



बामर लॉरी एण्ड कं. लिमिटेड
Balmer Lawrie & Co. Ltd.

TEMPERATURE CONTROLLED WAREHOUSE
[PLOT NO. F-9/5, ADDITIONAL MIDC]
PATALGANGA, DIS- RAIGAD, MAHARASHTRA
Mobile No: +91 9988400155
E-mail: choudhary.rr@balmerlawrie.com]

Tender No : BL/LI/TCW-MUM/053 dt. 05.11.2020

TECHNICAL / COMMERCIAL BID

Inviting Tender for

**[Miscellaneous Fabrication and Civil Works at
Temperature Control Warehouse at Patalganga]**

DUE DATE & TIME: [19/11/2020 AT 17.00 HRS]

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Seal & Signature of the Bidder

NOTICE INVITING TENDER

Online Bids in single bid system are invited from experienced civil contractor for carrying out the **Miscellaneous Fabrication and Civil Works** at Temperature Control Warehouse at Patalganga in Raigad district, Maharashtra.

Tenderers are advised to download Notice Inviting Tender along with other tender documents from www.balmerlawrie.com and the procurement website <https://balmerlawrie.eproc.in>.

The tender has to be submitted online only.

The signed copies of the required documents in support of bidder's credentials are to be send along with the tender documents.

S. No	Description	Details
1	Name of Work	Miscellaneous Fabrication and Civil Works at Temperature Controlled Warehouse at Patalganga.
2	Tender No	<i>BL/LI/TCW-MUM/053</i>
3	Validity Of Offer	90 days from the date of opening of price bid
4	Contract Period	30 Days from the date Of placement of Order or LOI whichever is earlier.
5	Tender Fee	Nil
6	EMD	Rs. 3000 /-
7	Downloading / Submission of Tender :	
	a. Starts on	05/11/2020 , 6.00 pm
	b. Closes on	19/11/2020 at 5.00 pm.
8	Opening of Tender	19/11/2020 at 5.30 pm.

1. LIST OF DOCUMENTS TO BE SUBMITTED

The signed and stamped copies off following documents should be sent as part of the technical/commercial bid submission

- Power of Attorney authorizing the person who has signed the tender to act and sign on behalf of the company.
- Certificate of registration/incorporation in the case of Pvt Ltd/Public Ltd Company /certified copy of / partnership deed in the case of LLP/Partnership firm/ any document under the relevant rules/laws if the firm is a proprietorship firm.
- Company's PAN.
- Company's GST Registration.
- Chartered accountant's certificate or Audited / Certified Balance sheet and Profit and Loss account of tenderer's company for last three years ending 31.03.17

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2. VERIFICATION OF DOCUMENTS / SUBMISSION OF BIDS / CANCELLATION OF BIDS

- a. If Balmer Lawrie wants to verify all the submitted documents, then the bidder should bring all original documents.
- b. Failure on part of the tenderer to report on specified date and time for paper verification may result in rejection of the tender submitted by them without further communication.
- c. Tenderer should be in a position to produce all the original documents and/or any other information on dates as intimated or as and when required by Balmer Lawrie.
- d. Incomplete Tenders are liable for rejection without any reference to the tenderer and decision of Balmer Lawrie in this respect will be final.
- e. If at any stage it transpires that any party submitted false or forged documents may be Blacklisted and the EMD would be forfeited, contract could be cancelled, criminal prosecution or any other action as deemed fit may be initiated.
- f. Balmer Lawrie reserves the right to reject any or all tenders without assigning any reasons whatsoever.
- g. Bids of any tenderer may be rejected if a conflict of interest between the bidder and Company (Balmer Lawrie) is detected at any stage.
- h. All the bids will be evaluated based on the criteria as mentioned in this NIT. Tenders of those bidders who are not meeting the criteria as specified in the NIT, may not be considered for commercial evaluation.
- i. Tenders, if submitted through e-mail or fax, shall be summarily rejected.

SPECIAL INSTRUCTIONS TO THE BIDDER FOR PARTICIPATING IN E-TENDER

Tenderers are advised to download Notice Inviting Tender along with other tender documents from the e-tendering portal <https://balmerlawrie.eproc.in> Interested parties have to pay an interest free EMD of Rs.3000/- (**Rupees Three Thousand Only**) by Demand Draft/Pay Order at our above address. The DD/PO for EMD should be drawn in favour of “**BALMER LAWRIE & CO LTD**” on any Scheduled Bank, payable at [**Mumbai/ Navi Mumbai**]. Copies of the instruments (DD) evidencing payment of EMD should be scanned & uploaded before bidding. Payment of EMD is exempted for Small Scale Units registered with National Small Industries Corporation (NSIC) & Micro Small and Medium Enterprises (MSME) on submission of valid copy of registration certificate. **SCT/ST Category having MSMED/NSIC certificates should specifically mention the same.**

The physical original instruments/drafts should reach our above address prior to due date and time. In case the Bidders intend to submit any additional supporting documents, the same can be submitted in physical form at our above address. Documents of only those bidders shall be entertained who are bidding on-line. **UNDER NO CIRCUMSTANCES PRICE BID SHALL BE SUBMITTED IN PHYSICAL FORM.**

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Balmer Lawrie & Co. Ltd. has developed a secured and user friendly system which enables Vendors/ Bidders to Search, View, Download tenders directly and also, enables them to participate & submit Online Bids on the e-tendering site <https://balmerlawrie.eproc.in> in a secure and transparent manner which maintains confidentiality and security throughout the tender evaluation process.

1. Procedure to submit On-line Bids

For this purpose, Vendors/Bidders are advised to read the instructions available in the homepage of the portal <https://balmerlawrie.eproc.in> where detailed procedure for submission of bids is available under the option / link "Bidding Manual".

1.1 Registration with e-procurement platform

For registration and online bid submission bidders may contact HELP DESK of C1India Pvt., Ltd. details of which is available at our web-site mentioned above or they can register themselves online by logging in to the website through <https://balmerlawrie.eproc.in>

Bidders may contact the following resource persons for any assistance required in this regard.

HELPDESK NOS ARE OPEN BETWEEN 1000 HRS to 1830 HRS IST (MONDAY TO FRIDAY (Exclusions: Balmer Lawrie HOLIDAYS))		
Please email your issues before your call helpdesk. This will help us serving you better.		
Contact Nos. and email IDs for Balmer Lawrie helpdesk officers		
Name	E-mail	Phone Numbers
Tirtha Das	Tirtha.das@c1india.com	+91-9163254290
Ravi Gaiwal	Ravi.gaiwal@c1india.com	02266865611
Tuhin Ghosh	Tuhin.ghosh@c1india.com	+91-8981165071
Ujjal Mitra	ujjal.mitra@c1india.com	+91-77026 69806

1.2 Digital Certificate authentication

The bidder shall authenticate the bid with his Digital Certificate for submitting the bid electronically on e-procurement platform and the bids not authenticated by digital certificate of the bidder will not be accepted on the e-procurement platform.

All the bidders who do not have digital certificates need to obtain Digital Certificate. They may contact help desk of C1 India Pvt. Ltd.

1.3 For Price Bid Submission, the bidders are required to download the Excel Sheet of Price Bid, fill the relevant details and upload the same after signing and stamping.

2. Special Note

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- Bids can only be submitted before the last date and time of submission as per the date and time mentioned in the e-tender. Resubmission (if required) of bid should be completed within the stipulated date and time. The system time (IST) that will be displayed on e-tendering web page shall be the time and no other time shall be taken into cognizance.
- Bidders are advised in their own interest to ensure that bids are uploaded and submitted successfully in e-tendering system well before the closing date and time of bid.
- Balmer Lawrie does not take any responsibility in case bidder fails to upload the documents within specified time of tender submission.
- Balmer Lawrie will not be responsible for any delay under any circumstances for non-receipt of any documents sent by post as part of response to the tender. Bidders are requested to provide correct “e-Mail address” and “Mobile No.” for receiving updates related to e-tender from time to time.
- Bidders are requested to provide correct “e-Mail address” and “Mobile No.” for receiving updates related to e-tender from time to time.
- The bidder has to keep track of any changes by viewing the Addendum/Corrigendum issued by the Tender Inviting Authority on time-to-time basis in the e-Procurement platform. The Company calling for tenders shall not be responsible for any claims/problems arising out of this.
- **The bidder has to keep track of any changes by viewing the Addendum / Corrigenda issued by the Tender Inviting Authority on time-to-time basis in the e-Procurement platform. Interested parties have to keep referring to the website for further information. The Company calling for tenders shall not be responsible for any claims/problems arising out of this.**

3. Filling of Tender Documents

- 3.1 The tenderers are requested to carefully study all the tender documents and tender conditions before quoting their rates.
- 3.2 The tender must be strictly in accordance with the terms and conditions and specifications laid out in the tender.
- 3.3 Any terms and conditions given by the tenderer on his own in their offers will not be binding on Balmer Lawrie.
- 3.4 The sole proprietor or authorised representative shall sign all documents that need to be uploaded. When the person signing the documents is not the sole proprietor / authorised representative of the company, the Power of Attorney authorizing such person to act and sign on behalf of the company must be scanned and uploaded and produced later on for verification by Balmer Lawrie.

Note : This is no split tender.

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SCOPE OF WORK

The scope of work shall be to do the construction of Scrap Yard, Guard Rail, Sheds over windows and gates etc., and painting on the structural platform complete as per the BOQ and the technical specifications specified.

GENERAL TERMS AND CONDITIONS

1. ELIGIBILITY CRITERIA

The tenderers should meet the following eligibility criteria:

- I. Average annual turnover of the tenderer shall be minimum of Rs. 18 lacs during last three financial years ending 31st March, 2019. Copies of balance sheets of last three years are required to be submitted.
- II. The tenderer should have successfully executed the civil works of following minimum values during past seven (7) years ending last day of month previous to the one in which applications are invited.
 - A. 3 jobs each of value not less than Rs 2.00 lacs or
 - B. 2 jobs each of value not less than Rs 2.50 lacs or
 - C. 1 job of value not less than Rs 4.00 lacs

Copies of work order and the completion certificate are required to be submitted.

- III. Submission of EMD. MSMED/NSIC parties are exempted from payment of EMD.
- IV. Agency should have GST Registration number, copy of registration certificate is to be submitted.
- V. The agency needs to furnish self-declaration that they are not black listed by any PSU/Government Institutions.

2. SUBMISSION OF BIDS

The bid is to be submitted in a single bid process i.e. Technical/ Commercial Bid with Price Bid together. In the price bid, the rates are to be submitted as per the given format and online as mentioned in the bid submission clause.

3. TENDER OPENING

Unpriced and price bid will be opened as per tender calendar.

4. ACCEPTANCE OF OFFERS

- (i) Balmer Lawrie reserves the right to accept any tender in whole or in part or reject any tender or all tenders or place order for any quantity, less than or more than the tendered quantity, without assigning any reason thereof.

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- (ii) Bids of any tenderer may be rejected if a conflict of interest is detected between the bidders and Balmer Lawrie at any stage.
- (iii) Balmer Lawrie also reserves its right to allow Public Enterprises (Central / State) price / purchase / contract / service preference as admissible under the existing Government policy. The decision of Balmer Lawrie in this connection will be final.
- (iv) Incomplete tenders, conditional tenders, tenders received late or tender not conforming to the terms and conditions mentioned in the Tender documents or not accompanied by the requisite Earnest Money Deposit (unless exempted under the terms of this Tender) will be rejected.

5. NEGOTIATIONS

- I. Balmer Lawrie reserves the right to negotiate with the Tenderer. Tenderer will have to attend the concerned office of Balmer Lawrie for negotiations/clarifications required from them, in respect of their quotations, without any commitment on the part of Balmer Lawrie.
- II. In case of negotiation, the Tenderer should send the confirmation of outcome of such negotiation in writing so as to reach the concerned office of Balmer Lawrie within 3 days from the date of negotiation/ the time stipulated. If the Tenderer fails to comply with this requirement Balmer Lawrie reserves its right to ignore their quotation at its discretion with the attendant remedies available to them.

6. NOTIFICATION OF AWARD

Prior to the expiry period of Bid validity, BL will place purchase order or letter of intent on the successful bidder(s).

7. CONTRACT PERIOD

The completion period is 30 days from the date of issue of LOI or P.O. whichever is earlier.

8. TERMINATION OF CONTRACT

In case of any breach of contract, serious criminal act on the part of selected contractor and/or his employees, and any such acts, the Company shall have the rights to terminate the contract immediately without any notice

9. VALIDITY

Offers must be valid for 90 days from the due date of opening of price bid. The rates quoted by the tenderers once accepted by the Company shall be valid and firm during the tenure of entire contract period.

10. QUOTING OF RATES / TAXES

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Rate shall be quoted as per the Price Bid Format. Applicable GST shall be mentioned separately as mentioned in the attached format.

11. SECURITY DEPOSIT

The successful bidder is required to deposit a security non-interest bearing security deposit equivalent to 5% the contract value after adjusting EMD of Rs 3000/-. The Security deposit shall be retained till one year after successful completion of the job. EMD of unsuccessful tenderers shall be refunded after finalization of the tender.

12. TERMS OF PAYMENT

- a. 90% payment will be released after satisfactory completion work.
- b. 10% shall be kept as Retention Money for a period of 12 months of Defect Liability Period. The retention money can be exchanged with an equivalent amount of B.G. valid for a period of 12 months from the date of issue of completion certificate.

13. DEFECT LIABILITY

Defect liability period shall be one year from the date of issuance of letter by BL after satisfactory supply of all the materials. The defect liability period shall be one year from the date of supply of all the pallets. During the period of guarantee the vendor's representative should visit the plant as required for sorting out any operational issues.

14. COMPLIANCE WITH REGULATIONS

Vendor shall warrant that all goods and services covered by these conditions shall have been produced, sold, supplied, dispatched, delivered and furnished in strict compliance with all applicable laws, regulations, labor agreements, working conditions and technical codes and requirements as applicable from time to time. The vendor shall execute and deliver such documents as may be required to effect or to evidence such compliance.

All laws and regulations required to be incorporate in agreements of this character are hereby deemed to be incorporated by these references. Owner and their authorized representative disown any responsibility for any irregularity, contravention or infringement of any statutory regulations in the manufacture of supply of goods / services covered by this order.

15. SUB-LETTING OF WORK

No part of the contract or any share or interest therein shall in any manner or degree be transferred, assigned or sublet by the contractor directly or indirectly to any person, firm or corporation without the consent in writing from Balmer Lawrie. In the event of contractor contravening the conditions, Balmer Lawrie shall be entitled to get the work done from any other firm at the 'Risk & Cost' of the contract.

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Safety

16. SAFETY REQUIREMENTS TO BE FOLLOWED

Contractors shall ensure that their work area is kept clean tidy and free from debris. The work areas must be cleaned on a daily basis. Any disposal of waste shall be done by the Contractor.

All equipment, materials and vehicles shall be stored in an orderly manner. Access to emergency equipment, exits, telephones, safety showers, eye washes, fire extinguishers, pull boxes, fire hoses, etc. shall not be blocked or disturbed

Tools, Equipment and Machinery

The Contractor must ensure that all tools & equipment provided for use during the Work is:

- suitable for its intended use;
- safe for use, maintained in a safe condition and where necessary inspected to ensure this remains the case (any inspection must be carried out by a competent person and records shall be available);
- Used only by people who have received adequate information, instruction and training to use the tool or equipment.

Working at Height

Any Work undertaken where there is a risk of fall and injury is considered to be working at height.

For any Contractor Personnel working at height, Contractors shall provide fall prevention whenever possible and fall protection only when fall prevention is not practicable. Before commencing Work in a height the Contractor must obtain from BL a Permit to Work, the Permit to Work will define the requirements to be followed. Supervisor must be present at all point of time, to ensure no deviation occur during the course of work.

Fall Prevention System

Fall prevention systems (e.g. fixed guardrails, scaffolds, elevated work platforms) must provide protection for areas with open sides, including exposed floor openings.

Fall Protection Systems

Where fall protection systems are used then the Contractor must ensure the following is applied:

- i. Only approved full body harness and two shock-absorbing lanyards are used,
- ii. Prior establishment of a rescue plan for the immediate rescue of an employee in the event they experience a fall while using the system,
- iii. Anchorage points must be at waist level or higher; and capable of supporting at least the attached weight,
- iv. Lifeline systems must be approved by BL before use.

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- v. Use of ISI marked industrial helmet at all point of time.

Scaffolding

All scaffolds shall subject to a documented inspection by a competent person and clearly marked prior to use. The footings or anchorage for scaffolds shall be sound, rigid and capable of carrying the maximum intended load without settling or displacement. All scaffolding materials should be of MS tubular type.

Guardrails and toe-boards shall be installed on all open sides and ends of scaffold platforms. Scaffolds shall be provided with an access ladder or equivalent safe access. Contractor Personnel shall not climb or work from scaffold handrails, mid-rails or brace members.

Barricades

Floor openings, stairwells, platforms and walkways, and trenching where a person can fall any distance shall be adequately barricaded and where necessary, well lit. Where there is a risk of injury from a fall then rigid barriers must be used.

Barricades must also be used to prevent personnel entering an area where risk of injury is high e.g., during overhead work activity or electrical testing etc. Such barricading must provide clear visual warning.

Environmental Requirements Waste Management

The Contractor is responsible to remove any waste generated by the work being done on the Site. The Contractor must dispose of the waste in line with the relevant local legislative requirements. The waste disposal route shall be documented and made available for BL to review at any time and may be subject to BL's prior approval.

Wastes (includes rinse from washing of equipment, PPE, tools, etc.) are not to be poured into sinks, drains, toilets, or storm sewers, or onto the ground. Solid or liquid wastes that are hazardous or regulated in any way are not to be disposed of in general site waste receptacles.

Spills

The Contractor is responsible for the provision of adequate spill kits/protection and the clean-up and disposal costs arising from such spills.

Emissions

The Contractor shall identify and quantify any emission sources associated with the Works. The control measures associated with these emission shall be subject to the approval of BL. Emissions include but are not limited to noise, dust, fumes, vapours

17. LIABILITY & ENSURING SAFETY

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The Contractor will be fully responsible for ensuring safety of lives, cargo, vehicles, property and containers within Balmer Lawrie premises. Any damage to any life and/or property inside the premises due to negligence/mishandling of equipment by the Operator and /or malfunctioning of the equipment would be to the account of the contractor. It is mandatory that necessary 3rd party insurance cover is kept valid by the contractor for the equipment's operating inside the facility.

18. SAFETY AND PENALTY:

The Contractor will be penalized for any safety violation. The decision of the Safety Committee headed by Safety In charge will be final. For any safety violation viz. not using PPE as required by the nature of the job per violation Rs.1000 will be charged.

19. INDEMNITY & GENERAL SAFETY

The Contractor will be required to indemnify and keep indemnified the Company against all losses and claims for injury and damage to any person or any property whatsoever which may arise out of or in consequence of the work and against all claims, demands, proceedings, damages, cost charges and expenses whatsoever that may arise against the company on account of the faults of the contractor/his workmen/due to malfunctioning of the equipment if any employed by the contractor. The company may forward the bidder any such claim demand or complaint made by any other person against the company. In such event, the contractor shall solely be liable for the disposal of the said complaint.

The contractor will be required to Indemnify and absolve the Company of all responsibilities related to employment condition of their employees and should adequately safeguard Company against any possible HR problems including those related to employment. The bidder should adhere to all State and Central Enactments related to employment such as Minimum Wages Act, Workmen Compensation Act, Provident Fund Act, Employees State Insurance Act, Gratuity Act, Bonus Act, Contract Labour [Regulations and Abolition] Act etc. Further, Company will not have any liability towards employment, remuneration or compensation in whatever manner made to the employee of the bidder. Such demand shall be settled by the bidder directly.

20. FORCE MAJEURE CONDITIONS

Delivery schedule is subject to force majeure conditions as under: If at any time during the continuance of this contract, the performance in whole or part by either party of any obligation under this contract shall be prevented or delayed by reasons of any war, hostility, acts of public enemy, civil commotion sabotage, fire ,floods, explosions, epidemics, quarantine restrictions, strikes, lock outs or acts of God (hereinafter referred as "events") provided notice of the happening of any such events is given by either party to the other within twenty one days from the date of occurrence thereof, neither party shall by reasons of such event, be entitled to terminate this contract nor shall either party have any claim for

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damages against the other in respect of such non-performance or delay in performance. Deliveries under the contract shall be resumed as soon as practicable.

21. ARBITRATION

Any dispute or difference arising under this Contract shall be referred under jurisdiction of **Kolkata** to a sole arbitrator to be appointed mutually by the Parties and the provisions of Arbitration & Conciliation Act, 1996 including any statutory modifications or enactment thereof shall apply to the Arbitration proceedings. The fees of the arbitrator, if any, shall be shared equally by both the parties. The award shall be a speaking award stating reason therefor and is final & binding on the parties. The proceeding shall be conducted in English language and courts at **Kolkata** will have exclusive jurisdiction to settle any dispute arising out of this contract.

In event of any dispute or difference relating to the interpretation and application of the provision of commercial contract(s) between Central Public Sector Enterprises (CPSEs) / Port Trusts inter se and also between CPSEs and Government Departments/Organizations (excluding disputes concerning Railways, Income Tax, Customs & Excise Departments), such disputes or difference shall be taken up by either party for resolution through AMRCD as mentioned in DPE OM no 4(1)/2013-DPE(GM)/FTS-1835 dated 22.05.2018

22. SPECIAL INSTRUCTION

In case of any query/clarification, the tenderer may contact our Mr. Rakesh Choudhary, Project Leader [Phone : Mobile : **9866400155**]

23. Purchase Preference Policy for MSE Vendors

If it is seen that a Micro and Small Enterprises (MSE) has participated and the price quoted by them is within a price band of +15% of the L1 price (which is from a supplier who is not MSME), then such MSE vendor shall be allowed to supply a pre-determined portion of the tendered quantity subject to their matching the L1 price. In case, more than one number of MSE vendors are within the range of L1+15%, all of them shall be given the option of matching the L1 price. In such a situation, the pre-determined quantity shall be equally divided amongst all such MSME vendors who have matched the L1 price. In case the total tender value is not split able, 100% of the value will be given to MSE (within 15% band with non MSE vendor) vendor subject to matching with L1 price of non MSE vendor

20. Compliance of GST

The vendor should compulsorily follow all the provisions of GST and in the event any default for fulfilling any provisions of the GST Act, Balmer Lawrie & Co. Ltd. would exercise the right for non-payment/withholding payment, / black listing the vendor

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TDS Compliance :Central Government vide Notification No.50/2018 dated 13th September 2018, has made TDS provision applicable under GST Law on all payments affected by Public Sector Undertaking (PSU) w.e.f 1st October 2018.

BALMER LAWRIE being a PSU these provisions will be applicable for all the payments made by BALMER LAWRIE on or after 1st October 2018. TDS shall be deducted @ 2% of taxable value excluding GST.

TDS deducted from your payments will be deposited with GST authorities by 10th of the following month and TDS certificates will be issued subsequently.

DECLARATION

Having examined the tender documents, we have understood the terms & conditions indicated in the Tender No: ***BL/LI/TCW-MUM/053*** and hereby confirm our acceptance of the same.

Place: Signature of Tenderer

Date: Name & Address

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ANNEXURE – 1

PARTICULARS OF THE TENDERER'S ORGANISATION

Sr. No.	Description	Tenderers Details
1	Name of the Tenderer	
2	Address of the Registered Office	
3	Address of the branch / office quoting against the Tender	
4.	Name, designation, mobile number, e-mail, Fax no. and any other details of the Contact Person	
5	Year of commencement of business	
6	Whether Sole Trader/ Partnership / Private Limited Co., or Public Limited Co. / LLP	
7	Registration No. (Under companies Act)	
8	Whether copy of Incorporation /Registration certificate from ROC(Registrar of company)	
9	Income Tax PAN no.	
10	Whether copy of PAN enclosed.	
11	Whether copy of latest Income Tax Return uploaded	
12	GST Registration. No.	
13	Whether copy of GST Registration certificate Uploaded	
14	Complete Details of the Banker, Name, Address, IFSC Code, Bank Code, Account No and Type of Account	
15	Whether registered under NSIC / MSME	
16	In case registered under NSIC / MSME, provide registration number and copy of registration	

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GENERAL TECHNICAL REQUIREMENTS TECHNICAL SPECIFICATION

1.0 SCOPE

1.1 The scope of work covers design, engineering, preparation of working drawings, fabrication, supplying, painting erection and commissioning of Pre-fabricated Structural Steel as per the BOQ and the technical details.

2.0 STRUCTURAL STEEL

2.1 PRIMARY MEMBERS

All primary structural members shall be in structural steel conforming to ASTM 572 Grade 50 or IS-2062 Grade E350, The yield strength of material shall be 345 Mpa. **The structural steel members shall be made up from built-up sections using plates of minimum thickness 5mm.** The building shall be designed in accordance with specifications of IS: 800, IS: 875, IS: 1893 Codes.

2.2 SECONDARY MEMBERS

Purlin, girts, eaves struts, etc. made out of cold roll steel factory profiled shall have flanges and webs with physical specifications equivalent and having minimum yield strength of 345 MPa conforming to ASTM-A607 (Grade 50) or IS-513 of minimum thickness of 1.6mm. The sag rod shall have minimum yield strength of 250 Mpa conforming to IS-2062. All members excepting sag rod & bracing will be pre-galvanized with minimum coating material of 275 GSM. The members shall be designed in accordance to IS: 801.

3.0 HOLDING DOWN BOLTS

All holding down bolt assemblies shall be designed, detailed and approval obtained from Engineer, supplied and transported to site (for erection and grouting by others) including threading, provision of nuts, locknuts, washers, pipe sleeves etc all as per specifications and approved fabrication drawings.

4.0 FLASING AND TRIM

This will be furnished at the rake, corners, framed openings, accessories and wherever necessary to provide weather tightness and finished appearance.

5.0 CLOSURE STRIP

Closure matching the profile of the panel shall be supplied along with the eave and rake.

6.0 SEALER /ROPE SEAL

This is to be applied at all side laps and end laps of roof panels and around self-flashing windows/ louvres. Sealer shall be 6mm wide x 5mm thick, asbestos fiber filled pressure sensitive Butyl tape. The sealer shall be non-asphalted, non-shrinking, non-drying & non-toxic and shall have superior adhesion to metals, plastics and painted surfaces at temperature from -51 deg 'C' to + 104 deg 'C'.

7.0 ANGLE/ PIPE BRACING

Diagonal angle/pipe bracing shall be supplied in the roof and side walls to brace the building against wind load, seismic load or any other horizontal load. Bracing is essential to the stability of the building. Location and profile of bracings shall be decided in consultation with the owner / consultant.

8.0 WELDING OF PRIMARY MEMBERS

8.1 SHOP

Weld shall be of controlled CO2 welding like MIG/ MAG in accordance to IS816 or submerged arc welding type in

accordance to AWS D1.1. Minimum throat thickness of weld shall be 4mm.

8.2 FIELD

All primary connection fasteners shall be High Strength Bolts of Grade 8.8 conforming to IS: 3757, IS: 400 or IS: 1367 or ASTM A325 or equivalent.

All secondary connection fasteners shall be with bolts of property class 4.6 conforming to IS: 1363 or IS: 1367 or ASTM A307 or equivalent. The fasteners shall be galvanised.

9.0 SHEETING WORK FOR SIDE CLADDING

Roof & Side sheeting system shall be of colour coated trapezoidal profile made out from 0.5 mm TCT (yield strength of 550 Mpa) with metallic hot dip coated with Aluminium-Zinc alloy (55% Aluminium, 45% Zinc) as per AS 1397-of total coating mass 150 GSM.

The steel manufacturer's test certificate for the chemical and mechanical properties of steel must be submitted for approval by the concerned authority prior to fabrication. The sheet shall have brand marking of the manufacturer giving product details on the back of the sheet for confirming genuinely of the material. All the accessories such as ridge pieces, eaves, barge boards, expansion joint pieces, corner pieces, apron pieces etc shall be made from the same material which is used for main cladding application. It also includes supply and erection of galvanized steel fasteners/ bolts (of self-tapping & self-drilling type), seam, bolts and nuts, metal backed EPDM washers etc complete including cutting to shape and size required including necessary sealants (silicon sealants/ butyl sealants for transverse laps), taping, flashing etc complete as per design and specifications.

10.0 MATERIAL SPECIFICATION

No.	Components	Specifications	Strength (Mpa)
1	Cold formed sections for side runners and purlins	ASTM A607 Grade 50 or equivalent	Fy = 345
2	High strength bolts	A325 M Type 1, Zinc phosphated	Fy = 303
3	Machine bolts	DIN 933 Class 4.5/4.8 Yellow chromate	Fy = 138
4	Built-up sections for Crane girders, columns, beams and rafter, roof frames etc.	ASTM572, Grade 50	Fy = 345
5	Sheeting material	Al(55%)+Zn(45%) alloy as per AS 1397	Fy = 300 (min)
6	Holding Down bolts	IS:2062, Grade A	Fy = 245
7	Fasteners	ITW Buildex Class 3 or 4	

11.0 PAINTING TO STRUCTURAL MEMBERS

All structural members shall be cleaned by shot blasting to SA 2 1/2 to remove dirt, grease, oil and loose mill scale and given one shop coat of red oxide zinc phosphate primer of minimum 30 micron DFT. Another coat of zinc phosphate primer of minimum 30 micron DFT and final 2 coats synthetic enamel paint of 30 micron DFT each to be applied on structural parts as per approved shade. **Total paint thickness is 120 micron DFT.** Finishing coat shall be applied one before erection and one coat after erection. **All paints shall be of Asian Paint/ ICI/ Berger/ Nerolac or approved equivalent and shall have low VOC.**

12.0 DESIGN AND DRAWINGS

12.1 PREPARATION OF DESIGN AND DRAWINGS

The contractor shall at his own cost shall carry out Design and Drawings in accordance with the relevant Specification and Standards. The contractor may, for this purpose, adopt with or without any modifications the Bid Drawings as the basic General Arrangement Drawings for his designs. Notwithstanding such adoption, the

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contractor shall be solely responsible for the adequacy of the Design and Drawings. The design shall require to be done by standard software like STAAD.PRO, SAP etc and drawings shall require to be done by AUTOCAD. The design should fulfil all statutory requirements of local municipal, factory inspector etc.

12.2 REVIEW AND APPROVAL OF DRAWINGS BY ENGINEER

12.2.1. The contractor shall promptly and in such as is consistent with the Project Implementation Schedule, submit a copy of all Design and Drawings to the Engineer.

12.2.2 By forwarding the Design and Drawings to the Engineer, the contractor represents that he has determined and verified that the design and engineering including field construction criteria related thereto are in conformity with the specifications and standards.

PRICE BID

The price bid shall be as per the following format and the bidders are requested to fill the rates and send as mentioned in the NIT on Bid Submission.

Item no.	Description of Items	Unit	Qty.	Rate (in Rs)	Amount (in Rs)
1	Earth work excavation in foundations, for plinth beams, column footings, rafts, trenches, sumps, drains, equipment foundations and in plinths etc.in all types of soils with Mechanical Digger/Excavator/Backhoe JCB including shoring, strutting, dewatering the subsoil water and pumping the same outside the premises from the excavations including, concrete breakings, backfilling around constructed RCC Sub-structure Works by the excavated earth, as directed by Engineer-Incharge with spreading, levelling and consolidating properly upto a depth of 1.50 Mtr.	13.50	Cum		-
2	Supplying and laying of Soling under floors and foundations wherever required for the thickness of 200mm with locally available boulders of 80mm down sizes along with the packing with lesser size boulders as per the approval by Engineer-in-charge including laying to required level including filling voids with approved quality of stone screening and binding materials all as directed.	37.50	Sq. Mtr.		-
3	Providing and laying average 100mm thick PCC 1:2:4 by using graded stone aggregate 20mm nominal size for plinth protection over a consolidated soling bed.	3.75	Cum		
4	Providing and laying in Position Reinforced Cement Concrete OF M-30 Grade machine batched, machine mixed and machine vibrated Design Mix cement concrete of below specified grade for structural elements. The rate shall also included the cost of admixtures required to be added to accelerate or retard the setting of concrete and improve workability without imparing strength and durability with necessary curing etc., complete as directed and working at all levels and heights. Minimum quantity of cement shall be as per IS 456-2000 latest revision. The Design Mix is to be approved by the contractor before using the same. Honey comb, if any, shall be rectified only with polymer concrete or epoxy mortar with quartz sand as suggested by Engineer-in-charge without any additional cost.	11.70	Cum		-
5	Supplying, fabricating and placing in position TMT reinforcement bars Fe-500 of approved make conforming to IS - 1786 for RCC Structures/items as per design including transporting steel to the work site, handling wastage, decoiling, cutting, bending, fabricating to required shape, placing in position and	0.50	MT		

To be quote in excel file

Balmer Lawrie & Co. Ltd. Temperature Controlled Warehouse, Mumbai
Tender no. BL/LI/TCW-MUM/053 dt. 05.11.2020

	binding with 18 gauge GI wires, welding if necessary by using approved welding rods etc., for all levels and structures complete. The quoted rate shall be inclusive of the cost of binding wire and the same will not be measured and paid separately. (Rolling margins and wastage shall not be paid). Measurement shall be made on the length basis and converted into weight by using standard co-efficient mentioned in the Technical Specifications.				
6	Providing, fabricating, fixing and placing structural steel works for Insert Plates and placing in position. Insert Plates shall be made from MS Plates of requisite thickness and mild stone rods as per the design and drawing. Fabrication to be done as per I.S Codes of latest revision. Insert Plates are to be painted with one coat of primer of Zinc Phosphate and 2 Coats of Synthetic Enamel Paint of approved make and with approved colour.	6.00	MT		
7	Providing and fixing in position 1100 mm high hand rail by using 32 NB medium weight MS pipes for Posts and top pipe. The posts are to be placed at 1500 mm c/c. 25 NB medium weight MS. pipes are to be used for mid rail, including 100 x 6mm toe plate. The rate shall include fixing nuts, bolts, washers, base plates of 100x100x8mm with 2 coats of synthetic enamel paint over a coat of approved primer of zinc phosphate, etc. complete as specified and directed.	90.00	Rmt		
8	Supply and fixing of trapezoidal profiled colour coated Aluminum / Zinc alloy steel for roofing and side sheeting with 0.5mm TCT (total coated thickness) of approved colour.	225.00	Sq. Mtr.		
9	Supply and application of one coat of primer of Zinc Phosphate and 2 Coats of Synthetic Enamel Paint of approved make and with approved colour. The surface has to be cleaned first with the application of wire brush and then applying the paint over the cleaned surfaces.	300.00	Sq. Mtr.		
	Sub-total				-
	Add GST				
	Sub-total with GST				

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