

**F.NO. 1-2 /2019-20/EC/HQRS****Date: 21.06.2019**

**NOTICE INVITING e-TENDERS**  
**(NATIONAL COMPETITIVE BIDDING)**

Online bids are invited on single stage two bid systems for the **“Renovation of Electrical room and Portico in the main building at Muttukadu Experimental Station of CIBA, Muttukadu.”** with the General terms & conditions and technical specifications (Civil & Electrical) mentioned in the Annexure II & III respectively.

Tender documents may be downloaded from CIBA web site [www.ciba.res.in](http://www.ciba.res.in) (for reference only) and CPPP site <https://eprocure.gov.in/eprocure/app> as per the schedule as given in CRITICAL DATE SHEET as under.

**CRITICAL DATE SHEET :**

|   |                                       |
|---|---------------------------------------|
| Published Date                          | 21 <sup>st</sup> June 2019 (07.00 PM) |
| Bid Document Download / Sale Start Date | 21 <sup>st</sup> June 2019 (07.00 PM) |
| Bid Submission Start Date               | 21 <sup>st</sup> June 2019 (07.00 PM) |
| Bid Clarification Start Date            | 21 <sup>st</sup> June 2019 (07.00 PM) |
| Bid Clarification End Date              | 05 <sup>th</sup> July 2019 (03.00 PM) |
| Bid Submission End Date                 | 05 <sup>th</sup> July 2019 (03.00 PM) |
| Bid Opening Date                        | 06 <sup>th</sup> July 2019 (03.00 PM) |

Bids shall be submitted online only at CPPP website:  
<https://eprocure.gov.in/eprocure/app>. Manual bids are strictly not accepted under any circumstances.

E-procurement system ensures locking on the scheduled date and time. The system will not accept any bid after the scheduled date and time of submission of bid. The Tender Inviting Authority has all the rights to retender or cancel the tender at any stage without mentioning the reasons.

Tenderer / Contractor are advised to follow the instructions carefully provided in **Instructions to Bidders (ITB ) and General Condition of Contract (GCC)**, without fail, which are uploaded in our website at [www.ciba@res.in](http://www.ciba@res.in) under "TENDER", before submission of your bid. For clarification please send mail to [stores@ciba.res.in](mailto:stores@ciba.res.in)

Care has been taken to avoid contradiction between stipulation in the ITB, GCC and those in the other sections of the bidding documents. But wherever contradiction arises, if any, stipulations contained in the Schedule of Requirements shall prevail.

**Tenderer / Contractor are also advised to follow the instructions provided in the 'Instructions to the Contractors/Tenderer for the e-submission of the bids online through the Central Public Procurement Portal for e-Procurement at '<https://eprocure.gov.in/eprocure/app>'**

Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.

Not more than one tender shall be submitted by one contractor or contractors having business relationship. Under no circumstance will father and his son(s) or other close relations who have business relationship with one another (i.e. when one or more partner(s)/director(s) are common) be allowed to tender for the same contract as separate competitors. A breach of this condition will render the tenders of both parties liable to rejection.

Tenderer who has downloaded the tender from the CIBA website [www.ciba.res.in](http://www.ciba.res.in) and Central Public Procurement Portal (CPPP) website <https://eprocure.gov.in/eprocure/app> , <https://eprocure.gov.in/epublish/app> **shall not tamper/modify the tender form including downloaded price bid template in any manner.** In case if the same is found to be tampered / 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 CIBA.

Before the deadline for submission of the online bid, CIBA, Chennai reserves the right to modify the tender document terms and conditions. Such amendment / modification will be notified on website against said tender ID. Intending tenderers are advised to visit again CIBA website [www.ciba.res.gov.in](http://www.ciba.res.gov.in) and CPPP website <https://eprocure.gov.in/eprocure/app> at least 3 days prior to closing date of submission of tender for any corrigendum / addendum/ amendment.

**EMD Payment:**

|                  |                    |  |
|------------------|--------------------|--|
| Bid Security EMD | <b>Rs. 7,500/-</b> | <b>In words Rupees Seven thousand and five hundred only.</b> |
|------------------|--------------------|--|

Security deposit 5% value of contract (Interest free) including EMD has to be deposited on receipt of this office letter before commencement of work. Earnest Money Deposit is to be deposited by **Demand Draft** in favour of **ICAR Unit, CIBA and payable at Chennai** obtained from any Nationalized/ scheduled Bank valid for three months. Bidders are required to submit the details of EMD payment at the time of Bid Preparation.

The Hard Copy of original instruments in respect of earnest money deposit, and credit facility certificate must be delivered to The Director Central Institute of Brackishwater Aquaculture (ICAR), No. 75, Santhome High Road, R.A.Puram, Chennai – 600 028 on or before opening bid.

Bids will be opened as per date/time as mentioned in the **Tender Critical Date Sheet**. After online opening of Technical-Bid the results of their qualification as well Price-Bid opening will be intimated latter.

**Performance Security Deposit:**

The Performance guarantee deposit 5% value of work done will be deducted in the Final bill. The EMD/SD/Performance guarantee (Total 10%) will be refunded to the contractor only after completion of performance maintenance period. The performance maintenance period is **one year** from the date of completion of work. No interest will be paid to these deposits. **Performance Security deposit has to be claimed within three years after completion of performance maintenance period, otherwise it would be forfeited.**

### **Submission of Tender**

1. The tender shall be submitted online in two parts, viz., technical and price bid.
2. All the pages of bid being submitted must be signed and sequentially numbered by the bidder irrespective of nature of content of the documents before uploading.
3. The bids submitted through Post/Telegram/Fax/email shall not be considered and will be summarily rejected.
4. No correspondence will be entertained in this matter.

### **Technical Bid:**

The following documents are to be furnished by the Bidder/ Supplier / Contractor along with Technical Bid as per the tender document in the following order, failing which the competent authority reserves the right to reject the bid summarily at the bid opening stage itself without entertaining for further process:

- i) Signed and scanned copy of:
  1. Tender Acceptance Letter (Annexure-I) (To be given on Company Letter Head).
  2. Price Bid Undertaking (To be given on Company Letter Head).
  3. DD pertaining to Earnest Money Deposit
  4. MSME Certificate if claiming EMD exemption
  5. PAN card
  6. GST Certificate
  7. Valid Registration Certificate/ copy of enlistment approved by PWD/ CPWD or any other Govt. dept. and the current date value
  8. Affidavit of partnership/proprietary firm if applicable
  9. The contractor should furnish/enclose the proof of the execution of civil work in Govt. dept. in any of last three year value of Rs. **10.00** lakhs and above

### **Price Bid:**

- (a) Price bid undertaking
- (b) Schedule of price bid in the form of BOQ\_XXXX.xls.
- (c) There should not be any deviations from the Price bid template that been uploaded with this e-tender, otherwise the bid will be summarily rejected.

**PRICE BID UNDERTAKING**

(To be given on Company Letter Head)

From: (Full name and address of the Bidder)

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To,  
The Director,  
Central Institute of Brakishwater Aquaculture,  
75, Santhome High Road,  
R.A. Puram,  
Chennai – 600 028

Dear Sir/Madam,

**Sub : Price Bid Undertaking – Reg**

**CIBA Ref.No. : F.No:1-2/2019-20/EC/Hqrs.**

I submit the Price Bid for the "**Renovation of Electrical room and Portico in the main building at Muttukadu Experimental Station of CIBA, Muttukadu.**" as envisaged in the Bid document.

2. I have thoroughly examined and understood all the terms and conditions as contained in the Bid document, and agree to abide by them.

3. I offer to supply at the rates as indicated in the price Bid of this tender.

Place:

Yours Faithfully,

Date:

Signature of authorized Representative

**Schedule of price bid in the form of BOQ XXXX .xls:**

The below mentioned Financial Proposal/Commercial/Price bid format is a model, 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 Price 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 CIBA, Chennai.

|    | A  | B                | D                    | E                    | F                       | M  | BA                                  | BC                    |               |
|----|--|------------------|----------------------|----------------------|-------------------------|--|-------------------------------------|-----------------------|---------------|
| 1  | Validate Print Help  |                  | <b>Item Rate BoQ</b> |                      |                         |  |                                     |                       |               |
| 4  | Tender Inviting Authority:   |                  |                      |                      |                         |  |                                     |                       |               |
| 5  | Name of Work:  |                  |                      |                      |                         |  |                                     |                       |               |
| 6  | Contract No:   |                  |                      |                      |                         |  |                                     |                       |               |
| 8  | Name of the Bidder/<br>Bidding Firm<br>/ Company :   |                  |                      |                      |                         |  |                                     |                       |               |
| 9  | <b>PRICE SCHEDULE</b><br><small>(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)</small> |                  |                      |                      |                         |  |                                     |                       |               |
| 10 | NUMBER #   | TEXT #           | NUMBER #             | TEXT #               | NUMBER                  | NUMBER #   | NUMBER #                            | TEXT #                |               |
| 11 | Sl. No.  | Item Description | Quantity             | Units                | Estimated Rate in Rs. P | BASIC RATE In Figures To be entered by the Bidder in Rs. P | TOTAL AMOUNT Without Taxes in Rs. P | TOTAL AMOUNT In Words |               |
| 12 | 1  | 2                | 4                    | 5                    | 6                       | 13   | 53                                  | 55                    |               |
| 28 | 1  | Item 1           |                      |                      |                         |  |                                     |                       |               |
| 29 | Total in Figures   |                  |                      |                      |                         |  |                                     | 0.00                  | INR Zero Only |
| 30 | Quoted Rate in Words   |                  |                      | <b>INR Zero Only</b> |                         |  |                                     |                       |               |
| 32 |  |                  |                      |                      |                         |  |                                     |                       |               |

1. The rates shall be quoted in **Indian Rupee only.**
2. The rates has to filled at the particular cells in the BoQ\_XXXX.xls such as taxes, fees, levies, etc. and any revision in the statutory taxes, fees, etc will be the responsibility of the Bidder.
3. The payment will be made to the Consultant/Bidder/Supplier at any Bank Account maintained in India by way of ECS/RTGS after deducting the TDS as applicable.
4. The quoted rates shall remain firm throughout the tenure of the contract and no revision is permissible for any reason.

**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 :**

- 1) 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.
- 2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- 3) 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.
- 4) 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.
- 5) 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.
- 6) Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

**Searching for tender documents :**

1. 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.

2. 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.
3. 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:**

1. Bidder should take into account any corrigendum published on the tender document before submitting their bids.
2. 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. Deviations from these may lead to rejection of the bid.
3. 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.
4. 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:**

1. 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 issues.



2. The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
3. Bidder has to select the payment option as “offline” to pay the tender fee / EMD as applicable and enter details of the instrument.
4. 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.
5. 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) cells 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.
6. 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.
7. 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.

8. The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
9. Upon the successful and timely submission of bids (ie after Clicking “Freeze Bid Submission” in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
10. The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

**Assistance to bidders:**

1. Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
2. 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.

**The Director,  
Central Institute of  
Brakishwater Aquaculture,  
No.75.Santhome High Road,  
R.A.Puram,  
Chennai – 600 028.**

**ANNEXURE - I**  
**TENDER ACCEPTANCE LETTER**  
**(To be given on Company Letter Head)**

**Date:**

**To,**  
**The Director,**  
**Central Institute of Brakishwater Aquaculture,**  
**No.75. Santhome High Road,**  
**R.A.Puram,**  
**Chennai – 600 028.**

**Subject** : Acceptance of Terms & Conditions of e-Tender – Reg

**CIBA Ref No:** **F.No:1-2/2019-20/EC/Hqrs**

**Tender ID:** \_\_\_\_\_

**Name of Tender / Work:** **Renovation of Electrical room and Portico in**  
**the main building at Muttukadu Experimental**  
**Station of CIBA, Muttukadu.**

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Dear Sir,

1. I/ We have downloaded 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. 1 to 18** (including all documents like annexure(s), schedule(s), etc.), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.

3. The corrigendum(s) issued from time to time by your department/ organization too has also been taken into consideration, while submitting this acceptance letter.

4. I / We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirety and also unconditionally accept that CIBA, Chennai has the right to accept the whole or any part of the Tender or portion of the quantity offered or reject it in full without assigning any reason.

5. I / We do hereby declare that our Firm has not been blacklisted/ debarred by any Govt. Department/Public sector undertaking.

6. I / We certify that all information furnished by the 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 the 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)

**ANNEXURE - II**  
**GENERAL TERMS & CONDITIONS**

1. The quotation / tender should be submitted through online mode only at <https://eprocure.gov.in/eprocure/app> on or before **05.07.2019 – 15.00hrs.**
2. The right to accept the rates and bidding the work based on the quality and reputation of the firms rests with the DIRECTOR, CIBA and it cannot be challenged. The DIRECTOR, CIBA reserves the right to accept or reject any one or all the quotations without any reason.
3. Quotation may be furnished for **“Renovation of Electrical room and Portico in the main building at Muttukadu Experimental Station of CIBA, Muttukadu.”**
3. No advance and any part payment will be made for this work.
4. The rates are to be quoted to have a minimum validity for a period up to **31-03-2020.**
5. Two point two percent (2%) of the total billed amount will be deducted towards income tax and the same will be remitted to the IT Department concerned.
6. A demand draft for an amount of **Rs. 7,500/- (Rupees Seven thousand and five hundred only)** as earnest money deposit may be drawn in favour of **“ICAR UNIT, CIBA, CHENNAI”** payable at Chennai and the same should be scanned and uploaded along with the technical bid.
7. Security deposit 5% value of contract (Interest free) including EMD has to be deposited on receipt of this office letter before commencement of work.
8. The Performance guarantee deposit 5% value of work done will be deducted in the Final bill. The EMD/SD/Performance guarantee (Total 10%) will be refunded to the contractor only after completion of performance maintenance period. The performance maintenance period is **one year** from the date of completion of work. No interest will be paid to these deposits. **Performance Security deposit has to be claimed within three years after completion of performance maintenance period, otherwise it would be forfeited.**
9. During executing of work any loss/Hazard due to any reason for the men and materials will be borne by the contractor. The Institute will not be responsible for any loss or damage /Hazard.
10. While executing the work, the executing agency is fully responsible for any damage to Institute materials and the same may be replaced (including materials & labour charges for the replacement) by the Contractor at his own cost.
11. The work should be completed on or before **45 days** from the date of issue of work order to the satisfaction of the authority concerned.

12. The rates are to be quoted in the BoQ which is available with the e-tender, and tampering it in any way would lead to the rejection of the bid summarily.
13. Payment will be made based on the actual measurements recorded in the 'CMB'
14. The contractor should furnish/enclose the proof of the execution of civil work in Govt. dept. in any of last three year value of Rs. **10.00** lakhs and above.
15. **For inspection of the site, Shri.R.Puthiavan, Asst. Chief Technical Officer, Engg.Cell (Mobile No.9841656547) and for any difficulties regarding the submission and uploading the tender document, Shri.Raghavendra.K, Assistant, Stores Section (Mobile No.9003659870), may please be contacted between 10.00 hrs to 16.00 hrs on all working days.**

**ANNEXURE - III**

**TECHNICAL SPECIFICATION**

**SCHEDULE FOR Renovation of Electrical room and Portico in the main building at Muttukadu Experimental Station of CIBA, Muttukadu.**

| S.No | Description of item  | Unit | Qty |
|------|--|------|-----|
| 1.   | <b>CIVIL WORK</b>  |      |     |
| 1.1  | Demolishing RCC work by mechanical means including stacking of steel bars serviceable material and disposal of unserviceable material within 50 meters lead as per direction of Engineer-in-charge:  | Cum  | 2   |
| 1.2  | Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 meters lead as per direction of Engineer-in-charge.   |      |     |
| 1.3  | In cement mortar   | Cum  | 3   |
|      | Demolishing brick tile covering in terracing including stacking of serviceable material and disposal of unserviceable material within 50 meters lead.  | Sqm  | 17  |
| 1.4  | Demolishing mud phaska in terracing and disposal of material within 50 meters lead.  | Cum  | 3   |
| 1.5  | Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 meters lead.  | Sqm  | 17  |
| 1.6  | Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 meters lead :  |      |     |
|      | Of area 3 sq. meters and below   | Sqm  | 2   |
| 1.7  | Centering and shuttering including strutting, propping etc. and removal of form for:   |      |     |
|      | Suspended floors, roofs, landings, balconies and access platform   | Sqm  | 14  |
| 1.8  | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.  |      |     |
|      | Thermo-Mechanically Treated bars of grade Fe-500D or more  | kg   | 176 |
| 1.9  | 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. |      |     |
|      | 1:1.5:3 (1 cement: 1.5 coarse sand: 3 graded stone aggregate 20 mm nominal size)   | Cum  | 1.5 |

|      |   |     |      |
|------|---|-----|------|
| 1.10 | Brick work with common burnt clay machine moulded perforated bricks of class designation 12.5 conforming to IS: 2222 in superstructure above plinth level up to floor five level in cement mortar 1:6 (1 cement : 6 coarse sand)  |     |      |
|      | With F.P.S.(non modular) bricks   | Cum | 2.5  |
| 1.11 | Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :   |     |      |
|      | In cement mortar  | Sqm | 6    |
| 1.12 | Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.   | Cum | 1    |
| 1.13 | Cement concrete flooring 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.  |     |      |
|      | 40 mm thick with 20 mm nominal size stone aggregate   | Sqm | 4.5  |
| 1.14 | 12 mm cement plaster of mix :   |     |      |
|      | 1:4 (1 cement: 4 fine sand)   | Sqm | 57   |
| 1.15 | Finishing walls with premium acrylic smooth exterior paint with silicone additives of required shade  |     |      |
|      | New work (Two or more coats applied @ 1.43 litre/10sqm. Over and including priming coat of exterior primer applied@2.20 kg/10sqm).  | Sqm | 30   |
| 1.16 | 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   | Sqm | 20   |
| 1.17 | Distempering with oil bound washable distemper of approved branded manufacture to give an even shade :  |     |      |
|      | New work (two or more coats) over and including water thinnable priming coat with cement primer   | Sqm | 23   |
| 1.18 | Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required diameter & length (hold fast lugs or dash fastener shall be paid for separately).   |     |      |
|      | Second class teak wood  | Cum | 0.11 |
| 1.19 | Providing and fixing paneled or paneled and glazed shutters for doors, windows and clerestory windows, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, excluding paneling which will be paid for separately, all complete as per direction of Engineer-in-charge. |     |      |
|      | Second class teak wood 35 mm thick shutters   | Sqm | 2.5  |
| 1.20 | Providing and applying two coats of fire retardant paint on cleaned wood / ply surface @ 3.5 sqm per litre per coat including preparation of base surface as per recommendations of manufacturer to make the surface fire retardant.  | Sqm | 6    |



|      |  |     |   |
|------|--|-----|---|
| 1.21 | Providing and fixing aluminum sliding door bolts, ISI marked anodized (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required color or shade, with nuts and screws etc. complete :  |     |   |
|      | 300x16 mm  | Nos | 1 |
| 1.22 | Providing and fixing aluminum tower bolts, ISI marked, anodized (anodic coating not less than grade AC 10 as per IS : 1868 ) transparent or dyed to required color or shade, with necessary screws etc. complete :   |     |   |
|      | 250x10 mm  | Nos | 2 |
| 1.23 | Providing and fixing aluminum handles, ISI marked, anodized (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required color or shade, with necessary screws etc. complete :  |     |   |
|      | 125 mm   | Nos | 2 |
| 1.24 | Providing and fixing aluminum hanging floor door stopper, ISI marked, anodized (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required color and shade, with necessary screws etc. complete.  |     |   |
|      | Twin rubber stopper  | Nos | 1 |
| 1.25 | Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc. consisting of following operations:  |     |   |
|      | (a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment.   |     |   |
|      | b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs. |     |   |
|      | (c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by engineer in-charge.  |     |   |
|      | (d) Finishing the surface with 20 mm thick joint less cement mortar of mix 1:4 (1 cement: 4 coarse sand) admixed with water proofing compound conforming to IS: 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep.  |     |   |

|      |   |     |    |
|------|---|-----|----|
|      | (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-Charge :   |     |    |
|      | With average thickness of 120 mm and minimum thickness at khurra as 65 mm.  | Sqm | 17 |
|      | <b>ELECTRICAL WORK</b>  |     |    |
| 1.26 | Supplying installation testing and commissioning of load bank panel system on wall consists of factory fabricated (Havells make) baic module /metering module / cable chamber ,single door including providing and fixing following necessities and interconnections etc. complete as required. |     |    |
|      | i)6 way load bank panel board enclosure = 1 no  |     |    |
|      | ii)Meter module = 1 no  |     |    |
|      | iii) Cable alley =2 no  |     |    |
|      | <b>INCOMING</b>   |     |    |
|      | i)200 A TP MCCB 25KA 'AA' Frame =1 no   |     |    |
|      | ii)0 - 500 V Voltmeter with selector switch 0 -200 A Ammeter with selector switch =1 set  | JOB | 1  |
|      | A E make , digital meter  |     |    |
|      | iii) Indicator lamps with control wiring 1/c fuse etc. complete =1 set  |     |    |
|      | iv)CTs 20/5A =3 no  |     |    |
|      | <b>OUTGOINGS</b>  |     |    |
|      | i)63A TP MCCB 16 KA 'G' Frame =6 no   |     |    |
| 1.27 | Supplying and making indoor and termination with brass compression gland and aluminum lugs for following size of PVC insulated and PVC sheathed / XLPE aluminum conductor cable of 1.1 KV grade as required.  |     |    |
| 1.28 | a)4 X 25 sq.mm (28mm)   | set | 5  |
| 1.29 | b)3.5 X 35 sq.mm (32mm)   | set | 1  |
| 1.30 | c)3.5 X 50 sq.mm (35mm)   | set | 1  |

