TENDER NO: UCSL/CC/T/CIVIL/311 DT: 02-01-2025

TENDER FOR MOVABLE SHED FABRICATION & ERECTION WORK



UDUPI COCHIN SHIPYARD LIMITED MALPE, UDUPI 576108



TENDER DOCUMENT 2



UDUPI COCHIN SHIPYARD LIMITED

Tender for Movable Shed Fabrication & Erection Work UCSL/CC/T/CIVIL/311 DT: 02ND JANUARY 2025

TENDER NOTICE

Tender No. & date	UCSL/CC/T/CIVIL/311 DT: 02ND JANUARY 2025
Name of work	MOVABLE SHED FABRICATION & ERECTION WORK AT UCSL MALPE FACILITIES.
Pre-Bid Meeting	06 TH JANUARY 2025 (MONDAY), 10:30HRS
Last date & time of receipt of tender	10 th JANUARY 2025 (FRIDAY), 15:30HRS
Date & time of opening of Technical Bid (Part-I)	10 th JANUARY 2025 (FRIDAY), 15:30HRS

- 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 or through postal mode, as mentioned on or before the date and time as stipulated.
- 2. Pre-bid is mandatory and the bidders who are attending the pre-bid will only be considered for the further process for considering the bids being submitted, the bidders can also attend through online mode also, however to avail this, the bidder should send email request to <u>contractcell@udupicsl.com</u> on or before 5th January 2025.

3. 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.
- b. **The Techno commercial Check List** at Annexure VI to be filled up completely and duly signed.
- c. Duly filled form at Annexure III & 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.



TENDER DOCUMENT 3



UDUPI COCHIN SHIPYARD LIMITED Tender for Movable Shed Fabrication & Erection Work UCSL/CC/T/CIVIL/311 DT: 02ND JANUARY 2025

4. Mode of Submission of Quote:

 Bid shall be submitted as Password Protected Zip File in two parts.
Part I: Technical Bid – with all enclosures and annexures as mentioned in Para 2 above Part II: Price Bid.

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ii. The files are to be forwarded as Two (2) separate password protected Zip files to contractcell@udupicsl.com

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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.
- 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 below.
- vi. The bidders can also attend the bid opening physically at Udupi Cochin Shipyard Limited, Baputhotta Ware house complex Office, Udupi, Karnataka.
- 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.
- 5. The bidders shall ensure the receipt of bids at <u>contractcell@udupicsl.com</u> 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.
- 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.
- 7. No deviations on the tender conditions will be accepted after pre-bid meeting, 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 reserves the authority to reject the tender received without assigning any reason.
- 8. Contact Person: Mr. GIRISHA (U&M Dept) Mr. AKHIL R P (Contract Cell),

Ph No: +91 9986 977 749. Ph. No: +91 8129 624 149.



Assistant General Manager (Materials & Contract Cell)

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

Tender for Movable Shed Fabrication & Erection Work UCSL/CC/T/CIVIL/311 DT: 02ND JANUARY 2025

TERMS AND CONDITIONS

TENDER FOR FABRICATION & ERECTION OF MOVABLE SHED

1. DESCRIPTION OF WORK:

1.1.This requirement pertains to the awarding of Movable shed Fabrication and erection works including all connected hot works and to the satisfactory completion of fabrication and erection works in accordance with the requirements of UCSL.

Movable shed size: Length 8 meters x Width 18 Meters x Height 15 Meters

Number of Sheds: 7 Numbers

- TYPE 1 (Normal shed Weight) 4 Numbers (1,3,5 & 7 Typical)
- TYPE 2 (Taller Shed Weight) 3 Numbers (2,4 & 6 Typical)

Reference Documents (Drawing)

- 1.1.1. Drawing No: 001
- 1.1.2. Drawing No: 002
- 1.1.3. Drawing No: 003
- 1.1.4. Drawing No: 004
- 1.1.5. Drawing No: 005
- 1.1.6. Drawing No: 006

1.2. Scope Of Work

- Fabrication & Erection of Movable Shed 7 Numbers.
- The Fabrication work is to be carried out at the vendor location and Erection shall be done at UCSL Malpe yard.
- Transportation, loading, and unloading of all the fabricated structures and other materials are under the scope of the contractor. However, crane for unloading at UCSL will be provided by UCSL.
- Movable shed Fabrication & Erection as per the attached drawings 125 Tons (Approx) for 7 sheds. The payment will be done on the actual measurement or weight.
- Work scope of fabrication includes cleaning, Straightening/ Bending, Cutting, Drilling, Threading Welding, Fabricating, Handling, Transporting, Splicing, Fixing Assembling, and Correcting. Cost and conveyance of all materials, all accessories, hire charge of tools and plants, welding equipment cost of electrodes, cost of bolts, nuts, and washers, all labor other incidentals, etc., complete (Provision of bolt holes to be made as required at no extra cost). All as per the drawing's technical specification and as directed by the Engineer in charge.
- Fixing of rails to the foundation base plates to be done by the contractor in proper alignment and level. Rail will be supplied by UCSL
- Fixing of Roof sheets, vertical cladding sheets, ridge pieces, end flashing pieces, Gutter and drain water pipes in self-tapping screws with a **cyclone washer**.
- All structural bolts shall be grade 8.8
- Surface preparation and painting shall be done as per UCSL Specifications. This scope is part of the Vendor. Detailed procedures & specifications are given below:
 - Primer Coat: Apply two coats of anticorrosive epoxy to 200 microns min, of 2 Coats. (2x100 =200 Microns).

Tender for Movable Shed Fabrication & Erection Work UCSL/CC/T/CIVIL/311 DT: 02ND JANUARY 2025

- Finishing Coat: Apply single coat of PU coat in 50 microns. The total DFT of paint works must be 250 microns.
- Mobilization of entire labour / Workmanship (Skilled/Semiskilled/Unskilled) required for the construction of the movable shed in accordance with the specifications and drawings provided by UCSL.
- Project Execution, supervision, management, and reporting of all the tasks/activities associated with the construction of the shed as above.
- Ensuring best housekeeping practices to keep the work premises neat and clean.

THE SCOPE OF THE CONTRACTOR ALSO INCLUDES:

- Collection, Transportation/unloading of materials / other equipment in UCSL premises.
- Maintaining the required Dimensional accuracy and surface finish as per UCSL Standards.
- Providing all personnel protective items like safety helmets, gloves, welding shields, goggles, leg guards, safety belts, aprons, safety shoes, etc. to their employees.

1.3.SCOPE OF SUPPLY / WORK OF UCSL

Providing the required applicable drawings.

THE SCOPE OF UCSL ALSO INCLUDES THE SUPPLY OF THE FOLLOWING MATERIALS:

- Supply of electricity and water while erection at the UCSL site shall be provided by UCSL.
- Crane/Hydra at UCSL premises will be provided by UCSL.

1.4 INFRASTRUCTURE AND CONSUMABLES:

• Welding electrode and all other consumables such as cutting wheels, grinding wheels, cutting gas (DA and oxygen only), etc., are under the scope of the contractor.

1.5 SCOPE: PLEASE REFER BELOW

The detail BOQ for single shed:

			Per Sned
1	Structural tubular Frames: Steel work in built up tubular sections YST 310 grades as per IS: 4923 including cutting, hoisting, erecting in position, aligning the erected structures in line and level, bolting or welding wherever required required as per drawing. complete with Hot finished seamless type tubes including painting applying two coats of aliphatic acrylic PU paint over two coats of epoxy cured with aliphatic amine over two coats of epoxy phenylkamine primer, etc,	kg	15198
	closing all the open ends properly with same material, cost and conveyance of all materials, all accessories, hire charge of tools and plants, welding equipment, cost of electrodes, cost of bolts, nuts and washers all labour, other incidentals, etc. complete. (Provision of bolt holes to be made as required at no extra cost). All as per the drawings, technical specification and as directed by Engineer.	Adre	िंशप <i>याहर</i>

CONTRACT

UDUPI COCHIN SHIPYARD LIMITED

Tender for Movable Shed Fabrication & Erection Work UCSL/CC/T/CIVIL/311 DT: 02ND JANUARY 2025

Г		Rottom Room and other structural members (tructural start		
	2	bolted or welded in built up sections, trusses and framed work including cutting, hoisting, fixing in position and applying two coats of aliphatic acrylic PU paint over two coats of epoxy cured with aliphatic amine over two coats of epoxy phenylkamine primer, etc. including cost and conveyance of all materials, all accessories, hire charge of tools and plants, welding equipment, cost of electrodes, cost of bolts, nuts and washers all labour, other incidentals, etc. complete. (Provision of bolt holes to be made as required at no extra cost). All as per the drawings, technical specification and as directed by Engineer.	kg	2525
	3	End Stopper: Supplying and fabricating end stopper using Structural steel work bolted or welded in built up sections and framed work including cutting, hoisting, fixing in position and applying two coats of aliphatic acrylic PU paint over two coats of epoxy cured with aliphatic amine over two coats of epoxy phenylkamine primer, etc. including cost and conveyance of all materials, all accessories, hire charge of tools and plants, welding equipment, cost of electrodes, cost of anchor bolts, nuts and washers all labour, other incidentals, etc. complete. (Provision of bolt holes to be made as required at no extra cost). All as per the drawings and as directed by Engineer.	kg	100
	4	Supplying and fixing in position tamarind / thambogum its equivalent wooden plunger of size 350x200x150mm on end of each movable shed including cost and conveyance of all materials, cost of bolts, nuts and washers, all labour, other incidentals etc. complete.	Nos	5
-		Roofing Works		
	5	Providing and fixing precoated galvanized iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 meter or as desired by Engineer In-charge. The sheet shall be fixed using self-drilling /self-tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	Sqm	506
			100 m	13

ANNEXURE - I | 4

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Tender for Movable Shed Fabrication & Erection Work UCSL/CC/T/CIVIL/311 DT: 02ND JANUARY 2025

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6	Providing and fixing precoated galvanized steel sheet Ridges plain (500 - 600mm) 0.50 mm (+ 0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self-drilling/ self-tapping screws complete	m	9
7	Providing and fixing precoated galvanized steel sheet Gutter 600mm over all girth) 0.50 mm (+ 0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self-drilling/ self-tapping screws complete.	m	17
8	Providing and fixing precoated galvanized steel sheet Flashings/ Aprons. (Upto 600 mm) 0.50 mm (+ 0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self-drilling/ self-tapping screws complete.	m	17
9	Providing and fixing PVC rain water pipes 110 mm dia 4 kgf/cm2 to the correct line and level, using MS clamps. including cost and conveyance of all materials complete. All as directed by the Engineer.	m	65
10	Supplying and fixing forged / cast steel Idler wheel, of Size 345 mm OD X 300 mm Dia rim X 52 mm Bore X 100 mm Thick. Outer surface of Rim Hardened to 280-320 BHN up to 10 mm depth and of material conforming to IS 1570 to line and level. Including fabricating and erecting in position by welding / bolting including cost and conveyance of all materials, cost of wheels, ball bearing, bolts, nuts and washers, cost of welding rods, hire charges of welding equipments, consumables etc. complete. as per the technical specification and as directed by Engineer.	Nos	6

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TOTAL SHED REQUIRED- 7 NOS



Tender for Movable Shed Fabrication & Erection Work UCSL/CC/T/CIVIL/311 DT: 02ND JANUARY 2025

Ρ	PROVISIONAL ITEMS. THESE ITEMS SHALL NOT BE CONSIDERED FOR THE PURPOSE OF ARRIVING GRAND TOTAL AND DECIDING AT THE L 1 BIDDER.					
1	Drive Wheel assembly with forged / cast steel wheel, of Size 345 mm OD X 300 mm Dia rim X 52 mm Bore X 100 mm Thick. Outer surface of Rim Hardened to 280-320 BHN up to 10 mm depth and of material conforming to IS 1570 to line and level and Geared Motor (3 Phase, Maximum 2 HP, 6 Pole 960 RPM VFD Compatible Flange mounted Approved make Brake Motor.) Including supply, fabricating and erecting in position by welding / bolting including cost and conveyance of all materials, cost of wheels, ball bearing, gear, motor, shaft, bolts, nuts and washers, cost of welding rods, hire charges of welding equipment's, consumables etc. complete. as per the technical specification and as directed by Engineer.	Nos	4			
2	Supply, installation and commissioning of all electrical items including panels with switch gears, VFD etc complete with internal wiring and external wiring from panel to motors. Also, vendor to include multicore flexible copper stranded cable of suitable capacity of approx. Length of 30m for incoming to panel etc. complete. as per the technical specification and as directed by Engineer.	Nos	1			

TOTAL SHED REQUIRED- 7 NOS.

Fixing of rails for the shed

SI.	Item Description	UoM	Quantity	Scope of Material Supply		
NO				Vendor	UCSL	
1	Fabrication and fixing of rails in proper line and level on the foundation base plate including fixing of shim plates if required to maintain the level and all the consumables etc., complete.	Rmt	150		UCSL	

2 SCHEDULE OF COMPLETION OF MOVABLE SHED

- 2.1 Movable shed construction is required to be completed within 90 days duration from the date of issue of the Purchase Order.
- 2.2 The contractor must submit a detailed schedule of work with different stages of activities to UCSL before the commencement of work.
- Note: The above Movable shed fabrication & Erection completion date is inclusive of fixing the roof sheet and commissioning activities.

3 WORK PROGRESS AND SCHEDULE

- 3.1 The construction of the sheds shall commence and be completed as per the schedule of completion indicated art clause no. 2 above.
- 3.2 The work is urgent and hence the contractor should start the work within 7 days from the issue of workorder.

CONTRACT

UDUPI COCHIN SHIPYARD LIMITED

Tender for Movable Shed Fabrication & Erection Work UCSL/CC/T/CIVIL/311 DT: 02ND JANUARY 2025

4 ADDITIONAL WORKS

- 4.1 Any additional work up to 5% growth of work in terms of total weight/unit is to be envisaged and is to be undertaken without any additional price impact.
- 4.2 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 the commencement of the work.
- 4.3 Contractor shall carry out the complete work in accordance with Shipyard's approved drawings. Any minor modifications from drawing or any other work or supply of material, which is not specified hereunder, but is considered incidental and essential for the successful completion of the job shall be carried out by the Contractor without any additional charge.
- 4.4 Contractor shall execute, during or after completion of the work, any minor job connected with the work, that is considered necessary by Shipyard.
- 4.5 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.

5 INSPECTION

- 5.1 The complete work has to be carried out under the UCSL officer in charge.
- 5.2 Contractor to maintain the required dimensional accuracy and surface finish as per quality standards (to be provided by UCSL).
- 5.3 All works shall be as per strict compliance with weight control and approved UCSL drawings.

6 MINIMUM QUALIFICATION CRITERIA FOR PARTICIPATING IN THE TENDER WILL BE AS FOLLOWS:

6.1 The contractor shall have successfully completed of at least two heavy engineering/structural works in last 5 years from the date of issue of tender document. The value of each work should not be less than Rs. 20 lakhs. For ongoing work, relevant certification from client shall be submitted along with copy of Purchase Order.

OR

The contractor shall have successfully completed of at least three works in the field of shipyard/heavy engineering industries/ Oil & gas industries for the last 5 years from the date of issue of tender document. The value of each work should not be less than Rs. 10 lakhs. Satisfactory completion certificate from the Client for work done should be submitted along with bid. For ongoing work, relevant certification from client shall be submitted along with copy of Purchase Order.

- 6.2 The Annual Turnover of the contractor should be more than Rs. 1 Crores in each financial year for the last three preceding years. (Audited Balance sheets showing turnover, Profit & Loss account of the firm for the preceding 03 years (2020-21, 2021-22, 2022-23) should be submitted along with the application for prequalification).
- 6.3 Offers from joint ventures/consortium will not be accepted.
- 6.4 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.

Tender for Movable Shed Fabrication & Erection Work UCSL/CC/T/CIVIL/311 DT: 02ND JANUARY 2025

7 METHOD OF AWARDING CONTRACT:

- 7.1 Contract will be concluded with Bidder qualifying technically (including eligibility criteria), agreeing to Commercial conditions (Annexure VI) and emerging as L1.
- 7.2 UCSL also reserves the right to split the work orders 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.

8 VALIDITY:

8.1 The offer shall be valid for a period of 12 months and no escalation in rate shall be allowed by UCSL on whatsoever reason.

9 RATE:

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

10 PAYMENT TERMS:

10.1 Payment will be done in Two (02) stages:

STAGE-I:

- 1. 70% of the value of the total materials supplied with necessary Test Certificates/documentation, as applicable for the materials, with acceptance and certification by the UCSL-officer-in-charge.
- 2. Balance 30% of the supply value will be released, only after satisfactory completion & commissioning of the entire work and acceptance by UCSL.

STAGE-II:

- 1. 100% can be paid after satisfactory completion of the work including commissioning of sheds.
- 10.2 Payment shall be made within 30 days from the date of submission of bill and work completion certificate from the executing UCSL officer.
- 10.3 Invoice shall be submitted with necessary work completion certificate duly certified by UCSL representative on actuals.
- 10.4 Payment will be made by RTGS/NEFT to the account of Agency. The name of the bank, branch, A/C No., IFSC code & other particulars shall be furnished by the Agency in the proforma of UCSL.

11 TAXES & DUTIES:

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

12 SECURITY DEPOSIT:

12.1. The 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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UDUPI COCHIN SHIPYARD LIMITED

Tender for Movable Shed Fabrication & Erection Work UCSL/CC/T/CIVIL/311 DT: 02ND JANUARY 2025

13 PERFORMANCE GURANTEE:

13.1. The complete work carried out by the contractor shall be guaranteed against defective on poor workmanship for a period of One year from the date of completion of work, whichever is earlier. Any work found defective during this period is to be repaired entirely at the contractor's cost and such repaired items shall be guaranteed for a further period of three months from the date of repair.

CALLER &

- 13.2. Should any unsatisfactory performance and / or damage or failure occur due to poor workmanship and poor-quality material used by the contractor, the contractor shall be solely responsible for payment/reimbursement of expenditure incurred by UCSL for rectifying the defect.
- 13.3. Towards this, a performance guarantee equivalent to 5% of the value of the contract to be furnished by the contractor on completion of the works by way of a bank guarantee (in approved proforma of UCSL) from a nationalized bank valid till the expiry of the guarantee period. In case the contract fails to submit the PG in time, SD mentioned at Clause 12 will be retained till the expiry of guarantee period.

14 LIQUIDATED DAMAGES:

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

15 POWER OF ATTORNEY:

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

16 TERMINATION & LIMITATION OF LIABILITY:

- 16.1. This contract may be terminated upon the occurrence of any of the following events
- 16.2. By agreement in writing of the parties hereto;
- 16.3. By the non-defaulting party, upon default by the other party, of any clause of this contract, if not remedied within fifteen (15) days, or such longer time as may be

Tender for Movable Shed Fabrication & Erection Work UCSL/CC/T/CIVIL/311 DT: 02ND JANUARY 2025

agreed upon by the parties, after receipt of notice thereof in writing from the nondefaulting party;

- 16.4. By the other party, upon either party;
 - i. Making the assignment for the benefit of creditors, being adjudged a bankrupt or becoming insolvent; or
 - ii. Having a reasonable petition filed seeking its' dissolution or liquidation, not stayed or dismissed within sixty (60) days; or
 - iii. Ceasing to do business for any reason.
- 16.5. For fraud and corruption or other unacceptable practices.
- 16.6. Upon expiry or termination of this Contract, neither party shall be discharged from any antecedent obligations or liabilities to the other party under this Contract unless otherwise agreed in writing.
- 16.7. UCSL may by notice in writing to Agency to terminate the order after issuing due notice i.e., 30 days' notice period. UCSL shall be entitled to compensation for loss limited to the order value.
- 16.8. Liability maximum that can be claimed by the Agency shall be limited to what is due to be and has been paid by UCSL for work done as per the payment milestones and limited to work order value.

17 ARBITRATION & JURISDICTION:

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

18 SUB CONTRACTING AND ASSIGNMENT:

- 18.1. Contractor shall not assign or transfer the Purchase Order/ Work Order or any share or interest therein in any manner or degree to any third party without the prior written consent of UCSL.
- 18.2. Contractor shall not contract with any subcontractor and/or vendor without the prior written consent of UCSL. Such consent shall not relieve the Contractor from

Tender for Movable Shed Fabrication & Erection Work UCSL/CC/T/CIVIL/311 DT: 02ND JANUARY 2025

any of his responsibilities and liabilities under the Purchase Order/ Work Order. In addition, Contractor shall ensure that the terms and conditions of any such contract shall comply with and correspond to the terms and conditions of the Purchase Order/ Work Order.

19 SECRECY & RESTRICTION ON INFORMATION TO MEDIA:

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

20 CANCELLATION OF ORDER AND RISK CONTRACTING:

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

21 FORCE MAJEURE

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

22 IMS GUIDELINES:

- 22.1. UCSL implemented an Integrated Management System (IMS) and the Quality Management System (QMS) within the yard. As part of IMS, subcontractors shall comply with the following measures related to the Quality, Health, and Safety & Environment (QHSE) policy of UCSL.
 - a) Meeting or exceeding customer requirements.
 - b) Assuring quality of the products and service.
 - c) Preventing occupational ill health & injuries.
 - d) Ensuring safe work sites.
 - e) Conserving natural resources.
 - f) Preventing / minimizing air, water & land pollution.
 - g) Handling and disposal of Hazardous wastes safely.
 - h) Complying with statutory & regulatory and other requirements.
 - i) Developing skills and motivating employees.
- 22.2. 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

Tender for Movable Shed Fabrication & Erection Work UCSL/CC/T/CIVIL/311 DT: 02ND JANUARY 2025

requirements of the established Integrated Management System (IMS) of the company.

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

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

24 LABOUR LAWS AND REGULATIONS:

- 24.1. The Agency shall undertake and execute the work with contract Labor only after taking license from the appropriate authority under the Contract Labor (Regulation & Abolition) Act 1970.
- 24.2. The Agency shall observe and comply with the provisions of all labour and industrial laws and enactments and shall comply with and implement the provisions of the Factories Act, 1948, Employees Provident Funds & Miscellaneous

Tender for Movable Shed Fabrication & Erection Work UCSL/CC/T/CIVIL/311 DT: 02ND JANUARY 2025

Provisions Act, 1952, Employees State Insurance Act, Payment of Gratuity Act, minimum Wages Act, Payment of Bonus Act, Contract Labour (Regulation and Abolition) Act and all other enactments as are applicable to him and his workmen employed by him. The Agency shall inform UCSL his license number from the Central Labour Commissioner.

- 24.3. 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.
- 24.4. The Agency shall submit the Labour Reports/Returns as required by the Company from time to time in respect of their workmen in standard format to the concerned contracting officer so as to enable the same to reach Contract cell by the 5th of every month. Delayed submission of the same shall attract penal interest /damages at the rate as levied by the respective authorities under the relevant Acts.
- 24.5. The Agency shall maintain the records viz. Muster Roll, Acquittance Roll with full details, Account books etc., in original. These are required for inspection by the concerned authorities under each scheme.
- 24.6. If the Agency fails to pay any contributions, charges or other amounts payable under any of the aforementioned provisions of law, UCSL shall deduct or adjust amounts equivalent to such contribution, charges or amounts from amount payable to him by UCSL, including any deposit or amounts payable against bills and make payments on his account to the appropriate authority. He shall not be entitled to question or challenge such deductions, adjustments or payment made by UCSL.
- 24.7. Any other amount payable under any law or in respect of any person employed by the Agency, if not paid by him, shall be deducted or adjusted by UCSL out of any amount payable to the Agency including any Security Receipt and paid ever or withheld for payment by UCSL.
- 24.8. The Agency shall be fully responsible for the conduct and discipline of the workmen employed by him in the Company premises. If such workmen commit any misconduct or criminal act inside the Company, the Agency shall take appropriate action against such workmen. The Agency shall abide by the instructions/ guidelines issued by the Company for maintenance of discipline and good conduct among the workmen employed by him.
- 24.9. All persons who are engaged for various works in UCSL either directly or through Agency/contractors, should produce the following documents prior to issuing their entry passes:
- 24.10. Passport/Aadhaar attested copy of passport with photo and address particulars.

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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.)

- 24.11. 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.
- 24.12. Agency shall familiarize themselves with the labour rules & regulations?

Tender for Movable Shed Fabrication & Erection Work UCSL/CC/T/CIVIL/311 DT: 02ND JANUARY 2025

25 OVERWRITING & CORRECTIONS:

25.1. 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.

26 PROVISION FOR PENALTY:

- 26.1. In case of any theft, pilferage, loss or damage to any UCSL materials, equipment or accessories, the Company at its sole discretion, will be entitled to recover cost of such item as per market rates or estimated cost of loss/damage/pilferage from the bill of the contractor and the same will be binding on the Contractor.
- 26.2. Non-compliance of statutory requirements shall attract a penalty of Rs. 2500/- per instance and shall be deducted from the monthly bill.
- 26.3. Imposing of penalty in a particular month shall be informed to contractor by Engineer-in charge/AGM. For all of the above points, one appeal against such decisions will be permissible and will be placed before Engineer in Charge/AGM, whose decision shall be final and binding on the Contractor.
- 26.4. Penalty (if any) shall be applicable only to the contractor and should not affect the salaries of the workforce.

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 Agency while working at UCSL premises. The Agency 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 Agency at his cost or proportional recoveries will be made from the Agency while passing their bills for payment.
- 27.7. 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.
- 27.8. The service provider shall also be governed by the General Conditions of Contract of UCSL, General Safety Rules and other relevant labour laws.
- 27.9. The upper age limit of all workers and supervisors employed by the Agency and those Agency who do or supervise the job themselves shall be as per the prevailing rules of UCSL and shall comply to the requirements of this tender.
- 27.10. Assistant General Manager, or his authorized representative will be the Officer-incharge of these contracts.

Tender for Movable Shed Fabrication & Erection Work UCSL/CC/T/CIVIL/311 DT: 02nd January 2025

TECHNICAL SPECIFICATIONS

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FABRICATION, SUPPLY AND ERECTION WORKS OF 7 NOS MOVING SHED OF SIZE: LENGTH 8 METERS X WIDTH 18 METERS X HEIGHT 15 METERS

1. INTRODUCTION:

1.1. The work involves Structural steel works, colored GI roof sheeting, painting works, supply and fixing of wheels etc. for movable sheds. This specification covers the general scope of work of structural steel works, submittals by the Contractor, applicable codes of practice for structural steel work and the specifications for the materials to be used, including steel, bolts & nuts, washers etc. and the storage thereof. It shall be clearly understood that the drawings in the tender and issued to the contractor will be concept drawings only. It is highlighted that structural steel member dimensions indicated in tender drawings are tentative only, and may be modified during final design stage. The typical details of connection, cuts, gusset plate shapes notches, bends, etc. were shown in the drawings are only for general guidance of the contractor. The contractor shall do the detailed design and develop all such details based on these concept drawings.

2. SCOPE OF WORKS

- 2.1. Preparation of complete detailed design, calculations and detailed shop fabrication drawings based on the concept drawings and submit for approval.
- 2.2. Submission of revised design, with calculations and detailed fabrication drawings, in case any substitution of the designed sections is required after review by Engineer in charge.
- 2.3. The contractor shall submit complete design calculations for any alternative sections proposed by him, for approval of the Engineer-in-charge. Use of any alternative section shall be subject to approval of the Engineer-in-charge. However, no extra payment will be entertained on this account
- 2.4. No detailed shop drawings will be accepted for examination by the Engineer-incharge unless these have first been completely checked and vetted by the contractor's qualified structural engineer. The qualified Structural Engineer Should be M. E /M tech in structural engineering with minimum 5 years' experience and must have handled structural design of steel structures. The structural engineer should certify the structural soundness and safety/stability of the moving shed structures.
- 2.5. Procurement and testing of all raw structural steel materials in lots for fabrication taking into account wastage margin etc., including storage and upkeep of the materials.
- 2.6. Providing all materials, labour, tools & plant and equipment's and all types of consumables required for fabrication using Metal Arc welding or as mentioned in approved fabrication drawing including all necessary bolts, nuts, washers with wastage margins.
- 2.7. Fabrication of the steel works in accordance with the approved fabrication drawings, including all shop assembling, matching and marking. Design, manufacture/fabrication and provision of all jigs, fixings, manipulators etc. required for the fabrication are included in item.
- 2.8. Suitably marking, bundling and packing for transport of all fabricated materials.
- 2.9. Preparing and furnishing detailed bill of materials, drawing Office dispatch lists, Bolts Lists and any other lists of bought out items as applicable and desired by Engineer-in charge required in connection with the fabrication of the steelwork.
- 2.10. Loading and transporting all fabricated steelwork and field connection materials including site unloading and erection of moving shed structure in final position with all bolts, nuts, insert plate etc.

Tender for Movable Shed Fabrication & Erection Work UCSL/CC/T/CIVIL/311 DT: 02nd January 2025

- 2.11. To submit the methodology & procedure for erection of moving shed structure compatible with the details of fabrication. Also, complete drawings & phase wise instructions for all the activities required to erect steel structure in final position, shall be submitted.
- 2.12. Erection at site in position with proper level and alignment of movable shed
- 2.13. The contractor shall provide general assistance during complete erection for solving any problem related to fabrication or site assembling of the structural steelwork. The contractor shall ensure the presence of the qualified and experienced site Engineer during complete erection work at site.
- 2.14. All major/ minor modifications of the fabricated steel structures, as directed by the Engineer-incharge, including but not limited to the following:
 - i. Removal of bends, kinks, twists etc. for parts damaged during transportation and handling.
 - ii. Cutting, chipping, filling, grinding etc. if required or preparation and finishing of site connections.
 - iii. Reaming of holes for use of higher size bolt if required.
 - iv. Re-fabrication of parts damaged beyond repair during transport and handling or refabrication of parts which are incorrectly fabricated.
 - v. Fabrication of parts omitted during fabrications by error, or subsequently found necessary. Drilling of holes which are either not drilled at all or are drilled in incorrect location during fabrication.
 - vi. Carry out tests in accordance with the related Specification which will be inspected by Engineer-in-charge.
 - vii. Details of erection equipment machinery including capacity & specifications, tools, tackles etc. to be used for erection purpose.
 - viii. All procedures and tests on welds as per specifications and welded parts to ensure the strength requirements of joints.
- 2.15. To provide the Guarantee against damage or failure due to defects in material and workmanship and workmanship during the defect liability period of 12 months. In the event of damage or failure occur within that period, manufacturer shall replace or repair the defective parts at his cost.

3. DRAWINGS/DOCUMENTS TO BE SUBMITTED TO UCSL FOR REVIEW AND APPROVAL:

The Contractor, within one month of issue of work order by UCSL and prior to commencement of fabrication, shall submit the following in three sets:

- 3.1. Prior to the technical submittals, the contractor shall submit detailed baseline program & methodology indicating the proposed overall schedule for documentation such as calculations, material procurement schedule based on availability with approved suppliers, shop/working drawings, plan/ procedures and records.
- 3.2. Submission of samples, inspection by Engineer-in Charge, process of fabrication/ delivery to site storage yard/ erection site for the approval of the Engineer-in-charge.
- 3.3. Complete detailed design, calculations and detailed shop fabrication drawings prepared, checked and vetted by the contractor's qualified structural engineer.
- 3.4. Revised design, with calculations and detailed fabrication drawings, in case any substitution of the designed sections is required after review by Engineer in charge
- 3.5. Certification from the structural engineer for the structural soundness and safety/stability of the moving shed structures.
- 3.6. Quality Assurance Plan
- 3.7. Bill of materials, cutting lists, bolt lists, welding schedules and Quality Assurance schedules, etc.
- 3.8. Results of any tests, as and when conducted and as required by the Engineer-incharge.



Tender for Movable Shed Fabrication & Erection Work UCSL/CC/T/CIVIL/311 DT: 02nd January 2025

- 3.9. Manufacturer 's mill test reports/certificates in respect of steel materials, bolts, nuts and electrodes, wires as may be applicable.
- 3.10. The Contractor shall furnish three (3) copies of all erection drawings showing the mark numbers with weights of the various items to be assembled at site, special welding electrodes and welding techniques and erection instructions.
- 3.11. A detailed list of all constructional Plant & Equipment, such as hydra, derricks, winches, welding sets, etc. he will employ on the job to maintain the progress of work in accordance with the contract.
- 3.12. Complete scheme with drawings for the erection of steel structures.

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- 3.13. Make and type of all major components.
- 3.14. In addition, the Engineer /or his authorized representative may ask for submission of any other drawings, documents.

4. MATERIAL SPECIFICATIONS:

A. STEEL WORKS

The steel work in single section of R.S. joists, flats, Tees Angles fixed independently with or without connecting plate, is described in these clauses.

1. Fabrication

The steel sections as specified shall be straightened and cut square to correct lengths and measured with a steel tape. The cut ends exposed to view shall be finished smooth. No two pieces shall be welded or otherwise jointed to make up the required length of member. All straightening and shaping to form, shall be done by pressure. Bending or cutting shall be carried out in such a manner as not to impair the strength of the metal.

2. Painting

All surfaces which are to be painted, oiled or otherwise treated shall be dry and thoroughly cleaned to remove all loose scale and loose rust. Surfaces not in contact but in accessible after shop assembly, shall receive the full specified protective treatment before assembly. This does not apply to the interior of sealed hollow sections. Part to be encased in concrete shall not be painted or oiled. Painting as per specification shall be applied before any member of steel structure are placed in position or taken out of workshop. Painting shall be done as indicated below.

2.1. Surface Preparation

Blast Abrasive Cleaning to Sa2.5 Swedish Standard. Solvent cleaning to be done in case of any oil stains on the surface.

2.2. Primer

Two pack epoxy Phenylkamine Primer with min Vol. Sold of 63% to give 100 mic DFT per cost having salt spray resistance of 1500 hrs Epilux FRX A/C Coating of Berger or equivalent.

2.3. Intermediate

Two pack epoxy cured with aliphatic amine and having a min vol. solids of 85% to give DFT of 150 microns in single coat. The product must possess 2000 hrs of salt Spray resistance. Epilux 950 Super HB Coating of Berger or equivalent.

2.4. Finish

Two pack aliphatic acrylic PU paint with a min vol solids of 52% and giving a DFT of 50 microns. Product should have 80% gloss level after 1000 hrs of exposure to UV B Lamp. BR ACR PU High Gloss Enamel of Berger or equivalent.

3. Erection

Steel work shall be hoisted and placed in position carefully without any damage to itself and other building work and injury to workmen. Mechanical appliances such as lifting tackle winch etc. shall be used wherever necessary. The suitability and capacity of all plant and equipment used for erection shall be upto the satisfaction of the Engineer.

Tender for Movable Shed Fabrication & Erection Work UCSL/CC/T/CIVIL/311 DT: 02nd January 2025

4. Measurements:

The work as fixed in place shall be measured in running meters correct to a millimeter and weights calculated on the basis of standard tables correct to the nearest kilogram. The standard weight of steel sections shall conform to IS 808 with tolerance in sizes as per IS 1852. Steel sections shall be acceptable within tolerance limits. Payment for steel sections shall be made as per actual weight within tolerances. Sections having weight on higher side than permissible tolerance, may be acceptable but payment shall be made on the basis of standard weight only. Steel sections having weight variations lower side than permissible variation shall not be acceptable.

Unless otherwise specified, weight of cleats, brackets, packing pieces, bolts, nuts, washers, distance pieces, separators, diaphragm gussets (taking overall square dimension) fish plates, etc. shall be added to the weight of respective items. In riveted work allowance is to be made for weight of rivet heads.

Unless otherwise specified an addition of 2.5% of the weight of structure shall be made for shop and site rivet heads in riveted steel structures.

No deduction shall be made for rivet/ or bolt holes (excluding holes for anchor or holding down bolts).

Deduction in case of rivet or bolt hole shall however be made if its area exceeds 0.02 sqm.

The weight of steel sheets, plates and strips shall be taken from relevant Indian standards based on 7.85 Kg/m2 for every millimeter sheet thickness. For rolled sections, steel rods and steel strips, weight given in relevant Indian Standards shall be used.

5. Steel Work in Built Up Section (Welded):

The steel work in built up sections (welded) such as in trusses, form work etc. is specified in this clause.

5.1 Laying out

A figure of the steel structure to be fabricated shall be drawn on a level platform to full scale. This may be done in full or in parts, as shown on drawings or as directed by the Engineer-in-Charge. Steel tape shall be used for measurements.

5.2 Fabrication

Fabrication shall generally be done as specified in IS 800. In major works or where so specified, shop drawings giving complete information for the fabrication of the component parts of the structure including the location, type, size, length and details or rivets, bolts or welds, shall be prepared in advance of the actual fabrication and approved by the Engineer-in-charge. The drawings shall indicate the shop and field rivets, bolts and welds. The steel members shall be distinctly marked or stenciled with paint with the identification marks as given in the shop drawings. Great accuracy shall be observed in the fabrication of various members, so that these can be assembled without being unduly packed, strained or forced into position and when built up, shall be true and free from twist, kinks, buckles or open joints. Wooden or metal sheet templates shall be made to correspond to each member, and position of rivet holes shall be marked accurately on them and holes drilled. The templates shall then be laid on the steel members, and holes for riveting and bolting marked on them. The ends of the steel members shall also be marked for cutting as per required dimensions. The base of steel columns and the positions of anchor bolts shall be carefully set out at the required location. The steel section shall be straight or to be straightened or flattened by pressure unless required to be of curvilinear form and shall^{AC}

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Tender for Movable Shed Fabrication & Erection Work UCSL/CC/T/CIVIL/311 DT: 02nd January 2025

free from twists. These shall be cut square either by shearing or sawing to correct length and measured by steel tape. No two pieces shall be welded or joined to make up for the required length of member. Holes shall only be used for the bolts used for temporary fastening as shown in drawings.

5.3 Welding:

Welding shall generally be done by electric arc process as per IS 816 and IS 823.

The electric arc method is usually adopted and is economical. Where electricity for public is not available generators shall be arranged by the contractor at his own cost unless otherwise specified. Gas welding shall only by resorted to using oxyacetylene flame with specific approval of the Engineer-in-charge. Gas welding shall not be permitted for structural steel work Gas welding required heating of the members to be welded along with the welding rod and is likely to create temperature stresses in the welded members. Precautions shall therefore be taken to avoid distortion of the members due to these temperature stresses. The work shall be done as shown in the shop drawings which should clearly indicate various details of the joint to be welded, type of welds, shop and site welds as well as the types of electrodes to be used. Symbol for welding on plans and shops drawings shall be according to IS 813. As far as possible every effort shall be made to limit the welding that must be done after the structure is erected so as to avoid the improper welding that is likely to be done due to heights and difficult positions on scaffolding etc. apart from the aspect of economy. The maximum dia of electrodes for welding work shall be as per IS 814. Joint surfaces which are to be welded together shall be free from loose mill scale, rust, paint, grease or other foreign matter, which adversely affect the quality of weld and workmanship.

Precautions: All operation connected with welding and cutting equipment shall conform to the safety requirements given in IS 818 for safety requirements and Health provision in Electric and gas welding and cutting operations.

Inspection and testing of welds shall be as per IS 822.

Assembly: Before welding is commenced, the members to be welded shall first be brought together and firmly clamped or tack welded to be held in position. This temporary connection has to be strong enough to hold the parts accurately in place without any disturbance. Tack welds located in places where final welds will be made later shall conform to the final weld in quality and shall be cleaned off slag before final weld is made.

5.4 Erection

Steel members shall be hoisted and erected in position carefully, without any damage to itself, other structures and equipment and injury to workmen. The method of hoisting and erection proposed to be adopted by the contractor shall be got approved from the Engineerin-charge in advance. The contractor however shall be fully responsible for the work being carried out in a safe and proper manner without unduly stressing the various members and proper equipment such as derricks, lifting tackles, winches, ropes etc. shall be used.

The work of erection may be done in suitable units as may be directed by the Engineering-Charge. Fabricated members shall be lifted at such points so as to avoid deformation or excessive stress in members. The structure or part of it placed in position shall be secured against over-turning or collapse by suitable means. During execution, the steel members shall be securely bolted or otherwise fastened, when necessary, temporarily braced to provide for all loads including those due to erection equipment's and its operation to be carried safely by structure during erection. The steel members shall be placed in proper position as per approved drawing, final riveting or permanent bolting shall be done only after proper alignment has been checked and confirmed.

Trusses shall be lifted only at nodes. The trusses above 10 m in span shall not be lifted by slinging at two mid points of rafters, which shall be temporary braced by a wooden member.

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Tender for Movable Shed Fabrication & Erection Work UCSL/CC/T/CIVIL/311 DT: 02nd January 2025

of a suitable section. After the trusses are placed in position, purlins and wind bracings shall be fixed as soon as possible. The end of the truss which faces the prevailing winds shall be fixed with holding down bolts, and the other end kept free to move. In case of trusses of spans upto 10m the free end of the truss shall be laid on lead sheet or steel plate as per design, and the holes for holding down bolts shall be made in the form of oblong slots so as to permit the free movements of the truss end. For larger spans the truss shall be provided with proper bearing as per design. Columns and stanchions shall be erected truly vertical with the necessary cross bracing etc. and the base shall be properly fixed with the base beam as per drawing.

While erecting a welded structure adequate means shall be employed for temporary fastening the members together and bracing the frame work until the joints are welded. Such means shall consist of applying of erection bolts, tack welding or other positive devices imparting sufficient strength and stiffness to resist all temporary loads and lateral forces including wind. Owing to the small number of bolts ordinarily employed for joints which are to be welded, the temporary support of heavy girders carrying columns shall be specially attended.

Different members which shall be fillet welded, shall be brought into as close contact as possible. The gap due to faulty workmanship or incorrect fit if any shall not exceed. 1.5 mm if gap exceeds 1.5 mm or more occurs locally the size of fillet weld shall be increased at such position by an amount equal to the width of the gap.

5.6 Erection marking

Each fabricated member whether assembled prior to dispatch or not so assembled, shall bear an erection mark, which will help to identify the member and its position in respect of the whole structure, to facilitate re-erection at site. These erection marks shall be suitably incorporated in the shop detail and erection drawings.

5.7 Quality Control

To ensure good quality of workmanship the Contractor shall control the fabrication and assembly of structures as per the procedure outlined below. The Contractor shall routine check execution of established technological processes or general technological instructions. All welds shall be visually examined and measured for external dimensions by appropriate gauges. The Contractor shall conduct tests in accordance with the following norms:

1. Visual examination - hundred percent (100%) of the welded joints.

2. Dye penetration test.

5.7.1. Visual examination

The Contractor shall conduct visual examination and measurement of the external dimensions of the weld for all joints. Before examining the welded joints, areas close to it on both side of weld for a width not less than 20mm shall be cleaned of slag and other impurities. Examination shall be done by a magnifying glass which has a magnification power of ten (10) and measuring instrument which has an accuracy of +0.1mm or by weld gauges. The Contractor shall examine the following during the visual checks.

- i. Correctness and shape of the welded joints
- ii. Incomplete penetration of weld metal
- iii. Influx
- iv. Burns
- v. Unwelded craters
- vi. Under cuts
- vii. Cracks in welded spots and heat affected zones
- viii. Porosity in welds and spot welds



Tender for Movable Shed Fabrication & Erection Work UCSL/CC/T/CIVIL/311 DT: 02nd January 2025

- ix. Compression in welded joints as a result of electrode impact while carrying out contract welding
- x. Displacement of welded element.

The Contractor shall document all data as per sound laboratory practices.

5.7.2. Mechanical test

The Contractor shall carry out various mechanical tests to determine weldability, nature of break, correct size and type of electrodes, degree of preheat and post-heat treatment etc. The type, scope and sample of various mechanical tests shall be determined in agreement with the Client / Consultant. The number of tests conducted shall depend on the results obtained to satisfy the Client that the correct type and size of electrode, degree of preheating and post-heating and weldability of different metal are being followed.

Dye penetration test

The basic stages shall comprise surface preparation, application of penetrant, excess penetrant removal, developer application and inspection. The entire weld joint shall be subjected to dye-penetration test as per IS 3658 and the minimum acceptance standards shall be as outlined therein.

5.8 Inspection and Testing:

The Client/Consultant shall have free access at all reasonable times to the Contractor's works where the fabrication of steelwork is carried out and shall be afforded all reasonable facilities by the Contractor for satisfying himself that the fabrication is being undertaken in accordance with the provisions of the drawings and specifications.

The Contractor shall continuously inform the Client/ Consultant of the progress in fabrication and as to when items will be ready for inspection. The Contractor shall give a minimum of fourteen (14) working days' notice to the Client /Consultant for inspection of the items.

Unless directed otherwise, inspection shall be made at the place of manufacture prior to dispatch. Should any structure be found not to comply with any of the provisions of this specification, it shall be liable for rejection. No structure or part of the structure, once rejected shall be re-submitted for inspection/test, except in cases where the Client/Consultant considers the defect as rectifiable. Defects which may appear during fabrication shall be made good with the consent of and according to the procedure laid down by the Client/Consultant. All gauges and templates necessary to satisfy the Client/Consultants shall be supplied by the Contractor. The Client/Consultant may, at his discretion, check the test results obtained at the Contractor's work by independent tests at the government test house or elsewhere and the costs of such tests shall be borne by the Contractor.

Marking, Packing and Dispatching

Each piece shall be distinctly marked before delivery, in accordance with the approved marking diagram and shall bear such other marks as will facilitate erection. For easy identification at site a small distinguishing mark for each building shall be painted on each end of every member dispatched from fabrication shop. The fabricated steel work shall be dispatched by the Contractor in such portions as may be found convenient for erection or as ordered by the Client/Consultant to meet the time schedule. All projecting plates or bars and all ends of members at joints shall be stiffened, all straight bars and plates shall be bundled, all screwed ends and machined surfaces shall be suitably packed and all bolts, nuts, washers and small loose parts shall be packed separately in boxes so as to prevent damage or distortion during transit.



Tender for Movable Shed Fabrication & Erection Work UCSL/CC/T/CIVIL/311 DT: 02nd January 2025

5.9 Storing and handling of materials

The fabricated materials on receipt at site shall be carefully unloaded, examined for defects, checked, stored out for each building and stacked securely on skids above level ground. The ground shall be kept clean and properly drained. Girders and beams shall be placed upright and stored. Long members, such as columns and chords, shall be supported on skids, placed near enough to prevent damage from deflection. The fabricated material shall be verified with respect to markings on the marking plan or hipping lists supplied by the fabricator. Any material found damaged or defective shall be stacked separately and the damaged or defective portions shall be identified by painting in distinct colour. Such materials shall be dealt with as instructed by the Client/Consultant.

The handling and storing of the component parts of a structure shall involve the use of method and appliance not likely to produce damage by twisting, bending or otherwise deforming the metal. No member slightly bent or twisted shall be put in place until the defects are corrected and members seriously damaged in handling shall be rejected.

All small bends or twists received by members shall be rectified before such members are put in place, any serious bends or damage shall be reported at once to the Client/Consultant by the Contractor for instructions. The straightening of bent edges of plates, angles and other shapes shall be done by methods not likely to produce fracture or other injury. Following the completion of straightening of a bend or buckle, the surface of the metal shall be carefully inspected by the Contractor for evidence of any defects.

6. Tubular / Hollow Section Trusses:

6.1 Structural Steel Tube

These shall be of:

- 1. Hot finished welded (HFW) type, or
- 2. Hot finished seamless (HFS) type, or
- 3. Electric resistance or induction butt welded (ERW), YST 310

Conforming to the requirement of IS 1161. Tubes shall be designed by their nominal bore. These shall be light, medium or heavy as specified depending upon the wall thickness. They shall be free from cracks, surface flaws, laminations and other defects. The ends shall be cut clean and square with axis of tube, unless otherwise specified.

6.2 Minimum Thickness of Metals

Wall thickness of tubes used for construction exposed to weather shall be not less than 4 mm and for construction not exposed to weather it shall be not less than 3.2 mm where structures are not readily accessible for maintenance, the minimum thickness shall be 5 mm.

6.3 Fabrication

The component parts of the structure shall be assembled in such a manner that they are neither twisted nor otherwise damaged and be so prepared that the specified cambers, if any, are, maintained. The tubular steel work shall be painted with one coat of approved steel primer after fabrication. All fabrication and welding is to be done in an approved workshop. The joint details shall be generally as per S.P-38 of B.I.S publication.

6.4 Straightening

All material before being assembled shall be straightened, if necessary, unless required to be of curvilinear form and shall be free from twist.



Tender for Movable Shed Fabrication & Erection Work UCSL/CC/T/CIVIL/311 DT: 02nd January 2025

6.5 Bolting

Washers shall be specially shaped where necessary, or other means, used to give the nuts and the heads of bolts a satisfactory bearing.

In all cases, where the full area of the bolts is to be developed, the threaded portion of the bolt shall not be within the thickness of the parts bolted together and washers of appropriate thickness shall be provided to allow the nuts to be completely tightened.

6.6 Welding

Where welding is adopted, it shall be as per IS 816

6.7 Caps and Bases for Columns

The ends of all the tubes, for columns transmitting loads through the ends, should be true and square to the axis of the tubes and should be provided with a cap or base accurately fitted to the end of the tube and screwed, welded or shrunk on. The cap or base plate should be true and square to the axis of the column.

6.8 Sealing of Tubes

When the end of a tube is not automatically sealed by virtue of its connection be welding to another member the end shall be properly and completely sealed. Before sealing, the inside of the tubes should be dry and free from loose scale

6.9 Flattened Ends

In tubular construction the ends of tubes may be flattened or otherwise formed to provide for welded. Riveted or bolted connections provide that the methods adopted for such flattening do not injure the material. The change of sections shall be gradual.

6.10 Hoisting and Erection

Tubular trusses shall be hoisted and erected in position carefully, without damage to themselves, other structure, equipment and injury to workman. The method of hoisting and erection proposed to be adopted shall be got approved from the Engineer-in-charge. The contractor shall however be fully responsible, for the work being carried out in a safe and proper manner without unduly stressing the various members. Proper equipment such as derricks, lifting tackles, winches, ropes etc. shall be used.

6.11 Measurements

The work as fixed in place shall be measured in running meters correct to a centimeter on their weights calculated on the basis of standard tables correct to the nearest kilogram unless otherwise specified. Weight of cleats, brackets, packing pieces bolts nuts, washers distance pieces separators diaphragm gussets (taking overall square dimensions) fish plates, etc. shall be added to the weight of respective items unless otherwise specified. No deduction shall be made for skew cuts.

7. Corrugated Galvanized Steel Sheet Roofing

Providing and fixing Profiled sheets made out of 0.50mm TCT 240Mpa 120 GSM colour coated galvanized sheets with organic coating of 20 Microns Polyester coating of approved Colour on the top over 5 Microns primer and 5 Microns back up epoxy coating at the bottom over 5 Microns primer. These sheets will be in hi-rib profile with 28mm crest height in 195mm pitch with 975mm covered width and length can be up to a maximum of 12mtrs. These sheets will be fixed to the purlins with hot dipped galvanized imported self-drilling fasteners with EPDM Washers for perfect sealing. All the joints will be sealed with sealants and stitched with stitching screws wherever necessary. Size, shape and pitch of corrugation as approved by Engineer but excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.

Tender for Movable Shed Fabrication & Erection Work UCSL/CC/T/CIVIL/311 DT: 02nd January 2025

7.1 Scope

The scope of work is to provide profile roofing sheet on areas shown on the drawings. The work shall include the design, engineering, manufacture, supply, and installation of the roofing system on the roof of buildings as described in the schedule and shown on the drawings, including all fixings, flashings, finishing, gutters, down-spouts etc.

7.2 Installation

The contractor shall supply and install the roofing, gutters, down-spouts, as specified and as approved by the Engineer-in-charge with uniform and consistent product quality. All panels shall be factory formed and all materials shall be delivered to site with manufacturer's name or trade mark, grade of coating, length, thickness and item identification with respect to shop drawings legibly marked on top of each item or shown on a label fixed to each bundle. The material may also be marked with a standard mark where applicable.

7.3 Accessories

Capping's, Flashings and Trims:

All exposed flashing edges must have a 10mm hem and a 45° drip. All closure flashings shall be hemmed.

Material:

In substrate, and finish as external sheeting.

Fixing:

Capping etc. shall be screwed to external sheeting at crests with hex head self-drilling stitching fasteners at max. 500mm centers along the length of the capping/flashing. All fasteners must be installed at 90° to the material being fastened. If this is not done, the screw must be withdrawn and the hole closed with an oversize screw and EPDM washer. All longitudinal joints in capping and flashings shall be overlapped a minimum of 50mm and sealed with a continuous run of sealant. Backing plates shall be provided in 16G steel wherever required at end conditions for proper support of capping's and closures.

7.4 Fixing Accessories:

External fasteners:

Fasteners for roof sheeting clips and self-drilling stitching fasteners for capping/flashings shall be mechanically galvanized carbon steel self-drilling self-tapping fasteners. Sealants:

All laps in flashing and capping shall be sealed with a non-hardening neutral cure silicon sealant.

7.5 Wind Loading:

Permissible span versus load data table should be furnished with the offer. Load testing as per IS-801, BS and AS shall have to be arranged by the sheeting manufacturer to demonstrate compliance with load/span data conforming to spans and loads (as per IS875 part 3) at manufacturer's plant. External roof sheeting shall be capable of withstanding wind uplift and point loads as per IS codes for purlin support spacing as shown on the drawings.

7.6 Sheet Colour:

Sheet colour will be specified by Client to the successful bidder.

7.7 Drainage Spouts and pipes:

The moving shed shall have supplied and fixed with 600mm overall girth uPVC gutter with spouts at the eve of roof for collecting rain water including M.S clamps for holding gutter fixing to line and level cost and conveyance of all materials labor etc. complete. The moving shed shall also be supplied and erected in position with PVC down water pipes 110mm dia, 4Kgf/cm2 including all specials such as bends, elbows, reducers, etc. and will be measured with pipe length for all heights to correct line and level, fixing the pipe by means of MS brackets by bolting or welding wherever required.

Tender for Movable Shed Fabrication & Erection Work UCSL/CC/T/CIVIL/311 DT: 02nd January 2025

7.8 Drawings and Literature:

After award of work the agency shall be required to do the detailed design and engineering of the roof system. He shall prepare detailed shop drawings, bill of materials, and submit the same for approval of the Engineer. before commencement of work. He shall also prepare and furnish technical manuals and erection guides for the project.

7.9 Testing and Acceptance Criteria

Materials:

Prior to delivery, manufacturers test certificates shall be supplied for all materials certifying grade and conformity with applicable standards. At owner's discretion on number and frequency, random samples drawn from material at site will be got tested at an independent test house/laboratory approved by the owner. The materials shall be tested for and demonstrate to meet performance criteria and requirements listed elsewhere.

Load testing:

Profiles shall be load tested to justify load/span data furnished by manufacturer in accordance with IS-801/AS/BS standards. Profiles must exhibit deflection less than L/150 under live load and point load (as per IS 875) and less than L/100 under wind load.

Measurement:

The length and breadth shall be measured correct to a cm. for Providing & fixing Polyester coated Galvanized steel Roofing System and the area calculated in sqm correct to two places of decimal (Payment for flashing, gutter & down take pipe & ridge will be measured separately).

Rates:

The rate for Providing & fixing Galvanized steel Roofing System shall include cost of all material and labour involved in all the operations described above.Providing and fixing ridge/ valley capping in required width (minimum 500mm) galvanized sheets with organic coating of 20 Microns Polyester coating of approved Colour on the top over 5 Microns primer and 5 Microns back up epoxy coating at the bottom over 5 Microns primer including cost and conveyance of all materials, scaffolding, lead, lift, labour charges, etc. complete at all levels as directed by Engineer.The length shall be measured correct to a cm. for providing & fixing Polyester coated

Galvanized steel Roofing System for ridge/ valley capping and the length shall be measured in running meter correct to two places of decimal.

8. Wheels

Moving shed wheels shall be double flanged. Wheels shall be mounted in low-friction ball and/or roller bearings housed in "L" shaped bearing brackets for easy removal during maintenance. Solid wheels shall be of forged / rolled steel or cast steel. Wheels shall be of Size 345 mm OD X 300 mm Dia rim X 52 mm Bore X 100 mm Thick.

Outer surface of Rim Hardened to 280-320 BHN up to 10 mm depth conforming to IS 1570 to line and level. All wheels shall be provided with roller bearing designed for a minimum capacity of 6T.

Civil foundation and rails are not in the scope of the present contract. Proposed rail for Moving shed is 30x50 bright bar.



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UDUPI COCHIN SHIPYARD LIMITED

Tender for Movable Shed Fabrication & Erection Work UCSL/CC/T/CIVIL/311 DT: 02nd January 2025

1	Structural steel, CHS/circular tubes	Tata, Vizag, SAIL, Jindal, JSW, or equivalent as approved
2	Welding rod	ESAB, Advani, Best Arc, Solar or equivalent as approved
3	Hard wood	Best Quality treated jack, Sal Wood, Irul, Anjili, Thambakom, Cherutheku, Tamerind
4	Primer	Altek, Berger, Asian, ICI, Jotun or equivalent as approved
5	Synthetic Enamel Paints & Primer	ICI (Akzonobel), Asian Paints, Berger, Jotun or equivalent as approved
6	Epoxy Paint	ICI (Akzonobel), Asian Paints, Berger, Jotun or equivalent as approve
7	Forged / Cast Steel wheels	Reputed make
8	Ball bearings	SKF, FAG, KOYO or equivalent as approved

LIST OF APPROVED MAKES:

PROVISIONAL ITEMS SPECIFICATIONS Gearbox

• The gears used in gear box shall be helical in design.

• Material of Pinions & gears; is plain carbon steels (EN9 for Gear & En24 for Input Pinion)

• Hardness of gears & pinion is in the range of 240 BHN to 320 BHN as per stage wise reduction.

• Gear Boxes shall be manufactured as per IS standard IS 4460 • Output Torque for given power and ratio = 1530 Nm (Contractor may specify)

• Input and output of gear box shall be according to the motor and wheel shaft diameter. **Motors**

• Synchronized VFD Compatible industrial motors driving the steel wheels enabling the shed to be remotely moved over the rails at a maximum speed not less than 10 meter per minute.

• Geared Motor (3 Phase; maximum 2 HP, 6 Pole 960 RPM VFD Compatible Flange mounted Approved make Brake Motor.)

• Frame sizes and rating shall be as per IS 1231-1974, 2223-1983 and 2254 1985. • All motors shall have cast steel or fabricated steel body.

- Degree of protection for motor, bearings and the terminal box shall be IP55 for all motors.
- The bearings shall be suitable for running the motor in either direction.
- Two numbers earthing studs shall be provided on the motor body.
- Colour shade of all motors shall be shade No. 692 of IS-5-1991.
- Motors shall be suitable mechanically and electrically for the required speed.
- While selecting the motor rating, following shall also be taken into consideration:
 - * Duty. S1
 - Cyclic duty factor to be continuous duty
 - Type of control use to be to be AC drive control
 - Inertia of motor and mechanisms-vendor to specify
 - * Service correction factor-vendor to specify
 - * The class of insulation shall be F. However, the temperature rise shall be limited to class-B.
 - ♣ Motors shall be suitable for 415V+/-6 %, 50 Hz +/- 3% with VFD's.
 - The design and performance shall be as per IS 325-1978.

Approved makes

- a) Motors
- Bharat bijlee, HAVELS, ABB, Crompton Greaves
- b) VFD Siemens, ABB, Allen Bradley, Yaskawa, Fuji, Amtek.

Annexure III

POWER OF ATTORNEY

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Par I REAL THE

(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	(Addre
ss), acting as (Des	signation and name of the
company), and whose signature is attested below, is hereby a	appointed as the Authorized
Representative and authorized on behalf of	
(Name of the company) to provide information and respond to enqu	uiries etc. as may be required
by the Employer for the project of	
(Project title) and is hereby further authorized to sign and file rele	vant documents in respect of
the above.	

(Attested signature of Mr.)

For..... (Name & designation)

(Company Seal)



UNCONDITIONAL ACCEPTANCE LETTER

(Unconditional acceptance to be given by in letter head)

ACCEPTANCE OF TENDER CONDITIONS

- Tender Document no. UCSL/CC/T/CIVIL/311 dated 02nd January 2025 Tender for Movable Shed Fabrication & Erection work, 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:



Tender for Movable Shed Fabrication & Erection Work UCSL/CC/T/CIVIL/311 DT: 02nd January 2025

UCSL/CC/T/CIVIL/311 DT: 02ND JANUARY 2025

TENDER FOR MOVABLE SHED FABRICATION & ERECTION WORK

PRICE BID FORMAT

Sl. No	Description of items	Unit	Quantity Per Shed	Rate (Rs)	Amount (Rs)
1	Structural tubular Frames: Steel work in built up tubular sections YST 310 grades as per IS: 4923 including cutting, hoisting, erecting in position, aligning the erected structures in line and level, bolting or welding wherever required required as per drawing. complete with Hot finished seamless type tubes including painting applying two coats of aliphatic acrylic PU paint over two coats of epoxy cured with aliphatic amine over two coats of epoxy phenylkamine primer, etc. closing all the open ends properly with same material, cost and conveyance of all materials, all accessories, hire charge of tools and plants, welding equipment, cost of electrodes, cost of bolts, nuts and washers all labour, other incidentals, etc. complete. (Provision of bolt holes to be made as required at no extra cost). All as per the drawings, technical specification and as directed by Engineer.	kg	15198		
2	Bottom Beam and other structural members: Structural steel work bolted or welded in built up sections, trusses and framed work including cutting, hoisting, fixing in position and applying two coats of aliphatic acrylic PU paint over two coats of epoxy cured with aliphatic amine over two coats of epoxy phenylkamine primer, etc. including cost and conveyance of all materials, all accessories, hire charge of tools and plants, welding equipment, cost of electrodes, cost of bolts, nuts and washers all labour, other incidentals, etc. complete. (Provision of bolt holes to be made as required at no extra cost). All as per the drawings, technical specification and as directed by Engineer	kg	2525		



Tender for Movable Shed Fabrication & Erection Work UCSL/CC/T/CIVIL/311 DT: 02nd January 2025

S1. No	Description of items	Unit	Quantity Per Shed	Rate (Rs)	Amount (Rs)
3	End Stopper: Supplying and fabricating end stopper using Structural steel work bolted or welded in built up sections and framed work including cutting, hoisting, fixing in position and applying two coats of aliphatic acrylic PU paint over two coats of epoxy cured with aliphatic amine over two coats of epoxy phenylkamine primer, etc. including cost and conveyance of all materials, all accessories, hire charge of tools and plants, welding equipment, cost of electrodes, cost of anchor bolts, nuts and washers all labour, other incidentals, etc. complete. (Provision of bolt holes to be made as required at no extra cost). All as per the drawings and as directed by Engineer.	kg	100		
4	Supplying and fixing in position tamarind / thambogum its equivalent wooden plunger of size 350x200x150mm on end of each movable shed including cost and conveyance of all materials, cost of bolts, nuts and washers, all labour, other incidentals etc. complete.	Nos	5		
	Roofing Works				
5	Providing and fixing precoated galvanized iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in- charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12meter or as desired by Engineer In- charge. The sheet shall be fixed using self-drilling /self-tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	Sqm	506		



Tender for Movable Shed Fabrication & Erection Work UCSL/CC/T/CIVIL/311 DT: 02nd January 2025

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Sl. No	Description of items	Unit	QTY	Rate (Rs)	Amount (Rs)
6	Providing and fixing precoated galvanized steel sheet Ridges plain (500 - 600mm) 0.50 mm (+ 0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self-drilling/ self- tapping screws complete:	m	9		
7	Providing and fixing precoated galvanized steel sheet Gutter 600mm over all girth) 0.50 mm (+ 0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self-drilling/ self-tapping screws.	m	17		
8	Providing and fixing precoated galvanized steel sheet Flashings/ Aprons. (Upto 600 mm) 0.50 mm (+ 0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self-drilling/ self-tapping screws.	m	17		
9	Providing and fixing PVC rain water pipes 110 mm dia 4 kgf/cm2 to the correct line and level, using MS clamps. including cost and conveyance of all materials complete. All as directed by the Engineer	m	65		
10	Supplying and fixing forged / cast steel Idler wheel, of Size 345 mm OD X 300 mm Dia rim X 52 mm Bore X 100 mm Thick. Outer surface of Rim Hardened to 280-320 BHN up to 10 mm depth and of material conforming to IS 1570 to line and level. Including fabricating and erecting in position by welding / bolting including cost and conveyance of all materials, cost of wheels, ball bearing, bolts, nuts and washers, cost of welding rods, hire charges of welding equipment's, consumables etc. complete. as per the technical specification and as directed by Engineer.	Nos	6		
11			BASIC	AMOUNT:	
12			GST	r%:	
13	G	RAND 1	TOTAL	AMOUNT:	

ii). Quotes with Conditional rates/additional charges/Conditional discounts will be disqualified.

The above quantity is for one shed only; the total number of sheds is seven (07).

L1 will be determined based on the serial no.013



Signature: Date: Address of the contractor: Seal:

ANNEXURE - VI | 1

Tender for Movable Shed Fabrication & Erection Work UCSL/CC/T/CIVIL/311 DT: 02ND JANUARY 2025

ANNEXURE-V

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)	Agreed as per tender /Do not agree	napradov na Glasopposa Katalog
2	Schedule of Completion as per clause no 2	Agreed as per tender/Do not agree	
3	Unconditional Acceptance	Agreed as per tender/Do not agree	
4	Offer Validity	06 Months - Agreed as per tender/Do not agree	
5	Taxes & Duties	Specified/included in Price	
6	Payment terms - confirm		
а	As per Clause 10 of Annexure - I	Agreed as per tender/Do not agree	
7	Security Deposit	Agreed as per tender/Do not agree	
8	Performance Guarantee	Agreed as per tender/Do not agree	
9	Force Majeure	Agreed as per tender/Do not agree	
10	Liquidated damages and cancellation of contract	Agreed as per tender/Do not agree	
11	Arbitration & Jurisdiction clauses	Agreed as per tender/Do not agree	
12	Confirm all other terms and conditions of our enquiry are acceptable.	Confirmed/Not confirmed	
13	Deviations from Tender conditions	No Deviations	

Signature:

Address of the Contractor:

सिन जिम्माइ अनुबंध कथा CONTRACT CELL सि

Seal:











