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ಹೆಸರಗಟ್ಟೆ ಲೇಕ್ ಪೋಸ್ಟ್, ಬೆಂಗಳೂರು-560 089
ಭಾ.ಕೃ.ಅನು.ಪ.- ಭಾರತೀಯ ಬಾಗವಾನಿ ಅನುಸಂಧಾನ ಸಂಸ್ಥಾನ
ಹೆಸರಗಟ್ಟೆ ಲೇಕ್ ಪೋಸ್ಟ್, ಬೆಂಗಳೂರು - 560 089
ICAR-Indian Institute of Horticultural Research
Hesaraghatta Lake Post, Bengaluru - 560 089
EPABX: 080-23086100 Extn: 218 & 217
FAX: 080-28466291 – Email: purchase.iihr@icar.gov.in



F.No.5-60/2023-24/SP/IIHR/

Dated:26.10.2023

NOTICE FOR INVITING TENDER THROUGH E-PROCUREMENT

Online Bids are invited from interested firms under **Two bid system (Technical bid/financial bid)** for construction of Tin shade structure along with the side and electrical installation with wiring of seed processing lab at ICAR-IIHR, CHES-Bhubaneswar, Odisha 751019. Manual bids will not be entertained.

Tender documents may be downloaded from e-procurement website of CPPP <https://eprocure.gov.in/eprocure/app> as per the schedule given in CRITICAL DATE SHEET as under:

CRITICAL DATE SHEET

Tender No.	F.No.5-60/2023-24/SP/IIHR/
Name of Organization	ICAR-INDIAN INSTITUTE OF HORTICULTURAL RESEARCH, Hesaraghatta Lake Post, Bangalore
Date and Time for Issue/Publishing	26.10.2023 at 05:00 PM
Document Download/Sale Start Date and Time	26.10.2023 at 05:00 PM
Bid Submission start Date and Time	26.10.2023 at 05:00 PM
Bid Submission End Date and Time	15.11.2023 at 03:00 PM
Date and Time for Opening of Technical Bids	17.11.2023 at 10:00 AM
Address for Communication	Senior Administrative Officer (Purchase), IIHR, Hesaraghatta Lake Post, Bangalore

Sd/-
CHIEF ADMINISTRATIVE OFFICER

INSTRUCTIONS FOR ONLINE BID SUBMISSION

1. The Tender form/bidder documents may be downloaded from the <https://eprocure.gov.in/eprocure/app>. **Online submission of Bids through Central Public Procurement Portal (<https://eprocure.gov.in/eprocure/app>) is mandatory.** Manual/Offline bids shall not be accepted under any circumstances.
2. Tenderers/bidders are requested to visit the website <https://eprocure.gov.in/eprocure/app> regularly. Any changes/modifications in tender enquiry will be intimated by corrigendum through this website only.
3. In case, any holiday is declared by the Government on the day of opening, the tenders will be opened on the next working day at the same time. The Council reserves the right to accept or reject any or all the tenders.
4. The Firms are required to deposit (in original) **EMD of Rs.35,000/-** in the shape of Demand Draft in favour of **THE DIRECTOR, ICAR, UNIT-IIHR payable at Bangalore** may be addressed to **Senior Administrative Officer (Purchase), IIHR, Hesaraghatta Lake Post, Bangalore-560089** on or before **bid opening date and time as mentioned in the Critical Date Sheet.**
5. **Please note that only online Bids will be accepted.**
6. Bidders need not to come at the time of Technical as well as Financial bid opening at IIHR. They can view live bid opening after login on CPPP e-procurement portal at their remote end. If any dispute arises, Within Bengaluru Jurisdiction only.
7. The firms are also required to upload copies of the following documents for Technical eligibility and Evaluation:-

- **Technical Bid**

1. **No EMD exemption is given for MSME/ Udyog Aadhar or NSIC and other firms**

2. Scanned copy of the documents Registered with PWD/CPWD/MES/Railways.
3. PAN Card copy
4. GST Number with Registration Certificate
5. Bank details of the firm.
6. Income Tax Returns for the last three years (2019-20,2020-21,2021-22).
7. Profit and loss account & Balance Sheet which are audited & duly certified by the Chartered Accountant for the last three years (2019-20,2020-21,2021-22).

8. Turnover of the business should be Rs.50.00 Lakhs per year (2019-20,2020-21,2021-22). And **Chartered Accountant certified profit and Loss account; Balance sheet to this effect may be enclosed.**
9. **Scanned copy of work/supply order for having successfully completed similar works during last 5 years ending last day of month previous to the one in which bids are invited should be either of the following:**
 - a) **Three similar completed works costing not less than the amount equal to 40(forty) percent of the estimated cost of Rs.6,90,000/- each**
or
 - b) **Two similar completed works costing not less than the amount equal to 50(Fifty) percent of the estimated cost of Rs.8,62,000/- each**
or
 - c) **One similar completed works costing not less than the amount equal to 80 (eighty) percent of the estimated cost of Rs.14,00, 000/- each**

(Similar work:

10. Latest copies of the GST returns for six months (January to June 2023)

• **Financial Bid:-**

- a) Price Bid as BOQ XXX.xls
- b) **The estimates is based on latest CPWD-DSR with all updates and correction slips. Firms/Contractors/Bidders should not quote too low or too high. To ensure quality materials, specification and workmanship, any tender with more than (+) or (-) 15% variation over and above or below the basic estimated cost will be summarily rejected.**
- c) **So, the bidders must take due care while quoting.**
- d) **Evaluation criteria: Tender will be awarded to the lowest quoted Firm among those firms qualified in the Technical Bid. In case, two or more firms quote the same amount in r/o all the items work together as a whole, then the tender will be awarded to the Firm which has got more average turnover in the last 3 years, based on IT returns/Profit & Loss account/Turnover duly certified by the CA and uploaded along with Tender through CPP.**

Sd/-
CHIEF ADMINISTRATIVE OFFICER

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Terms & Conditions

1. The tenderer shall quote rates, which will include the supply, installation & other incidental charges. GST, if any, should be indicated separately.
2. The rates should be quoted as per the BOQ uploaded on the CPP Portal (reference may be obtained from Annexure-III). GST, if any, should be indicated separately. It must be noted that the contract shall be awarded to the firm which fulfils all the required terms and conditions and remains L-I for **Total cost**.
3. The firm must also possess valid PAN No. & GST registration number and a copy of the same must also be enclosed with the tender document.
4. **Latest copies of the GST returns for six month(January to June 2023)**
5. Copy of Income Tax Return Statement may be furnished for the Financial year 2019-20, 2020-21, & 2021-22.
6. Profit and loss account & Balance Sheet which are audited & duly certified by the Chartered Accountant for the last three years (2019-20,2020-21,2021-22).
7. **Turnover of the business should be Rs.50.00 Lakhs per year (2019-20,2020-21,2021-22). And Chartered Accountant certified profit and Loss account; Balance sheet to this effect may be enclosed.**
8. Modification in the tender documents after the closing date is not permissible.
9. The successful firm shall **commence work** within 10 days from the date of confirmed **work order** and if the work not completed in time then EMD shall be forfeited. The rates quoted shall be valid for one year from the date of opening of tender.
10. The contractor/bidder or his representative may contact the undersigned at **Tel. No. 080-23086100 Extn: 217 & 211** for any further clarification. No variation in terms and quality of the items/specifications shall be entertained or else EMD/Security deposit shall be forfeited.
11. The bidder is advised to visit the site of works at his own expenses and obtain all information that may be necessary for preparing the quotation. Submission of quotation is acceptance by the tenderer that he has inspected the site or he is aware of all conditions.
12. The Director, ICAR-IIHR, shall have the right to reject all or any of the offers, accept more than one offer, and assign part of the job without assigning any reason.
13. Merely quoting of lowest rates does not mean that order shall be given to that firm. The competent authority will finally decide on the basis of quality & performance of past installations.
14. The Firms are required to deposit (in original) an **Earnest Money Deposit of Rs.35,000/-** amount mentioned against item in the form of Demand Draft from any of the Commercial Bank in favour of **THE DIRECTOR, ICAR, UNIT-IIHR payable at Bangalore** may be address to **Senior Administrative Officer (Purchase), IIHR, Hessaraghatta Lake Post, Bangalore-560089 on or before bid opening date and time as mentioned in the Critical Date Sheet**. No quotation shall be considered without the earnest money deposit. Demand draft drawn in favour of any officer other than ‘THE DIRECTOR, ICAR UNIT-IIHR payable at Bangalore’ will not be accepted and the tender will be rejected. The earnest money will be refunded only after the finalization of the procurement and no interest will be paid on earnest money. The request letter for refund of EMD & performance security is to be submitted by the firm.
15. Rates once finalized will not be enhanced/reduced during the currency of the contract.
16. In case, the successful bidder shows inability at any stage, after the contract is finalized and awarded, for whatsoever reason(s), to honour the contract, the earnest money /performance security deposited would be forfeited.
17. The Director, ICAR-IIHR reserves the right to cancel the contract at any time during the currency period of the contract without giving any reason.

18. The firm, to whom the tender will be awarded, will have to deposit the **performance security equal to 3% of the total quoted amount at which the Tender will be awarded within 21 days from the date of receipt of work order and the same will be retained during the Defect liability period(warranty) of One year. In the sense, for any material and execution defects, the firm has to set right the defects within 10 working days and maintain the said work.** If the services are not found to be satisfactory, the performance security is liable to be forfeited. No interest will be paid on performance security.
19. If any dispute(s) arises between IIHR and the firm with reference to the contract, IIHR will decide it and its decision will be binding on the firms.
20. Bid Validity: 90 days
21. Payment:- No advance or part payment will be given. The payment will be released after satisfactory completion of the work and certificate from the Indentor/Engineer. The payment shall be arranged by **ICAR-IIHR, CHES, BHUBANESWAR**.
22. **The supplier/firm has to submit the GST return for having remitted the GST amount paid by the institute to the concerned authority within 30 days from receipt of payment from IIHR, otherwise their EMD and SD/PS will not be released and such firms shall be blocklisted.**
23. **No EMD exemption is given for MSME/ Udyog Aadhar or NSIC and other firms**
24. GST extra as applicable should be indicated separately in the column provided. Otherwise such quotes will be rejected.

Payment Terms: In order to facilitate for speedy settlement of payment you are requested to furnish the following details as below:

1. **Name of the firm:**
2. **Name of the Bank:**
3. **IFSC Code of Bank:**
4. **Name of the Account & Account No.:**
5. **Branch Code:**
6. **Amount to be paid:**
7. **E-mail address of the party:**
8. **GST No. and Pan No. Copies**

‘Terms & Conditions are acceptable’

Dated

(Authorized signatory of the firm)

Annexure-III

(Reference for BOQ) (To be quoted in format provided on CPP Portal)

Price bid for: construction of Tin shade structure along with the side and electrical installation with wiring of seed processing lab at ICAR-IIHR, CHES-Bhubaneswar, Odisha 751019.

Sl. No.	Name of item	Quantity	Per unit price* (in figures/words) (as per BOQ)
01	construction of Tin shade structure along with the side and electrical installation with wiring of seed processing lab at ICAR-IIHR, CHES-Bhubaneswar, Odisha 751019. *	01 Unit	

*Annexure-VIII

- Items should be of reputed make and suitable for high end elite users
- **GST extra as applicable should be indicated separately in the column provided. Otherwise such quotes will be rejected.**
- **ICAR-IIHR, CHES-Bhubaneswar, Odisha 751019.**

Note: The above mentioned Financial Proposal/Commercial bid format is provided as BoQ_XXXX/xls along with this tender document at <https://eprocure.gov.in/eprocure/app>. Bidders are advised to download this BoQ_XXXX.xls as it is and quote their offer/rates in the permitted column and upload the same in the Financial bid. **Bidder shall not tamper/modify downloaded price bid template in any manner.** In case if the same is found to be tempered/modified in any manner, tender will be completely rejected and EMD would be forfeited and tenderer is liable to be banned from doing business with IIHR.

Annexure-IV

EPABX: 080-23086100 Extn: 218 & 217
FAX: 080-28466291 - Email: purchase.ihr@icar.gov.in



ICAR-INDIAN INSTITUTE OF HORTICULTURAL RESEARCH

HESSARAGHATTA LAKE POST, BANGALORE-560 089

Name of the Firm _____

Registered/Postal Address _____

1	Permanent Account Number (PAN)	
2	GST Registration No.	
3	Bank Details	
a	Bank Name	
b	Branch Address	
c	Account Number	
d	Type of account (current/saving) MICR No.	
e	IFSC Code	

Date:

Name of the Authorized Signatory

Place:

Stamp & Signature

TENDER ACCEPTANCE LETTER
(To be given on Company Letter Head)

Date:

To,
The Director,
ICAR-IIHR,
Hesaraghatta Lake Post,
Bangalore-560089.

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No. _____

Name of Tender/Work:

Dear Sir,

1. I/ We have downloaded/obtained the tender document(s) for the above mentioned 'Tender/work' from the web site(s) namely:

As per your advertisement, given in the above mentioned website(s).

2. I/We hereby certify that I/We have read the entire terms and conditions of the tender documents from Page No. _____ to _____ (including all documents lime annexure(s), schedule(s), etc...) which form part of the contract agreement and I/We shall abide hereby the terms/conditions/clauses contained therein.
3. The corrigendum(s) issued from time to time by your department/organization too have also been taken into consideration, while submitting this acceptance letter.
4. I/we hereby unconditionally accept the tender conditions of above mentioned tender documents/corrigendum(s) in its totality/entirely.
5. I/we do hereby declare that our Firm has not been black-listed/debarred by any Govt. Department/Public sector undertaking.
6. I/we certify that all information furnished by our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/organization shall without giving any notice or reason therefore or summarily reject that bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,

(Signature of the Bidder, with Official Seal)

INSTRUCTIONS FOR ONLINE BID SUBMISSION

The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at <https://eprocure.gov.in/eprocure/app>.

REGISTRATION

- Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL <https://eprocure.gov.in/eprocure/app>.) by clicking on the link '**Online bidder Enrollment**' on the CPP Portal which is free of charge.
- As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (class II or Class III certificates with signing key usage) issued by any certifying authority recognized by CCA India (e.g. Sify/nCode/eMudhra etc.) with their profile.
- Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC's to others which may lead to misuse.
- Bidder then logs in to the site through the secured log-in by entering their users ID/password and the password of the DSC/e-Token.

SEARCHING FOR TENDER DOCUMENTS

- There are various search options built in the CPP Portal. To facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
- Once the bidders have selected the tenders they are interested in, they may download the required documents/tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS/e-mail in case there is any corrigendum issued to the tender document.
- The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification/help from the Helpdesk.

PREPARATION OF BIDS

- **Bidder are requested to visit the site at the Institute ICAR-IIHR, CHES-Bhubaneswar, Odisha 751019 and discuss with Senior Engineer, ICAR-CIFA, Bhubaneswar, before preparing the bid clarify the doubts and understand the requirements.**

- Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents- including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document/schedule and generally, they can be in PDF/XLS/RAR/DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use 'My Space' or 'Other important Documents' area available to them to upload such documents. These documents may be directly submitted from the 'My Space' area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

SUBMISSION OF BIDS

- Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other technical issues.
- The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- Bidder has to select the payment option as 'offline' to pay the tender fee/EMD as applicable and enter details of the instrument.
- Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
- Bidders are requested to note that they should necessarily submit their financial bids in the Format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cell with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.
- The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage

encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric, encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid openers public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.

- The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- Upon the successful and timely submission of bids (i.e. after clicking ‘Freeze Bid Submission’ in the portal), the portal will give a successful bid submission message and a bid summary will be displayed with the bid no. and the date and time of submission of the bid with all other relevant details.
- The bid summary has to printed and kept as an acknowledgement of the submission of the bid.

ASSISSTANCE TO BIDDERS

- Any queries relating to the tender documents and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contract person indicated in the tender.
- Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk.

Annexure-VII

Details of Works & EMD

Sl. No.	Purchase of item	Qty	Earnest Money in INR	File. No. for reference
01	construction of Tin shade structure along with the side and electrical installation with wiring of seed processing lab at ICAR-IIHR,CHES-Bhubaneswar, Odisha 751019.**	01 UNIT	Rs.35,000/-	F.No.5-60/2023-24/SP/IIHR

Note:

- 1) EMD defined on to the Portal is MINIMUM. Bidder has to submit the EMD as per item for which quoting for.
- 2) **No EMD exemption is given for MSME/ Udyog Aadhar or NSIC and other firms**

* ICAR-IIHR,CHES-Bhubaneswar, Odisha 751019.

**TECHNICAL SPECIFICATION FOR: construction of Tin shade structure along with
the side and electrical installation with wiring of seed processing lab at ICAR-
IIHR,CHES-Bhubaneswar, Odisha 751019 ***

ESTIMATE

Sl.No	Description of items	Qty	Unit
1	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in-charge.(item code:15.3) 8 x 0.60m x 0.30m	1.44	m3
2	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.In cement mortar (item code:15.7.4) 2 x 20.5m x 0.25m x 0.60m	6.15	m3
3	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size) (item code:5.2.2) 8 x 0.60m x 0.30m x 3.00m	4.32	m3
4	Centering and shuttering including strutting, propping etc. and removal of form for :Columns, Pillars, Piers, Abutments, Posts and Struts (item code:5.9.6) 8 x 1.80m x 3.00m	43.20	m2
5	Steel reinforcement for R.C.C. work including straightening, cutting,bending, placing in position and binding all complete above plinth level.Hot rolled deformed bars (item code:5.22A.4) 1.5 x 4.32 = 6.48qtl	648.00	Kg

6	Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in super structure above plinth level up to floor V level in :Cement mortar 1:4 (1 cement : 4 coarse sand) (item code:6.34.1) 2 x 14.5m x 3.00m x 0.25m 1 x 7.20m x 3.00m x 0.25m 1/2 x 7.20m x 1.20m x 0.25m	28.23	m3
7	20 mm cement plaster of mix :1:4 (1 cement: 4 coarse sand) (item code:13.6.1) 4 x 14.5m x 3.00m 2 x 7.20m x 3.00m 1 x 7.20m x 1.20m	225.84	m2
8	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete. (item code:13.80) 4 x 14.5m x 3.00m 2 x 7.20m x 3.00m 1 x 7.20m x 1.20m	225.84	m2
9	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm (item code:13.48.1) 4 x 14.5m x 3.00m 2 x 7.20m x 3.00m 1 x 7.20m x 1.20m	225.84	m2

10	<p>Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately)</p> <p>For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)</p> <p>Powder coated aluminium (minimum thickness of powder coating 50 micron) (item code:21.1.2.2) 1x1.2x2.1=2.52m² @ 9kg</p>	22.68	kg
11	<p>Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge .(Cost of aluminium snap beading shall be paid in basic item):With float glass panes of 8 mm thickness (weight not less than 20 kg/ sqm) (item code:21.3.3) 1.20m x 2.10m</p>	2.62	m ²

12	<p>Providing and fixing GI metal ceiling system of 600 x 600 mm module which includes providing and fixing 'C' wall angle of size 20x30x20 mm made of 0.5 mm thick pre painted steel along the perimeter of the room with the help of nylon sleeves and wooden screws at 300 mm center to center, suspending the main C carrier of size 10x38x10 mm made of GI steel 0.7 mm thick from the soffit with help of soffit cleat 37x27x25x1.6 mm, rawl plugs of size 38x12 mm and C carrier suspension clip and main carrier bracket at 1000 mm c/c. inverted triangle shaped spring tee having height of 24 mm and width of 34 mm made of GI steel 0.45 mm thick is then fixed to the main C carrier and in direction perpendicular to it at 600 mm centres with help of suspension brackets. wherever the main C carrier and spring T have to join, C carrier and spring T connectors have to be used. All sections to be galvanized @ 120 gms/sqm (both side inclusive), fixing with clip in tiles into spring T with:clip in plain beveled edge global white color tiles of size 600 x 600 and 0.5 mm thick with 25 mm height, made of GI sheet having galvanizing of 100 gms/ sqm (both side inclusive) and 20% perforation area with 1.88 mm dia holes and having NRC of 0.5, electro statically polyster powder coated of thickness 60 microns (minimum) including factory painted after bending and perforation.</p> <p>14m x 8m</p>	112.00	m2
13	<p>Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.Hot finished seamless type tubes (item code:10.16.2)</p> <p>For one no. truss</p> <p>Ridge beam (65mm dia) 1no x 8.40m = 8.40m</p> <p>King post (60mm dia) 1no x 1.20m = 1.20m</p> <p>9.60m @6.42kg/m = 61.63kg</p> <p>Side post(50mm dia) 2 x 1.20m = 2.40m 2 x 1.60m =1.20m</p> <p>Strut(50mm dia) 2x 1.20m = 2.40m 2 x 0.90m = 1.80m</p> <p>Principal rafter(50mm dia) 2 x 4.50m = 9.00m</p> <p>16.80m @5.03kg/m = <u>84.50kg</u></p> <p>146.13 kg</p> <p>For 4nos of truss = 4 x 146.13 kg</p>	1481.64	Kg

	<p>Prulin (40mm dia -medium) 7nos x 21.0m= 147.00m Bottom cord (40mm dia -medium) 5nos x 21.00m = 105.00m 252.00m @3.50kg/m</p>		
14	<p>Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.(10mm size MS plate) (item code:10.2) 2 x 8nos x 0.30m x 0.30m = 1.44m² @78.4kg/m²</p>	112.90	kg
15	<p>Providing and fixing precoated galvanised 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 12 metre or as desired by Engineerin-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.(item code:12.50) 2 x 14.00m x 4.50m</p>	126.00	m ²
16	<p>Providing and fixing of anchor bolt (20mm) with nuts complete set for installation of truss system as per the instruction of Engineer-in-charge.</p>	8.00	sets
17	<p>Providing and fixing precoated galvanised steel sheet roofing accessories 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 complete :Ridges plain (500 - 600mm) (item code:12.51.1)</p>	14.00	mt

18	Providing and fixing precoated galvanised steel sheet roofing accessories 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 complete :Gutter (600 mm over all girth) (item code:12.51.6) 2 x 14.00m	28.00	m
19	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.110 mm diameter (item code:12.41.2) 6nos x 12.0m	72.00	m
20	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.Coupler 110 mm (item code:12.42.1.2)	60.00	nos
21	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.Shoe (Plain) 110 mm Shoe (item code:12.42.6.2)	12.00	nos
22	Dismantling of existing water supply line with overehad tank and resetting the same for supply of water as required. The damage part of pipe of required dia and ancillories fitting to be provided such as control valve etc. as required.	11.20	mt
23	Providing and fixing roof top exhaust fan of throat size 600mm of polycarbonated made as per the instruction.	2.00	nos
24	Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with gray cement slurry @ 3.3kg/ sqm including grouting the joints with white cement and matching pigments etc. complete (size of tiles 600 x 600mm	112.00	sqm

25	Supplying and fixing of following ways surface/ recess(4+12) mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)	2.00	nos
26	Wiring for circuit/main wiring alongwith earth wire with the following sizes(4 X 6 sq. mm + 2 X 6 sq. mm earth wire) of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required .	77.20	mt
27	Wiring for sub main/circuit wiring alongwith earth wire with the following sizes (2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire)of FRLS PVC insulated copper conductor, singlecore cable in surface/ recessed medium class PVC conduit as required.	10.00	mt
28	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.	20.00	point
29	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providng and fixing 2 nos. 5 pin 15/16 A modular socket outlet and 2 nos. 15/16 A modular switch, connections etc. as required.	26.00	nos
30	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providng and fixing 3 nos. 5 pin 5/6 A modular socket outlet and 3 nos. 5/6 A modular switch, connections etc. as required.	2.00	nos
31	Wiring for power point wiring alongwith earth wire with the following sizes (2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire)of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.	212.50	mtrs
32	Supplying and fixing of 63A 4pole MCB as required.	3.00	no
33	Supplying and fixing of 25A C type SP MCB as required.	2.00	nos
34	Supplying and fixing of 16A C type SP MCB as required.	3.00	nos
35	Supplying and fixing of 78W high speed ceiling fan(48") with good star rating as required.	8.00	nos

36	Supplying and fixing of 40W LED ceiling surface 2 x 2 panel light.	12.00	nos
37	Supplying and fixing of DP switch board	6.00	nos

Sd/-
CHIEF ADMINISTRATIVE OFFICER