



ಭಾ. ಕ್ರೀ. ಅನು. ಜಿ – ಭಾರತೀಯ ಹorticultral ರಿಸರ್ಚ್ ಸೆಂಟರ್ ನಾ ನಂಂತರ
ಕೆಲರಳ್‌ನ್ನು ಕರೆ ಅಂಜೇ, ಬೆಂಗಳೂರು-೫೬೦೦೮೯

ಭಾ.ಕೃ.ಅನು.ಪ.- ಭಾರತೀಯ ಬಾಗವಾನಿ ಅನುಸಂಧಾನ ಸಂಸ್ಥಾನ
ಹೆಸರಘಟ್ಟಾ ಲೆಕ ಪೋಸ್ಟ್, ಬೆಂಗಳೂರು - ೫೬೦೦೮೯

**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.5-51/2022-23/SP/IIHR/

Dated: 10.06.2022

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 Laboratory Building with water supply system and electrical installation at CHES, Bhubaneswar**, 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.5-51/2022-23/SP/IIHR/
Name of Organization	ICAR-INDIAN INSTITUTE OF HORTICULTURAL RESEARCH, Hesaraghatta Lake Post, Bangalore
Date and Time for Issue/Publishing	10.06.2022 at 04:00 PM
Document Download/Sale Start Date and Time	10.06.2022 at 04:00 PM
Bid Submission start Date and Time	10.06.2022 at 04:00 PM
Bid Submission End Date and Time	30.06.2022 at 03:00 PM
Date and Time for Opening of Technical Bids	02.07.2022 at 10:00 AM
Address for Communication	Asstt. Admn. Officer (Store Purchase), IIHR, Hesaraghatta Lake Post, Bangalore

Sd/-

CHIEF ADMINISTRATIVE OFFICER(Sr.Grade)

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 interested Firms are required to deposit (in original) **EMD of Rs.44,000/- @ 2% of the estimated value of the work** in the shape of Demand Draft in favour of **THE DIRECTOR, ICAR, UNIT-IIHR payable at Bangalore** may be address to **Asstt. Asstt. Admn. Officer (Purchase), IIHR, Hessaraghatta 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. However hard copy of documents and technical brochures uploaded by the firm deposited to Asstt. Asstt. Admn. Officer (Purchase), IIHR, Hessaraghatta Lake Post, Bangalore-560089 on or before bid opening date and time as mentioned in the Critical Date Sheet.**
 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. Scanned copy of the documents Registered with PWD/CPWD/MES/Railways/PWD.
 2. PAN Card copy
 3. GST Number with Registration Certificate
 4. Bank details of the firm.
 5. Scanned copy of similar contracts to Government Departments.
 6. Income Tax Returns for the last three years (2018-19, 19-20,20-21)
 7. Profit and loss account & Balance Sheet which are audited & duly certified by the Chartered Accountant for the last three years.
 8. Turnover of the business should be Rs.66.00 Lakhs per year, to be certified by

- Chartered Accountant as per Balance Sheets used for ITR filing.**
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 Rs.8,78,000/- each
 - b) Two similar completed works costing not less than Rs.10,97,500/- each
 - c) One similar completed work costing not less than Rs.17,56,000/-

(Similar work: Earth work in excavation, supplying and filling plinth, Providing and laying in position cement concrete, Reinforced cement concrete work walls & beams, Centering and shuttering, Brick work with common burnt, Half brick masonry, Structural steel work, etc.)
 10. MSME or Udyog Aadhar or NSIC is a must for EMD Exemption otherwise, firms have to furnish EMD.
 11. Tender acceptance letter (Annexure-V) is mandatory.
 12. Latest copies of the GST returns for the current year/previous year.

- **Financial Bid:-**

- a) Price Bid as BOQ XXX.xls
- b) The estimates are made by qualified engineer of the ICAR system, and 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(Sr.Grade)

Annexure-II

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. Copy of Financial year 2017-18, 2018-19, 2019-20, 20-21, Income Tax Statement may be furnished.
5. The firm should be in existence for over 05 (Five) years in the trade with the business turnover of not less than **Rs.66 Lakhs** per annum for 2016-17, 2017-18 & 2018-19 or 2017-18,2018-19 2019-20, & 2020-21.Chartered Accountant certified profit and Loss account, Balance sheet to this effect may be enclosed.
6. Modification in the tender documents after the closing date is not permissible.
7. 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.
8. The contractor/bidder or his representative may contact the undersigned at **Tel. No. 080-23086100 Extn: 218 & 217** 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.
9. 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.
10. 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.
11. 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.
12. The interested Firms are required to deposit (in original) an **Earnest Money Deposit of Rs.44,000/- @ 2% of the estimated value of the work** 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 **Asstt. Admn. 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.
13. Rates once finalized will not be enhanced/reduced during the currency of the contract.
14. 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.

15. 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.
16. 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.
17. 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.
18. Bid Validity: 180 days
19. 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.
20. **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 block listed.**
21. **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 laboratory building with water supply system and electrical installation at CHES, Bhubaneswar.**

Sl. No.	Name of item	Quantity	Per unit price* (in figures/words) (as per BOQ)
01	Construction of Laboratory Building with water supply system and electrical installation at CHES, Bhubaneswar *	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.**
- **The work is to be done at CHES, Bhubaneswar.**

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.iihr@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 like 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 Head, CHES, Bhubaneswar / Sr. Engineer, 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 I 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 wll 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 be printed and kept as an acknowledgement of the submission of the bid.

ASSISTANCE 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 Laboratory Building with water supply system and electrical installation at CHES, Bhubaneswar.	01 UNIT	Rs.44,000/-	F.No.5-51/2022-23/SP/IIHR

Note: EMD defined on to the Portal is MINIMUM. Bidder has to submit the EMD as per item for which quoting for.

***WORK at CHES, Bhubaneswar.**

**Technical Specification for Construction of Laboratory Building with water supply system
and electrical installation at CHES, Bhubaneswar.**

Sl.No	Description of items	Qty	Unit
1	Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m for all kind of soil. (item code : 2.8.1)		
	Col : 10nos x 1.20m x 1.20m x 1.80m	25.92	
	Wall : 2 x 12.90m x 1.00m x 1.00m	25.80	
	2 x 5.40m x 1.00m x 1.00m	10.80	
	2 x 6.00m x 1.00m x 1.00m	12.00	
	1 x 1.20m x 1.20m x 1.50m	2.16	
		76.68	m3
2	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete. (item code:2.27)		
	Col: 13nos x 1.20m x 1.20m x 0.30m	5.61	
	Wall : 2 x 12.90m x 1.00m x 0.15m	3.87	
	2 x 5.70m x 1.00m x 0.15m	1.71	
	2 x 6.00m x 1.00m x 0.15m	1.80	
	Under floor : 12.30m x 5.40mx 0.8m	53.13	
		66.12	m3
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :1:4:8 (1 Cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size) (item code:4.1.8)		
	13nos x 1.20m x 1.20m x 0.15m	2.81	
	2 x 12.90m x 1.00m x 0.08m	2.06	
	2 x 5.70m x 1.00m x 0.08	0.91	
	2 x 6.00m x 0.08m x 0.08	0.77	
	12.30m x 5.40m x 0.10m	6.64	
		13.19	m3

4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size) (item code:4.1.3)		
	12.3m x 5.40m x 0.08m	5.31	
	5.00m x 2.00m x 0.08m	0.80	
		6.11	m3
5	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size).(Item code: 5.1.3)		
	13nos x 1.20m x 1.20m x 0.10m	1.87	
	10nos x 0.50m x 0.50m x 0.30m	0.75	
	3 x 0.30m x 0.20m x 0.20m	0.05	
		2.67	m3
6	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 : 5.2.2 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)		
	3 x 0.25m x 0.25m x 5.70m	1.07	
	10nos x 0.40m x 0.25m x 5.70m	5.70	
		6.77	m3
7	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).(Item code:5.3)		
	P.Bend: 2 x 12.90m x 0.25m x 0.25m	1.61	
	4 x 5.70m x 0.25m x 0.25m	1.42	
	Lintel beam : 2 x 12.9m x 0.25m x 0.15m	0.97	

	2 x 5.70m x 0.25m x 0.15m	0.43	
	Roof beam : 2 x 12.20m x 0.25m x 0.20m	1.29	
	4 x 5.70m x 0.25m x 0.20m	1.14	
	Chajja : 8 x 2.00m x 0.60m x 0.10m	0.96	
	3.00m x 2.00m x 0.10m	0.60	
	Roof : 12.90m x 6.00m x 0.10m	7.74	
	Working platform : 18.00m x 0.60m x 0.10m	1.08	
	2 x 6.00m x 0.25m x 0.15m	0.54	
	6.00m x 0.25m x 0.20m	0.30	
		18.08	m3
8	Centering and shuttering including strutting, propping etc. and removal of form for : 5.9.1 Foundations, footings, bases of columns, etc. for mass concrete.(Item code:5.9.1)		
	13 x 2.00m x 0.30m	7.80	m2
9	Centering and shuttering including strutting, propping etc. and removal of form for :Suspended floors, roofs, landings, balconies and access platform (item code:5.9.3)		
	12.90m x 6.00m	77.40	
	8 x 2.00m x 0.60m	9.60	
		87.00	m2
10	Centering and shuttering including strutting, propping etc. and removal of form for :Shelves (Cast in situ) (item code:5.9.4)		
	18.00m x 0.60m	10.80	m2
11	Centering and shuttering including strutting, propping etc. and removal of form for :Lintels, beams, plinth beams, girders, bressumers and cantilevers (item code:5.9.5)		
	PL : 2 x 12.90m x 0.50m	12.90	
	2 x 6.00 m x 0.50m	6.00	
	LB : 2 x 12.90m x 0.30m	7.74	
	2 x6.00m x 0.30m	3.60	
	RB : 2 x 12.90m x 0.40m	10.32	
	2 x 6.00m x 0.40m	4.80	
	3 x 6.00m x 0.50m	9.00	
		54.36	m2

12	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.Hot rolled deformed bars.(Item code:5.22.4)		
	0.90 x 2.67 = 2.403		
	1.20 x 6.77 = 8.124		
	1.00 x 18.08 = 18.08		
	28.607 qtl	2860.70	kg
13	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:Cement mortar 1:6 (1 cement : 6 coarse sand) (item code:6.1.2)		
	2 x 12.90m x 0.40m x 0.30m	3.10	
	2 x 12.90m x 0.25m x 1.00m	6.45	
	2 x 6.00m x 0.40m x 0.30m	1.44	
	2 x 6.00m x 0.25m x 1.00	3.00	
	2 x 6.00m x 1.00m x 0.25m	3.00	
		16.99	m3
14	Brick work with clay flyash F.P.S. (non modular) brick of class designation 7.5 in superstructure above plinth level up to floor five level in :Cement mortar 1:6 (1 cement : 6 coarse sand) (item code:6.32.2)		
	2 x 12.30m x 3.20m x 0.25m	20.64	
	2 x 5.4m x 3.20m x 0.25m	8.64	
		29.28	
	(-) Deduction for 'D' & 'W'		
	D : 1 x 1.80m x 2.10m x 0.25m	(-)0.945	
	W : 8 x 2.00m x 1.20m x 0.25m	(-)4.80	
		23.53	m3
15	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.Cement mortar 1:3 (1 cement :3 coarse sand) (item code :6.13.1)		
	2 x 4.80m x 3.20m	30.72	m2
16	Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry. (item code:6.15)	30.72	m2

17	Providing and fixing ISI marked flush door shutters conforming to IS :2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws (item code:9.20.2)		
	1.80m x 2.10m	3.78	
	2 x 1.20m x 2.10m	5.04	
	1 x 1.50m x 2.10m	3.15	
	11.97		m2
18	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. (item code:10.2)		
	50 x 50 x 6		
	Door : 1 x 6.00m = 6.00m		
	2 x 5.70m = 11.40m		
	1 x 5.40m= 5.40m		
	22.80m @ 4.5 kg/m	102.60	
	35 x 35 x 6		
	Window : 7 x 6.40m = 44.80 m		
	44.80 @ 3 kg/m	134.40	
	237.00		kg
19	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.Fixed to steel windows by welding (item code:9.48.1)		
	7 x 2.00m x 1.20m = 16.80m2		
	16.80 m2 @24.80 kg/m2	416.64	kg
20	12 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) (item code:13.1.1.)		
	2 x 12.30m x 3.60m	88.56	
	2 x 12.00m x 3.60m	86.40	
	2 x 6.50m x 3.60m	46.80	
	12.30m x 6.00m	73.80	

	6.00m x 3.60m	21.60	
	Chajja : 8 x 1.80m x 1.50m	21.60	
		338.76	m2
21	20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand).(Item code:13.3.1)		
	2 x 12.90m x 5.00m	129.00	
	2 x 6.00m x 5.00m	60.00	
		189.00	m2
22	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete. (item code: 13.26)	317.16	m2
23	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm) (item code:13.47.1)	189.00	m2
24	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)	338.76	m2
25	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture (item code:13.62.1)		
	2 x 8 x 1.80m x 1.50m	43.20	
	2 .04m x 1.50m x 2.10m	31.50	
		74.70	m2

26	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) :For fixed portion Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron (item code:21.1.1.3)		
	7 x 2.00m x 1.20m = 16.80m ²		
	16.80 m ² @ 5.7 kg/m ²	95.76	Kg
27	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) :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) Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron) (item code:21.1.2.3)		
	7 x 2.00m x 1.20m = 16.80m ²		
	16.80 m ² @ 5.7 kg/m ²	95.76	Kg

28	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 5 mm thickness (weight not less than 12.50 kg/ sqm) (item code:21.3.2)	19.20	m2
29	Grading roof for water proofing treatment with Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) (item code:22.14.1)		
	12.90m x 6.00m x 0.08	6.19	m3
30	Providing and laying vitrified floor 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 grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.Size of Tile 600x600 mm (item code:11.41.2)		
	12.30m x 6.00m	73.80	
	60.00m x 0.10m	6.00	
		79.80	m2
31	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge Polished Granite stone slab jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent. (Item code:11.56.1)		
	12.00m x 0.90m	10.80	m2
	SANITARY INSTALLATION		

32	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes,having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. 15 mm nominal outer dia Pipes (item code:18.9.1)	6.00	mt
33	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. 25 mm nominal outer dia Pipes (item code:18.9.3)	26.00	mt
34	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge.50 mm nominal outer dia Pipes (item code:18.9.6)	15.00	mt
35	Providing and fixing brass made gate valve with CI wheel of approved quality ISI marked . 25mm nominal bore.	2.00	nos
36	Providing and fixing brass made gate valve with CI wheel of approved quality ISI marked . 50mm nominal bore.	1.00	nos
37	Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete, including painting of fittings and brackets, cutting and making good the wall wherever required :Size 600x450x200 mm (item code:17.11.2)	2.00	nos
38	Providing and fixing long body brass made with ss coat bib cock of approved brand (Jaguar/Kohler etc.)	2.00	nos
39	Providing and fixing 2000 litre capacity PVC tank of approved brand (Syntax or equivalent) on cemented platform with required delivery/suction system wiring etc. all complete.	1.00	nos

<u>ELECTRICAL INSTALLATION</u>			
40	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size (50 sq.mm) direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.	45.00	mt
41	Supplying of 50 sq.mmPVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade as required.	50.00	mt
42	Supplying and fixing of following ways (4 + 12) surface/ recess 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.)	1.00	set
43	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.	22.00	points
44	Wiring for circuit/ submain 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.	125.00	mt
45	Wiring for power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	95.00	mt
46	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 2 nos. 5 pin 15/16 A modular socket outlet and 2 nos. 15/16 A modular switch, connections etc. as required.	2.00	nos

47	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 nos. 5 pin 5/6 A modular socket outlet and 3 nos. 5/6 A modular switch, connections etc. as required.	4.00	nos
48	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 1 no. 5 pin 15/16 A modular socket outlet and 1 no. 25A modular AC starter, connections etc. as required.	3.00	nos
49	Supplying, installation, testing, Commissioning of inverter based split AC fitted with rotary compressor with nominal cooling capacity (5star rating) unit(1.5TR) both outdoor compressor unit and indoor cooling unit inside rooms with necessary accessories such as brass flare nut, screw PVC and other taps and making all arrangements for lifting the units up to the terrace, making hole, cutting the wall etcs. complete as required.(Make-Hitachi, Carrier ,Voltas)	2.00	nos
50	Supplying, installation, testing, Commissioning of inverter based split AC fitted with rotary compressor with nominal cooling capacity (5star rating) unit(2TR) both outdoor compressor unit and indoor cooling unit inside rooms with necessary accessories such as brass flare nut, screw PVC and other taps and making all arrangements for lifting the units up to the terrace, making hole, cutting the wall etcs. complete as required.(Make-Hitachi, Carrier ,Voltas)	1.00	nos
51	Supplying and installation, testing and commissioning of following voltage stabilizer(4KVA) having range 130-300 volt with high voltage/ low voltage over load auto tripping arrangement and 3 minutes delay starting and connection with 3 core flexible heavy duty copper conductor cable of required length etc. complete as required.(Make-V-guard, EL power, opto).	2.00	nos

52	Supplying and installation, testing and commissioning of following voltage stabilizer(5KVA) having range 130-300 volt with high voltage/ low voltage over load auto tripping arrangement and 3 minutes delay starting and connection with 3 core flexible heavy duty copper conductor cable of required length etc. complete as required.(Make-V-guard,EL power,opto).	1.00	nos
53	Supplying and fixing of 63A 4pole MCB as required.	1.00	nos
54	Supplying and fixing of 32A C type SP MCB as required.	3.00	nos
55	Supplying and fixing of 25A C type SP MCB as required.	2.00	nos
56	Supplying and fixing of 16A C type SP MCB as required.	7.00	nos
57	Supplying and fixing of 20W LED batten light as required.	3.00	nos
58	Supplying and fixing of 18W LED surface panel light(Square type) as required.	9.00	nos
59	Supplying and fixing of 78W high speed ceiling fan(48") with good star rating as required.	6.00	nos
60	Supplying and fixing of 45W street light with GI bracket clamp and other accessories as required.	4.00	nos
61	Supplying and fixing of modular regulator as required.	6.00	nos
62	Supplying and fixing of modular 5/6A 5 pin socket as required.	4.00	nos
63	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including GI wire accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc.with charcoal/ coke and salt as required.	1.00	nos

**Sd/-
CAO(Sr.Grade)**