area	15
5	Supply and Installation of PCC Plinth bed for VCB having the following measurement 1.6Mtr LengthX 1Mtr Width xX3Mtr height or as per supplied VCB and HT cubical size.in case VCB and cubical are separate then separate beds required.	Ls	1 or 2
6	Charges for constructing PCC Plinth bed for ACB Panel having the following measurement 1.6Mtr LengthX 1Mtr Width xX2Mtr Height	Ls	1
7	Supply and installation of Transformer Plinth having the following measurement 1.1Mtrx2Mtrx2Mtr (ACB bed and transformer bed should be allign to install existing 2000A Aluminium the BUS duct).	Ls	1
C	1250A HT VCB(siemens/schneider/ABB) with metering		
	Supply and Installation of Horizontal Draw Out VCB fitted with Manual / Motor Operated spring charging mechanism with 230V AC Motor & Motor Control Switch, Mechanical ON / OFF indicator Operation Counter, Automatic safety shutters & push button.		
	Shunt trip Coil -1 Nos	Nos	1
	Closing Coil -1 Nos		
	Spare auxiliary contact -1 Nos		
	Antipumping Feature -1 Nos		
	230VAC / 110V DC Power Pack - 1Nos		
	Potential Transformer		





Udupi Cochin Shipyard Limited
Tender for UCSL Maple Substation Shifting
UCSL/CC/T/GEN/215 Dt 11th December 2023

	<p>Three Phase, Resin cast, Fixed, Dry type, Potential Transformer with HT/LT Fuses -1 Nos</p> <p>Current Transformer</p> <p>Single Phase, Resin cast, Dry type, Current Transformer of Ratio: 25/5A -3 Nos</p> <p>Core 1: Metering</p> <p>Core 2: Protection</p> <p>METERING</p> <p>Digital Ammeter with Selector Switch -1 Nos Digital Voltmeter with Selector Switch -1 Nos Digital Multifunction -1</p> <p>NoProtection Numerical Non-Directional IDMT combined 3O/C and 1E/F relay with highset -1 Nos High speed / Master trip relay -1 Nos</p> <p>Indication Lamps / Annunciation</p> <p>VCB OFF/ON/Auto trip/Trip circuit healthy/Spring charge indication lamps -1 Set RYB Phase indicating lamps -1 Set</p> <p>Control Switches / Push Buttons</p> <p>Breaker Control Switch (Close-Neutral-Trip) - 1 Nos Trip Circuit Healthy Push Button - 1 Nos.</p> <p>HT TOD Tarif metering and Class0.2s CT/PT Unit. Metering cubicle to be supplied with ESCOM test certificate. meter cubicle and VCB should be suitable for coastal area</p>		
D	Earthing		
	<p>Providing and fixing of maintenance free Earthing system comprises of molecularly bonded copper of 99.9% purity on low carbon steel of 3m length , having a diameter of 20mm with copper bonding thickness of 250 microns with with fault current withstand capability of 20 KA rms value for 1 second and I peak of 50 KA. Universal Clamp should be exothermic moulded along with earth rod. Earth enhancing mineral compound is used for improving the soil conductivity. The material shall be mineral inert to sub soil and shall not pollute the environment and non corrosive to earth rod. The material should have a resistivity less than 0.2 Ωm. It should be free from hazardous substances The mineral compound is required to have minimum 20 Kg of the total composite. If using chemical compound min 37.5 Kg is required. Concrete earth electrode inspection chamber with heavy duty cover should be used to cover the Earth Rod.. (confirming to BS 7430).</p>	Nos	12





Udupi Cochin Shipyard Limited
Tender for UCSL Maple Substation Shifting
UCSL/CC/T/GEN/215 Dt 11th December 2023

E	Plate earthing		
	Supply, Installation, testing and commissioning of earth plate of size 600 x 600 x 3mm copper plate earth electrode at a depth 3000 mm. Two copper flats of size 25 x 3 mm shall be braced to this copper plate throughout the overlapping length with the copper plate and brought to the surface of the earth pit. This plate shall have provision for connecting wires or flats as the case may be. A suitable size of 25/ 38mm dia GI pipe shall be provided up to bottom of the earth pit. This GI pipe shall have provision for watering through a funnel. A masonry structure of wall thickness of not less than 230mm shall be constructed to a depth of 450mm. .	Nos	2
F	Earth strip and wires		
1	50X5MM Cu Strip	Mtr	150
2	brass bolt and nut M8x30mm	No	50
3	10SWG Bare Copper	Mtr	10
Additional will be paid on actual measurements. Please quote for per meter cost			
G	HT Cable		
	Supply laying , testing and commissioning of 3Cx180sqmm XLPE HT Aluminium Cable through existing cable trench/Existing Cable tray	Mtr	40
H	HT Cable		
	Supply and installation, testing and commissioning of following End kits suitable for 3CX180qmm XLPE 11kV Aluminium Cable		
1	Outdoor and indoor HT End terminaion Kit(3M/Raychem).required from DP structure to transformer	Nos	As per supplied metering cubicle and VCB panel
I	MV cable		
	Supply installation testing and Commissioning of folowing Medium Voltage 1.1kV XLPE Aluminium Armoured cable trough exixting Duct or Trench or tray		
1	5Runx3.5CX400Sqmm XLPE AL Cable with both end cable termination by using brass double compression gland ,earth clamps and aluminium tubular crimping cable lugs	Mtr	350
J	RTCC Panel		
1	Shifting and Installation of base Mounted RTCC Panels for Auto/manual Tap Changing Purposes	Nos	1
2	Supply and installation of following wires and cables,DB's for control wiring of OLTC		
i	4CX1.5Sqmm Copper Round Wire	Mtr	70
ii	2CX1.5Sqmm Copper Round Wire	Mtr	70





**Udupi Cochin Shipyard Limited
Tender for UCSL Maple Substation Shifting
UCSL/CC/T/GEN/215 Dt 11th December 2023**

iv	2CX2.5Sqmm Copper Round Wire	Mtr	70
vii	6A SP MCB	Nos	6
K	Bus duct		
	removing of aluminium type 2000A open type Bus duct from the existing substaion and reinstallation in proposed new substation area.	Mtr	approximate 10
L	Site made cable tray		
	Supply installation testing and commissioning of Sitemade cable tray using 25x6mm Angle iron and 25x3mm Strip	Mtr	60
M	Removing and reinstallation work		
1	Disconnection and Shifting and installation of 1250Kva Oil Cooled Transformer from existing to proposed substation	Nos	1
2	Disconnection and Shifting of 2000A ACB Panel Board from existing to proposed substation and re installation in the proposed substation area	Nos	1
7	Disconnection APFC Panel , from existing to proposed substation	No	1
9	Installation of 800A VCB Metering panel in the Newly constructed yard	Nos	1
11	Installation of APFC Panel in the Panel Room Area 2	Nos	1
N	Liasoning and approval with govt agencies		
1	Coordination with MESCOM for 11 kv estimation and relocation process . liaison with central electrical authority(CEA) including preparation of approved drawing & related documentation for complete approval for the project.	Nos	Lum
O	Other miscellanious work		
1	Charges For Main Panel Incomer side alteration work	Lum	1
2	Supply and installation of an additional 1250A ACB In the Existing Main panel Board for APFC by Aluminium Bus bar Extension	Lum	1

Additional points.

1. HT cable should lay below 1 meter from the ground level and LT cable.75m
2. Existing bus duct and cubical roofing need to remove and reinstall.
3. All the Measurements are approximate payment will be made on actual measurements.(During tendering per meter cost need to mention.)
4. supply and laying of copper flats laid in open / buried underground / concealed manner with necessary clamps, SMC insulators, screws, interlinks etc. for earthing .Laying of earth strip at 0.50 meter below ground level / surface from earth electrode, including connection/ terminating with brass nut, bolt, spring washer, excavation and re-filling etc. as required.
5. For earth electrode and chemical compound, Test certificate need to be submitted.
6. HT and LT Cable and earth strip route marker.
7. All the HT Transformer, HT MC and LT kiosk shall be labeled and maintained as per IS3043.



POWER OF ATTORNEY

(On Applicant's letter head)

(Date and Reference)

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

Subject: Power of Attorney

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

(Attested signature of Mr.)

For.....
(Name & designation)

(Company Seal)





Udupi Cochin Shipyard Limited
Tender for UCSL-Malpe Substation Shifting
UCSL/CC/T/GEN/215 Dt 11th December 2023

TENDER FOR MALPE SUBSTATION SHIFTING
PRICE BID FORMAT

Sl No.	Description	Unit	Quantity	Rate/qty (Rs)	TOTAL(INR)
A	Extension of MESCOM,11 KV line				
1	Extension of HT line from Existing MESCOM tapping point by using 9/9.5 Mtr RCC pole, ACSR conductor, GI cross arms, insulator etc. complete materials as per MESCOM terms and condition.	Span	9		
2	Removing and re stringing of existing LT/HT line as per MESCOM terms and condition.	No	9		
	MESCOM DP structure at transformer yard				
3	Supply and installation of 9 mtr RCC pole, LA, GOS, HG fuse interconnection ACSR conductor	Set	1		
	Total double pole structure				
B	Substation yard				
1	Supply and Installation of 1" insulated welding mesh fencing using 10SWG GI wire with ms angle frame work and vertical 75x75x40mm C' Channel & 40*6 L angle supports at 1500mm C/C with a height of 1800mm above formed level at yard with suitable foundation for verticals	Ls	1		
2	Supply and Installation of Weld mesh gate with vertical supports made of 75x45x6mm angle height with necessary foundation, locking arrangement with painting (1500Wx1800H)				
4	Supply & leveling of new HT Yard by providing & spreading of 40mm Blue metal Uniformly in 100-150mm bed thickness	CU Mtr area	15		
5	Supply and Installation of PCC Plinth bed for VCB having the following measurement 1.6Mtr Length X 1Mtr Width xX3Mtr height or as per supplied VCB and HT cubical size.in case VCB and cubical are separate then separate beds required.	Ls	1 or 2		
6	Charges for constructing PCC Plinth bed for ACB Panel having the following measurement 1.6Mtr LengthX 1Mtr Width xX2Mtr Height	Ls	1		





Udupi Cochin Shipyard Limited
Tender for UCSL-Malpe Substation Shifting
UCSL/CC/T/GEN/215 Dt 11th December 2023

7	Supply and installation of Transformer Plinth having the following measurement 1.1Mtrx2Mtrx2Mtr (ACB bed and transformer bed should be align to install existing 2000A Aluminium the BUS duct).	Ls	1		
C	1250A HT VCB(siemens/schneider/ABB) with metering				
	Supply and Installation of Horizontal Draw Out VCB fitted with Manual / Motor Operated spring charging mechanism with 230V AC Motor & Motor Control Switch, Mechanical ON / OFF indicator Operation Counter, Automatic safety shutters & push button.				
	Shunt trip Coil -1 Nos				
	Closing Coil -1 Nos				
	Spare auxiliary contact -1 Nos				
	Antipumping Feature -1 Nos				
	230VAC / 110V DC Power Pack - 1Nos				
	Potential Transformer				
	Three Phase, Resin cast, Fixed, Dry type, Potential Transformer with HT/LT Fuses -1 Nos				
	Current Transformer				
	Single Phase, Resin cast, Dry type, Current Transformer of Ratio: 25/5A - 3nos				
	Core 1: Metering	Nos	1		
	Core 2: Protection				
	METERING				
	Digital Ammeter with Selector Switch -1				
	Nos Digital Voltmeter with Selector Switch				
	-1 Nos Digital Multifunction -1 No				
	Protection Numerical Non-Directional IDMT combined 3O/C and 1E/F relay with highset -1 Nos High speed / Master trip relay -1 Nos				
	Indication Lamps / Annunciation				
	VCB OFF/ON/Auto trip/Trip circuit healthy/Spring charge indication lamps -1				
	Set RYB Phase indicating lamps -1 Set				
	Control Switches / Push Buttons				
	Breaker Control Switch (Close-Neutral-Trip) - 1 Nos Trip Circuit Healthy Push Button - 1 Nos.				
	HT TOD Tariff metering and Class0.2s CT/PT Unit. Metering cubicle to be supplied with ESCOM test certificate.				





Udupi Cochin Shipyard Limited
Tender for UCSL-Malpe Substation Shifting
UCSL/CC/T/GEN/215 Dt 11th December 2023

	meter cubicle and VCB should be suitable for coastal area				
D	Earthing				
	Providing and fixing of maintenance free Earthing system comprises of molecularly bonded copper of 99.9% purity on low carbon steel of 3m length, having a diameter of 20mm with copper bonding thickness of 250 microns with fault current withstand capability of 20 KA rms value for 1 second and I peak of 50 KA. Universal Clamp should be exothermic moulded along with earth rod. Earth enhancing mineral compound is used for improving the soil conductivity. The material shall be mineral inert to sub soil and shall not pollute the environment and non-corrosive to earth rod. The material should have a resistivity less than 0.2 Ω m. It should be free from hazardous substances The mineral compound is required to have minimum 20 Kg of the total composite. If using chemical compound min 37.5 Kg is required. Concrete earth electrode inspection chamber with heavy duty cover should be used to cover the Earth Rod.. (confirming to BS 7430).	Nos	12		
E	Plate earthing				
	Supply, Installation, testing and commissioning of earth plate of size 600 x 600 x 3mm copper plate earth electrode at a depth 3000 mm. Two copper flats of size 25 x 3 mm shall be braced to this copper plate throughout the overlapping length with the copper plate and brought to the surface of the earth pit. This plate shall have provision for connecting wires or flats as the case may be. A suitable size of 25/ 38mm dia GI pipe shall be provided up to bottom of the earth pit. This GI pipe shall have provision for watering through a funnel. A masonry structure of wall thickness of not less than 230mm shall be constructed to a depth of 450mm.	Nos	2		
F	Earth strip and wires				





Udupi Cochin Shipyard Limited
Tender for UCSL-Malpe Substation Shifting
UCSL/CC/T/GEN/215 Dt 11th December 2023

1	50X5MM Cu Strip	Mtr	150		
2	brass bolt and nut M8x30mm	No	50		
3	10SWG Bare Copper	Mtr	10		
Additional will be paid on actual measurements. Please quote for per meter cost					
G	HT Cable				
	Supply laying, testing and commissioning of 3Cx180sqmm XLPE HT Aluminium Cable through existing cable trench/Existing Cable tray (cable should be polycab)	Mtr	40		
H	HT Cable				
	Supply and installation, testing and commissioning of following End kits suitable for 3CX180qmm XLPE 11kV Aluminium Cable	Nos	As per supplied metering cubicle and VCB panel		
1	Outdoor and indoor HT End termination Kit(3M/Raychem), required from DP structure to transformer				
I	MV cable				
	Supply installation testing and Commissioning of following Medium Voltage 1.1kV XLPE Aluminium Armoured cable trough existing Duct or Trench or tray				
1	5Runx3.5CX400Sqmm XLPE AL Cable with both end cable termination by using brass double compression gland, earth clamps and aluminium tubular crimping cable lugs (cable should be polycab)	Mtr	350		
J	RTCC Panel				
1	Shifting and Installation of base Mounted RTCC Panels for Auto/manual Tap Changing Purposes	Nos	1		
2	Supply and installation of following wires and cables,DB's for control wiring of OLTC				
i	4CX1.5Sqmm Copper Round Wire	Mtr	70		
ii	2CX1.5Sqmm Copper Round Wire	Mtr	70		
iv	2CX2.5Sqmm Copper Round Wire	Mtr	70		
vii	6A SP MCB	Nos	6		
K	Bus duct				
	removing of aluminium type 2000A open type Bus duct from the existing substation and reinstallation in proposed new substation area.	Mtr	approximate 10		
L	Site made cable tray				





Udupi Cochin Shipyard Limited
Tender for UCSL-Malpe Substation Shifting
UCSL/CC/T/GEN/215 Dt 11th December 2023

	Supply installation testing and commissioning of Sitemade cable tray using 25x6mm Angle iron and 25x3mm Strip	Mtr	60		
M	Removing and reinstallation work				
1	Disconnection and Shifting and installation of 1250Kva Oil Cooled Transformer from existing to proposed substation	Nos	1		
2	Disconnection and Shifting of 2000A ACB Panel Board from existing to proposed substation and re installation in the proposed substation area	Nos	1		
7	Disconnection APFC Panel , from existing to proposed substation	No	1		
9	Installation of 800A VCB Metering panel in the Newly constructed yard	Nos	1		
11	Installation of APFC Panel in the Panel Room Area 2	Nos	1		
N	Liasoning and approval with govt agencies				
1	Coordination with MESCOM for 11 kv estimation and relocation process . liaison with central electrical authority(CEA) including preparation of approved drawing & related documentation for complete approval for the project.	Nos	Lum		
O	Other miscellaneous work				
1	Charges For Main Panel Incomer side alteration work	Lum	1		
2	Supply and installation of an additional 1250A ACB In the Existing Main panel Board for APFC by Aluminium Bus bar Extension	Lum	1		
Total					
IGST/GST @.....					
Grand Total					

Signature:
Address of the contractor:
Date:
Seal:

Note:

- 1.1. Prices are to be quoted in the Pricing Format. The quotations to be submitted in the company letter head and forwarded to contractcell@udupicsl.com
- 1.2. L1 will be determined based on the Total amount.





Udupi Cochin Shipyard Limited
Tender for UCSL-Malpe Substation Shifting
UCSL/CC/T/GEN/215 Dt 11th December 2023

ANNEXURE-VI
TECHNO COMMERCIAL CHECK LIST (To be submitted by the bidder)

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

SL No.	Tender Enquiry Requirements	Confirmation from bidder (Strike off whichever is not applicable)	Specific comments /Remarks
1	Terms & Condition, Scope of work & Indicative Quantum of Work. (Annexure-I, II & III)	Agreed as per tender /Do not agree	
2	Schedule Clause 4.1 & 4.2	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 7 of Annexure - I	Agreed as per tender/Do not agree	
8	Price shall remain firm and fixed and No Escalation in prices after awarding of contract	Agreed as per tender/Do not agree	
9	Security Deposit	Agreed as per tender/Do not agree	
10	Performance Guarantee	Agreed as per tender/Do not agree	
11	Force Majeure	Agreed as per tender/Do not agree	
12	Liquidated damages and cancellation of contract	Agreed as per tender/Do not agree	
13	Arbitration & Jurisdiction clauses	Agreed as per tender/Do not agree	
14	Confirm all other terms and conditions of our enquiry are acceptable.	Confirmed/Not confirmed	
15	Deviations from Tender conditions	No Deviations	

Signature:

Address of the Contractor:

Seal:



UNCONDITIONAL ACCEPTANCE LETTER

(Unconditional acceptance to be given by in letter head)

ACCEPTANCE OF TENDER CONDITIONS

1. Tender Document no. UCSSL/CC/T/GEN/215 dated 11th December 2023 Tender for UCSSL- pMalpe Substation Shifting at UCSSL 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,

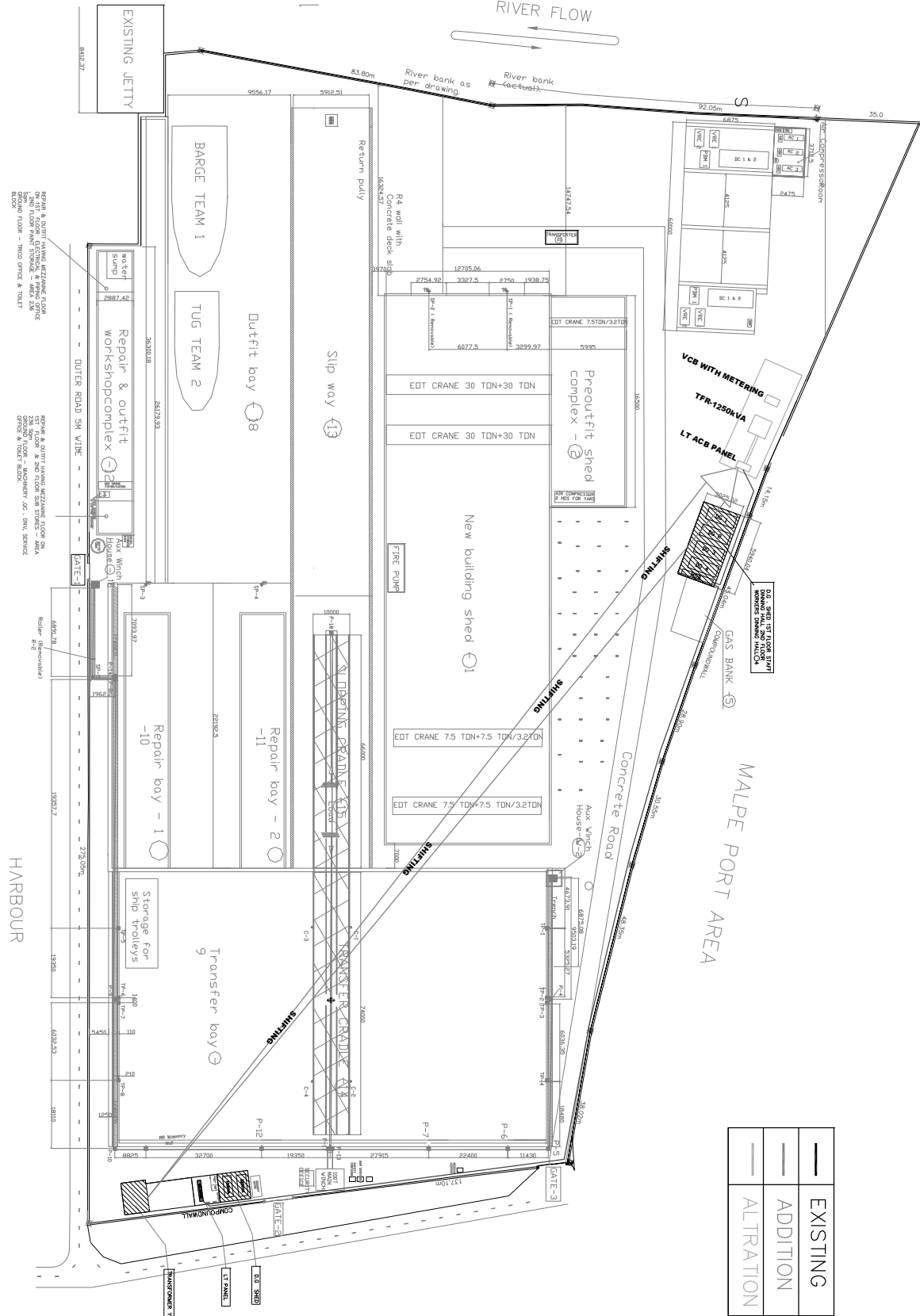
(Signature of the tenderer) with rubber stamp

Date:





PHYSICAL LAY OUT OF THE PLANT



—	EXISTING
—	ADDITION
—	ALTARATION

LEGEND:

CONTRACTOR & SUPERVISORS:

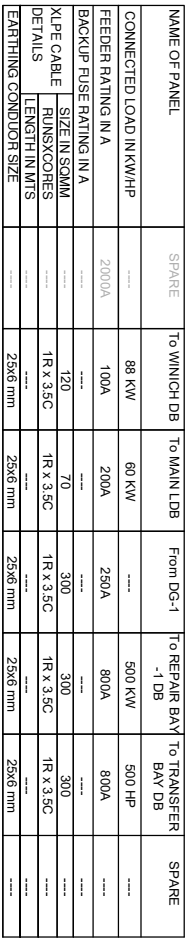
CONSUMER:

PROJECT:
UDUPI COCHIN SHIPYARD LTD - MALPE YARD



UDUPI COCHIN SHIPYARD LTD.
Corporate Office: Malpe Harbour Complex, Malpe, Taluk Chikilgaon, Taluk
Pondicherry 605 006. Phone: 0426 2200 100, Fax: 0426 2200 105, Email: info@udupicochin.com

DESIGNER	DATE	SCALE	PROJECT	DATE	PROJECT	DATE	PROJECT	DATE	PROJECT
UDUPI COCHIN SHIPYARD LIMITED	15/10/2023	AS SHOWN	UDUPI COCHIN SHIPYARD LIMITED	15/10/2023	UDUPI COCHIN SHIPYARD LIMITED	15/10/2023	UDUPI COCHIN SHIPYARD LIMITED	15/10/2023	UDUPI COCHIN SHIPYARD LIMITED

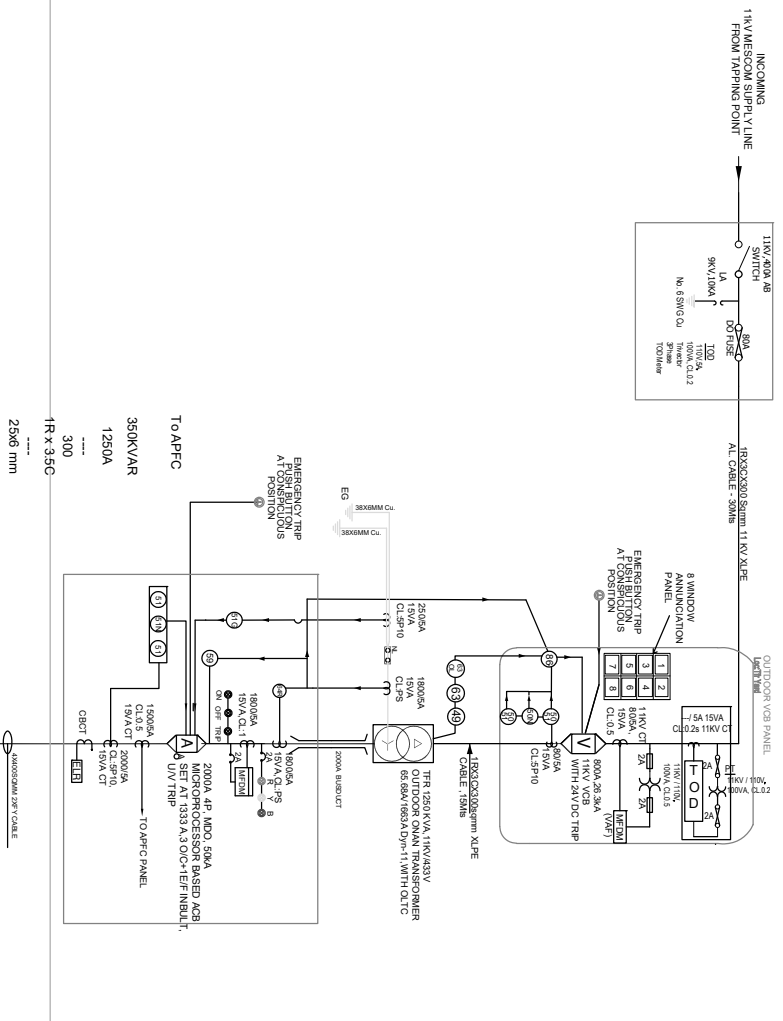


—	EXISTING
—	ADDITION
—	ALTRATION

- NOTES:**

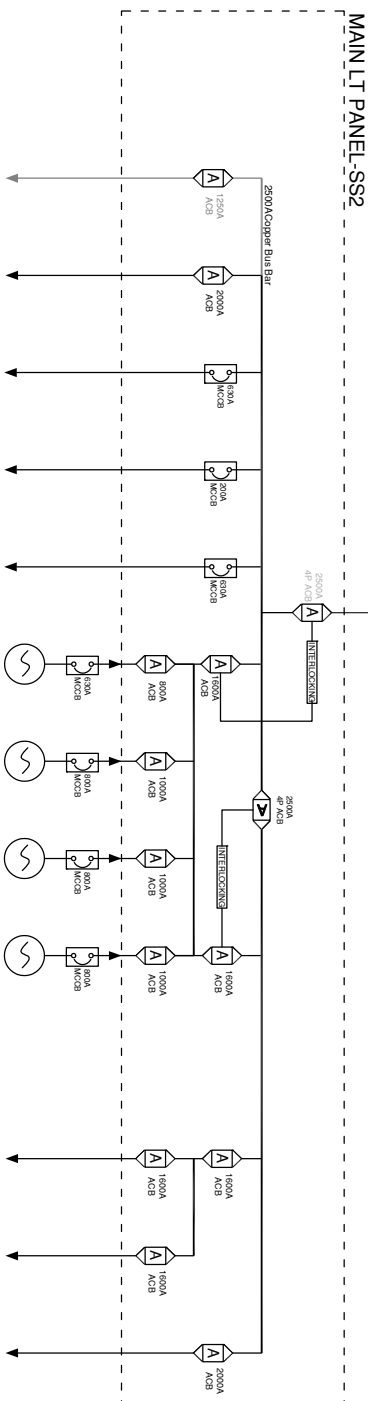
CONTRACTOR & SUPERVISORS:

SHIFTING
























1. All cables are XLPE insulated Aluminium Armoured Cables unless otherwise mentioned.
2. All equipments are double earthed with adequate size of CU or GI.
3. Suitable grade fuses will be provided in all SFU & FSUs
4. More than one equipment fed from a circuit are connected through a control panel or terminal block.
5. All lightning sub circuits are limited to 800W or 10points wired with 2Rx2.5Sq mm + 1Rx1.5Sq mm in MS conduits.
6. Working load on any feeder will be limited to the current carrying capacity of cable and that of control switch.
7. All energy consuming power apparatus connected through a starter and on isolator near as possible.
8. Earthing will be done as per IS 3043 of 2018.
9. Lighting wiring done as per IS 732 of 2019.
10. All MCCB's are 9KA breaking capacity in lighting.
11. All MCCB's are rupturing capacity 25KA.
12. Wiring above the false ceiling provided with MS conduits and earthed.
13. All single core un armoured cables are laid in metallic enclosure.
14. Protection class CT's are of suitable ratio provided in the neutral earthing circuit of transformer control ACB's and generator control MCCB's.

—	EXISTING
—	ADDITION
—	ALTRATION

[illegible]

To	To	MAIN L T PAINE
CHAMBER-1	CHAMBER-2	SSI
981 KW	1477 KW	4299KW+358KW/VAL
1600A	1600A	2000A
300	300	300
4R x 3.5C	4R x 3.5C	3R x 3.5C
25x6 mm	25x6 mm	

LEGEND	
	VCB - Vacuum Circuit Breaker
	ACB - Air Circuit Breaker
	MCCB-Moulded Case Circuit Breaker
	MCB - Miniature Circuit Breaker
	Isolator
	CP Control panel
	AMMETER
	VOLTMETER
	FREQUENCY METER
	MOTOR EQUIPMENT
	FUSE LINK
	CURRENT TRANSFORMER
	VOLTAGE SELECTOR SWITCH
	EMERGENCY PUSH BUTTON
	MASTER TRIP RELAY
	PRESSURE SWITCH RELAY
	TRANSFORMER THERMAL RELAY
	OVER VOLTAGE RELAY
	RESTRICTED EARTH FAULT RELAY
	LOW SET EARTH FAULT RELAY
	20C RELAY WITH HIGH SET ELEMENT+INSTANT E/F RELAY

CONTRACTOR & SUPERVISORS:

CONSUMER:

[illegible]

