

**RESERVE BANK OF INDIA**

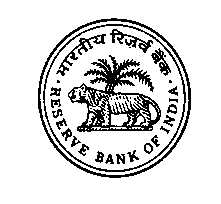
**HUMAN RESOURCE MANAGEMENT DEPARTMENT**

**AIZAWL**

**e-Tender for “RENOVATION OF CIVIL & ELECTRICAL WORKS IN RBI LEASED PREMISES AT THAKTHING VENG, AIZAWL”**

**Schedule of Tender (SOT)**

|  |  |  |
| --- | --- | --- |
| **Sl. No.** | **Activity** | **Tentative date** |
| 1. | Publication of NIT in Press and Bank’s website and e-procurement portal | **September 13, 2023** |
| 2. | e - Tender no. | **RBI/AIZAWL/HRMD/1/23-24/ET/29[Renovation Works]** |
| 3. | Mode of Tender | e- Procurement System  (Online Part I – Techno-Commercial Bid and Part II – Price Bid through www. mstcecommerce.com/eprochome/rbi) |
| 4. | Date of NIT (along with complete tender) available to parties to download - Tender activation on portal - Tender ‘Live’ for all | **September 13, 2023 from 12 Noon** |
| 5. | Date of Pre-bid meeting at Human Resource and Management Department, RBI, Aizawl (offline) | **September 20, 2023** |
| 6. | **Earnest Money Deposit** | **₹ 98,600/-** |
| 7. | **Start Bid date**- Date of Starting of e-Tender for submission of **online** Techno- Commercial Bid and Price Bid at  [**www.mstcecommerce.com/eprochome/rbi-**](http://www.mstcecommerce.com/eprochome/rbi-) | **September 13, 2023 from 12 Noon** |
| 8. | **Close Bid date**- Date of closing of online e –tender for submission of Techno- Commercial Bid & Price Bid | **September 29, 2023 up to 14:00 Hours** |
| 9. | **Date & time of opening of Part–I**  **(i.e. Techno- Commercial Bid):**  **Part –II (Price Bid): Part –II (Price bid) shall be opened either on the same day or at a later date that will be intimated to vendors earlier.** | **September 29, 2023 at 15:00 Hours** |



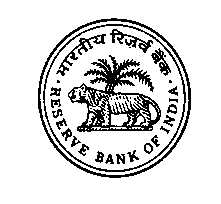
**RESERVE BANK OF INDIA**

**HUMAN RESOURCE MANAGEMENT DEPARTMENT**

**AIZAWL**

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**Reserve Bank of India**

**Human Resource Management Department**

**Aizawl**

**Section A**

**NOTICE INVITING e-TENDER**

**Name of the work:** **Tender for** **“RENOVATION OF CIVIL & ELECTRICAL WORKS IN RBI LEASED PREMISES AT THAKTHING VENG, AIZAWL”**

**A. Eligibility criteria:**

1. E-tenders in two parts are invited for **“RENOVATION OF CIVIL & ELECTRICAL WORKS IN RBI LEASED PREMISES AT THAKTHING VENG, AIZAWL”.**
2. The work is **estimated to cost Rs.49,30,000/-** and is to be completed within 2 calendar months.

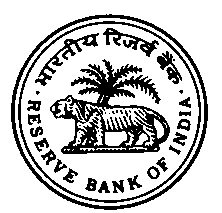
3. Only those firms who have valid PF, ESI, GST registration and have minimum 5 years of experience in the field of undertaking similar nature of Civil & Electrical work for large office buildings / commercial premises / industrial houses / etc. and have executed successfully similar civil & Electrical works individually costing (a) Three works each costing not less than the amount equal to 40% of the estimated cost or (b) Two works each costing not less than the amount equal to 50% of the estimated cost or (c) One work costing not less than the amount equal to 80% of the estimated cost during last 5 years ending last day of the month previous to the one in which applications are invited and haveannual turnover of 100% or more of estimated cost for last three years i.e. 2020-21, 2021-22 and 2022-23and Banker`s certificate of value not less than of 100 % of Estimated cost as per the proforma given [Annexure-IV](#_bookmark3) along with techno-commercial bid will only be eligible to participate in e-tender for the above cited work.

4. The tender forms will be issued only to those contractors who invariably furnish, at the time of applying for e-tender, the following information in writing and submit relevant documents to satisfy the Bank about their eligibility for participating in the tendering process.

|  |  |  |
| --- | --- | --- |
| (a) | Composition of the firm | Full particulars (whether contractor is an individual, or a partnership firm, or a company etc.,) of the composition of the firm of contractors in details should be uploaded along with name(s) and address (es), of the partner's copy of the Articles of Association/ Power of Attorney/other relevant document. |
| (b) | Work experience & Completion of similar works of specified value during the specified period | Copies of the detailed work orders for the qualifying works indicating date of award, value of awarded work, time given for completing the work, etc. and the corresponding completion certificates indicating actual date of completion and actual value of executed similar works should be uploaded in proof of the work experience. The details along with documentary evidence of previous experience, if any, of carrying out works for the Reserve Bank of India at any centre, should also be given. |
| (c) | Credit worthiness of the contractor and their turnover during the specified period | Copies of the Income Tax Clearance Certificates/Income Tax Assessment Orders along with the latest final accounts of the business of the contractor duly certified by a Chartered Accountant should be enclosed in proof of creditworthiness and turnover for last four years should be uploaded. |
| (d) | Name(s) and address(es) of the Bankers and their present contact executives | Written Information about the names and addresses of bankers along with full details such as names, postal addresses, e-mail IDs, telephone (landline and mobile) nos., fax nos., etc. of the contact executives (i.e. the persons who can be contacted at the office of the bankers of the firm, in case it is so needed) should be uploaded. |
| (e) | Details of bank accounts | Full particulars of bank accounts, such as account no. type, when opened etc., should be uploaded. |
| (f) | Name(s) and address(es) of the Clients and their present contact executives | Written information about the names and addresses of clients of the firm along with full details, like names, postal addresses, e-mail IDs, telephone (landline and mobile) nos., fax nos. etc., of the contact executives (i.e. the persons who can be contacted at the office of clients by the Bank in case it is so needed) should be uploaded. |
| (g) | Details of completed works | The client-wise names of work(s), year(s) of execution of work (s), awarded and actual cost (s) of executed work (s), completion time stipulated in the contract (s) and actual time taken to complete the work (s), Name(s) and full contact-details of the officers/authorities/departments under whom the work(s) was/were executed should be uploaded. |

In the event of intending contractor’s failure to satisfy the Bank; the Bank reserves the right to refuse issuance of tender forms/documents to them.

1. Interested contractors have to upload relevant documents satisfying all the points as stated above along with techno-commercial (Part-I) bid of tender. The same Eligibility documents and the scanned copy of EMD should be uploaded with Techno Commercial Bid (Part-I) on the MSTC portal. It is to be duly noted that the tender process shall be executed on the MSTC portal through e-Tendering.
2. Tender forms will be available for downloading from MSTC portal from **date September 13, 2023** from **12 Noon**. A pre-bid meeting of Contractors who qualify the pre-requisite eligibility criteria of tender conditions will be held offline on September 20, 2023 at 11.00 hours at Human Resource & Management Department, Reserve Bank of India, Aizawl.
3. Tenders form can be downloaded for viewing from RBI website [www.rbi.org.in](http://www.rbi.org.in) or [www.mstcecommerce.com/eprochome/rbi](http://www.mstcecommerce.com/eprochome/rbi). **The pre-Qualification papers and scanned copy of proof of EMD payment should be uploaded with Techno Commercial Bid (Part-I) on the MSTC portal. The Demand Draft or Bank Guarantee for EMD should reach in original in a sealed envelope to Human Resource Management Department, Reserve Bank of India, 3rd floor, F. Kapsanga Building, Dawrpui, Aizawl, Mizoram 796001 by September 29, 2023 up to 14:00 Hours. If paid through NEFT, the NEFT receipt should be uploaded along with pre-qualification documents.** After scrutiny, if any of the contractors are not found to possess the required eligibility, their tenders will not be accepted by the Bank for further processing. **Further, the contractor should submit the original of the documents to the Bank when demanded to qualify for further tendering process. The duly filled and stamped part-I of tender document should be uploaded by the contractors on MSTC portal along with all the pre-qualification documents.**
4. Interested contractors can participate in e–Tender after getting registered with www.mstcecommerce.com/eprocurement/rbi). Online Part I – Techno-Commercial Bid and Part II – Price Bid shall be opened through www. mstcecommerce.com/eprocurement/rbi and applicable transaction charges have to be paid by the firm.
5. Tender in prescribed format shall be submitted in two parts. Part-I of tender will contain the Bank's standard technical and commercial conditions for the proposed work, the **EMD of Rs.98,600/-** **should be submitted** **through NEFT** **transfer to A/C No- 186003001 Reserve Bank of India, IFSC – RBIS0AZPA01 , Branch Name – Aizawl, Branch Address –** **Reserve Bank of India, 3rd floor, F. Kapsanga Building, Dawrpui, Aizawl, Mizoram 796001** Or **by a demand draft issued by a Scheduled Bank in favor of ‘Reserve Bank of India, Aizawl’** Orin the form of **an irrevocable bank guarantee issued by a scheduled bank in the Bank’s standard proforma** which is available in the tender-form **along with pre-Qualification documents. The documents pertaining to EMD should be scanned and uploaded with the pre-Qualification documents.** Part-II of the tender will contain no conditions but Contractor’s Price Bid, Bank's Schedule of quantities, tender drawings, if any, only.
6. **Part-I of the tenders will be submitted by the Contractors in MSTC portal. The same will be opened by RBI on September 29, 2023 at 1500 hrs. Those contractors who would like to depute their representatives, may depute their representatives to Human Resource Management Department, Reserve Bank of India, 3rd floor, F. Kapsanga Building, Dawrpui, Aizawl, Mizoram 796001 for the same. Part II of the tender will be opened later. Due intimations will be given for the same.**
7. The contractors have to submit
   1. Client’s certificate as per format at Annex III from their clients for whom they have carried out "eligible works" in terms of the eligibility (Pre-qualification) criteria explained in this notice. The Bank shall obtain reports on the past performance of the Contractor from their clients and bankers. The Bank shall evaluate the said reports before opening of the Part-II of the tenders. If any contractor is not found to possess the required eligibility for participating in the tendering process at any point of time and / or his performance reports received from his clients and / or his bankers and found unsatisfactory, the Bank reserves the right to **reject his/her offer** even after opening of Part-I of the tender. The Bank is not bound to assign any reason for doing so.
   2. Banker's certificate as per format at annex IV from their banker/bankers.
8. The electrical work should be executed through license electrical contractor approved by appropriate government authority. The copy of valid license shall be submitted to the Bank before commencement of the work.
9. The Bank is not bound to accept the lowest tender and reserves the right to accept either in full or in part any tender. The Bank also reserves the right to reject all the tenders without assigning any reason there for.
10. General Manager (Officer-in-Charge), Reserve Bank of India, Aizawl, reserves the right to accept or reject any or all Bids without assigning any reasons and also reserves the right to relax any of the terms and conditions. No Contractor shall have any cause of action or claim against the RBI for rejection of his Bid.

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**Reserve Bank of India**

**Human Resource Management Department**

**AIZAWL**

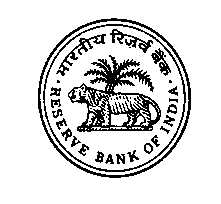
**Tender for “RENOVATION OF CIVIL & ELECTRICAL WORKS IN RBI LEASED PREMISES AT THAKTHING VENG, AIZAWL”**

#### Part I

Name of Contractor\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Address \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Close Bid Date: - September 29, 2023 up to 1400 Hours**



**RESERVE BANK OF INDIA**

**Human Resource Management Department**

**Aizawl**

**Section B**

**Important Information**

**e-** **Tender for “RENOVATION OF CIVIL & ELECTRICAL WORKS IN RBI LEASED PREMISES AT THAKTHING VENG, AIZAWL”**

1.E-tenders are invited in two Parts for **“RENOVATION OF CIVIL & ELECTRICAL WORKS IN RBI LEASED PREMISES AT THAKTHING VENG, AIZAWL”.** The work is estimated to cost **Rs.49,30,000/-** and is to be completed **within 2 calendar months.**

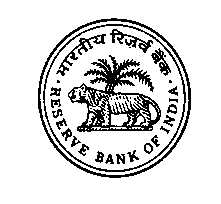
2. Tender forms can be downloaded from MSTC portal from 12:00 Hours on September 13, 2023.

3. The tenders for the above work in two parts i.e. Part-I containing technical specifications and the terms & conditions (Rates and amounts of items shall not appear anywhere in this part) and Part-II containing only rates of items stated in figures and words and amounts in figures **shall be filled/uploaded/attached on the MSTC portal, not later than 2 PM** **on September 29, 2023.** **Part-I of the tenders will be opened on the same day at 15:00 hrs. Part-II of the tenders will be opened on a subsequent date under intimation to the Contractors.** Contractors are advised not to use any other forms on their own letterhead or otherwise for furnishing any information/rates/amount etc. All the information called for shall be complete in all respects. No enclosure is permitted in Part-II of the tender. Incomplete tenders or tenders not complying with the requirement are liable for rejection.

1. Before submission of tender, the contractor may inspect the site in person on any working day from Monday to Friday between 10:00 a.m and 5:00 p.m. to study and understand the scope of works specified.

The tender of Part I shall be **opened in the** presence of the Contractors or their representatives who choose to be present **at 15.00 hours on September 29, 2023** and Price bid (Part II) of such of those tenders who are found eligible after scrutiny of their Part I of the tenders will be opened on a subsequent working day which will be intimated to all the eligible Contractors.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A | | Estimate cost of the work | | | | | | Rs.49,30,000/- | |
| B | | Bid security amount / EMD through NEFT /DD | | | | | | Rs.98,600/- along with the  Part I/ Technical – Commercial  Bid. | |
| C | | The Bid Security/EMD and cost of tender shall be paid through NEFT /DD | | | | | | **NEFT** **transfer to A/C No-186003001, Reserve Bank of India, IFSC -RBIS0AZPA01 (**The fifth & tenth character may be read as numeric Zero**) Branch Name – Aizawl, Branch Address –** **3rd floor, F. Kapsanga Building, Dawrpui, Aizawl, Mizoram 796001** | |
| D |  | |  |  |  |  |  |  | |
|  | Tender documents can be downloaded | | | | | | | From September 13, 2023 to September 29, 2023 | |
|  | from MSTC portal | | | | |  |  |  | |
|  |  | |  |  |  |  |  |  |  |
| E | Date and place of Pre-bid meeting | | | | | | | Human Resource Management Department, RBI Aizawl | |
|  |  | | | | | | |  |  |
| F | Last date of submission of | | | | | | |  |  |
|  | completed Bid | | | |  |  |  | September 29, 2023 up to 14:00 | |
|  |  | |  |  |  |  |  | Hours. |  |
| G | Date | | & | time of | Opening of |  | Part I | September 29, 2023 at 15:00 | |
|  | (Techno- Commercial Bids) | | | | |  |  | hours |  |
| H | Date & time of opening of Part- | | | | | | | Shall be intimated to all | |
|  | II (Financial Bids) | | | |  |  |  | Contractors later after scrutiny of | |
|  |  | |  |  |  |  |  | Techno – Commercial bids | |
| I | Work Commencement Date | | | | |  |  | From 10th day of date of issue of | |
|  |  | |  |  |  |  |  | work order, |  |
| J | Validity of the tender | | | | |  |  | **90 days** from the date of | |
|  |  | |  |  |  |  |  | opening of Techno – Commercial | |
|  |  | |  |  |  |  |  | bid |  |
| K | All disputes arising shall be subject to the jurisdiction | | | | | | | Aizawl |  |
|  |  |  |
|  |  |  |
| L | Time for Completion | | | | |  |  | **2 calendar months** from the 10th date of issue of work order | |
|  |  | |  |  |  |  |  |
|  |  | |  |  |  |  |  |



**RESERVE BANK OF INDIA**

**Human Resource Management Department**

**Aizawl**

**Section C**

**MEMORANDUM**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| (a) | Description of works | **RENOVATION OF CIVIL & ELECTRICAL WORKS IN RBI LEASED PREMISES AT THAKTHING VENG, AIZAWL** | | | |
|  |  |
|  |  |
| (b) | Estimated cost | Rs.49,30,000/- | | | |
| (c) | Mode of payment | As per clause 1.28 | | | |
|  |  |  | | |  |
| (d) | Earnest Money | Rs.98,600/- (Rupees ninety eight thousand six hundred only) | | | |
|  |  |  |  |  |  |
| (e) | Time allowed for completion of work | **2 calendar months** | | | |
|  | from tenth day after the date of |
|  | letter advising acceptance of |
|  | tender. |

Having examined the above Memorandum of work (and other details of the work to be executed) and having acquired the requisite information relating thereto as affecting the tender, I/We hereby offer to execute the works specified in the said Memorandum within the time specified in the said Memorandum at the rates specified in the price bid and as per the specifications of the Bank.

Each page of the tender document has been signed for having acquainted myself/ourselves of the conditions of the contract.

Should this tender be accepted, I/We hereby agree to abide by the terms and Conditions of the Bank in this regard.

I/We undertake to deposit a sum of **Rs.98,600/-** in the form of Demand draft/ Banker’s Cheque /NEFTfavouring “Reserve Bank of India, Aizawl**”** with Reserve Bank of India, which amount is not to bear any interest. In case, I/We fail to execute the contract, I/We do hereby agree that this sum shall be forfeited by me/us to the Reserve Bank of India.

Our Bankers are:

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name(s) and address(s) of our Company Proprietor/ Partners of the firm are:

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. ------------------------------------------------------------------------------------------
3. ------------------------------------------------------------------------------------------

For and behalf of M/s

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature with seal of the partner of the firm

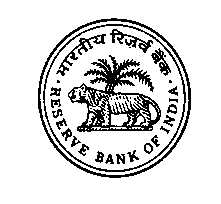
Name:

Designation

Place

Date

(Certified true copy of the Power of Attorney of the above signature should be enclosed.)



**RESERVE BANK OF INDIA**

**Human Resource Management Department**

**Aizawl**

**SECTION - D**

Important instructions for E-procurement

Bidders are requested to read the terms & conditions of this tender before submitting their online tender.

Process of E-tender:

1. A) Registration: The process involves vendor’s registration with MSTC e-procurement portal which is free of cost. Only after registration, the vendor(s) can submit his/their bids electronically. Electronic Bidding for submission of Technical Bid as well as Commercial Bid will be done over the internet. The Vendor should possess Class III signing type digital certificate. Vendors are to make their own arrangement for bidding from a P.C. connected with Internet. MSTC is not responsible for making such arrangement. (Bids will not be recorded without Digital Signature).

SPECIAL NOTE: THE TECHNICAL BID AND THE COMMERCIAL BID HAS TO BE SUBMITTED ON-LINE AT [www.mstcecommerce.com/eprochome/rbi](http://www.mstcecommerce.com/eprochome/rbi)

1).Vendors are required to register themselves online with [www.mstcecommerce.com](http://www.mstcecommerce.com/)→ e-Procurement →PSU/Govt depts→ Select RBI Logo->Register as Vendor -- Filling up details and creating own user id and password→

Submit.

2). The contractors will receive a system generated mail confirming their registration in their email which has been provided during filling the registration form.

In case of any clarification, please contact RBI/MSTC, (before the scheduled time of the e- tender).

**Contact person (RBI):**

Lalrosiama Ngaihte (Manager): 8108112907 (rosiamas[@rbi.org.in](mailto:kumarnikhil@rbi.org.in%20) )

Diptesh Saha (Manager): 9831273767 ([dipteshsaha@rbi.org.in](mailto:dipteshsaha@rbi.org.in))

Ankit Roy (Assistant Manager) : 9748912311 (ankitroy@rbi.org.in)

*Contact person (MSTC Ltd):*

1. Mr PRASHANT CHITRANJAN – ghyopn2[@mstcindia.co.in](mailto:sushil@mstcindia.co.in%20) Mobile- 8592888286

Google hangout ID- (for text chat)- [mstceproc@gmail.com](mailto:mstceproc@gmail.com)

B) System Requirement:

1. Windows 7 or above Operating System
2. IE-7 and above Internet browser.
3. Signing type digital signature
4. Latest updated JRE 8 (x86 Offline) software to be downloaded and installed in the system.

To disable “Protected Mode” for DSC to appear in The signer box following settings may be applied.

Tools => Internet Options =>Security => Disable protected Mode If enabled- i.e, Remove the tick

from the tick box mentioning “Enable Protected Mode”.

Other Settings:

Tools => Internet Options => General => Click On Settings under “browsing history/ Delete Browsing History” => Temporary Internet Files => Activate “Every time I Visit the Webpage”.

To enable ALL active X controls and disable ‘use pop up blocker’ under Tools→Internet Options→ custom level (Please run IE settings from the page [www.mstcecommerce.com](http://www.mstcecommerce.com/) once)

The Techno-commercial Bid and the Price Bid shall have to be submitted online at

1. [www.mstcecommerce.com/eprochome/rbi](http://www.mstcecommerce.com/eprochome/rbi) .Tenders will be opened electronically on specified date and time as given in the Tender.

All entries in the tender should be entered in online Technical & Commercial Formats without any ambiguity.

Special Note towards Transaction fee:

1. The contractors shall pay the transaction fee using “Transaction Fee Payment” Link under “My Menu” in the vendor login. The contractors have to select the particular tender from the event dropdown box. The contractor shall have the facility of making the payment either through NEFT or Online Payment. On selecting NEFT, the contractor shall generate a challan by filling up a form. The contractor shall remit the transaction fee amount as per the details printed on the challan without making change in the same. On selecting Online Payment, the contractor shall have the provision of making payment using its Credit/ Debit Card/ Net Banking. Once the payment gets credited to MSTC’s designated bank account, the transaction fee shall be auto authorized and the vendor shall be receiving a system generated mail.

Transaction fee is non-refundable.

A contractor will not have the access to online e-tender without making the payment towards transaction fee.

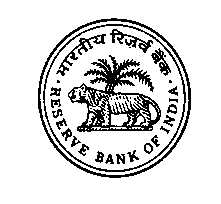
NOTE

The contractors are advised to remit the transaction fee well in advance before the closing time of the event so as to give themselves sufficient time to submit the bid.

1. Information about tenders /corrigendum uploaded shall be sent by email only during the process till finalization of tender. Hence the contractors are required to ensure that their corporate email I.D. provided is valid and updated at the time of registration of contractor with MSTC. Vendors are also requested to ensure validity of their DSC (Digital Signature Certificate).
2. E-tender cannot be accessed after the due date and time mentioned in NIT.
3. Bidding in e-tender:
   1. The contractor needs to submit necessary EMD and Transaction fees (If ANY) to be eligible to bid online in the e-tender. Transaction fees is non refundable. No interest will be paid on EMD.
   2. The process involves Electronic Bidding for submission of Technical and Commercial Bid.
   3. The contractors who have submitted transaction fee can only submit their Technical Bid and Commercial Bid through internet in MSTC website [www.mstcecommerce.com](http://www.mstcindia.com/) → e-procurement →PSU/Govtdepts→ Login under RBI→My menu→ Auction Floor Manager→ live event →Selection of the live event
   4. The vendor should allow running JAVA application. This exercise has to be done

immediately after opening of Bid floor. Then they have to fill up Common terms/Commercial specification and save the same. After that click on the Technical bid. If this application is not run then the contractor will not be able to save/submit his Technical bid.

1. After filling the Technical Bid, contractor should click ‘save’ for recording their Technical bid. Once the same is done, the Commercial Bid link becomes active and the same has to filled up and then contractor should click on “save” to record their Commercial bid. Then once both the Technical bid & Commercial bid has been saved, the contractor can click on the “Final submission” button to register their bid
2. Contractors are instructed to use *Attach Doc button* to upload documents. Multiple documents can be uploaded.
3. In all cases, contractor should use their own ID and Password along with Digital Signature at the time of submission of their bid.
4. During the entire e-tender process, the contractors will remain completely anonymous to one another and also to everybody else.
5. The e-tender floor shall remain open from the pre-announced date & time and for as much duration as mentioned above.
6. All electronic bids submitted during the e-tender process shall be legally binding on the contractor. Any bid will be considered as the valid bid offered by that vendor and acceptance of the same by the Buyer will form a binding contract between Buyer and the contractor for execution of supply.
7. It is mandatory that all the bids are submitted with digital signature certificate otherwise the same will not be accepted by the system.
8. RBI reserves the right to cancel or reject or accept or withdraw or extend the tender in full or part as the case may be without assigning any reason thereof.
9. No deviation of the terms and conditions of the tender document is acceptable. Submission of bid in the e-tender floor by any vendor confirms his acceptance of terms & conditions for the tender.
10. Any order resulting from this tender shall be governed by the terms and conditions mentioned therein.
11. No deviation to the technical and commercial terms & conditions are allowed.
12. RBI Aizawl has the right to cancel this e-tender or extend the due date of receipt of bid(s) without assigning any reason thereof.
13. Contractors are requested to read the vendor guide and see the video in the page [www.mstcecommerce.com/eprochome](http://www.mstcecommerce.com/eprochome) to familiarize them with the system before bidding.



**RESERVE BANK OF INDIA**

**HUMAN RESOURCE MANAGEMENT DEPARTMENT**

**AIZAWL**

**Section E**

**GENERAL INSTRUCTIONS TO CONTRACTORS & SPECIAL CONDITIONS**

**1.1** e-tenders in two parts are invited for **RENOVATION OF CIVIL & ELECTRICAL WORKS IN RBI LEASED PREMISES AT THAKTHING VENG, AIZAWL**. The work is estimated to cost Rs.49,30,000/- and is to be completed within 2 calendar months.

1. Only those firms who have valid PF, ESI, GST registration and have minimum 5 years of experience in the field of undertaking similar nature of Civil & Electrical work for large office buildings / commercial premises / industrial houses / etc. and have executed successfully similar civil & Electrical works individually costing (a) Three works each costing not less than the amount equal to 40% of the estimated cost or (b) Two works each costing not less than the amount equal to 50% of the estimated cost or (c) One work costing not less than the amount equal to 80% of the estimated cost during last 5 years ending last day of the month previous to the one in which applications are invited and have annual turnover of 100% or more of estimated cost for last three years i.e. 2020-21, 2021-22 and 2022-23and Banker`s certificate of value not less than of 100 % of Estimated cost as per the proforma given [Annexure-IV](#_bookmark3) along with techno-commercial bid will only be eligible to participate in e-tender for the above cited work.

**NOTE: The above all documents to be uploaded on MSTC portal. e-tender submitted by a contractor who is found to be not satisfying the above criteria will be liable for rejection.**

**1.2** The tenders for the above work in two parts i.e**. Part-I** containing technical specifications and the terms conditions (Rates and amounts of items shall not appear anywhere in this part) and **Part-II** containing only rates of items stated in figures and words and amounts in figures shall be submitted on MSTC portal not later than **14.00** **hrs. on September 29, 2023.** Part-I(Techno commercial bid) of the e-tenders will be opened on the same day at **15.00 Hrs . Part-II of the tenders will be** **opened on a subsequent date under intimation to all the Contractors.** Contractorhave to apply for the e-tender only through MSTC portal and not to use any other forms on their own letterhead or otherwise for furnishing any rates/amount etc. All the information called for shall be complete in all respects.

No enclosure is permitted in Part II of the tender. Incomplete tenders or tenders not complying with the requirement are liable for rejection.

If the intending Contractor feels that any of the terms and conditions of the tender documents is not acceptable to them or they feel that additional terms and conditions are required to be incorporated, they may indicate these conditions or additional or amended conditions only in separate sealed cover (duplicate). All other terms and conditions on which there are no observations by the intending Contractors shall be constructed as acceptable to the Contractor.

1. Part-II of the Tender, containing only rates of items and amount stated in figures and words will be opened on a subsequent date to be intimated to all the Contractors.
2. Tenders shall remain open to acceptance by the Bank for a period of three months from the date of opening Part-I of the Tender which period may be extended by mutual agreement and the Contractor shall not cancel or withdraw the Tender during this period.
3. The Contractors must use only the forms issued by the Bank to fill in the rates.
4. The Tender form must be filled in English and all entries must be made by hand and written in ink. If any of the documents if missing or unsigned, the tender will be considered invalid by the Bank in its discretion.
5. Rates should be quoted both in figures and words in columns specified. All erasures and alterations made while filling the tender must be attested by initials of the Contractor. Overwriting of figures is not permitted; failure to comply with either of these conditions will render the tender void at the Bank’s option.
6. No advice of any change in rate or conditions after the opening of Part II of the tender will be entertained.
7. Each of the tender documents should be signed by the person or persons submitting the tender in token of his/their having acquainted himself/themselves with the General Conditions of Contract, Specifications, and Special Conditions etc. as laid down. Any tender with any of the documents not signed will be rejected.
8. The Contractor submitted on behalf of a firm shall be signed by all the partners of the firm or by a partner who has the necessary authority on behalf of the firm to enter into the proposed contract, otherwise the tender may be rejected by the bank.
9. The Reserve Bank of India does not bind itself to accept the lowest or any tender and reserve to itself to accept or reject any or all the tenders either in whole or in part, without assigning any reasons for doing so.

**1.3** The Contractors shall pay as earnest money a sum of Rs.98,600/- (Rupees Ninety eight thousand six hundred only) by way of a demand draft drawn on scheduled bank payable to Reserve Bank of India, Aizawl or NEFT. Alternatively, the Contractor may also furnish an irrevocable Bank Guarantee from any scheduled bank for an equivalent amount towards EMD in the pro forma enclosed. A tender which is not accompanied by earnest money will not be considered. The earnest money will be returned to the Contractor if his tender is not accepted but without any interest.

Under no circumstances, Earnest Money Deposit will be accepted in any other form than mentioned above.

The Earnest Money Deposit paid by the successful Contractor in the form of DD or irrevocable Bank Guarantees (BG), initially valid for 4 months, shall remain un-discharged for such period as may be specified for keeping the tender open.

The EMD of successful Contractor shall be released on acceptance of the tender **and** on production of a new Bank Guarantee called **“Performance Bank Guarantee (PBG)”** from any scheduled bank in the form prescribed by the Bank in Annex (IV)towards security deposit for due fulfilment of the contract.

**1.4** On receipt of intimation from the Bank of the acceptance of his/their tender, the successful Contractor shall be bound to implement the contract and within fourteen days thereof the successful Contractor shall sign an agreement in accordance with the draft agreement and the Schedule of Conditions but the written acceptance by the Reserve Bank of India of a tender will constitute a binding contract between the Reserve Bank of India and the person so tendering whether such formal agreement is or is not subsequently executed.

**1.5** (a) **Performance Bank Guarantee (PBG) as security deposit for completion period**: On award of the work, the successful Contractor shall furnish an amount equal to 5% (five percent) of the contract value in the form of a Bank Guarantee (BG) from any scheduled Bank in the form prescribed by the Bank as per **Annexure** towards security deposit for the due fulfilment of the contract. This Performance Bank Guarantee (PBG) shall be initially valid for a period of contract duration plus three (3) months and shall be suitably extended till final completion of the work plus three (3) months in case of extension of contract period. The Bank Guarantee towards the Earnest Money Deposit (EMD) furnished at the time of submission of tender will be returned thereafter. Such Performance Bank Guarantee (PBG) should be submitted to the Bank within 15 days of the issue of work order and it will be returned after completion of the work.

If the Contractor fails to furnish the Performance Bank Guarantee within stipulated time period, their tender is liable to be cancelled and the EMD deposited shall be enforced without prejudice for further loss or damage.

The Bank Guarantee towards EMD shall be suitably extended, if necessary, the successful Contractor till the date fixed by the Bank for furnishing the PBG towards security deposit for the due fulfilment of the contract.

**Retention Money (RM)**: In addition to 5% PBG, retention Money @ 5% will be deducted from each bill and shall be release after satisfactory completion of defect liability period (DLP) of one year. The amount retained by the Bank shall not bear any interest.

**1.6** All compensation or other sums of money payable by the Contractor to the Bank under the terms of this Contract may be deducted from his/her earnest money and the security deposit if the amount so permits and the contractor shall, unless such deposit becomes otherwise payable, within ten days after such deduction make good in cash the amount so deducted.

**1.7** The Contractors shall furnish full details of all such similar works carried out by them during the last 5 years, as per the proforma included in this tender. The Bank will inspect one or all the works and satisfy itself about the performance of the work including the quality and completion time period, etc. before opening Part II of the tenders. Thereafter, the Bank at its discretion will consider or reject any or all the tenders without assigning any reason, therefore.

**1.8** The Contractor shall carry out all the work strictly in accordance with drawings, details and instructions of the Bank's Engineer. The bidder are requested to check all the drawings related to this work, which are available at Human Resource Management Department, Aizawl Office, before submission of the tender.

* 1. The rates quoted shall be firm and shall not be subjected to variations in exchange rate, rate of taxes, duties, levies or variation in labour rates. The rates shall be quoted for complete work and shall include charges for all taxes, duties, levies, consumables, labour, transport, insurance for transit, storage as also workmen compensation & 3rd party liability policies, execution & handover the executed work to the Bank. No concessional form for any taxes, duties and levies will be issued by the Bank. Similarly, no import license will be issued by the Bank. All payments will be made at Aizawl and will be in Indian rupees only. The Contractors are advised **to include the GST** in the quoted amount.

**1.10** Contractors are advised to quote strictly as per BOQ. The schedule of quantities is based on probable quantities. The Contractor should note that unless otherwise stated the tender is strictly on item rate basis and his attention is drawn to the fact that rates for the Schedule of Quantities approximately indicate the total extent of work but may vary to each and every item should be correct, workable and self-supporting. The quantities upto any extent and may even be omitted depending upon the site conditions and requirements solely at the discretion of the Bank thus altering the aggregate value of the Contract. No claim shall be entertained on this account.

**1.11** The tender shall be accompanied by leaflets/literatures giving complete technical & constructional details along with list of make in offered.

**1.12** The Contractor must obtain for himself on his own responsibility and at his own expenses all the information which may be necessary for the purpose of making a tender and for entering into a contract and must examine the Drawings (which are available at Human Resource Management Department) and must inspect the site of the work and acquaint himself with all local conditions, means of access to the work, nature of the work and all matters pertaining thereto.

**1.13** Time allowed for carrying out the work as mentioned in the Memorandum shall be strictly observed by the Contractor and it shall be reckoned from the 10th day after written order to commence the work is issued. The work shall throughout the stipulated period of the Contract be proceeded with all due diligence and if the Contractor fails to complete the work within the specified period he shall be liable to pay compensation as defined in clause 1.25 of the Conditions of Contract. The Contractor shall before the commencing of work prepare a detailed work program which shall be approved by the Bank's Engineer.

**1.14** The Contractor shall not be entitled to any compensation for any loss suffered by him on account of delays in commencing or executing of the work, whatever the cause of delays may be, including delays arising out of modifications to the work entrusted to him or in any sub-contract connected therewith or delays in awarding contracts for other trades of the project or in commencement or completion of such works or in procuring Government controlled or other building materials or in obtaining water and power connections for construction purposes or for any other reason whatsoever and the Bank shall not be liable for any claim in respect thereof. The Bank does not accept liability for any sum besides the tender amount, subject to such variations as are provided for herein.

1.15 The successful Contractor is bound to carry out any items of work necessary for the completion of the job even though such items are not included in the quantities and rates. Schedule of instructions in respect of such additional items and their quantities will be issued in writing by the Architect with the prior consent in writing of the Bank.

**1.16** The successful Contractor must co-operate with the other contractors appointed by the bank so that the work shall proceed smoothly with the least possible delay and to the satisfaction of the Bank.

1.17 The Contractor must bear in mind that all the work shall be carried out strictly in accordance with Specifications made by the Architects and also in compliance of the requirements of the local public authorities and to the requirements of the Indian Electricity Rules and no deviation on any account will be permitted.

**1.18 The** **successful Contractor shall submit a Bar Chart programme for completion of the work.**

* 1. The successful Contractor shall execute an agreement with the Bank on stamped paper of appropriate value as per stamp act within fourteen days of receipt of letter of acceptance. However, the issue of letter of acceptance by the Bank shall be construed as a binding contract, as though such an agreement has been executed and all the terms and conditions shall apply on this contract.
  2. The payment for the work will be made by Aizawl Office. Any dispute arising out of this contract will also be sorted out within the jurisdiction of Aizawl only.
  3. The Contractor shall furnish the name and address of the Bankers with whom they normally Bank. They shall also furnish the name and addresses of their recent clients for whom they have carried out similar works/supplies in the recent past, along with full details like the cost and capacity of the system/machine supplied, the date of the supply etc.
  4. The Bank reserves the right to accept or reject any or all the tenders either in full or in part without assigning any reasons thereof.
  5. The Contractor shall strictly comply with the provision of safety code annexed hereto.
  6. The contractor shall submit the names and personal details of site in-charge/ supervisor and his authorized representative along with their role, responsibilities and authority (with regard to supervision, quality control, documentation, measurements, signing measurement book, correspondence, receiving instructions from bank etc.) within 14 days from the date of issue of work order.
  7. All the bidders shall submit a detailed bar chart indicating the details of various major activities involved in the work and their expected completion period, specifying the parallel and sequential activities, starting from the scheduled commencement of work so as to complete the entire work within the tender specified period along with the Part-I of the tender. The bidders shall also indicate the approximate deployment of man power/ labour, as planned by them for the above purpose, commensurate with the planned schedule. After award of work, the contractor shall be required to carry out micro planning and the detailed schedule/ Bar Chart shall be submitted within 14 days from the date of issue of work order for proper planning, monitoring and review of progress of work.
  8. The progress of work shall be reviewed by the Bank on a monthly basis. The meeting may be held at site or in Bank’s Main Office Premises. The meeting should be attended by the contractor himself (in case of proprietorship firm) or authorized partner/ senior official in case of partnership firm/ limited company along with contractor’s site in-charge. For this purpose, the contractor shall prepare and submit a progress report indicating following:

1. Progress for the previous month and the planning for the next month.
2. The reasons for major deviations in planned schedule and the actual progress achieved along with any hindrances/ decisions required from the Bank.
3. Procurement schedule for long lead items
4. Variations / extra item statement
5. Statement indicating various tests conducted during the month and planned for next month.
   1. The contractor shall maintain following registers/ documents at site and keep them updated on a regular basis. These registers/ documents after completion of work shall be handed over to the Bank:

|  |  |
| --- | --- |
| a) | Hindrance register in the Bank’s approved format |
| b) | Site instruction book (in duplicate) |
| c) | Certified true copy of the contract |
| d) | Material receipt register along with copies of delivery challans |
| e) | Copies of all bills for which Basic rate is specified in the tender |
| f) | Labour daily attendance register |
| g) | Approved detailed schedule/ Bar chart and approved modifications of the same, If any. |
| h) | Signed Minutes of monthly progress review meetings |
| i) | Register for extra items/ variation/ deviation items |
| j) | Material test register along with copies of test reports/ certificates received from the manufacturer/ laboratory |

* 1. The contractor shall use only approved brands of materials as given in the Annexure. In absence of any such choice indicated by the tenderer in the Part – I, the contractor will be required to use the material as per Bank’s instructions.
  2. Wherever the basic rate for the material is specified, the contractor should furnish all the paid bills for Banks verification. The purchase rate shall be got approved from the Bank before purchasing. The adjustment in price shall be made only on measured quantity. No overhead and profit shall be considered on the cost difference. The basic prices are ex-godown and are inclusive of excise duty, sales tax, octroi and all other duties levied by Local authority / Government. The rate quoted shall include transportation to site, storing and handling etc.
  3. The electrical work should be executed through license electrical contractor approved by appropriate government authority. The copy of valid license shall be submitted to the Bank before commencement of the work.
  4. Bank will require the contractor to produce, samples of all the materials, accessories/finishes prior to procurement/manufacture. The Bank’s Engineer shall approve samples of the materials for the work. Failure to comply with these instructions can result in rejection of the work.

I/We have understood all the above-mentioned conditions and they are acceptable to me/us.

Place: Signature of the Contractor

Date: Name:

Designation:

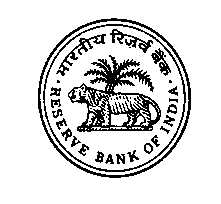
Seal of the firm

**SPECIAL CONDITIONS**

1. The workmen will not be allowed to stay within the premises.
2. The water required for the work or workmen can be availed from the available source at site free of cost. The Contractor has to tap the same from the point shown to them at their own cost.
3. The electric power required for the work can also be similarly drawn from the supply available at site free of cost. The Contractor has to tap the same from the point shown to them at their own cost.
4. Permission, if any, required from the local bodies shall be obtained by the Contractor at their cost.
5. Even though in finishing items, the number of coats of paint/polish are mentioned, the contractor shall note that the entire furniture be finished in top class while handing over, including if necessary, additional coat of painting/polishing etc. without any extra cost.
6. The intending tenderer can obtain any clarifications regarding the tender drawings, specifications etc. if any from the office of the Deputy General Manager, Reserve Bank of India, Human Resource Management Department, Aizawl, on any Bank’s working day.
7. The entire materials for the work shall be brought to the working area through the staircase. The delivery of materials shall be given on the floors specified in the tenders.
8. Wherever the basic rate for the material is specified, the contractor should provide to the Bank for verifications all paid bills of purchased materials for ascertaining the actual rate of purchase so as to settle the difference in cost of material. The rate shall be got approved from the Bank before purchasing. The adjustment in price of materials shall be made on measured quantity only. No overhead or profit shall be considered on the cost difference. The basic price for the materials shall be taken as the cost of material at dealer’s godown inclusive of taxes.
9. The debris/dust or any wastage generated out of the above work shall be cleaned as frequently as required and as instructed by the Bank’s Engineer away from the bank’s premises.
10. The tenderer shall use only approved brand materials.
11. A qualified, experienced in Renovation and responsible full time supervisor shall be posted at site who can receive instructions, maintain account of materials etc. take decisions at site, without waiting for the instructions of the contractor.
12. No lapses from the Contractors side, which may cause damage to the occupants.
13. The work has to be carried out with least inconvenience to the staff and only even after office hours in night and Saturday, Sunday and holidays and in occupied flats.
14. Programme should be submitted before commencement of work so as to enable the Bank to intimate the occupants in advance for smooth working and better progress and the time schedule should be strictly adhered to.
15. No labourers shall be permitted to stay inside the campus after working hours.
16. The Contractors has to obtain permission from the local authorities as per the existing local byelaws for such works and the charges/fees if any, has to be borne and paid by the contractor including water and draining charges.
17. The contractor should have valid Labour license from Labour Commissioner wherever the number of labourers engaged is 20 or more.
18. Works contract/ VAT shall be deducted as per instructions of Government at source. The rate quoted shall include all such taxes and levies.
19. The contractor shall have the addresses and photographs of their workmen being engaged by them for the said work. The entry of workmen will be allowed inside the building only on producing the photo pass issued by the Bank’s Caretaker.
20. Before quoting the rates contractor should inspect the site and understand the nature and scope of the work for themselves.
21. Any damage cause to any of Bank’s properties shall be made good by the contractor at their own cost.
22. The contractor shall carry out the work strictly in accordance with specification details and instructions of the Bank’s Engineer.
23. The Contractor shall make their own arrangements for storing of their materials at site.
24. The Contractor shall keep the Bank indemnified against all claims, if any.
25. The contractor shall only use MS ‘H’ frame scaffolding.
26. The Contractor shall ensure payment of minimum wages to the workmen employed by him as per Central Labour Commissioner’s rates and obtain their signature or thumb impression on wage slip. A copy of such wage slip shall be submitted to the Bank.
27. Successful contractor shall provide a proper uniform to their worker engaged on site for identification purpose.
28. Successful contractor shall post a qualified Engineer at site during execution that shall follow necessary instruction given by the Bank's Engineer from time to time including keeping proper record of chemicals and cement brought at site including maintaining the record of day to day consumption.

Place:

Date: Signature of Contractor with seal



**RESERVE BANK OF INDIA**

**HUMAN RESOURCE MANAGEMENT DEPARTMENT**

**AIZAWL**

**Section F**

**SAFETY CODE**

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| 1. | First aid appliances including adequate supply of sterilized dressing and cotton wool shall be kept in a readily accessible place. | |
| 2. | An injured person shall be taken to a public hospital without loss of time, in cases where the injury necessitates hospitalization. | |
| 3. | Suitable and strong scaffolds should be provided for workmen for all works that cannot safely be done from the ground. | |
| 4. | No portable single ladder shall be over 8 meters in length. The width between the side rails shall not be less than 30 cm (clear) and the distance between two adjacent rungs shall not be more than 30 cm. When a ladder is used an extra mazdoor shall be engaged for holding ladder. | |
| 5. | The excavated material shall not be placed within 1.5 meters of the edge of trench of half of the depth of trench whichever is more. All trenches and excavations shall be provided with necessary fencing and lighting. | |
| 6. | Every opening in the floor of a building or in a working platform be provided with suitable means to prevent the fall of persons or materials by providing suitable fencing or railing whose minimum height shall be one metre. | |
| 7. | No floor, roof or other part of the structure shall be so overloaded with debris or materials as to render it unsafe. | |
| 8. | Workers employed on mixing and handling material such as asphalts, cement mortar or concrete and lime mortar shall be provided with protective footwear and rubber hand gloves. | |
| 9. | Those engaged in welding works shall be provided with welder’s protective eye-shields and gloves. | |
| 10. | (i) | No paint containing lead or lead products shall be used except in the form of paste of readymade paint. |
|  | (ii) | Suitable facemasks should be supplied for use by the workers when the paint is applied in the form of spray or surface having lead paint dry rubbed and scrapped. |
| 11. | Overalls shall be supplied by the Contractor to the painters and adequate facilities shall be provided to enable the working painters to wash during the periods of cessation of work. | |
| 12. | Hoisting machines and tackle used in the works, including their attachments, anchorage and supports shall be in perfect condition. | |
| 13.  14. | The ropes used in hoisting or lowering material or as a means of suspension shall be of durable quality and adequate strength and free from defects.  To strictly follow health related protocol at work site as advised by authority/authorities. | |
|  |  | |

**FIRE SAFETY**

i.     Cutting / drilling machine and other electrically operated equipment’s used at site shall be plugged into correctly rated electrical outlets.

ii.    Only ISI marked 3 pin plug and other appliances and equipment’s shall be used.

iii.   Electrical power cables/wires used shall not have any joints and shall be properly rated.

iv.   All electrical appliances i.e. welding, drilling, cutting machine etc. shall be safely and securely earthed to prevent leakage current while in operation.

v.    Before commencing the welding work for the first time on any day, fire section shall be informed and only after the site inspection by the Fire officers/Personnel, work shall be started.

vi. Two buckets of water and sand shall be kept in an easily accessible area on the site.

vii. Fire extinguishers recommended and issued by fire officers shall be kept on the site.

viii. Used paint drums shall be stored in specified store only after closing them properly.

ix.   Personal protective equipment’s such as safety shoes, hand gloves, welder’s mask, ear plug etc. depending upon the requirement of the work shall be provided by the contractor to the workmen to prevent occupational health hazards.

x. The safety belt shall be provided by the contractor and used by the workmen while working from height for more than 10’ from Ground level.

xi. None of the passages near lift lobby and staircases shall be used for stacking / dumping any kind of materials/waste.

xii. Both the staircase doors shall be normally kept closed.

xiii. None of the fire extinguishers shall be removed/shifted from its designated location.

xiv. Power supply shall be switched off from the mains when equipment is not in use.

xv. Wood-shavings and saw-dust generated from the work shall be collected on daily basis, removed from site and stored at the designated place in proper manner.

xvi. Any debris generated from the work shall be collected on daily basis, removed from site and stored at the designated place in proper manner.

xvii. Battery operated emergency light/torches shall be provided by the contractor to the workmen while working beyond office hours.

Place:

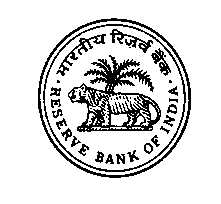
Date: Seal & Signature of the Tenderer.

I/We hereby declare that we have read and understood the safety code of the tender and will fully abide by the same, should the work tender is awarded to me/us.

Place:

Date:

Signature & seal of the contractor



**RESERVE BANK OF INDIA**

**HUMAN RESOURCE MANAGEMENT DEPARTMENT**

**AIZAWL**

**Section G**

**Conditions of contract - commercial**

THE CONDITIONS HEREINBEFORE REFERRED TO

|  |  |  |
| --- | --- | --- |
| **1.1** Interpretation Clause | |  |
| **1.1.1** | In construing these conditions, the | Specifications, Schedule of Quantities |
| and | Contract agreement, the following | words shall have the meaning herein |

assigned to them except where the subject of context otherwise required.

1. "Bank" shall mean the Reserve Bank of India, Aizawl and shall include its assigns and successors.
2. "Contractor" (i) in the case of partnership shall mean \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

and \_\_\_\_\_\_\_\_\_\_\_\_\_ trading as partners in the names and style of

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \_\_\_\_\_\_\_\_\_\_\_\_ | | and | having | | a | place | | of | business | | at |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and shall include the | | | | | | | | partners for | | the | time |
| being of the said | | firm and | | legal representatives of a deceased partner (ii) in | | | | | | | |
| the case of individual shall | | | mean | | Shri \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | | | |
| trading in | the name and | | style of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | | | | | and |
| shall include his | | heirs, successors and legal | | | | representatives (iii) in | | | | the case of | |
| company | shall mean \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ a company incorporated under | | | | | | | | | | |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | 20\_\_\_\_\_ | | and | having | | its | registered | | office | at |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and shall include | | | | | its successors and assigns. | | | | |  |  |

1. "Site" shall mean the site of the Contract works including any building and erections thereon and any other land (inclusively) as aforesaid allotted by the Bank for the Contractor's use.
2. "This Contract" shall mean the Articles of Agreement, the Special Conditions, the Conditions, the Appendix, the Schedule of Quantities, Specifications, and Drawings, etc., attached hereto and duly signed.
3. "Architect" shall mean an architect appointed by the Bank for the work.
4. Bank's Engineer: The term "Bank's Engineer" shall mean the person appointed and paid by the Bank to inspect the works. The Contractor shall afford the Bank's Engineer every facility and assistance for inspecting the works and materials, and for checking and measuring time and materials. Neither the

The Bank's Engineer or any representative of the Bank shall have power to give notice to the Contractor or his representative of non-approval of any work or materials and such work shall be suspended or the use of such materials shall be discontinued.

1. The work will, from time to time, be examined by the Bank's Engineer/Bank's representative but such examination shall not in any way exonerate the Contractor from the obligation to remedy any defects which may be found to exist at any stage of the works or after the same is completed. Subject to the limitation of this clause the Contractor shall take instructions only from the Bank's Engineer.

(h) "Notice in Writing" or Written Notice shall mean a notice written, typed or printed characters sent (unless delivered personally or otherwise proved to have been received) by registered post to the last known private or business address or registered office and shall be deemed to have been received when in the ordinary course of post it would have been delivered.

1. "Act of Insolvency” shall mean any act of insolvency as defined by the Presidency Towns Insolvency Act or the Provincial Insolvency Act or any Act amending such original.
2. "Net Prices" if in arriving at the Contract amount the Contractor shall have

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| added to or | | deducted from | | | the total of | | the items in the tender any sum | |
| either | as percentage or | | | otherwise, than the net prices of any item in the tender | | | | |
| shall | be the sum arrived at by adding | | | | | to | or deducting from the actual figure | |
| appearing in | | the | tender | as | the price | of | that item a similar percentage | or |
| proportionate | | sum | provided | | always that | | in determining the percentage | of |

proportion of the sum so added or deducted by the Contractor the total amount of any Prime Cost items and provisional sums of money shall be deducted from the total amount of the tender. The expression "Net rates" or "Net Prices" when used with reference to the Contract or accounts shall be held to mean rates or prices so arrived at.

1. "The Works” shall mean “**RENOVATION OF CIVIL & ELECTRICAL WORKS IN RBI LEASED PREMISES AT THAKTHING VENG, AIZAWL**”.
2. Words imparting persons include firms and corporations. Words imparting the singular only also include the plural and vice versa, where the context requires.

**1.2** Scope of Contract

**1.2.1** The Contractor shall carry out and complete the said work in every respect inaccordance with this Contract and with the directions of and to the satisfaction of the Bank's Engineer. The Bank's Engineer may in his absolute discretion and from time to time issue further drawings and / or written instructions, details, directions, and explanations which are hereafter collectively referred to as "Bank's Engineer's Instructions" in regard to,

(a) The variation or modification of the design, quality or quantity of works or

the addition or omission or substitution of any work.

(b) Any discrepancy in the drawings or between the Schedule of Quantities and/or

Drawings and/or Specifications.

1. The removal from the site of any materials brought thereon by the Contractor and the substitution of any other material therefor.
2. The removal and/or re-execution of any works executed by the Contractors.
3. The dismissal from the works of any persons employed thereupon.
4. The opening up for inspection of any work covered up.
5. The amending and making good of any defects under clause 1.19 hereof.

**1.2.2** The Contractor shall forthwith comply with and duly execute any workcomprised in such Bank's Engineer's Instructions provided always that verbal instructions, directions and explanations given to the Contractor or his representative upon the work by the Bank's Engineer shall, if involving a variation, be confirmed in writing by the Contractor within SEVEN days, and if not dissented from in writing within a further SEVEN days by the Bank's Engineer, such shall be deemed to be the Bank's Engineer's Instructions within the scope of Contract.

**1.3** Variations to be approved by Bank

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| **1.3.1** Notwithstanding | anything | | herein contained, | the | Bank's Engineer | or | his |
| representative shall not, without | | | the prior concurrence in writing of the Bank | | | | |
| issue any instructions, verbal | | or in writing, which will result in the Bank | | | | having | |
| to pay the Contractor | an | additional sum and | | all | instructions issued | to | the |

Contractor should forthwith be brought to the notice of the Bank. The Contractor shall submit a statement of variations giving quantity and rates duly supported by analysis of rates, vouchers, etc. The rates on scrutiny and final acceptance by the Bank shall form a supplementary agreement. The Bank shall not be liable for payment of such variations until these statements are sanctioned by it.

**1.4** Drawings, Schedule of Quantities and Agreement

**1.4.1** The Contract shall be executed in duplicate and the Bank and theContractor shall be entitled to one executed copy each for his use. The Contractor on the signing hereof, shall be furnished by the Bank's Engineer, free of cost, one copy each of the said Drawings and of the Specifications. Any further copies of such Drawings required by the Contractor shall be paid for by him. The Contractor shall keep one copy of all Drawings on the works and the Bank's Engineer or his representative shall at all reasonable times have access to the same. Before the issue of the final certificate to the Contractor he shall forthwith return to the Bank all Drawings and Specifications.

**1.5** Contractor to provide everything necessary at his cost

**1.5.1** The Contractor shall provide at his cost everything necessary for theproper execution of the works according to the intent and meaning of the Drawings, Schedule of Quantities and Specifications taken together whether the same may or may not be particularly shown or described therein provided that the same can reasonably be inferred therefrom, and if the Contractor finds any discrepancy in the Drawings or between the Drawings, Schedule of Quantities and Specifications he shall immediately and in writing refer the same to the Bank's Engineer who shall decide which is to be followed.

**1.6** Authorities, Notices and Patents

**1.6.1** The Contractor shall conform to the provisions of any Act of the Legislaturerelating to the works, and to the regulations and bye-laws of any authority, and of any water, electric supply and other companies and/or authorities with whose systems the structure is proposed to be connected, and shall, before making any variations from the Drawings or Specifications that may be necessitated by so conforming,

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| give | to the Bank's Engineer written notice, specifying the variations proposed to be | | |
| made and the reason for making it and apply for instructions thereon. | | | In case the |
| Contractor shall not within | | ten days receive such instructions he/she | shall proceed |
| with the work conforming to | | the provisions, regulations, or bye-laws | in question, |
| and | any variation so necessitated shall be dealt with under Clause 1.16 hereof. | | |

**1.6.2** The Contractor shall bring to the attention of the Bank's Engineer all noticesrequired by the said Acts, regulations or bye-laws to be given to any authority and pay to such authority, or to any public office all fees that may be properly chargeable in respect of the works and lodge the receipts with the Bank's Engineer.

**1.6.3** The Contractor shall indemnify the Bank against all claims in respect ofpatent rights and shall defend all actions arising from such claims and shall himself pay all royalties, license fees, damages cost and charges of all and every sort that may be legally incurred in respect thereof.

**1.7** Setting out of Works

**1.7.1** The Contractor shall set out the works and shall be responsible for the trueand perfect setting out of the same and for the correctness of the positions, levels, dimensions and alignment of all parts thereof. If at any time, any error in this respect shall appear during the progress of the works or within a period of one year from the completion of the works, the Contractor shall, if so required, at his own expense rectify such error to the satisfaction of the Bank's Engineer.

**1.8** Materials & Workmanship to conform to Descriptions

**1.8.1** All materials and workmanship shall, so far as procurable, be of therespective kinds described in the Schedule of Quantities and/or Specifications and in accordance with the Bank's Engineers' instructions and the Contractor shall upon the request of the Bank's Engineer furnish him with all invoices, accounts, receipt and other vouchers to prove that the materials comply therewith. The Contractor shall at his own cost arrange for and/or carry out any test of any materials which the Bank's Engineer may require.

**1.9** Contractor's Superintendence & Representative on the works

**1.9.1** The Contractor shall give all necessary personal superintendent duringthe execution of the works and as long thereafter as the Bank's Engineer may consider necessary until the expiration of the "Defects Liability Period" stated in the Appendix hereto. The Contractor shall also during the whole time the works are in progress employ a competent representative who shall be constantly in attendance at the works while the men are at work. Any directions explanations, instructions or notices given by the Bank's Engineer to such representative shall be held to be given to the Contractor.

**1.10** Dismissal of Workmen

**1.10.1** The Contractor shall on the request of the Bank's Engineer immediatelydismiss from the works any person employed thereon by him who may, in the opinion of the Bank's Engineer be incompetent or misconduct himself and such persons shall not be again employed on the works without the permission of the Bank's Engineer.

**1.11** Access to Works

The Bank and their representatives shall at all reasonable times have free access to the works and/or to the workshops, factories or other places where the material is lying or from which they are being obtained and the Contractor shall give every facility to the Bank and their representative necessary for the inspection and examination and test of the materials and workmanship. Pre-dispatch inspection of materials will be carried out by Bank’s Technical officer. No person not authorized by the Bank except the representatives of public authorities shall be allowed on the works at any time.

**1.12** Assignment and Sub-letting

**1.12.1** The whole of the works included in the Contract shall be executed by theContractor and the Contractor shall not directly or indirectly transfer, assign or under-let the Contract or any part/share thereof or any interest therein without the prior written consent of the Bank, and no undertaking shall relieve the Contractor from the full and entire responsibility of the Contract or from active superintendence of the works during their progress.

**1.12.2** No alteration, omission or variation shall vitiate this Contract but in case theBank's Engineer thinks proper at any time during the progress of the works to make any alterations in, or additions to, or omissions from the works or any alterations in the kind or quality of the materials to be used therein and shall give notice thereof in writing under his hand to the Contractor, the Contractor shall alter, add to, or omit from, as the case may be, in accordance with such notice, but the Contractor shall not do any work extra to or make alterations or additions to or omissions from the works or any deviations from any of the provisions of the Contract, Stipulation, Specification or Contract Drawings without the previous consent in writing of the Bank's Engineer and the value of such extras, alterations, additions, or omissions shall in all cases be determined by the Bank's Engineers with the prior approval in writing of the Bank in accordance with the provisions of Clause 1.16 hereof and the same shall be added to, or deducted from the Contract Amount, as the case may be, accordingly.

**1.13** Schedule of Quantities

**1.13.1** The schedule of quantities, unless otherwise stated shall be deemed tohave been prepared in accordance with the standard method of measurement. The mode of measurement for measurable items of work shall be as indicated in the sub-section "mode of measurement" under section.

**1.13.2** Any error in description or in quantity or in omission of items from theSchedule of Quantities shall not vitiate this Contract but shall be rectified and the value thereof as ascertained under Clause 1.16 thereof shall be added to, or deducted from, the Contract Amount (as the case may be) provided that no rectification of errors, if any, shall be allowed in the Contractor's Schedule of Rates.

**1.14** Sufficiency of Schedule of Quantities

**1.14.1** The Contractor shall be deemed to have satisfied himself before tenderingas to the correctness and sufficiency of his tender for the works and of the prices stated in the schedule of quantities and / or the Schedule of Rates and prices which rates and prices shall cover all his obligations under the Contract and all matters and things necessary for the proper completion of the works.

**1.15** Measurement of Works

**1.15.1** The Bank’sEngineer may from time to time intimate to the Contractor that herequires the works to be measured and the Contractor shall forthwith attend or send a qualified agent to assist the Bank's Engineer or his representative in taking such measurements and calculations and to furnish all particulars or to give all assistance required by any of them.

**1.15.2** Should the Contractor not attend or neglect or omit to send such Agent thenthe measurement taken by the Bank's Engineer or a person approved by him shall be taken to be correct measurements of the works. Such measurements shall be

taken in accordance with the Mode of Measurements detailed in the Specifications.

**1.15.3** The Contractor or his Agent may at the time of measurement take suchnotes and measurements as he may require.

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| **1.15.4** All | authorised | extra | works, omissions, and | | all variations made | | without |
| the Bank's Engineers' | | knowledge, | | if subsequently sanctioned | | by him in writing ( | |
| with the | prior approval in | | writing | of the Bank) | shall be | included in | such |
| measurements. | |  |  |  |  |  |  |

**The following procedure shall be adopted for taking & recording the Measurements of works**

The measurements shall be recorded and entered in computerised format in the first instance by the contractor, and a hard copy shall be submitted to the department. All entries shall be made exactly as per the extant procedure for recording conventional MBs.

These measurements shall be then 100% checked by the junior Engineer/ AM (Tech) If Junior Engineer/ AM (Tech) is not available, the AM (Tech) / Mgr.(Tech ) shall perform 100% check of the measurements. The contractor shall incorporate all such changes or corrections, as may be done during these checks, to his draft computerized measurements and submit to the department, the corrected computerised measurement in the form of a book, duly hard bound with its page machine numbered. All the pages of this computerised MB shall have full signature with date of the authorised official of the contractor and the official of the bank with name and designation.

The test checking of these computerised measurements shall be carried out by the concerned officials as per extant instructions. This book shall be treated as computerised Measurement Book.

The computerised MB given by the contractor, duly bound, with its pages machine numbered, shall have no cutting or over- writing. In case of any error, the computerised MB shall be cancelled and the contractor shall re-submit a fresh computerised MB, duly incorporating all corrections. This should be done before the corresponding bill is submitted to the department for payment.

The concerned official shall record the necessary certificates for their checks and test checks as per the extant procedure in the computerised MB. It shall be the responsibility of the concerned officials to ensure that all the corrections have been incorporated in the computerized MB before they record their certificates.

The computerized MB shall be allotted a serial number as per the register of computerised MB to be given by the Bank to the contractor.

All the pages of the Finalised computerizes MB shall have full signature with date of the authorised official of the contractor and the official of the bank with name and designation. The measurements taken by the bank`s engineer or a person approved by him shall be taken to be correct measurements of the work. All measurements shall be taken in accordance with Mode of Measurements detail in the specifications.

**1.16** Prices for extras etc. - Ascertainment of

**1.16.1** The Contractor may, when authorized, and shall, when directed, in writing bythe Bank's Engineer with the approval of the Bank add to, omit from, or vary the works shown upon the drawings, or described in the Specification, or included in the Schedule of Quantities, but the Contractor shall make no additions, omissions or variation without such authorization or direction. A verbal authority or direction by the Bank's Engineer shall, if confirmed by him in writing within seven days, be deemed to have been given in writing.

**1.16.2** No claim for an extra item shall be allowed unless it shall have been executedunder provisions of Clause 1.2.2 hereof or by the authority of the Bank's Engineer with the concurrence of the Bank as herein mentioned. Any such extra is herein referred to as authorized extra and shall be made in accordance with the following provisions.

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| (a) | The net rates or prices in | the original tender shall determine the valuation of | |
|  | the extra work where such | extra | work is of similar character and executed |
|  | under similar conditions as the work | | priced therein. |
| (b) | Rates for all items, wherever | possible, should be derived out of the rates given | |
|  | in the priced Schedule of Quantities. | |  |

1. The net prices of the original tender shall determine the value of the items omitted provided if omissions vary the conditions under which any remaining items of works are carried out the prices for the same shall be valued under sub-clause (c) and (d) hereof.
2. Where the extra works are not of similar character and/or executed under similar conditions as aforesaid or where the omissions vary the conditions under which any remaining items of works are carried out or if the amount of any omission or additions relative to the amount of the whole of the Contract Works or to any part thereof shall be such that in the opinion of the Bank's Engineer the net rate or price contained in the Priced Schedule of Quantities or tender or for any item of the works involves loss or expense beyond that reasonably contemplated by the Contractor or it by reason of such omission or addition rendered unreasonable or inapplicable, the Bank's Engineer shall fix such other price as in the circumstances he shall think reasonable and proper, with the prior approval in writing of the Bank.

Where extra work cannot be properly measured or valued the Contractor shall be allowed day work prices as the net rates stated in the tender or the Price Schedule of Quantities or, if not so stated, then in accordance with the local day work rates and wages for the district; provided that in either case vouchers specifying the daily time (and if required by the Bank's Engineer the workmen's names) and materials employed be delivered for verification on to the Bank's Engineer or his representative at or before the end of the week following that in which the work has been executed.

1.16.3 Extra item for variation of quantity: - The Contractor should note that unless otherwise stated the tender is strictly on item rate basis and his attention is drawn to the fact that rates for each and every item should be correct, workable and self supporting. The quantities in the Schedule of Quantities approximately indicate the total extent of work but may vary to any extent and may even be omitted thus altering the aggregate value of the contract. However, during the actual execution of work if the quantities of any of the items of work exceeds by more than 25 % of the tender quantities, the quantities of such items executed, by the authority of Bank’s Engineer, in excess of 25% of the tender quantity shall be considered as an extra item of work for which the contractors shall submit fresh rates supported by rate analysis worked on the actual cost basis plus 15% towards establishment charges, contractor’s over heads and profit. The rates for all such items of work, being current ones, will not be eligible for price adjustments due to increase or decrease in prices of materials and labour rates as per escalation formula, if any given in the tender. If any of the items of work is omitted from the accepted tender at the sole discretion of the Bank, the contractor shall not be entitled to any claim on this account.

**1.16.4** The measurement and valuation in respect of the Contract shall becompleted within the "Period of final measurements" stated in the Appendix or if not stated, then, within six months of the completion of the Contract works as defined in Clause 1.20 hereof.

**1.17** Unfixed materials when taken into account to be Property of the Bank

**1.17.1** Where in any certificate (of which the Contractor has received payment) theBank's Engineer has included the value of any unfixed materials intended for and/or placed on or adjacent to the works such materials shall become the property of the Bank and they shall not be removed except for use upon the works, without the written authority of the Bank's Engineer. The Contractor shall be liable for any loss of or damage to such materials.

**1.18** Removal of Improper Works

**1.18.1** The Bank's Engineer, shall during the progress of the works, have power to

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| order in writing from time to | time | the removal from | the works within | such |
| reasonable time or times as may | be | specified in the order, of any materials | | which |
| in the opinion of the Bank's Engineer are not in accordance | | | with the Specifications | |
| or the instructions of the Bank's Engineer, the substitution | | | of proper materials and | |

the removal and proper re-execution of any work executed with materials or workmanship not in accordance with the Drawings and Specifications or instructions; and the Contractor shall forth-with carry out such order at his own cost. In case of default on the part of the Contractor to carry out such order, the Bank shall have the power to employ and pay other persons to carry out the same; and all expense consequent thereon, or incidental thereto, as certified by the Bank's Engineer shall be borne by the Contractor, or may be deducted by the Bank from any moneys due, or that may become due, to the Contractor.

**1.19** Defects after Virtual Completion

**1.19.1** Any defect, shrinkage, settlement or other faults which may appear within the"defect liability period" stated in the Appendix hereto or, if none stated, then within twelve months from the date of completion of the work arising in the opinion of the Bank's Engineer from materials or

workmanship not in accordance with the Contract, shall upon the directions in writing of the Bank's Engineer and within such reasonable time as shall be specified therein, be amended and made good by the Contractor, at his own cost and in case of default the Bank may employ and pay other persons to amend and make good such defects, shrinkage, settlements or other faults, and all damages, loss and expenses consequent thereon or incidental thereto shall be made good and borne by the Contractor and such damages, loss and expenses shall be recoverable from him/her by the Bank or may be deducted by the Bank from any money due or that may become due to the Contractor, or the Bank may in lieu of such amending and making good by the Contractor, deduct from any moneys due to the Contractor a sum, to be determined by the Bank's Engineer, equivalent to the cost of amending such work and in the event of the amount retained under Clause 1.28 hereof being insufficient, recover the balance from the Contractor, together with any expenses the Bank may have incurred in connection therewith. Should any defective work have been done or material supplied by any sub-Contractor employed on the works, who has been nominated or approved by the Bank's Engineer as provided in Clauses 1.11 and 1.12 hereof the Contractor shall be liable to make good in the same manners as if such work or material had been done or supplied by this Contractor and been subject to the provisions of the Clause 1.2 hereof. The Contractor shall remain liable under the provisions of this clause notwithstanding the signing of any Certificate or the passing of any accounts, by the Bank's Engineer.

**1.20** Other Persons Employed by Bank

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| **1.20.1** The Bank reserves the right to use the premises and any | | | | | | | | | portions of the |
| site for the execution of any work not included in this Contract which it may desire | | | | | | | | | |
| to have carried out by other persons and the Contractor shall allow | | | | | | | | | all reasonable |
| facilities | for the execution of such work not included | | | | in | this Contract which it may | | | |
| desire to | have carried out by other persons and | | | | the | Contractor | | | shall allow all |
| reasonable facilities for the execution | | | of such work but | | | | shall not be required to | | |
| provide any plant or materials for the execution of such | | | | | | | work | except by special | |
| arrangements with the Bank. Such work | | | | shall be carried | | | | out in such manner | |
| as not to impede the progress of | | the works | | included | | | in the Contract and the | | |
| Contractor shall not be responsible | | for | any damage or delay which may happen | | | | | | |
| to or occasioned by, such work. | |  |  |  | | |  |  | |

**1.21** Insurance in respect of Damage to Person & Property

**1.21.1** The Contractor shall be responsible for all injury to persons, animals orthings, and for all structural and decorative damage to property which may arise from the operation or neglect of himself or of any nominated Sub- Contractor or any employee of either, whether such injury or damage arises from carelessness, accident or any other cause whatever in any way connected with the carrying out of this Contract. This Clause shall be held to include inter-alia, any damage to buildings, whether immediately adjacent or otherwise and any damage to roads, streets, footpaths, bridges or way as well as all damages caused to the buildings and works forming the subject of this Contract by frost, rain, wind or other inclemency of weather. The Contractor shall indemnify the Bank and hold him harmless in respect of all and any expenses arising from any such injury or damage to persons or property as aforesaid and also in respect of any claim made in respect of injury or damage under any Acts of any award of compensation or damages consequent upon such claim.

**1.21.2** The Contractor shall reinstate all damage of every sort mentioned in thisClause, so as to deliver up the whole of the Contract works complete and perfect in

every respect and so as to make good or otherwise satisfy all claims for damage to the property of third parties.

**1.21.3** The Contractor shall indemnify the Bank against all claims which may bemade against the Bank by any member of the public or other third party in respect of anything which may arise in respect of the work or in consequence thereof and shall at his own expense arrange to effect and maintain, until the virtual completion of the Contract with an approved office a Policy of Insurance in the joint names of the Bank and the Contractor against such risks and deposit such policy or policies with the Bank's Engineer from time to time during the currency of this Contract. The Contractor shall also similarly indemnify the Bank against all claims which may be made upon the Bank whether under the Workmen's Compensation Act or any other statute in force during the currency of this Contract or at Common Law in respect of any employee of the Contractor or any Sub-Contractor and shall at his own expense effect and maintain, until the virtual completion of the Contract, with an approved Office a Policy of Insurance in the Joint names of the Bank and the Contractor against such risks and deposit such Policy or Policies with the Bank from time to time during the currency of the Contract.

**1.21.4** The Contractor shall be responsible for any liability which may be excludedfrom the insurance policies above referred to and also for all other damages to any person, animal, or property arising out of and incidental to the negligent or defective carrying out of this Contract. He shall also indemnify the Bank in respect of any costs, charges, or expenses arising out of any claim or proceedings and also in respect of any award of or compensation or damages arising therefrom.

**1.21.5** The Bank shall be entitled to deduct the amount of any damage,compensation, costs, charges and expenses arising or accruing from, or in respect of any such claims or damage from any or all sums due or to become due to the Contractor, without prejudice to the Bank's other rights in respect thereof. The Contractor shall, at his own expense, arrange to effect and maintain (until the virtual completion of the Contract) with an approved office, the following insurance policies and deposit such policy or policies with the Bank's Engineer from time to time during the currency of this Contract.

1. **(C.A.R. Policy) for the total amount of contract**
2. **Workmen compensation policy.**
3. **Third party liability policy with the limits as under** 
   1. Rs. 5 lakh in respect of damage to property for any one accident or occurrence subject to an overall ceiling of Rs. 10 lakh.
   2. Rs. 2 lakh per person for any one accident or occurrence.

**1.22** Date of Commencement & Completion

**1.22.1** The Contractor shall be allowed admittance to the site on the "Date ofCommencement" stated in the Appendix hereto, or such later date as may be specified by the Bank's Engineer and he shall thereupon and forthwith begin the works and shall regularly proceed with and complete the same (except such paint or other decorative work as the Bank's Engineer may desire to delay) on or before the "Date of Completion" stated in the Appendix subject nevertheless to the provisions for extension of time hereinafter contained.\

**1.23** Damage for Non-completion

If the Contractor fails to complete the works by the date stated in the Annexure-I or within any extended time, under Clause 1.23 here, the Contractor shall pay the Employer the sum named in the Annexure-I as " Liquidated Damages" for the period during which the said works shall so remain incomplete and the Bank may deduct such damages from any moneys due to the Contractor. The recovery of Liquidated Damages shall be quantum of liquidated damages per week shall be 0.25% of the estimated cost and subject to a maximum 10% of the accepted e-tender amount.

**1.24** Delay & Extension of Time

**1.24.1** If in the opinion of the Bank, the works be delayed (a) by force majeureor (b) by reason of any exceptionally inclement weather or (c) by reason of proceedings taken or threatened by or dispute with adjoining or neighboring owners or public authorities arising otherwise then through the Contractor's own default or

(d) by the works or delays of other Contractors or Tradesmen engaged or nominated by the Bank and not referred to in the Schedule of Quantities and/or Specifications or (e) by reason of Bank's Engineer's instructions as per Clause 1.2 hereof or (f) by reason of civil commotion, local commotion of workmen or strike or lock-out affecting any of the building trades or (g) in consequence of the Contractor not having received in due time necessary instructions from the Bank's Engineer for which he shall have specifically applied in writing or (h) from other causes which the Bank's Engineer may certify as beyond the control of Contractor or (i) in the event, the value of the work exceeds the value of the Priced Schedule of Quantities owing to variation, the Bank's Engineer may with the previous approval in writing of the Bank make a fair and reasonable extension of time for completion of the Contract works; in case of such strike or lock-out the Contractor shall, as soon as may be given written notice thereof to the Bank's Engineer, but the Contractor shall nevertheless constantly use his endeavor to prevent delay and shall do all that may reasonably be required to the satisfaction of the Bank's Engineer to proceed with work.

**1.25** Failure by Contractor to comply with Bank's Engineer's Instructions

**1.25.1** If the Contractor after receipt of written notice from the Bank requiringcompliance within ten days fails to comply with such further drawings and/or Bank's Engineer's instructions, the Bank may employ and pay other persons to execute any such work whatsoever that may be necessary to give effect thereto, and all costs incurred in connection therewith shall be recoverable from the Contractor by the Bank on the Certificate of the Bank's Engineer as a debt or may be deducted by him from any moneys due to the Contractor.

**1.26** Termination of Contract by the Bank

**1.26.1** If the Contractor being an individual or a firm commits any "Act ofInsolvency", or shall be adjudged an Insolvent or being an Incorporated Company shall have an order for compulsory winding up made against it or pass an effective resolution for winding up, voluntarily or subject to the supervision of the Court and the Official

Assignee or the Liquidator in such acts of insolvency or winding up, as the case may be, shall within seven days after notice to him requiring him to do so, to show to the

reasonable satisfaction of the Bank's Engineer that he is able to carry out and fulfill the Contract and to give security therefor, if so, required by the Bank's Engineer.

Or, if the Contractor (whether an individual, firm or Incorporated Company) shall suffer execution or other process of court attaching property to be issued, against the Contractor.

Or shall suffer any payment under this Contract to be attached by or on behalf of any of the creditors of the Contractor, Or shall assign or sublet this Contract without the consent in writing of the Bank first hand obtained. Or shall charge or encumber this Contract or any payments to you, or which may become due, to the Contractor then and there,

Or if the Bank's Engineer shall certify in writing to the Bank that the Contractor:

1. has abandoned the Contract, or
2. has failed to commence the works, or has without any lawful excuse under these Conditions suspended the progress of the works for fourteen days after receiving from the Bank's Engineer notice to proceed, or
3. has failed to proceed with the works with such due diligence and failed to make such due progress as would enable the works to be completed within the time agreed upon, or
4. has failed to remove material from the site or to pull down and replace work for seven days after receiving from the Bank written notice that the said materials or works were condemned and rejected by the Bank's Engineer under these conditions, or has neglected or failed persistently to observe and perform all or any of the acts, matters or things by this Contract to be observed and performed by the Contractor for seven days after written notice shall have been given to the Contractor requiring the Contractor to observe or perform the same.

Then and in any of the said cases the Bank may, not withstanding any previous waiver, after giving seven days' notice in writing to the Contractor, determine the Contract, but without thereby affecting the powers of the Bank's Engineer or the obligations and liabilities of the Contractor, the whole of which shall continue in force as fully as if the Contract had not been so determined, and as if the works subsequently executed had been executed by or on behalf of the Contractor. And further, the Bank by his agents or servants may enter upon and take possession of the works and all plant, tools, scaffoldings, shade, machinery, steam and other power utensils and materials lying upon the premises of the adjoining lands or roads, and use the same as his own property or may employ the same by means of his own servants and workmen in carrying on and completing the works or by employing any other Contractor or other person or persons to complete the works, and the Contractor shall not in any way interrupt or do any act, matter or thing to prevent or hinder such other Contractor or other person or persons employed for completing and finishing or using the materials and plant for the works. When the works shall be completed or as soon thereafter as convenient the Bank's Engineer shall give a notice in writing to the Contractor to remove his surplus materials and plant, and

should the Contractor fail to do so within a period of fourteen days after receipt thereof by him, the Bank may sell the same by public auction, and give credit to the Contractor for the net amount realised. The Bank's Engineer shall thereafter ascertain and certify in writing under his hand what (if anything) shall be due or payable to, or by the Bank, for the value of the said plant and materials so taken possession of by the Bank and the expenses or loss which the Bank shall have been put to in procuring the works to be completed, and the amount, if any, owing to the Contractor and the amount, which shall be so certified, shall thereupon be paid by the Bank to the Contractor or by the Contractor to the Bank, as the case may be, and the Certificate of the Bank's Engineer shall be final and conclusive between the parties.

**1.27** Termination of Contract by Contractor

**1.27.1** If payment of the amount payable by the Bank under certificate of theBank's Engineer shall be in arrears and unpaid for thirty days after notice in writing requiring payment of the amount as aforesaid shall have been given by the Contractor to the Bank, or if the Bank interferes with or obstructs the issue of any such certificate, or if the Bank shall repudiate the Contract, or if the works be stopped for three months under the order of the Bank's Engineer or the Bank or by any injunction or other order of any Court of Law, then and in any of the said cases, the Contractor shall be at liberty to determine the Contract by notice in writing to the Bank, through the Bank's Engineer, and he shall be entitled to recover from the Bank, payment for all works executed and for any loss he may sustain upon any plant or materials supplied or purchased or prepared for the purpose of the Contract.

**1.27.2** In arriving at the amount of such payment, the net rates contained in theContractor's original tender shall be followed, or where the same may not apply, valuation shall be made in accordance with Clause 1.16 hereof.

**1.28** Certificate & Payments

**1.28.1.A** The Contractor shall be paid by the Bank from time to time byinstallments under Interim Certificates to be issued by the Bank's Engineer to the Contractor on account of the works executed when in the opinion of the Bank's Engineer work to the approximate value named in the Appendix as Value of work for Interim Certificates (or less at the reasonable discretion of the Bank's Engineer) has been executed in accordance with the Contract. No certificate of the Bank's Engineer shall of itself be conclusive evidence that any works or materials to which it relates are in accordance with the Contract neither will the Contractor have a claim for any amounts which the Bank's Engineer might have certified in any interim bill and paid by the Bank and which might subsequently be discovered as not payable and in this respect the Bank's decision shall be final and binding.

1.28.1 B. The contractor, on signing an Undertaking in the specified form, shall be entitled to be paid during the progress of the execution of the work up to 75% of the assessed value of any materials (The assessed value shall be the least of the purchase value supported by the tax paid vouchers, duly verified, or material price derived from the tender rate for the respective item) which are in the opinion of the Bank’s Engineer non-perishable, non-fragile and are in accordance with the contract and which have been brought on the site in connection therewith as per the approved progress plan and are adequately stored and/or protected against damage by weather or other causes but which have not at the time of advance been incorporated in the works. When materials on account of which an advance has been made under this sub-clause are incorporated in the work, the amount of such advance shall be recovered /deducted from the next payment made under any of the clause or clauses of this contract.

The decision of the Engineer- in-Charge shall be final and binding on the contractor in this matter. No secured advance, shall however, be paid on high-risk materials such as ordinary glass, sand, petrol, diesel etc.

**1.28.2** The Bank's Engineer shall have power to withhold any certificate if the worksor any parts thereof are not being carried out to his satisfaction.

**1.28.3** The Bank's Engineer may by any certificate make any correction in anyprevious certificate which shall have been issued by him.

**1.28.4** No Certificate of Payment shall be issued by the Bank's Engineer if theContractor fail to ensure the works and keep them insured till the completion of the work.

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| **1.28.5** Payments | upon the Bank's Engineer's Certificate | shall be made within the |
| periods named in the Appendix as "Period for honour | | of Certificate" after such |
| Certificates have | been delivered to the Bank. |  |

**1.29** Delayed Payment

Any amounts payable by the Bank to the Contractor in pursuance of any Certificate given by the Bank's Engineer hereunder shall, if not paid within the "Period for honouring Certificate" named in the Appendix, carry interest at the rate named in the Appendix, as the "Rate of Interest for Delayed Payment" from the date upon which such sum ought to have been paid by the Bank until the payment.

**1.30** Matters to be finally determined by Bank's Engineer

**1.30.1** The decision, opinion, direction, Certificate of the Bank's Engineer (Except forpayment) with respect to all or any of the matters under Clauses 1.2.1 (a, b), 1.5, 1.6, 1.13 and 1.24 (a,b,c,d and f) hereof (which matters are herein referred to as the excepted matters) shall be final and conclusive and binding on the parties hereto and shall be without appeal. Any other decision, opinion, direction, certificate or valuation of the Bank's Engineer or any refusal of the Bank's Engineer to give any of the same, shall be subject to the right of Arbitration and review under Clause 1.31 hereof in the same way in all respects (including the provisions as to opening the reference) as if it were a decision of the Bank's Engineer.

**1.31** Settlement of Dispute by Arbitration

|  |  |  |  |  |  |
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| **1.31.1** All | disputes and | differences | of any kind whatever arising out of | | or in |
| connection | with Contract | or the carrying out of | | the works (whether during the | |
| progress of | the works or | after their | completion | and whether before or after the | |
| determination, abandonment or breach of the Contract) shall be referred to | | | | | and |
| settled by | the Bank's Engineer, who | | shall state | his decision in writing. | Such |

decision may be in the form of a final certificate or otherwise. The decision of the Bank's Engineer with respect to any of the excepted matters shall be final and without appeal as stated in this Clause, But if either the Bank or the Contractor be dissatisfied with the decision of the Bank's Engineer on a matter, question or dispute of any kind (except any of the excepted matters) or as to the withholding by

the Bank's Engineer of any Certificate to which the Contractor may claim to be entitled, then and in any such case, either party (the Bank or the Contractor) may within 28 days after receiving notice of such decision given a written notice to the other party through the Bank’s Engineer requiring that matters in dispute be arbitrated upon. Such written notice shall specify the matters which are in dispute or difference of which such written notice has been given and no other shall be and is hereby referred to the arbitration and final decision of an arbitrator to be agreed upon as appointed by both the parties or, in case of disagreement as to the appointment of a single arbitrator, to the appointment of two arbitrators, one to be appointed by each party , which arbitrators shall, before taking upon themselves the burden or reference, appoint an Umpire.

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| **1.31.2** The | Arbitrator or Arbitrators, as the case may be, shall have power to open | | | | | | |
| up, review and revise any | | | certificate, opinion, decision, requisition of notice, save in | | | | |
| regard to | the excepted | | matters referred to in | | the preceding Clause, | and | to |
| determine | all matters in dispute, which shall be | | | | submitted to arbitration | and | of |
| which notice shall have | | been given | | as aforesaid. |  |  |  |

**1.31.3** The Arbitrator or Arbitrators, as the case be, shall make his or their awardwithin one year (or such further extended time as may be decided by him or they, as the case may be, with the consent of the parties from the date of the Arbitrator entering on the reference. In case during the arbitration proceedings the parties mutually settle, compromise or compound their dispute or difference, the Arbitrator or Arbitrators, as the case may be shall be deemed to have been revoked and the arbitration proceedings shall stand withdrawn or terminated, with effect from the date on which the parties file a joint memorandum of settlement thereof, with the Arbitrator or Arbitrators as the case may be.

**1.31.4** Upon every or any such reference, the cost of and incidental to thereference and award respectively shall be in the discretion of the Arbitrator or Arbitrators, as the case may be, who may determine, the amount thereof, or direct the same to be taxed as between attorney and client or as between party and party, and shall direct by whom and to whom and in what manner the same shall be borne and paid. This submission shall be deemed to be a submission to Arbitration within the meaning of the Indian Arbitration and Conciliation Act,1996 or any statutory modification thereof. The Award of the Arbitrator or Arbitrations, as the case shall be final and binding to the parties. It is agreed that the Contractor shall not delay in carrying out the works by reasons of any such matter, question or dispute being referred to arbitration but shall proceed with the work with all due diligence and shall, until the decision of the Arbitrator or Arbitrators, as the case may be, given abide by the decision of the Bank’s Engineer and no Award of Arbitrator or Arbitrators, as the case maybe , shall relieve the Contractor of his obligations to adhere strictly to the Bank’s Engineer’s instructions with regard to the actual carrying out of the works. The Bank and the Contractor hereby also agree that arbitration under this Clause shall be a condition precedent to any right to action under the Contract.

**1.32** Right of Technical Scrutiny of Final Bill

**1.32.1** The Bank shall have a right to cause a technical examination of theworks by any agency and the full and the final bill of the Contractor including all supporting vouchers, abstracts, etc, to be made at the time of payment of the final bill. If as a result of this examination or otherwise any sum is found to have been overpaid or over-certified it shall be lawful for the Bank to recover the sum.

**1.33** Bank Entitled to Recover Compensation Paid to Workmen

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| **1.33.1** If, for any reason, the Bank is obliged, by virtue of | | | | | | | | | | | | the provisions of the | | | |
| workman's | | Compensation Act, | | | | 1923, | or | any | | Statutory Modification or re- | | | | | |
| enactment | | thereof | to | pay | compensation | | | to | a | workman | | employed | | by | the |
| Contractor, | | in execution | | of | the | works, the Bank, shall be entitled to recover | | | | | | | | | |
| from the Contractor the amount of compensation so | | | | | | | | | | paid, and | | without prejudice to | | | |
| the rights of the Bank under | | | | | | the said Act. The Bank shall be at liberty to | | | | | | | | | |
| recover such amount or any part thereof by deducting it from the security deposit | | | | | | | | | | | | | | | or |
| from | any | sum due by the Bank to the Contractor | | | | | | | | | under | | this Contract | | or |
| otherwise. The Bank shall not be bound to contest any | | | | | | | | | | | claim | | made | against it | |
| under the said Act, | | | except on the written | | | | request | | | of the Contractor and upon his | | | | | |
| giving | to the Bank full security to the | | | | | | satisfaction of the Bank for all costs | | | | | | | | |
| for which | | the Bank might become liable | | | | | | | in consequence of contesting such | | | | | | |
| claim. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**1.34** Abandonment of Works

**1.34.1** If at any time after the acceptance of the tender, the Bank shall for anyreasons whatsoever not require the whole or any part of the works to be carried out, the Bank's Engineer shall give notice in writing to the Contractor who shall have no

claim to any payment of compensation or otherwise whatsoever on account of any profit or advantage which he might have derived from execution of the whole works.

**1.35** Return of Surplus Materials

**1.35.1** Notwithstanding anything to the contrary contained in any of all the clauses ofthis Contract, where any materials for the execution of the Contract are procured with the assistance of the Bank by purchase made under orders or permits or licenses issued by Government the Contractor shall hold the said materials economically and solely for the purpose of the Contract and not dispose off them without the prior written permission of the Bank and return them to the Bank, if required by the Bank at the price to be determined by the Bank's Engineer having due regard to the condition of the materials, the price to be determined not to exceed the purchase price thereof inclusive of sales tax, octroi and other such levies paid by the Contractor in respect thereof. In the event of breach of the aforesaid condition, the Contractor shall, in addition to being liable to action for contravention of the terms of licenses or permits and/or criminal breach of trust, be liable to the Bank all moneys, advantages or profits resulting or which in the usual course would have resulted to him by reason of such breach.

**1.36** Right of the Bank to Terminate Contract in the Event of Death ofContractor, if Individual

**1.36.1** Without prejudice to any of the rights or remedies under this Contract, if theContractor being an individual, dies, the Bank shall have the option of terminating the Contract without incurring any liability for such termination.

1.37 Testing

* + 1. As required by Bank’s engineer, certificate/ purchase bill to be submitted if required.

### 1.38 Prevention of Sexual Harassment

1. The Contractor / Agency shall be solely responsible for full compliance with the provisions of "the Sexual Harassment of women at work place (Prevention, Prohibition and Redressal) Act, 2013. ln case of any complaint of sexual harassment against its employee within the premises of the Bank, the complaint will be filed before the Internal Complaints Committee constituted by the Contractor Agency and the Contractor/Agency shall ensure appropriate action under the said Act in respect to the complaint.
2. Any complaint of sexual harassment from any aggrieved employee of the contractor against any employee of the Bank shall be taken cognizance of by the Regional Complaints Committee constituted by the Bank.
3. The contractor shall be responsible for any monetary compensation that may need to be paid in case the incident involves the employees of the contractor, for instance any monetary relief to Bank's employee, if sexual violence by the employee of the contractor is proved.
4. The contractor shall be responsible for educating its employees about prevention of sexual harassment at workplace and related issues.
5. The contractor shall provide a complete and updated list of its employees who are deployed within the Bank's premises.

### 1.39 Non-Disclosure Clause

The Contractor shall not disclose directly or indirectly any information, materials and details of the Bank's infrastructure/systems/ equipments etc., which may come to the possession or knowledge of the Contractor during the course of discharging its contractual obligations in connection with this agreement, to any third party and shall at all times hold the same in strictest confidence. The Contractor shall treat the details of the contract as private and confidential, except to the extent necessary to carry out the obligations under it or to comply with applicable laws. The Contractor shall not publish, permit to be published, or disclose any particulars of the works in any trade or technical paper or elsewhere without the previous written consent of the Employer. The Contractor shall indemnify the Employer for any loss suffered by the Employer as a result of disclosure of any confidential information. Failure to observe the above shall be treated as breach of contract on the part of the Contractor and the Employer shall be entitled to claim damages and pursue legal remedies. The Contractor shall take all appropriate actions with respect to its employees to ensure that the obligations of non-disclosure of confidential information under this agreement are fully satisfied. The Contractor's obligations with respect to non-disclosure and confidentiality will survive the expiry or termination of this agreement for whatever reason

**1.40** Work at Site

**1.40.1** The contractor shall inspect the site and ascertain for himself the nature,character and extent of work to be executed and shall include all items, whether specifically mentioned or not in the Specifications, Drawings, or Schedule of quantity to make with the intent and purpose of these Specifications.

**1.40.2** Before submitting the quotations the Contractor is advised to inspect the site and understand the scope of the work fully. In case of any clarifications required, The Contractor may approach the Bank’s Engineer.

**1.40.3** The labourer of the Contractor will not be allowed to stay within the premises except during the work.

**1.40.4** The electric power required for the work can be drawn from the existing supply point available a site. Necessary switch boards with fuse, wires etc. and other accessories required for drawing the power to site will have to be arranged by the contractor.

**1.40.5** Permission, if any, required from the local bodies shall have to be obtained by the contractor at his own cost.

**1.40.6** The entire materials for the work shall be brought to the working area through the staircase only and the lifts of the Bank shall not be used for the purpose.

1.40.7 The intending Contractor may obtain any clarifications regarding the tender from the office of the AGM, Human Resource Management Department, Reserve Bank of India, Aizawl.

**1.40.8** The Contractor may please note that the area involved for this work is inside the office Building. This building, therefore, is in occupation. The Contractor, therefore, will have to carry out his work without causing any inconvenience to the staff working in the Premises.

**1.40.9** The work area required to be cleared of debris on a day to day basis without any additional cost to the Bank.

**1.40.10** At the site of work either the contractor himself should be present to supervise the work or else make necessary arrangements to post a qualified supervisor to supervise the work at site. Any instructions given by the Bank’s engineer to the supervisor will be construed to have been given to the contractor and similar compliance expected from him.

**1.40.11** Any damage caused to the Bank’s/other property (inside the premises) shall be made good by the contractor at his own cost.

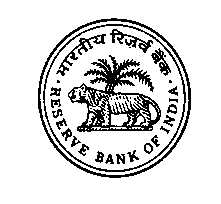
**1.40.12** The contractor shall ensure that the labourers employed by him have some official valid documents (OVD) such as Aadhar card, voter ID card, driving license etc. to facilitate security related checks on them. In case the labourers do not have any document to prove their identity they may not be allowed to enter the Bank building premises.

I/We have understood all the above-mentioned conditions and they are acceptable to me/us.

Place: Signature of Contractor

Date: Name and designation:

Name of firm with Seal



**Section H**

**RESERVE BANK OF INDIA**

**HUMAN RESOURCE MANAGEMENT DEPARTMENT**

**AIZAWL**

**TECHNICAL SPECIFICATIONS**

## 1.1.1 **SCOPE OF WORK**

The scope of work covered under this contract comprises the civil, plumbing, carpentry, electrical and other related works in RBI Aizawl Office (New leased premises at Thakthing Veng, Aizawl).

## **1.1.2 MATERIALS AND WORKMANSHIP**

The contractor under this contract binds himself to use first class materials. Quality of workmanship shall be of the highest order befitting the nature of the project. All work not upto the standard shall be summarily rejected and the Contractor will be required to dismantle the defective work and redo the work at his own cost and risk. The decision of architect/employer regarding the quality/standard of workmanship shall be final and binding on the contractor.

## 1.2.0 **MATERIALS**

**1.2.1 Cement:** Cement shall comply in every respect with the requirements of the latest publication of IS-269 and unless otherwise specified Ordinary Portland cement shall be used.

The weight of Ordinary Portland cement shall be taken as 1440 kg per CuM (80 lbs per Cft.). Cement shall be measured by weight and in whole bags and each undisturbed and sealed 50kgs. bag being considered equivalent to 34.72 litres (1.2 Cft.) in volume. Care should be taken to see that each bag contains full quantity of cement. When part bag is required, cement shall be taken by weight or measured in measuring boxes.

**1.2.2 Water:**

Water used for mixing and curing shall be potable clean, reasonably clear and free from objectionable quantities of silt, oils, alkalis, acids, salts so as not to weaken mortar.

**1.2.3 Sand:**

Sand shall conform to IS 1542 specifications for sand for mortars and plaster.

**1.2.4 Metal:**

Metal shall conform to IS 1542 specifications for Metal for concrete.

1.2.5 (a) **Cement mortar:**

For PCC/backing coat to stone shall be prepared by mixing cement and sand in specified proportion. Proportioning shall be carried out as detailed in BOQ. Cement and sand shall be thoroughly mixed and water shall be added to it gradually. After addition of water the mix shall be mixed for a minimum of 3 minutes. The mortar mixed shall be consumed within 30 minutes of its mixing.

1.2.6 **Bricks:** -

Bricks shall generally comply with IS 1077 except in size which shall be conforming to the sizes locally available. Depending upon the quality of bricks they shall be classified as 1st and 2nd class.

Bricks shall be the best quality locally available table moulded well burnt but not overburnt, have pane rectangular faces with parallel side and sharp right-angled edges, have a fine compact and uniform texture. The bricks shall be free from cracks, chips, flaws, stones or lumps of any kind and shall not show efflorescence either dry or subsequent to soaking in water. It shall emit a clear ringing sound on being struck and shall not absorb water more than 20% by weight. Common building bricks shall have a minimum compressive strength of 50 Kg per sq.cm. when used as panel in frame structure and 100 Kg per sq.cm. for load bearing wall construction, unless otherwise specifically stated in the schedule of quantities.

**1.2.7 Ceramic/ Vitrified tiles flooring:**

**1.2.7.1 Ceramic/v**itrified tiles as specified in Schedule of Quantities and approved by Bank’s Engineers/Architect shall be procured from the approved source. The colour/pattern of tiles shall be uniform and free from all defects.

**1.2.7.2** The edges of tiles shall be protected from any damage in transit.

**1.2.7.3** The tiles shall be laid on bedding of cement mortar and in the manner as specified by the manufactures.

The ceramic tiles shall be soaked properly before its laying on cement mortar.

**1.2.7.4** The tiles shall be laid in pattern/design as approved by Architect/Bank’s Engineer. Necessary cutting of tiles where required shall be done. Joints shall be as thin as possible or as directed by Bank’s Engineer.

Laying shall start after due consideration is given to the following points and approved by Bank’s Engineer.

1. Datum levels of floors in room, passages, etc.

1. In case there is any architectural feature, the same shall be considered and Pattern adjusted accordingly.

1. Location and fixing of floor trunking and junction boxes.

1. Tiles may be allowed to go under plaster/skirting/dado for about 10 mm.

**1.2.7.5** After the flooring is laid surplus adhesive from the joints shall be cleaned. The following day the joints shall again be cleaned and grouted with white cement mixed with matching pigment. Excessive grouts shall be cleaned off. The joints shall be cured for seven days.

**1.2.7.6** The floors shall be washed with oxalic acid, cleaned and dried with a soft cloth before handing over the site.

**1.2.8 Measurement:** The flooring shall be measured in square meters. No extra shall be admitted on account of cutting of tiles to size in shape, preparing a pattern, or a special border or band. The area of floor shall be measured between finished face of skirting to skirting. Portion of flooring below plaster or skirting shall not be measured.

**1.3.0 SKIRTING/DADO**

**1.3.1** Material for skirting, dado shall be as specified herein above.

**1.3.2** Surface preparation shall be same as for flooring for each type. Backing coat, plaster for dado and skirting shall be done as detailed herein above. The plaster shall be combed for creating a key and better adhesion with skirting material.

**1.3.3** External and internal facings shall be fixed with adequate provision for expansion and compression joints.

* + 1. Skirting and dado shall be fixed as under:

1. Sufficiently hardened backing/under coat must be damp.

1. Tiles cut to size must be buttered with white/coloured cement paste on the back side as directed.

1. Tiles shall be fixed on the under coat and tamped with wooden mallet or rubber mallet to achieve full adhesion to the under coat. Edges shall be tamped to line and level.

1. Care shall be taken to achieve pattern of laying with respect to drawings and the floor.

1. The laid tiles shall be mopped with wet cloth to remove grout coming out of the joints.

**1.3.5** The cleaning shall be as described herein above and the operation shall be manual.

**1.3.6** Measurement shall be in running meters for skirting for specified width. Dado shall be measured in square meters.

**1.3.7** Rate shall include material and labor required to complete the item as specified and approved by the EIC/Architect/ Employer. It shall include dividing strips if any, treating expansion joints if any, sealing corners and edges around fittings and fixtures, etc. all completed as approved by the EIC/Architect/Employer.

**2.0 DOORS:**

* + 1. **MATERIALS:**
    2. Timber shall be of quality as specified in the BOQ and well-seasoned. When and of timber is not specified, good quality approved hard wood/imported teak shall be used.

It shall have uniform colour, be free from defects such as cracks, dead knots, soft spongy spots and waves of injurious open shakes. Grain shall be reasonably straight. The individual hard sound knots shall not be larger than 6 sq.cm. The aggregate area of all knots shall not exceed 0.5% area of a piece.

* + 1. All timber shall be kiln seasoned to IS 1141 and conform to IS 287 for moisture content. Maximum permissible limit shall be + 3% for average moisture content of all samples from a given lot and + 5% for individual sample of the given lot. This is applicable when thickness of timber is more than 50 mm. For small sizes, tolerances shall be + 2 and + 3 respectively.
    2. Timber used shall be treated with approved anti termite treatment. Woodwork in contact with masonry or concrete shall be painted with hot bitumen coal tar before being placed in position.
    3. Readymade flush shutters shall be as specified and shall comply with respective code of practice. Manufacturer’s certificate conforming that shutters supplied comply to IS shall have to be obtained and submitted to the EIC/Architects/ Employer. Also a copy of test certificate from an independent agency/laboratory shall be obtained.
    4. Shutters shall be of specified thickness. They will have laminate of 1.5 mm thickness as specified.
    5. Tolerances on width and height shall be +/-2 mm. Tolerances on thickness shall be +/-

1.2 mm. Thickness of shutter shall be uniform throughout.

* + 1. Fittings and fixtures shall be as specified in BOQ and shall comply with respective IS specifications.
    2. All nails, screws etc. shall be hot dipped galvanized or of brass or nonferrous stainless steel.
    3. Adhesive and glues shall be as per IS for exterior quality and water repellent.
    4. **WORKMANSHIP:**
    5. Timber brought at site shall be as approved by the Architect/Employer.
    6. No timber shall be painted, tarred, oiled, etc. before its inspection by the EIC. Any efforts to hide the defects by plugging, painting, etc. shall render the piece to be rejected by the EIC.
    7. All rejected timber shall be removed at once from the site of work.
    8. All sawing of timber shall be done in straight lines and planes of uniform thickness.
    9. All joints shall be tongued and grooved or of the type shown in the drawings specified in the item or as directed by the EIC. All joints shall be glued with approved adhesive.
    10. Joints shall be strong, neat and shall fit without welding or filling. They shall be pinned with hard wood or bamboo pins of 10-15 mm dia. after the members of the frame are glued and pressed together in a suitable vice mechanism.

* + 1. Prior to joining, wood members of frame shall be planed smooth and accurate to the full depth. Rebates, rounding, moldings, etc. as shown in the drawings shall be done before the members are joined.
    2. All timber items shall be subjected to inspection by the EIC prior to any treatment like primer, etc. to be carried out. No item shall be installed unless it is approved by the EIC.
    3. **DOOR FRAMES:**
    4. Size of the timber shall be as specified in BOQ/Drawings. Frames shall be rebated to house the shutter. They shall be rebated on both sides and rounded or molded etc. as per drawings. For single rebate the depth shall be 12.5 mm.
    5. Frame shall be finished smooth to receive paint/polish or any other specified finish. Surface abutting against the masonry or concrete must be with anti-termite treatment and a coat of boiling coal tar or any other approved wood preservative or primer applied prior to placing in the final position.
    6. **GLAZED PANEL SHUTTERS:**
    7. These shall be as detailed and specified in the drawing. The thickness of the styles and rails shall also be as specified in the drawing. The thickness of panels will be as specified and the type of panel also noted therein.
    8. Styles and rails of shutter shall be made out of a single piece of wood. The tenons shall pass clear through styles. The styles and rails shall have a 12 mm groove to receive panel of glass.
    9. **GLAZING:**
    10. Glazing shall be in accordance with IS 3548 code of practice for glazing in building works (doors and windows)
    11. Glass used for the works shall be float glass – clear or frosted as per the approved manufacturers.
    12. Glass shall be flat, transparent and clear when judged by the unaided eye. It may, however, possess a tint when viewed edge-wise.
    13. Glass shall be free from cracks, blisters, stones, scratches, bubbles. Glass shall not show any distortion of light when tested to IS.
    14. Thickness and tolerances on cut sizes of glass shall be as per IS.
    15. Actual cut size glass shall be measured in square meters.
    16. Irregular shaped or circular glass shall be measured as smallest rectangular area from which the irregular or circular pane can be cut.
    17. Glass panes shall be fixed by wooden beading having mitred joints. A thin layer of clear silicon sealant shall be applied between glass panes and the beading. Fixing of glass panes with simple putty and beads shall not be permitted.
    18. Mirrors shall be out of best quality Belgian or equivalent glass, silvered to give a truly plane and smooth surface which shall produce a good ‘undisturbed image’.
    19. Glass shall be well protected from any damage during transportation, storage and progress of work. Any glass, which is in the opinion of the Architect/Employer, is not suitable for the work shall be rejected and the contractor shall replace the same forthwith.
    20. The rates for various items shall include material, labor required for proper completion of the item including wastage, breakage involved in process, cutting, cost of subsidiary material required for proper fixing and functioning of glass such as nails, spirits, etc. This shall also include carriage, hoisting, scaffolding, etc.
    21. **FITTING AND FIXTURES**

* + 1. The following standard fittings and fixtures shall be included when not specified in the BOQ or the drawings for door shutters in stainless steel. Required brass CP/SS screws for fixing them in the same colour shall also be included in the pricing. Fittings and fixtures shall be as approved by the Architects/Employer. This shall also include making grooves, chases, reinforcing, etc.

**2.5.1.1 DOOR SHUTTERS TO CABINS/ROOMS IN GLASS OR TIMBER:**

* + - * 1. Mortise door handle with lock.
        2. Hinges: 4 nos. 100 x 63 x 4 mm.
        3. Rubber stopper.
        4. Concealed Door closer.

* + 1. **MEASUREMENTS AND RATES**

* + 1. Wood work and joinery shall be measured in cubic meters, square meters, running meters or any other manner as detailed in the BOQ.
    2. The price for an item shall include supply of specified quantity and type of timber, sawn, cut, joined, framed and fixed in position including supply and fixing of approved anticorrosive treated fixtures, straps, bolts, hold fasts, spikes, nails, screws, etc. supplying and applying glue, coal tar, paint and anti-termite treatment. The item shall also include scaffolding, all materials, labor, use of equipment, etc.
    3. Fittings and fixtures shall be as specified herein before if not detailed elsewhere in the drawings and BOQ.
    4. If woodwork is found to be defective due to bad workmanship, shrinkage, etc. within 1 year after completion of work, the defective woodwork shall be refixed by the contractor at his own cost to the entire satisfaction of the Architect/Employer. This includes the repairs required to the complete work as it was finished earlier.

* + 1. **THERMAL INSULATION**
    2. The Thermal insulation used shall be of approved quality heavy density expanded polyurethane or resin bonded glass wool or equivalent. The glass wool shall have a minimum density of 200 gm/sq. meter
    3. **VENEER, PLYWOOD, Laminate**
    4. The veneers, plywood used in the work shall conform to the IS 851 and IS 303 respectively. It shall be resin bonded suitable for the intended use. The contractor shall produce 1 no. 2400 x 1200 (8’-0” x 4’-0”) sample of veneer sheet for the approval of the Architect/Employer.
    5. The laminate to be used shall be as specified and shall be of approved brand. The shades and pattern shall be got approved from the Architect/Employer in case the trade name and the pattern number has not been specified in the drawings.
    6. The ‘Faux Ebony’ veneer shall be imported, and this shall be in accordance with the sample available for inspection at the site with Employer.

**2.9.0 PANELLING/Partition: -**

The framework for the panelling/partition shall be in accordance with the BOQ/detail drawings out of standard anodised aluminium approved section, etc., erecting in line and plumb in verticals and horizontals direction at max. spacing of 600mm c/c (both ways), fixing the frame with wall/floor/ceiling, etc with dash fasteners of required dia and size, providing additional member for raceway, end/start portion of the partition, use of heavy duty approved aluminium cleats, making hole/opening in panelling/partition for wiring, if required.

The plywood/laminate to be used for the panelling/partition shall be of specified type and thickness as mentioned in BOQ and relevant drawing. The rate quoted shall be also being conclusive of providing grooves, etc. as indicated in the drawings.

* + 1. **GYPSUM BOARD CEILING**

Description: Gypsum board ceiling system consisting of a range of metal component supporting one or two layers of 12.5 mm Gypboard screws fixed to the underside of suspended grid. Tapered edge board used, are then taped and filled to give a smooth, seamless ceiling which can receive most forms of decoration.

a) Intermediate channel 1200 mc/c(max.)

b) M/F Ceiling Section 450 mm c/c (max.)

c) Ceiling angle hanger 1200 mm c/c (Max.)

d) Perimeter channel along the wall all around the perimeter side of ceiling

e) Expansion rawl plug type ½ “

* + 1. Installation: Framing, perimeter channels are levelled at the required position above the finished ceiling line and fixed to the wall at 450 mm centers. The remaining metal components are installed to form a regular grid suspended from soffit cleats by ceiling angle at 1200 mm centers connected to the intermediate channels are set 1200 mm apart. M/F ceiling sections are fixed at 450 mm centers at right angles to the underside of intermediate channels using connecting clips.
    2. The Gypboard membrane comprising one layer are fixed with bound edges at right angles to ceiling section with all joints staggered. Gypboard layers are screwed to the M/F ceiling section and perimeter channels at board ends with Gypboard drywall screws with joints staggered. Jointing the screws, taping, POP, etc. are to be carried out according to the recommendation of India Gypsum.
    3. Suspension: Fixing points for suspending the metal grid are required at 1200 mm centers in each direction. When the ceiling is intended to provide fire protection, the fixing to the structure must be non-combustible.

* + 1. Imposed Loads: The table provides loading data for the suspension grid based on a limiting deflection factor of L/400

|  |  |  |
| --- | --- | --- |
| **Suspension grid layout \***  **Suspension point centers**  **(mm)** | **Intermediate channel**  **Centers (mm)** | **Maximum load including Weight of board (kg/Sq. m.)** |
| 1200 | 1200 | 30 |
| 1200 | 915 | 40 |
| 1200 | 610 | 60 |
| \* Ceiling sections are always spaced at 450 mm centers, | | |

* + 1. **Fixing:**

Fixing to the system should always be made into the metal grid to supplementary framing as may be necessary fixing or attachments should not be made into the membrane. Some adjustments of the primary grid may be required to support particularly heavy loads, where loads outside this range are anticipated, independent suspension should be provided from the structure.

* + 1. **Fittings and access panels**:

Where light fittings, access panels and similar components are incorporated as part of the design requirements, consideration must be given to maintain the integrity of the ceiling when fire resistance and sound insulation are also important factors.

* + 1. **Materials**

|  |  |  |
| --- | --- | --- |
| **Components** | **Dimensions (mm)** | **Applications** |
| Ceiling Section (with tapered flanges) | 80mm x 26mm  0.5mm(thk) | Main supporting section to fix Gypboard |
| Perimeter channel | 20mm x 27mm  30mm x 0.5mm(thk) | Fixed round the perimeter to receive end of ceiling section the outer edges to Gypboard. |
| Intermediate channel | 15mm x 45mm  0.9mm (thk) | Used on intermediate support to ceiling section. |
| Ceiling angle  Connecting to Clip | 25mm x 10mm x 0.50mm (thk) | Used as a hanger bracket from the  structural soffit. Used to connect ceiling angle to intermediate channels. |
| Soffit angle cleat | 27mm x 37mm x 1.6mm (thk) x 25mm | To provide a suspension point to the structural soffit. |

* + 1. For light fittings, grills, diffusers and cut-outs etc. have to be made with the frame of perimeter channels of size 20 mm x 27 mm x 30 mm x 0.55 mm thick, supported suitably and should be considered and included in the rate of false ceiling.
    2. The framework items are to be made of special sections, power pressed from m.s. sheets and galvanised with zinc coating of 120gm/sqm (both sides).
    3. Materials of approved make only are to be used.

**2.11.0 Grid False Ceiling with Silhouette Profile Grid: -**

2.11.1 Providing and fixing mineral fibre tile having premium sand textured finish, 99% humidity resistance, having size of 600x600x16mm, weight 3.9kg/Sq. m (DUNE-ML-RH-99 by Armstrong or Equivalent), tegular/ reveal edge, colour white, Noise Reduction Coefficient (N.R.C.) 0.50, Ceiling attenuation class (C.A.C) 33dB.

2.11.2 **SUSPENSION SYSTEM**:- As per manufacturer's specifications consisting of M6 Anchor Fasteners with angle cleats of size 26 x 26 x 25 x 1.2mm with a Galvanised coat of 80gsm, a pre Straightened Hanger wire of dia – 2.5 mm of 1.8 m length with zinc coating of 80gsm and a tensile strength of 344-413 MPa, along with adjustable hook clips of 0.8mm thick, galvanised spring steel for 2.68 mm with a minimum pull strength of 110 kg. The adjustable clip also consists of a 3.5 mm aquiline wire to be used with the main runner

**2.11.3 Jobsite Conditions**

Before Armstrong ceiling materials are installed, the units (ceiling panels or tile) should be permitted to reach room temperature and have stabilized moisture content. They should not, however, be installed in spaces where the temperature or humidity conditions vary greatly from the temperatures and conditions that will be normal in the occupied space. It is not good to locate acoustical ceiling tile or panels on low wall or ceiling surfaces where they might be damaged. Dirty air can soil any ceiling, make sure the building interior is free of construction dust.

## 2.12.0 **PAINTING AND POLISHING**

**2.12.1** Materials: Paints used in the works shall conform to the respective IS code of practices: These shall be the latest revised.

Paints shall be factory made and no site preparation shall be allowed except for the whitewash. Paints received at the site shall be in manufacturer’s sealed drum.

**2.12.2** Paints should be such as to withstand weathering effects of the atmosphere, decay of wood, corrosion of metal and of pleasing appearance. Also their surface should become hygienic, clean and attractive.

* + 1. Paints shall conform to the following points:

1. Good spreading coverage.
2. Easy application.
3. Should form a thin uniform film on application.
4. Surface should not crack when paint dries.
5. Should be inert to weathering actions of atmosphere.
6. Final surface should be hard and durable.

**2.12.4** The manufacturer and shades of paint used at the work site shall be to the approval of the Architects/Employer.

**2.12.5** Workmanship: the work shall be carried out as specified in IS 2395 Part I and Part II schedule of painting system to be as per table of IS 2395 Part II.

**2.12.6 Surface preparation**:

1. Surface shall be cleaned and any existing fungus or mould shall be removed. A coat of fungicidal wash shall then be applied and allowed to dry if necessary.
2. Any cracks, defects in the plaster of Paris surface shall be cut out made good, cured and allowed to dry. Minor cracks may be filled with suitable filler.
3. Lime mortar plaster shall be left unpainted for the first few months to allow plaster to carbonate, harden and dry thoroughly.
4. In case of gypsum plaster it shall be ensured that the surface is either alkaline or

neutral and tested in accordance with E-1 as specified in IS 2395 Part I.

**2.12.7** All paints and products shall be from one manufacturer only. The steps for painting operation to be followed as under :

1. Primer/sealer – coat as recommended by paint manufacturer.
2. Filler/Putty as many layer as required and approved of
3. Undercoats.
4. Finishing coat or coats.

**2.12.8** Paints to be applied shall be spread uniformly over the entire area. Paints shall be mixed and stirred thoroughly prior to use. No addition of thinner or water shall be permitted other than the quantity specified by the manufacturers.

**2.12.9** Paint may be sprayed or applied with brush depending upon type of paint used.

**2.12.10** Finishing shall be to the satisfaction of the Architect/EIC/Employer.

**2.12.11** Sufficient time shall be allowed between two coats to ensure that the earlier coat is fully dry prior to the application of the successive coat.

**2.12.12** Application of paint shall be carried out in properly ventilated and dry weather for painting of interiors.

**2.12.13** Application of one coat in one room shall be finished in one operation.

**2.12.14** Filler shall be plaster of Paris or as approved by the Architects/EIC/Employer.

**2.12.15** Brushing of paints in coats shall be in a direction that is at right angles to the previous one. No brush mark must be visible. The final coat shall be finished with a roller sponge.

**2.12.16** Painting shall be measured in square meters.

**2.12.17** The number of finished coats specified in the BOQ are the minimum require and for guideline only. The finish surface shall be the acceptance and approval of Architects/EIC/Employer. Any additional coats required to achieve this shall be to the account of the Contractor and no extra charges shall be payable for any additional coat applied.

## 2.13.0 **PAINTING/POLISHING OF WOOD WORK**

**2.13.1** Work shall be carried out to specifications IS 2338 Part I and Part II. The system shall be installed as per the schedule for finishing and shall be as per table of IS 2338 Part II.

### 2.13.2 Surface Preparation

1. Wood to be painted shall be seasoned and free from discoloured sap wood and from large resinous or loose knots.
2. Nail shall be punched well below the surface to provide a firm key for stopping.
3. Mouldings, sills shall be carefully smoothened with abrasive paper and the fibers left after machining shall be cleaned and removed.
4. Flat portions shall be smoothened.
5. Any knot, resinous streaks or bluish sapwood shall be treated with two coats of shellac knotting, applied thinly and extended to about 25 mm beyond the actual are requiring treatment.

### 2.13.3 Priming

1. Dirt or any other extraneous material shall be removed. A priming coat shall be applied to the bare wood.
2. All exposed surfaces of the wood shall be primed.
3. Unless specified otherwise, all joinery work which is intended to be painted shall receive at least two priming coats.

### 2.13.4 Stopping and filling

1. Stopping and filling shall be carried out only after priming. Filler material shall conform to IS and shall be approved by the Architect/Employer.
2. Filler of stiff paste shall be applied with putty knife to fill holes and cracks and subsequently rubbed down to a level surface with abrasive paper, pumice stone or other suitable abrasive material.
3. The filler coat shall be of an optimum thickness and shall be allowed to fullyhardened and flatten before the subsequent coat is applied. As many layers as necessary shall be applied allowing sufficient time between the coats to harden and flatten.

**2.13.5 Undercoats:**

1. The undercoat shall be applied after the surface has been primed, stopped, filled and rubbed down to a smooth surface.
2. The undercoat may be brushed or sprayed.
3. After drying the coat shall be carefully rubbed down and wiped clean before the next coat is applied.

**2.13.6** Finishing: The application of finishing paint varies according to the type of paint employed. Cleanliness is essential and as far as possible the application shall be carried out in a normal dry condition. The finishing coat may be applied either with brush or may be sprayed.

**2.13.7** Measurement shall be to the actual surface area and in square meters.

**2.13.8** Clear finishes for wood surfaces: Clear finishes shall be applied to wood and wood- based interior surfaces. They shall be carried out to IS 2338 Part I. The procedure of application shall be as detailed hereafter.

### 2.13.9 Filling

1. Filler conforming to IS 345 shall be used to level off, to make smooth, to prevent the excessive penetration of the finish and to fill the open cells.
2. For special stain effects colour fillers shall be used.
3. On the fine textured woods having minute pores that do not require filling, thin varnishes, lacquer or shellac may be used.
4. Filler or stain filler shall be applied by hand using hessian or jute rag across the grain. The filled surfaces shall be dried preferably overnight and smoothened with abrasive paper.

### 2.13.10 Staining

1. Staining of wood shall be restored to create special effects for subsequent clear finishes.
2. Stains used shall be water based, spirit based or oil based as approved by the Architects/EIC/Employer according to the purpose and location.
3. Surfaces shall be kept scrupulously clean and free from greasy finger marks.
4. Small cracks or nail holes shall be stopped with fine plaster of Paris or suitable stopping.
5. Stains may be applied by brushing and wiping or spraying. Application shall be liberal but without over-staining that may spoil the stained surface.

**2.13.11 Sealing**:

A suitable seal shall be applied on the filled and sanded surface to prevent absorption by the wood of successive coats of finish and to seal stain and filler and thus preclude their bleeding into the finished coat. When fully dry, the surface shall be sanded taking care not to cut through at corners and edges. Dust shall be blown off and the surface wiped with a clean rag.

**2.13.12 French Polish: -**

1. Work shall be carried out to IS 2338 Part I and Part II.
2. Pure shellac varying pale orange to lemon yellow colour, free from resin or dirtshall be dissolved in methylated spirit at the ratio of 0.15 kg of shellac perliter of spirit. Suitable pigment should be added to get the required colour.
3. All unevenness should be rubbed down to smoothness with sand paper and thus surface shall be well dusted. The pores in wood shall be filled up with filler made of paste of whiting dissolved in water or methylated spirit. Otherwise the French polish will get absorbed and a good gloss will be difficult to obtain.
4. A pad of woolen cloth covered by a fine cloth should be used to apply the polish.The pad shall be moistened with polish and rub hard on the surface in a series of overlapping circles so that the polish is applied uniformly over the entire area to give it an uneven surface. The surface shall be allowed to dry and the remaining coats applied in the same day.
5. To finish off, the pad shall be covered with a fresh piece of clean cloth, slightly damped with methylated spirit and rubbed lightly and quickly with clear motions. The finished surface shall have a uniform texture and high gloss/matt finish as per specifications.
6. Measurements shall be in square meters.

**2.13.13 Protection**: All metal fittings and fixing shall be removed before preparatory process are commenced and shall be re-fixed on completion of the painting/ polishing. All finished work including glass, shall be adequately protected from paint splashes. No paint or other material shall be stored in direct contact with finished floor surface and no mixing shall be carried out on finished floor surface. Provide all necessary pans, trays on which to store and prepare materials. Provide all necessary protective covers for the protection of surrounding surfaces.

### 2.16.0 UPVC Pipe

Providing and fixing UPVC soil / vent / waste SWR pipe of 110 mm diameter confirming to IS: 13592: 1992 and IS: 4985: 2000 to withstand continuous internal hydraulic pressure of 4kg/cm² including necessary fixtures and fittings, such as bends, tees, single junctions, double junctions and jointing with rubber rings and

Note:

Pipes shall be supported on MS clamps and shall be away from wall surface by 50 mm.

**ELECTRICAL MATERIAL SPECIFICATION, INSTALLATION AND TESTING**

1. **ELECTRICAL INSTALLATION:**

The installations shall generally be carried out in conformity with the requirements of Indian Electricity Act, 1910 as amended up to date and Indian Electricity Rules, 1956 framed there under, the relevant regulations of the Electric Supply Authority concerned and also with the specifications laid down in the Indian Standard IS: 732/1963 "Code of Practice (Revised) for Electrical Wiring Installations (System Voltage not exceeding 650V)". The work shall be executed as per National Electrical Code and if any item is not covered there under or there is any doubt, the specification approved by the Engineer-in-charge will be final and binding.

The installation has to be carried out by an agency holding a valid license issued by the Local Government for carrying out installation work of the voltage classes involved under the direct supervision of persons holding valid certificate of competency issued by the State Government. The Tenderer shall furnish the particulars of the license held by him for carrying out the installation work along with particulars of certificates of competency held by his supervisory staff.

The Tenderer shall visit the premises and ascertain site conditions, existing structures / ceiling and other obstructions if any, and suitably allow for these exigencies in his offer. No extra claims will be admissible later on these grounds.

**1. LIGHT FIXTURES & FANS**

1.0 Scope

1.1 The scope of work shall cover the supply, installation and testing of LED light   fixtures and wall bracket fans.

2.0 Standards

2.1 The following standards and rules shall be applicable:

i) IS 3646-1968 Code of practice for interior illumination.

ii) IS 1913-1969 General and safety requirements for electric lighting fittings.

iii) Indian Electricity Act and Rules issued thereunder.

2.2 All codes and standards mean the latest. Where not specified otherwise the installation shall generally follow the Indian standard codes of practice or the relevant British standard codes of practice absence of Indian Standard.

3.0 General Requirements

3.1 All fixtures shall be complete with accessories and fixing necessary for  installation whether so detailed under fixture description or not.

3.2 Fixture housing , frame or canopy shall provide a suitable cover for  the fixture outlet box or fixture opening.

3.3 Fixtures shall be installed at mounting heights as detailed on the drawings or instructed on site by the R.B.I. Engineer.

3.4 Fixtures and / or fixture outlet boxes shall be provided with hangers supporting conduit to adequately support the complete weight of the fixture. Design of hangers and method of fastening other than shown on the drawings or herein specified shall be submitted to the R.B.I. Engineer for approval.

3.5 Pendant fixtures within the same room or area shall be installed plumb and at a uniform height from the finished floor. Adjustment of height shall be made during installation as per Drawings.

3.6 Flush mounted and recessed fixtures shall be installed so as to completely eliminate light leakage within the fixture and between the fixture and adjacent finished surface.

3.7 Fixture mounted on outlet boxes shall be tightly secured to a fixture stud in the outlet box. Extension pieces shall be installed where required to facilitate proper installation.

3.8 Fixture shall be completely wired and constructed to company with the regulations and standards for Electric Lighting Fixtures , unless otherwise specified. Fixtures shall bear manufacture’s name and the factory inspection unless otherwise approved.

3.9 Wiring within the fixture and for connection to the branch circuit wiring shall be not less than 1.5 sq. mm copper for 250 volt application. Wire installation shall suit the temperature conditions inside the fixture and wires bypassing the choke shall be heat protected with a heat resistant sleeve. Suitable 6/16A PVC insulated terminals shall be provided for looping purpose.

3.10 Metal used in lighting fixtures shall be not less than 22 SWG or heavier if so required to comply with the specification or standards. Sheet steel reflectors shall have a thickness of not less than 20 SWG. The metal parts of the fixtures shall be completely free from burrs and tool marks. Solder shall not be used as mechanical fastening device for any part of fixture.

3.11 Ferrous metal shall be given a corrosion resistant phosphate treatment or other approved rust inhibiting prime coat to provide a rust proof base before application of finish.

3.12 Non - reflecting surfaces such as fixture frames and trim shall be finished in baked enamel paint.

3.13 Light reflecting surface shall be finished in baked white enamel having a reflection factor of not less than 80 %. All parts of reflector shall be completely covered by finish and free from irregularities. After finish has been applied and cured, it shall be capable of withstanding a 6 mm radius bend without showing sign of cracking , peeling or loosening from the base metal. Finish shall be capable of withstanding 72 hours exposure to an ultraviolet sun lamp placed 10 cm from the surface without discoloration , hardening or warping and obtain the same reflection factor after exposure. Test result shall be furnished for each lot of fixtures.

3.14 Fixture with visible frames shall have concealed hinged and catches. Pendant fixtures and lamp holders shall be provided with ball type aligners or similar approved means. Recessed fixtures shall be constructed so as to fit into an acoustic tile ceiling or plaster ceiling without distorting either the fixture or the ceiling plaster rings / flanges shall be provided for plaster ceiling. Fixture with hinged diffuser doors shall be provided with spring clips or other retaining device prevent the diffuser from moving.

3.15 Detailed catalogue cuts for all fixtures, or if so requested by the R.B.I. Engineer sample fixtures shall be submitted for approval to the Architect Consultant before orders for the fixtures are placed. Shop drawings for non-standard fixture type shall be submitted for approval to the Architect / Consultant.

3.16 Recessed fixtures shall be constructed so that all components are replaceable without removing housing from the ceiling.

i) Lamps shall be supplied and installed in all lighting fixtures.

ii) Lamps used for temporary lighting service shall not be used in the final lamping of fixtures units.

iii) Lamps types & wattage as shown on the drawing and schedule.

iv) Lamps for permanent installation shall not be placed in the fixtures until so directed by the R.B.I. Engineer, and this shall be accomplished directly before the building portions are ready for occupation.

4.0 LED fittings

4.1 Only single and / or two lamp ballasts shall be used in any one fixture. Ballasts shall be completely enclosed inside sheet casing and shall have a corrosion-resistant finish. Ballast shall contain a thermosetting type compound not subject to softening or liquefying under any operating conditions or upon ballast failure. Compound shall not support combustion. All ballasts shall be of high power factor compensated to above 0.9 PF. Ballast temperature and sound rating shall be specified by the manufacturer and guaranteed. Ballasts shall be for operation at the voltages and frequencies indicated and under temperature conditions prevailing in the various locations of the premises. Tapped ballasts are preferred.

4.2 All LED fixtures shall be provided with separate wiring channel with cover plate and an earth terminal. All screws shall be chromium brass screws. Lamps and starter holders shall be out of tough molded plastic with spring loaded rotor type contractors rendered shock and vibration proof. Condensers shall be low loss paper impregnated hermetically sealed complying with IS 1969. Internal shall be neatly clipped and where by passing the ballast, a suitable heat resistant barrier or sleeve shall be provided.

4.3 Surface mounted fixtures longer than two feet need additional point of support besides the outlet box fixture stud when installed individually. Pendant individually mounted fixtures four feet long and smaller shall be provided with twin stem / conduit hangers. Stems shall have ball aligners or similar devices and provided for a minimum of 25 mm vertical adjustment. Stems shall be of appropriate length to suspend fixtures at required mounting height.

* 1. Lamps shall have Bl - pin bases.

4.5 Test Reports: -The below mentioned test reports of LEDs shall be provided.

* 1. LM79 Report:- Should be from NABL approved laboratory. This report shall be provided with the following results.
     1. Total Luminous Flux-
     2. Luminous Intensity distribution-
     3. Electrical power characteristics-
     4. Luminous Efficiency (calculated)-
     5. Colour Characteristics (CRI,CCT..)-
  2. LM80 Reports:-
  3. Workmanship: Good workmanship and neat appearance are the pre-requisites for compliance with the various sections of these specifications. The work shall carried out under direct supervision of a person holding certificate of competency issued by the State Govt. and in accordance with the statutory rules and regulations in force. The relevant ISI code of practice shall be followed wherever applicable.

5. Additional Specifications:

a) Any damage to walls, floors, etc during installation and erection must be repaired by the Contractor to match the original surface for which no extra amount will be paid.

b) For conduits all the junction boxes etc. should be of inspection type and there must be electrical continuity throughout the length.

c) Approved materials and fittings shall only be used. The Contractor shall replace the unapproved materials and fittings at his own cost.

d) Intending tenderers are advised to study all the drawings, specifications, conditions etc in detail and inspect the site before submitting tenders so as to ascertain the nature and scope of the work involved and the methods to be adopted for executing the work.

e) The rate quoted shall include cost of cutting holes and chase in walls floor slabs, repairing the same and restoration of original surface. Nothing extra shall be entertained on this account.

f) The Contractor will also be required to submit the ‘Form of Completion Certificate’ in the required proforma.

**6. CONDUIT WIRING**

a. Scope

b. The scope of work shall cover supply, installation, testing and commissioning of all conduit wiring.

6.2 Standards

6.2.1 The following standards and rules shall be applicable.

i) IS: 732 Code of Practice for Electrical wiring installation (System voltage not exceeding 650V)

ii) IS: 1646 Code of Practice for fire safety of buildings (General) Electrical Installation.

iii) IS: 3480 Flexible steel conduits for electrical wiring.

iv) IS: 3837 Accessories for rigid steel conduit for electrical wiring.

v) IS: 694 PVC insulated cables.

vi) IS: 6946 Flexible (Pliable) non-metallic conduits for electrical installation.

vii) IS: 1293 3 Pin plugs and sockets.

viii) IS: 8130 Conductors for insulated electric cables and flexible cord.

ix) IS: 9537 Specification for conduits for Electrical installation.

x) Indian Electricity Act 1910 and rules issued thereunder.

xi) Regulations for the electrical equipment in buildings issued by the Tariff Advisory Committee of the Insurance Association of India.

6.2.2 All standards and codes mean the latest.

6.3.0 Rigid and Flexible conduits – As Specified

6.3.1 Conduits can be

i) Mild steel : black enameled

ii) Mild steel : galvanized

iii) Rigid PVC as specified and required by the schedule of work. Wall thickness in each case shall be as follow:

STEEL Black enameled Galvanized PVC Minimum wall thickness

(a) Up to 32 mm Dia 1.4 to 1.8 Up to 25 2.1 mm

(b) Over 32 mm Dia 1.6 to 2.2 32 & over 2.8 mm

6.3.2 PVC conduits shall be used only where ever specified.

6.3.3 Flexible conduits shall be formed from a continuous length of spirally would interlocked strip steel with a fused zinc coating on both sides. The conduit shall be terminated in brass or PVC adaptors. PVC flexible shall not be used.

6.4.0 Accessories

6.4.1 Conduit fittings such as bends, elbows, reducers, chase nipples, split couplings, plugs, etc. shall be heavy duty specifically designed and manufactured or their particular application and in accordance with relevant I.S.S. Wherever galvanized conduits are specified in the schedule of work , the fittings also shall be galvanized ;

6.5.0 Wires

6.5.1 All wires shall be single core multi - strand copper FRLS insulated to IS : 694 and shall be 110 V grade as specified and required in the Schedule of work.

6.5.2 All wires shall be colour-coded as follows:

Phase Colour of wire

R Red

Y Yellow

B Blue

N Black

Earth Green (insulated)

Control (If any) Grey

6.6.0 Switches & Sockets

6.6.1 Switches shall be moulded type of modular design with silver-plated contacts. Sockets shall be 3 pin & earth with switch & plate type. All switch mounting shall be16 SWG galvanized steel or PVC specially made as specified for the switches and sockets used. Combination of multiple switch units and sockets should be used in appropriate manner to minimize the switch boxes.

6.6.2 Whether and waterproof switches/sockets shall be used in all outdoor location.

6.6.3 For heavy duty, metal clad sockets with M.C.B. isolator mounted in a galvanized steel box shall be provided.

7.0 Installation

7.1 The size of conduit shall be selected in accordance with the number of wires permitted under table given below. The minimum size of the conduit shall be 20 mm Dia unless otherwise indicated or approved. Size of wire shall be not less than 1.5 sq.mm Copper or 2.5 sq.mm Aluminum, but as specified in the schedule of work.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | 20 mm | | 25 mm | | 32 mm | | 38 mm | |
| Nominal Dia of Wires (mm) | Cross sec.Area (sq.mm) | S | B | S | B | S | B | S | B |
| 1/2.40 | 1.50 | 4 | 3 | 8 | 6 | 15 | 9 | - | - |
| 1/2.80 | 2.50 | 4 | 2 | 6 | 4 | 10 | 8 | - | - |
| 1/2.24 | 4.00 | 2 | 2 | 4 | 3 | 8 | 6 | - | - |
| 1/2.80 | 6.00 | 1 | - | 4 | 3 | 6 | 6 | - | - |
| 1/3.55 | 10.00 | 1 | - | 3 | 2 | 5 | 4 | 6 | 5 |

S-runs of conduits which have distance not exceeding 4.25m between draw boxes & which do not deflect from the straight by an angle more than 15 degree.

B-runs of conduits which deflect from the straight by more than15 degree.

7.2 Conduits shall be kept at a minimum of 100mm from the pipes of other non-electrical services.

7.3 Separate conduits/raceways shall be used for each of the following as specified:

a) Normal outlets - 15 A 3-pin sockets on lighting circuit.

b) Power outlets - 15 A 3-pin 20 A/30 A 2-pin + scraping earth metal clad sockets.

c) Emergency lighting.

d) Telephone

e) Data Cables

f) Fire alarm system

g) Public address system &

h) Call bell wiring.

7.4 Conduit layout shall be generally as indicated on drawings and the layout shall be supplemented and complemented by Contractor on site with the approval of the Engineer. Wiring for short extensions to outlets in hung ceiling or to vibrating equipment, motor, etc., shall be installed in flexible conduits. Otherwise rigid conduits shall be used. No flexible extension shall exceed 1.25 m.

7.5 Conduits run on surfaces shall be supported on metal 6 mm thick saddles which in turn are properly screwed to the wall or ceiling. Saddles shall be at intervals of not more than 500 mm. Fixing screws shall be with round or cheese head and of rust-proof materials. Exposed conduits shall be neatly run parallel or at right angles to the walls of the building. Unseemly conduit bends and offsets hall be avoided by using fabricated mild steel junction / pull through boxes for better appearance. No crossover of conduits shall be allowed unless it is necessary and entire conduit installation shall be clean and neat in appearance.

7.6 Conduits embedded into the walls shall be fixed by means of staples at not more than 500 mm intervals. Chases in the walls shall be neatly made and refilled after laying the conduit and brought to the finish of the wall but final finish will be done by the building Contractor / client.

7.7 Conduits buried in concrete structure shall be put in position and securely fastened to the reinforcement and got approved by the Engineer, before the concrete is poured. Proper care shall be taken to ensure that the conduits are neither dislocated nor chocked at the time of pouring the concrete.

Suitable galvanized steel fish wires of not less than 0.63 mm dia shall be drawn in all conduits before they are embedded. Where conduit passes through expansion joints in the building, adequate expansion fittings shall be used to take care of any relative movement.

7.8 Inspection boxes shall be provided for periodical inspection to facilitate with drawl and removal of wires. Such inspection boxes shall be flush with the wall or ceiling in the case of concealed conduits. Inspection boxes shall be spaced at not more than 12 meters apart or two 90 degree solid bends or equal. All junction and switch boxes shall be covered by 6 mm clear Perspex plate truly cut and fixed with cadmium plated brass screws. These junction boxes shall form part of point wiring or conduit wiring as the case may be including the cost of removing the Perspex cover for painting and re-fixing.

7.9 Conduits shall be free from sharp edges and burrs as and the threading free from grease or oil. Conduit ends shall be threaded to a minimum length of 15 mm so as to provide sufficient length of thread for proper grip and continuity.

7.10 An insulated earth wire of not less than 2.5 sq.mm Aluminium or Copper shall be run in each conduit as specified in the Schedule of work.

8.0 Lighting & Power Wiring

8.1 All final branch circuits for lighting and appliances shall be single conductor cables run inside conduits. The conduit shall be properly threaded and screwed into sockets, bends and junction boxes. No part of the wiring shall be open without a suitable conduit piping.

8.2 Branch circuit conductor sizes shall be as shown in the schedule of quantities and or drawings.

8.3 Final branch circuits shall preferably be kept in a separate conduit up to the Distribution Board. No other wiring shall be bunched in the same conduit except those belonging to the same phase. Each lighting branch circuit shall not have more than ten outlets or 800 watts, whichever is lower or as shown on drawings. Each conduit shall not hold more than three branch circuits.

8.4 Flexible cords for connection to appliance, fans and pendants shall be 660/1000V grade (three or four cores i.e. with insulated neutral wire of same size) with tinned stranded copper wires, insulated, twisted and sheathed with strengthening cord. Colour of sheath shall be subject to the Engineer’s approval.

8.5 Looping system of wiring shall be used. Wires shall not be joined. Where joints are unavoidable, they shall be made through approved mechanical connectors. No such joints shall be made unless the length of the sub-circuit, sub main or main is more than the length of the stranded coil.

8.6 Control switches shall be connected in the phase conductors only and shall be`ON` when knob is down. Switches shall be fixed in 2mm thick galvanized steel boxes with cover plates as specified. Cadmium plated brass screws shall be used.

8.7 Power wiring shall be distinctly separate from lighting wiring. Conduits not less than 25 mm and wires not less than 2.5 sq. mm Aluminium / Copper shall be used as specified in the Schedule of work.

8.8 Every conductor shall be provided with identification ferrules at both ends matching the drawings.

9.0 Testing

9.1 The entire installation shall be tested for:

a) Insulation resistance

i) Between phases.

ii) Between each phase and earth.

b) Earth continuity

c) Polarity of single pole switches.

No installation shall be commissioned unless and until the insulation resistance is 2.0 Mega ohms or less between phase and neutral. All tests shall be witnessed by the Engineer-in-charge and attested.

A test certified shall be submitted as per IS 732.

**10. M.V. SWITCHGEAR**

10.1.0 Scope

10.1.1 The scope of work shall cover the supply, installation, testing and commissioning of all power panels, incorporating circuit breakers, switch fuses, bus bars, interconnections, earthing, etc., meeting the requirements shown in equipment schedule and the drawings.

10.2.0 Standards

10.2.1 The following standards and rules shall be applicable:

i) IS: 2516-1972 Specification for AC circuit breakers.

ii) IS: 4047-1977 Specification for heavy duty air breaker switch gear& fuses for voltage not exceeding 1000V.

iii) IS: 1818-1972 Specification for AC isolator and earthing switches.

iv) IS: 3072-1975 Code of Practice for installation and maintenance of switch gear.

v) IS: 3106-1966 Code of Practice for selection, installation and maintenance of fuses (Voltage not exceeding 650 V)

vi) IS: 4237-1967 General requirements for switch gear and control fear for voltage not exceeding 1000V.

vii) IS: 2607-1976 Air break isolators for Voltages not exceeding 1000V.

viii) IS: 8623-1977 Specification for factory built assembles of switch gear and control gear for voltages up to and including 1000V AC & 1200 VDC.

ix) Indian Electricity Act and Rules.

All codes and standards mean the latest. Where not specified otherwise the installation shall generally follow the Indian Standard Codes of Practice or the relevant British Standard Codes of Practice in the absence of corresponding Indian Standards.

10.3.0 Circuit Breakers

10.3.1 Circuit breakers shall be air break horizontal draw out type fully interlocked and meeting the requirements of IS:2516 or BS:3659. Breakers shall not be rated for a medium voltage of 600 V and rated full load current as indicated on drawings. Breaker shall be capable of making and breaking system short circuits specified.

10.3.2 Breakers shall be unless specified otherwise manually operated, complete with front-of-the panel operating handle, isolating plug with safety shutters, mechanical ON/OFF indicator, silver plated arching and main contacts, are chutes, trip free operation. Breakers shall be capable of being racked out into`testing`, `Isolator` and `Maintenance` positions and kept locked in any position. Breakers for operation shall be motor operated spring charged.

10.4.0 MCCBs

10.4.1 Moulded cases circuit breakers shall be standard products of established manufacturers and shall conform to BS: 3871. Breakers shall be rated for system short circuit levels and if unavoidable, backed up by HRC fuses. Breakers shall incorporate thermal and magnetic Trips unless shown otherwise in the drawings.

10.5.0 Switch fuse units & Disconnects

10.5.1 Switch fuse units shall have quick-make, quick-break silver plated preferably double break contacts with operating mechanism suitable for rotary operation in the case of cubicle mounting. All switches shall be rated according to the equipment schedule or drawings and shall withstand the system prospective fault current let through. Cam operated rotary switches with adequate terminal adapters up to 25A are acceptable but for all higher rating switch fuse units shall be heavy duty type conforming to IS 4047.

10.5.2 Fuse shall be HRC cartridge type conforming to IS:2208 with a breaking capacity corresponding to system fault level Fuses shall be link type with visible indication. Screw type Bottle fuses are not acceptable for any rating.

10.5.3 All disconnects shall consist of switch units quick-make, quick-break type with silver plated contacts. The switches shall preferably have double breaks. The switches shall preferably have sheet steel enclosure, which in turn is mounted on angle iron frame work. In wet locations, switches shall have cast iron enclosures. Disconnects shall have a minimum breaking capacity of 5 KA at 415 Volts.

10.6.0 Instrument Transformers, Meters and Relays

10.6.1 Ammeters and voltmeters shall have moving iron spring controlled dead–beat elements in square bezel flush type cases 96 mm in size and suitable for switch board mounting. Meters shall conform to BS:89 and have grade `A` accuracy. Scale ranges shall meet with the requirements or as indicated on the drawing or in the schedule of quantities.

10.6.2 Energy meter shall be two element switch board mounting type suitable for unbalanced loads. Meters should incorporate a KVA demand meter with an integration time of 30 minutes. Meters shall conform to BS:37. The energy meters for DG Set and transformer shall be calibrated and got certified by the respective electricity authority.

10.7.0 Cubical Boards

10.7.1 All boards shall be combination of 14 & 16 SWG sheet steel, free standing ,extensible, totally enclosed, dust tight, vermin-proof cubicle, flush dead front and modular construction suitable for 3 phase 415V 4 wire 50 Hertz system. All boards shall be accessible from the front for the maintenance of switch fuses, bus bars, cable terminations, meters, etc. Cables shall be capable of entering the board both from top as well as bottom. All panels shall be machine pressed with punched opening for meters, etc. All sheet steel shall be rust inhibited through a process of degreasing acid pickling, phosphating, etc. The panels shall be finished two coats of synthetic enamel of approved colour applied over one coat of red oxide primer. Engraved plastic lables shall be provided indicating the feeder details, and capacity and danger signs.

10.7.2 The boards shall accommodate air insulated bus bars, air circuit breakers, switch fuse units with HRC fuses, starters, necessary meters, relays contractors, etc. as required and arranged in suitable tiers. All breakers and switch fuse sshall be suitably dated taking into account specified ambient temperature and ruling temperature inside the cubicle.

10.7.3 The switch board shall be fully compartmentalized in vertical tiers housing the feeders witches in totally enclosed independent compartments. Each compartment shall be self-sufficient with switch unit, fused, contractors, relays, indicating lamps and an inter-locked door with facility for padlocking. Each feeder must terminate in an independent labeled terminal block. Strip type terminal block accommodating several feeders together is not acceptable. Pressure clamp type terminals suitable for Aluminium wires may be used up to switches of 25A and cable lugs for higher ratings. All terminations shall be shrouded in an approved manner. The entire enclosure shall meet with IS: 2147-1962. Feeder connections shall be UT of solid insulated Copper/ Aluminum wires or strips with bimetallic clamps wherever required. Internal wiring, bus bar markings etc., shall confirm to IS: 375 / 1963. Internal wiring shall have terminal ferrules.

Main switch should be at an easily accessible height and the highest switch operating handle should not be over 1.75m from floor level. Cable glands need not form part of the switch board as the cost of glands will form part of the cable termination.

10.8.0 Bus bars

10.8.1 Bus bars shall be three phase and neutral and of copper or Aluminum alloy as specified and shown on drawings and rated for a temperature rise of 30 deg. Cover the ambient temperature specified, based on insulated conductor rating (IS: 8084-1976). Neutral bars may be of one half the size of the phase bars. The main horizontal bus bars shall be of uniform cross section and rated in accord with the incoming switch. The vertical bus bars for the feeder columns may be rated at 75% of aggregate feeder capacity and shall of be uniform size. Bus bars and interconnections shall be taped with PVC colour coded tape to prevent bar-to-bar accidental shorts. Each bus bar shall be directly and easily accessible on removal of the front cover. Bus bars shall be totally enclosed, shrouded and supported on non-hygroscopes insulator blocks to withstand thermal and dynamic over loads during system short circuits. An earth bus of size 50% of the phase subject to the following maximum and minimum shall be provided. Individual switch components shall be connected with the earth bus through Copper or Aluminum or galvanized steel strip size as shown. All wire connections to bars shall be through lugs, bolts and nuts and spring washers.

Copper Aluminium Galvanized Steel

Minimum 6.5 sq. mm 10 sq. mm 16 sq. mm

Maximum 65 sq. mm 120 sq. mm 200 sq. mm

The minimum size of earth bar in a board shall however be 15x3 Cu or 25x3 Al or equivalent.

10.9.0 Isolators

10.9.1 Isolators shall be fixed on wall on self-supported angle iron framework as required and mounted as near to the motor as possible. Where several motors are installed, isolators, if required, shall be provided at a central location on a common framework.

10.9.2 Painting, earthing and labels shall be provided as generally indicating for MV Switchgear and shown on drawings.

11. Earthing

11.1 All switches panels shall be provided with an earth bar as specified.

11.2 Earthing of the switchboards shall be through the equipment earthing system provided in the building with two-earth connection as shown.

12.0 Installation

12.1 All panels shall be supported on MS channels incorporated in the panel during the fabrication. All such supports shall be prime coated with two finish coats after completion of the work. All panels shall be touched up for damaged painting.

12.2 All panels shall be megger phase to phase and phase to neutral usinga1000V megger with all outgoing feeders in closed position. The megger value should not be less than 2.5 megaohms between phases and 1.5 mega ohms between phases and neutral.

12.3 Fabrication drawings of all panels shall be approved by the Consulting Engineers before fabrication.

13.0 Testing & Inspection

13.1 All switchboards shall be factory inspected before finishing and dispatch. Certificate for all routine and type tests for circuit breakers in accordance with the IS: 2516-1963 shall be furnished. In addition, all panels shall be meggered phase to phase and phase to neutral, using a 1000V megger with all switchgear in closed position. The megger value should not be less than2.5 mega ohms between phases and 1.5 mega ohms between phase and neutral.

13.2 All meters shall be calibrated and tested through secondary injection testes.

13.3 All field tests shall be witnessed by Bank and recorded.

**14. MEDIUM VOLTAGE CABLING**

14.1 Scope

14.2 The scope of work shall cover supply, lying connecting, testing and commissioning of low and medium voltage power and control cabling.

* 1. Standards

14.3.1 The following standards and rules shall be applicable:

i) BS: 6346 PVC insulated mains

ii) I.E.E. Wiring regulations

All codes and standards mean the latest. Where not specified otherwise the installation shall generally follow the British Standard Codes of Practice.

14.4.0 Cables

14.4.1 All cables shall be 1100-Volt grade PVC insulated sheathed with or withoutsteel armoring as specified and with an outer PVC protective sheath. Cables shall have high conductivity stranded Aluminum or Copper conductor and cable core color coded to the Indian Standards.

14.4.2 All cables shall be new without any kinks or visible damage. The manufacturer’s name, insulating material, conductor size and voltage class shall be marked on the surface of the cable every 600 mm centers.

14.5 Installation

14.5.1 Cables shall be laid in the routes marked in the drawings. Where the route is not marked, the Contractor shall mark it out on the drawings and also on the site and obtain the approval of the R.B.I. Engineer before laying the cable. Procurement of cables shall be on the basis of actual site measurements and the quantities shown in the schedule of work shall be regarded as a guide only.

14.5.2 Cables running indoors shall be laid on walls, ceiling, inside shafts or trenches. Single cables laid shall be fixed directly to walls or ceiling and supported at not more than 500 mm by G.I. spacer & G.I. clamp, cable angle iron support, etc. Where number of cables is run, necessary perforated cable trays if specified shall be provided where shown. Perforated trays shall be steel or Aluminium as specified in the schedule of work and supported on mild steel framework as shown on drawings or as approved. Cables laid in built-up trenches shall be on steel supports. Plastic identification tags shall be provided at every 30 m.

14.5.3 Cables shall be bent to a radius not less than 12 (twelve) times the overall diameter of the cable or in accordance with the manufacturer’s recommendations whichever is higher.

14.5.4 In the case of cables buried directly in ground, the cable route shall be parallel or perpendicular to roadways, walls etc. Cables shall be laid on an excavated, graded trench, over a sand or soft earth cushion to provide protection against abrasion. Cables shall be protected with brick or cement tiles as shown on drawings. Width of excavated trenches shall be as per drawings. Backfill over buried cables shall be with a minimum earth cover of 600mm. The cables shall be provided with cable markers at every 35 meters and at all loops/points.

14.5.5 The general arrangement of cable laying is shown on drawings. All cables shall have one length from panel to panel without any joints or splices. Cables shall be identified at end terminations indicating the feeder number and the Panel/Distribution board from where it is being laid. All cable terminations for conductors up to 4 sq. mm may be insertion type and all higher sizes shall be tinned copper crimp type lugs. Cable terminations shall have necessary brass glands. The end termination shall be insulated with a minimum of six half-lapped layers of PVC tape. Cable armoring shall be earthed at both ends.

14.6.0 Testing

14.6.1 MV cables shall be tested upon installation with a 500V Megger and the following readings established.

i) Continuity on all phases.

ii) Insulation Resistance

(a) Between conductors

(b) All conductors and ground

All test readings shall be recorded and shall form part of the completion documentation.

**15. DISTRIBUTION BOARDS**

15.1.0 Scope

15.1.1 The scope of work shall cover the supply installation, testing and commissioning of lighting and power distribution boards. Associated minor civil work required for the erection of the DBs, such as opening in wall, etc., also included in the scope of this contract.

15.2.0 Standards

15.2.1 The following standards and rules shall be applicable:

i) IS: 2675-1983 Enclosed distribution fuse boards and cutout for voltages not exceeding 1000V

ii) IS: 375-1963 Marking and arrangement of Switchgear bus bars main connections and auxiliary wiring.

iii) IS: 8828-1978 Miniature circuit Breakers.

iv) IS: 2607-1976 Air break isolators for voltages not exceeding 1000V

v) IS: 9926-1981 Fuse wire used in Rewirable type Electric

fuses up to 650 Volts

vi) Indian Electricity Act 1910 and rules issued thereunder.

15.2.2 All codes and standards mean the latest. Wherever not specified, the installation shall generally follow the Indian Standard Codes of Practice or the relevant British Standard Codes of Practice in the absence of Indian Standard.

15.3.0 Distribution Boards

15.3.1 Distribution boards Factory fabricated & painted along with the controlling MCB’s or Isolator as shown shall be fixed in mild steel box with hinged lockable door suitable for recessed mounting in wall. Distribution boards shall be made of 16 SWG sheet duly rust inhibited through a process of degreasing, acid pickling, phosphating and spray painting to an approved colour over a coat of red oxide primer.

Three phase boards shall have phase barriers and a wire channel on three sides generally as shown on drawings. Neutral bars shall be solid tinned copper bars with tapped holes and chase headed screws. For 3 phase DBs 3mm independent neutral bars shall be provided. All DBs shall be internally pre-wired using copper insulated PVC wires brought to a terminal strip of appropriate rating for outgoing feeders. All Blank space shall be provided with suitable PVC Blank plate.

15.3.2 Conduit knockout shall be provided as required/shown on drawings and the entire board shall be rendered dust and vermin proof with necessary sealing gaskets.

15.3.3 MCBs shall have quick make-and-break non-welding self-wiping silver alloy contacts for SKA short circuit both the manual and automatic operation. Each pole of the breaker shall be provided with inverse time thermal over load and instantons over current tripping elements, with trip-free mechanism. In case of multiple breakers, the tripping must be on all the poles and operating handle shall be common. Breakers must conform to BS: 3871with facility for locking in OFF position. Pressure clamp terminals for standard/solid conductor insertion are acceptable up to 4 sq. mm Aluminium or 2.5 sq. mm copper and for higher ratings, the terminals shall be suitably shrouded. Wherever MCB isolators are specified they are without the tripping elements.

15.3.4 Fuses shall be HRC link type or rewire-able with necessary fuse carriers and with S.C. rating of not less than 50KA.Bottle type fuses are not acceptable. Fuse carrier terminals shall be suitably shrouded.

15.3.5 Distribution boards shall have HRC/rewire-able fuses as shown on the schedule and drawings. Board shall meet with the requirements of IS: 2675 and marking arrangement of bus bars shall be in accordance with IS: 375.Bus bars shall be suitable for the incomer switch rating and sized for a temperature rise of 30deg Cover the ambient. Each board shall have two separate earthing terminals. Circuit diagram indicating the load distribution shall be pasted on the inside of the DB as instructed. One earthing terminal for single phase and two terminals for 3 phase DBs shall be provided with an earth strip connecting the studs and the outgoing earth bar.

15.3.6 In the case of MCB distribution boards, the back-up fuses wherever showns hall be not less than 63A with a delayed characteristic and a minimum piercing time of 0.5 sec at 9 KA fault current.

15.3.7 All outgoing feeders shall terminate on terminal strip which in turn is power wired to the MCB/Fuse base by means of insulated single conductor copper wires as follows:

Up to 15 A - 2.5 Sq. mm

25 A - 4.0 Sq. mm

63 A - 6.0 Sq. mm

15.3.8 Each DB shall have indicating lamps preferably neon type denoting power availability in the board after the switch. Indicating lamps shall be completely with fuses.

15.4.0 Installation & Testing

15.4.1 All distribution boards shall be mounted on wall or recessed, with necessary angle iron framework. All mounting frames shall have one prime coat and two finish coats after the completion of the work. All distribution boards shall be touched up for damaged painting.

15.4.2 All boards shall be meggered phase to phase and to neutral using 1000V megger with all switches in closed position. The megger value should not be less than 2.5 mega ohms between phase and 1.5 mega ohms between phase and neutral.

15.4.3 Fabrication drawings of all boards shall be approved by the consultants before fabrication and be inspected before dispatch, unless waived in writing.

15.5.0 Mode of measurement

15.5.1 The distribution board complete with the various components specified, indicating lamps, supporting frame, internal wiring, erection, etc., will be treated as one unit for the purpose of measurement and payment.

15.5.2 DBs with dimmers shall be separately counted.

**15.6. EARTHING**

15.6.1.0 Scope

15.6.1.1 The Scope of work shall cover supply and laying of Aluminium / Copper earth strips and connecting the power panels, DBs and switchboards.

15.7.0 Standards

15.7.1 The following standards and rules shall be applicable:

i) IS: 3043-1987 Code of Practice for earthing,

ii) Indian Electricity Act and Rules.

15.7.2 All codes and standards mean the latest. Where not specified otherwise the installation shall generally follow the Indian Standard Code of Practice or the British Standard Codes of Practice in the absence of Indian Standards.

15.7.3. Plate Earthing Station

15.7.3.1 The substation earthing shall be with copper plate earthing station unless otherwise specified.

15.7.3.2 The earthing station shall be as shown on the drawing. The earth electrodes shall be600x600x3 mm copper plate. The earth resistance shall be maintained with a suitable soil treatment and watering arrangement as shown on drawings. Excavated soft soil shall be thoroughly mixed with 6 percent by weight of common salt with 10 percent by weight of water and fill the earth pit.

15.7.3.3 The resistance of each earth station should not exceed 5 ohms.

15.7.3.4 The earth lead shall be connected to the earth plate through Copper / Brass bolts as shown on the drawing.

15.8 Pipe Earthing Station

15.8.1 The pipe earth station shall be as shown on the drawing and shall be used for equipment earth grid. The earth electrodes shall be 2.5 m long 50mm dia5mm thick galvanized steel pipe. The earth resistance shall be maintained with a suitable soil treatment as shown on drawings and as per plate electrodes.

15.8.2 The resistance of each earth station should not exceed 5 ohms.

15.8.3 The earth lead shall be fixed to the pipe with a clamp & safety set screws. The clamps shall be permanently accessible.

16. Earth leads and connections

16.1 Earth lead shall be bear Copper or Aluminium or galvanized steel as specified sizes shown on drawings. Copper lead shall have a phosphor content of not over 0.15 percent. Aluminium and galvanized steel buried in ground shall be protected with bitumen and hessian wrap or polythene faced hessian and bitumen coating. At road crossing necessary Hume pipes shall be lead. Earth lead run on surface of wall or ceiling shall be fixed on saddles or wall so that the strip is at least 6 mm away from the wall surface.

16.2 All earth strips shall be jointed as follows:

Aluminium: Riveting with 2 Nos. 100 mm long bimetal fish plates using copper rivets.

Galvanized steel : Lap welding with 50mm minimum lap.

16.3 All strips shall be run on walls/beams with 6mm thick galvanized steel earth saddles at 500 mm center to center.

17. Equipment Earthing

17.1 All apparatus and equipment transmitting or utilizing power shall be earthed in the following manner. Copper earth wires shall be used where copper wires are specified. Aluminium wires may be used where aluminium phase wires are specified unless otherwise indicated in the schedule of work and drawings.

17.2 Power transmission apparatus

17.2. 1 Metallic conduits hall not be acceptable as an earth continuity conductor. A separate insulated / bare earth continuity conductor of size related to phase conductor shall be provided as follow:

|  |  |  |  |
| --- | --- | --- | --- |
| **Cross-section in sq. mm** | | | |
| **Size of phase conductor** | **Copper** | **Aluminium** | **Galvanized steel** |
| Up to 16 | < same > | | 1.55 |
| More than 16 up to 35 | < 16 > | | 32 |
| Over 35 | < as shown in drawings > | | |
| Minimum (bare) | 2.5 | 4 | 6 |
| Minimum (enclosed) | 2.5 | 2.5 | - |

The earth continuity conductor may be drawn inside the conduit in which case, it should be insulated.

17.2. 2 Non-metallic conduit shall have an insulated earth continuity conductor of the same size as for metallic conduit. All metal junction and switch boxes shall have an inside earth stud to which the earth conductor shall be connected. The earth conductor shall be distinctly coloured Green and Yellow for easy identification.

17.2. 3 Armoured cables shall be earthed by 2 distance earth connections to the armouring at both the ends. In multiple cables earthing a panel / DB, the cable joints shall be bonded together using a bonding wire selected on the basis of the largest size of cable in the group.

17.2.4 In the case of unarmoured cable, an earth continuity conductor shall either be run outside along the cable or should form a separate insulated core of the cable.

17.2. 5 3 pH Power panels and distribution boards shall have 2 distinct earth connections of the size correlated to the incoming cable size. In case of 1 pH DBs a single earth connection is adequate. Similarly, for 3 pH and 1 pH isolating switches there shall be 2 and 1 earth connections respectively, size being correlated to the incoming cable.

**18.0 Testing**

18.1 The following earth resistance values shall be measured with an approved earth megger and recorded.

i) Each earthing station.

ii) Earthing system as a whole

iii) Earth continuity conductor.

**Important:**

**The details / description mentioned in the tender Part-I & Part-II shall supersede the drawings.**

**Interior Designer or Architect wherever mentioned, shall mean the Bank's Architect.**

Place: Signature of Contractor

Date: Name and designation:

Name of firm with Seal:

**APPROVED MAKES OF MATERIALS / EQUIPMENTS**

Note:

1. The Contractor shall obtain prior approval from the Engineer-in-charge before placing order for any specific material or engaging any of the specialized agencies. The Contractor shall make a detailed submittal with catalogues and highlighted proposed specifications, as well as full details of the works executed by the specialized agency, as specified.
2. In case of non-availability of the brand specified in the contract the Contractor shall approach Engineer-in-charge to acquiring alternate equivalent brand of the material subject to submission of documentary evidence of non- availability of the specified brand. No claim on this account shall be entertained.

| Sr. No. | Item/ Material | Make/ Name of the manufacturer |
| --- | --- | --- |
| a | MCBs, ELCBs and MCB DBs | MDS LEGRAND, HAGER, SIEMENS, L & T |
| b | PVC INSULATED ARMOURED CABLES (Cu) | POLYCAB, CCI, FINOLEX |
| c | FRLS COPPER CONDUCTOR PVC INSULATED WIRES | POLYCAB, FINOLEX, R K Cable |
| d | PVC CONDUITS (1.5 mm THICK) & ACCESSORIES | PRECISION/AKG |
| e | M.S.CONDUITS | BEC, SUPREME, AKG |
| f | PLUG SOCKET, TEL. SOCKET, INFORMATION OUTLET MODULAR TYPE | MDS LEGRAND, CPL OBSESSION, MKEI, ANCHOR |
| g | TEL WIRES AND CABLES | POLYCAB ,DELTON, ITL |
| h | SWITCH FUSE DISCONNECTOR UNIT | L&T-FN SERIES, SIEMENS |
| i | CTs, PTs | AE, KAPPA, PRAGATI |
| j | INDICATING LAMP (LED), PUSH BUTTON LAMPS (LED) | SIEMENS, L&T, TECHNIK |
| k | LIGHT FITTINGS, TUBES AND LAMPS | WIPRO, PHILIPS, JAQUAR ,CROMPTON |
| l | MS CONDUIT | JINDAL , BEC |
| m | WALL FANS | CROMPTON, BAJAJ, ELECTROMECH |
| n | DOUBLE COMPRESSION TYPE CABLE GLAND, SOCKETS CRIMP TYPE | DOWEL'S, SIEMENS, COMET |
| o | CAT 6 CABLE | AVAYA, D-LINK, POLYCAB |

Place: Signature of Contractor

Date: Name and designation:

Name of firm with Seal:

**Technical data to be furnished / uploaded by the bidders for LED lights:**

Required technical specifications by the bank are as under:

1. **LED 36 W Panel Light Technical Specifications:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sr.No | Description | Bank’s Requirement | Offered Specification | Deviation  (If any) |
| a | Dimensions | 2 x 2 feet |  |  |
| b | Power consumption including driver loss | 36 W |  |  |
| c | Lumen output | Min.4000 |  |  |
| d | CCT | 6500 K |  |  |
| e | Lamp Type | LED Tube light |  |  |
| f | Rated Voltage | 240 V, 50 Hz |  |  |
| g | Power Factor | Greater than ≥ 0.9 |  |  |
| h | THD | ≤ 20% |  |  |
| i | Mounting Type | Retrofit |  |  |
| j | CRI | Greater than ≥80 |  |  |
| k | IP Rating | IP 20 |  |  |
| l | Protection | Voltage surge protection , Over voltage and Open/short circuit protection |  |  |
| m | Approved make of LED Tube light | Philips, CG, Havells, Jaquar, ,Wipro |  |  |
| n | Warranty | One year (whole) |  |  |
| o | Make and Model No. |  |  |  |

1. **LED Batten 18 – 20 W Tube Light Technical Specifications:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sr.No | Description | Bank’s Requirement | Offered Specification | Deviation  (If any) |
| a | Dimensions | 4 feet |  |  |
| b | Power consumption including driver loss | 18 – 20 W |  |  |
| c | Lumen output | Min.4000 |  |  |
| d | CCT | 6500 K |  |  |
| e | Lamp Type | LED Tube light |  |  |
| f | Rated Voltage | 240 V, 50 Hz |  |  |
| g | Power Factor | Greater than ≥ 0.9 |  |  |
| h | THD | ≤ 20% |  |  |
| i | Mounting Type | Retrofit |  |  |
| j | CRI | Greater than ≥80 |  |  |
| k | IP Rating | IP 20 |  |  |
| l | Protection | Voltage surge protection , Over voltage and Open/short circuit protection |  |  |
| m | Approved make of LED Tube light | Philips, CG, Havells, Jaquar, ,Wipro |  |  |
| n | Warranty | One year (whole) |  |  |
| o | Make and Model No. |  |  |  |

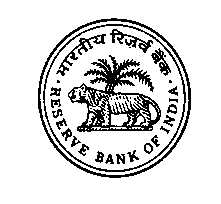
1. **LED Batten 10 W Tube Light Technical Specifications:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sr.No | Description | Bank’s Requirement | Offered Specification | Deviation  (If any) |
| a | Dimensions | 2 feet |  |  |
| b | Power consumption including driver loss | 10 W |  |  |
| c | Lumen output | Min.4000 |  |  |
| d | CCT | 6500 K |  |  |
| e | Lamp Type | LED Tube light |  |  |
| f | Rated Voltage | 240 V, 50 Hz |  |  |
| g | Power Factor | Greater than ≥ 0.9 |  |  |
| h | THD | ≤ 20% |  |  |
| i | Mounting Type | Retrofit |  |  |
| j | CRI | Greater than ≥80 |  |  |
| k | IP Rating | IP 20 |  |  |
| l | Protection | Voltage surge protection , Over voltage and Open/short circuit protection |  |  |
| m | Approved make of LED Tube light | Philips, CG, Havells, Jaquar, ,Wipro |  |  |
| n | Warranty | One year (whole) |  |  |
| o | Make and Model No. |  |  |  |

Place: Signature of Contractor

Date: Name and designation:

Name of firm with Seal:



**Section I**

**RESERVE BANK OF INDIA**

**HUMAN RESOURCE & MANAGEMENT DEPARTMENT**

**AIZAWL**

**Appendix Hereinbefore Referred To**

|  |  |  |
| --- | --- | --- |
|  |  |  |
| 1. | Defects Liability Period | Twelve months from the date of Virtual Completion Certificate |
| 2. | Period of Final Measurement | 3 months |
| 3. | Date of Commencement | 10th day from the date of letter of issue of work order. |
| 4. | Date of Completion | Date of virtual completion certificate. |
| 5. | Liquidated damages | Per week shall be 0.25% of the estimated cost and subject to a maximum 10% of the accepted e-tender amount |
| 6. | Value of works for interim certificates | Rs.~~10~~lakh |
| 7. | Retention percentage | 5% from each bills(RA & Final bill) |
| 8. | Installment of security deposit after virtual Completion | PBG as SD shall be refunded after virtual completion and RM as SD will be released after Defect liability Period subject to rectification of defects pointed out, (if any), satisfactorily. |
| 9. | Period for honoring certificates | One month for interim bills and 3 months for final bill. |
| 10. | Interest for delayed payment | 3% per annum |

Place: Signature of Contractor

Date: Name and designation:

Name of firm with Seal

**Section-J**

**List of approved make-Electrical Items**

|  |  |  |
| --- | --- | --- |
| S.No. | Description | Approved Make |
|  | FRLS Cable , wires | Finolex, Gloster, Poly-cab, Universal, NICCO, Havells |
|  | Switches, Sockets & Ceiling Rose | Legrand, Havells, L&T, MK |
|  | Industrial Top & socket | Legrand, Havells, L&T |
|  | Distribution Boards, MCCB MCB, RCCBs | Siemens, Havells, Legrand, L&T |
|  | Telephone cable & wires | Finolex, Havells, Poly-cab, Legrand, Delton |
|  | PVC conduits | Precision, AKG, Kinjal |
|  | LED light | Philips, Crompton |
|  | Fan | Orient , Usha, Crompton |

**List of approved make –Civil Items**

|  |  |  |
| --- | --- | --- |
| S.No. | Description | Approved Make |
|  | Washbasin | Jaguar, Parryware, Hindware, Roca,CERA,Kohler, RAK, Toto |
|  | C.P Brass Bib Cock, Stop cock, Pillar cock, Mixer cock, Angular stop cock | Jaguar , Hindware ,Kohler,Toto, Plumber, Gem, Marc |
|  | SS Kitchen Sink | Nirali ,Jayna, Neelkanth, Anupam,Diamond |
|  | CP Brass Swivel type long neck sink tap | Jaguar , Hindware ,Kohler,Toto, Plumber, Gem, Marc |
|  | Locks and Latches | Godrej,Ebco,Ozone,Hettich,Dorma,Haffele,Europa |
|  | Tower bolts,handles, aldrops, hinges, Door stoppers | Jaguar, Godrej,Hettich,Dorma, Haffele,Shalimar |
|  | Door Closers | Dorma, Everite,Hardwyn,Godrej,Ozone, Hettich |
|  | Door Floor Springs | Goderj, Dorma,Everite, Hardwyn,Ozone |
|  | Vitrified / Ceramic tiles | H R Johnson, Kajaria, Nitco, Bell, Somani, or approved equivalent |
|  | Paints / Primers / French spirit / Melamine Polish / PU coating | Asian Paints, ICI, Nerolac, Berger or approved equivalent. |
|  | Plywood | Kitply, Greenply, Anchor, Century, Archidply or approved equivalent etc. |
|  | Laminate | Sunmica/ Formica, Kitlam, Greenlam, Sundeck or approved equivalent. |
|  | Aluminium Sections | Jindal, Hindalco or approved equivalent. |
|  | Glass / Mirror | Modiguard, Saint Gobain or approved Equivalent. |
|  | Cement | A.C.C, Ultra Tech, Ambuja, Birla, or approved equivalent. |
|  | C.P.V.C / P.V.C pipes / Fittings | Prince, Astral, Supreme, Finolex or approved equivalent |
|  | Adhesives | Fevicol SH, Araldite, or approved equivalent |
|  | Valves | Leader, GM, Zoloto or approved equivalent |
|  | False Ceiling | Saint Gobain or approved equivalent |
|  | Grid False Ceiling | Armstrong or approved equivalent |
|  | White Cement / White Cement based Putty | Birla White, JK white of approved equivalent |

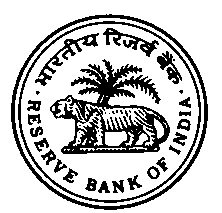
\***Note:** Request for approval of approved equivalent materials may be considered only in case of non-availability of brands / Makes given above.

Place: Signature of Contractor

Date: Name and designation:

Name of firm with Seal

**Section- K**

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**Reserve Bank of India**

**Human Resource Management Department**

**AIZAWL**

**Tender for “RENOVATION OF CIVIL & ELECTRICAL WORKS IN RBI LEASED PREMISES AT THAKTHING VENG, AIZAWL”**

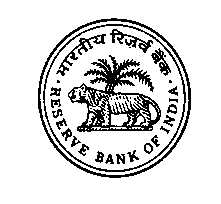
**Un- Priced Schedule of Quantities**

#### Part II

Name of Contractor\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Address \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Close Bid Date: - …………………………………………………..**



**Reserve Bank of India**

**Human Resource Management Department**

**Aizawl**

**“RENOVATION OF CIVIL & ELECTRICAL WORKS IN RBI LEASED PREMISES AT THAKTHING VENG, AIZAWL”**

**Preamble**

The rates quoted shall include the following:

1. The item and quantities indicated in the schedule of quantity are tentative and as per need of work and as decided by the Bank certain items/ quantities may not be required to be executed or may be executed with reduction in quantities to any extent. The contractor has to execute items/quantities as per direction of Bank and no claim on this account whatsoever it may will be entertained by the Bank in respect of non-operation of items/reduction in quantities.

1. Charges required to comply with all the provision under contract labour Act 1970(including subsequent revision if any) and rules therein.

1. Providing for all costs and charges incurred by the contractor complying with all safety health and welfare regulations, appertaining to staff and work people employed on the site.

1. Keeping the site free from debris arising from the works during the renovation/construction/repair/ period and leave the site free from debris on completion of work to the satisfaction of the Employer.

1. Providing electric lights, maintain system, all as required for the works and remove the temporary installations on completion

1. Making necessary holes/pockets/chases in masonry/ concrete/floors/walls/ partition etc. and making good the damages matching to the surrounding specification at no extra cost to the Bank.

1. Providing and erecting necessary scaffolding and providing access for work area as may be required for carrying out the repair works and for inspection of work at all levels and heights and removal the same after satisfactory completion of work.

1. Charges for Inspecting the site and get acquainted with pertaining works just idea for works to be carried out before quoting the rates.

1. Necessary charges towards providing service of a qualified supervisor on the work site during entire working hours and shall be who shall be available at work site to receive instructions from the Bank and act accordingly.

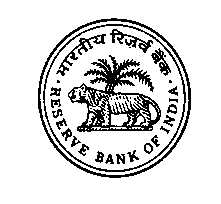
1. Contractors will have to submit a time bound programme just after the award of the work and get it approved from the Bank before commencement of work.

1. The rates shall also include the removal and carting away all debris, etc from Bank’s premises.

1. Contractors to provide the original invoices for every supply of materials for Bank’s verifications. If it is not provided and the materials found not as per specifications/ approved make shall not be measured for the payment.
2. Curing the items of work involving the use of cement and waterproof paints.
3. The rates should be inclusive of all relevant taxes, GST, transportation charge etc. and for all the accessories required for the completion of the work. No extra amount will be paid for whatsoever. All fluctuations in prices of all materials & labour shall be borne by the contractor.

Place: Signature and Seal of the contractor

Name & address



**RESERVE BANK OF INDIA**

**HUMAN RESOURCE MANAGEMENT DEPARTMENT**

**AIZAWL**

**Un- Priced Schedule of Quantities**

**Name of the Work: RENOVATION OF CIVIL & ELECTRICAL WORKS IN RBI LEASED PREMISES AT THAKTHING VENG, AIZAWL**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Item No. | **Item Description** | | **Unit** | **QTY.** |
|
| **I- Civil** | | |  |  |
| A | **DISMANTLING & DEMOLISHING WORKS** | |  |  |
| 1 | Dismantling wooden/aluminium/ Gypsum partitions (both Side skins), doors, windows, fixed glazing/MS Grills and false ceiling etc. including disposal of unserviceable surplus material outside of the Bank's premisesat approved dumping site by local municipal authorities and stacking of serviceable material. All complete as directed by Engineer-in-charge. *(Work shall be measured as net area from anyone side of the Partition)* | | Sqm | 20 |
| 2 | Dismantling tile work in floors, dado, skirting,roofs etc. laid in cement mortar including stacking material within 50 metres lead. | | Sqm | 90 |
|  | For thickness of tiles 10 mm to 25 mm | |  |  |
| 3 | Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. **(In Battery Room Near UPS)** | |  |  |
|  | Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix) | | Cum | 0.45 |
| 4 | Dismantling of flushing cistern of all types (C.I./PVC/Vitrious China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead. | | Each | 11 |
| 5 | Cutting holes of required size in brick masonry wall for fixing of exhaust fan including providing and fixing 300 mm dia PVC pipe conforming BIS-12818 and making good the same etc. complete as per direction of Engineer-in-charge | | Each | 3 |
| 6 | Dismantling W.C. Pan, Wash Basins, Urinals of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in Charge | | Each | 28 |
| 7 | Dismantling 15 to 40 mm dia G.I./ PVC pipe including stacking of dismantled pipes (within 50 metres lead) as per direction of Engineer in-Charge | | Metre | 80 |
|  | (a) Internal Work- Exposed on wall | |  |  |
| 8 | Making the opening in brick masonry including dismantling in floor or walls by cutting masonry and making good the damages to walls, flooring and jambs complete, to match existing surface i/c disposal of mulba/ rubbish to the nearest municipal dumping ground, all complete as per direction of Engineer-in-Charge. | |  |  |
|  | For door/ window/ clerestory window | | Sqm | 8 |
| B | **CIVIL WORKS** | |  |  |
| 9 | **HALF BRICK MASONARY FOR SEALING OF DOOR OPENNINGS** | |  |  |
|  | 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 . (Rate shall be inclusive of removal of existing door frame & shutters and disposing the same from the site) | |  |  |
|  | **Cement mortar 1:4 (1 cement :4 coarse sand)** | | Sqm | 4 |
| 10 | **CEMENT PLASTER (IN FINE SAND)** | |  |  |
|  | Providing & applying 15 mm cement plaster on the rough side of single or half brick wall of mix : | |  |  |
|  | 1:4 (1 cement: 4 fine sand) | | Sqm | 8 |
| 11 | **WATER PROOFING** | |  |  |
|  | Providing and applying waterproofing treatment to the sunken portion by applying first coat of Dr Fixit Pidifin 2K with roller or brush as per manufacturers specification on the slab and upto 300mm height on walls after dismantling existing floor, brickwork etc, cleaning the surface free from dust ,dirt and loose material and allow to dry the surface for 4-6 hours. Apply second coat in opposite direction and left for drying for 72 hours. After this water ponding test shall be carried out for a period of 72 hours and check that there is no seepage. etc all complete as directed by Bank's engineer. Note:- Only plan area of the floor will be measured for payment. | | Sqm | 30 |
|  | **FLOORING** | |  |  |
| 12 | **CERAMIC GLAZED TILES** | |  |  |
|  | Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc.,complete. Rates shall be inclusive of mixing water proofing compount with cement mortar and also necessary PCC if required for proper levelling and providing necessary slope towards the Nahani trap. | | Sqm | 30 |
|  | **BasicRate Ex. godown rate of the floor in Aizawl including GST is Rs.500/- Per Sqm.** | |  |  |
|  |  | |  |  |
| 13 | **WALL DADO AND JAMBS** | |  |  |
|  | **Ceramic tile on walls** | |  |  |
|  | Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shadecomplete.  **BasicRate Ex. godown rate of the floor in Aizawl including GST is Rs.500/- Per Sqm.** | | Sqm | 65 |
|  |  | |  |  |
| 14 | Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. | |  |  |
|  | Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble **(FOR PANTRY COUNTER) BasicRate Ex. godown rate of the floor in Aizawl including GST is Rs.1200/- Per Sqm.** | |  |  |
|  | Area of slab over 0.50 sqm | | SQ.M | 1.3 |
|  |  | |  |  |
| 15 | Granite stone slab colour black, Cherry/Ruby red **(FOR WASH BASIN & SERVING PLATFORM) BasicRate Ex. godown rate of the floor in Aizawl including GST is Rs.3000/- Per Sqm.** | |  |  |
|  | Area of slab over 0.50 sqm | | SQ.M | 1.7 |
| 16 | Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge. | |  |  |
|  | Marble work | | METRE | 5.5 |
|  |  | |  |  |
| 17 | Extra for fixing marble /granite stone, over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive, including cleaning etc. complete. | | METRE | 5.5 |
|  |  | |  |  |
| 18 | Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/ stone work, including necessary holes for pillar tapsetc. including moulding, rubbing and polishing of cut edges etc.complete. | | EACH | 1 |
| 19 | Mirror polishing on marble work/Granite work/stone work where ever required to give high gloss finish complete. | | SQ.M | 5 |
|  |  | |  |  |
|  | **Partition work** | |  |  |
| 20 | **Aluminium Frame Work for partitions & paneling** | |  |  |
|  | 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 | |  |  |
|  | Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15) | | Kg | 400 |
|  |  | |  |  |
| 21 | **SKINNING /PANELLING /BOXING** | |  |  |
|  | Providing and fixing Plywood and laminate of approved quality & make for partitions, facias, skirtings, wall paneling,column paneling & soffit etc.of required width and size as per drawing including cost of making openings for switches, AC facias etc. The rate includes cost of Putty/ POP, Paint, adhesives like fevicol,silicon, nails, screws and labour charges etc. all as per instructions of EIC / Architect. | |  |  |
|  | Providing and fixing plain lining with necessary screws/nuts & bolts/ nails, including a coat of approved primer on one face, and fixed on wooden /steel frame work, complete as per direction of Engineer-incharge (Frame work shall be paid for separately). | |  |  |
|  | 9mm thick commercial ply conforming to IS : 1328 BWR type | | Sqm | 320 |
| 22 | Providing & Fixing decorative high pressure laminated sheet of plain /wood grain in gloss / matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality. | |  |  |
|  | 1.0 mm thick | | Sqm | 365 |
|  |  | |  |  |
| 23 | **GYPSUM PARTITION** | |  |  |
|  | Providing and fixing partition upto ceiling height consisting of G.I. frame and required board, including providing and fixing of frame work made of special section power pressed/ roll form G.I. sheet with zinc coating of 120 gms/sqm(both side inclusive), consisting of floor and ceiling channel 50mm wide having equal flanges of 32 mm and 0.50 mm thick, fixed to the floor and ceiling at the spacing of 610 mm centre to centre with dash fastener of 12.5 mm dia meter 50 mm length or suitable anchor fastener or metal screws with nylon plugs and the studs 48 mm wide having one flange of 34 mm and other flange 36 mm and 0.50 mm thick fixed vertically within flanges of floor and ceiling channel and placed at a spacing of 610 mm centre to centre by 6 mm dia bolts and nuts, including fixing of studs along both ends of partition fixed flush to wall with suitable anchor fastener or metal screws with nylon plugs at spacing of 450 mm centre to centre, and fixing of boards to both side of frame work by 25 mm long dry wall screws on studs, floor and ceiling channels at the spacing of 300 mm centre to centre. The boards are to be fixed to the frame work with joints staggered to avoid through cracks, | |  |  |
|  | M.S. fixing channel of 99 mm width (0.9 mm thick having two flanges of 9.5 mm each) to be provided at the horizontal joints of two boards, fixed to the studs using metal to metal flat head screws, including jointing and finishing to a flush finish with recommended jointing compound, jointing tape, angle beads at corners (25 mm x 25 mm x 0.5 mm), joint finisher and two coats of primer suitable for board as per manufacture's specification and direction of engineer in charge all complete. | |  |  |
|  | 75 mm overall thickness partition with 12.5 mm thick double skin fire rated Glass Reinforced Gypsum (GRG) plaster board conforming to IS: 2095: part 3 (Board with BIS certification marks) | | Sqm | 22 |
|  |  | |  |  |
| 24 | **TOUGHENED GLASS DOOR** | |  |  |
|  | Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & double action hydraulic floor spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-incharge (Door handle, lock and stopper etc.to be paid separately) | | SQM | 3.30 |
|  |  | |  |  |
| 25 | **FROSTING FILM** | |  |  |
|  | Providing and fixing Non-reflective matte, frosted, scratch resistent, high performance resin coated polyster film with required frosting pattern on the glass surface complete as per the directions of EIC/ Architect (Payment shall be made for the finished area of the film actually provided. No deduction shall be made for openings upto 0.1 Sq.m. area each and nothing shall be paid extra for making such openings.) | | SQM | 3.30 |
|  | 3M - CRYSTAL GLASS FINISHES 7725 SE325 | |  |  |
|  |  | |  |  |
| 26 | **SEMI HT. SEMI GLAZED PARTITION IN LAMINATE** | |  |  |
|  | Providing & fixing Semi height Partition consisiting of framing made of Heavy duty Aluminium Box Sections 50mm x 50mm @ 600mm c/c both ways Horizontally and Vertically as per the drawing. The framing shall be finished with 8/9 mm thk. commercial ply on both side and finished with 1.00 mm thk. Laminate of approved shade & make. It shall also include providing and Fixing inserted Soft board / White boards / 10mm Glass maintaining the vertical surface lines and no extra measurements would be taken for the soft boards / white boards / Glass. | | SQM | 31 |
|  |  | |  |  |
| 27 | **DOORS AND WINDOWS** | |  |  |
|  | **Flush door with vision panel (Without door frame)** | |  |  |
|  | Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 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 | | SQM | 22.2 |
|  |  | |  |  |
| 28 | Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured). | | SQM | 22.2 |
| 29 | Extra for providing vision panel in all type of flush doors (cost of glass excluded) (overall area of door shutter to be measured): | |  |  |
|  | Rectangular or square | | SQM | 22.2 |
| 30 | Extra for providing heavy sheet float glass panes instead of ordinary float glass in glazed doors, windows and clerestory window shutters (Area of opening for glass panes excluding portion inside rebate shall be measured).5.0 mm thick (weight not less than 12.50 kg per sqm) instead of 4 mm thick. (weight not less than 10 kg per sqm) all complete as directed by Bank's engineer. | | SQM | 9.76 |
| 31 | Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete. | | Each | 11 |
| 32 | Providing and fixing chromium plated brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete. | | Each | 11 |
| 33 | Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete. | | Each | 11 |
| 34 | Providing and fixing bright finished brass handles with screws etc. complete: | |  |  |
|  | 125 mm | | Each | 11 |
|  |  | |  |  |
|  | **M.S Works** | |  |  |
| 35 | **COLLAPSABLE GATE** | |  |  |
|  | Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including providing & applying two coats of synthetic enamal paint over a coat of primer of approved make/shade, cleaning, etc. all complete s directed by Bank's engineer. | | sqm | 13 |
|  |  | |  |  |
| 36 | **GRILLS TO WINDOWS/ BALCONY OPENNINGS** | |  |  |
|  | Providing and fixing M.S. grills of required pattern in opening, etc. with M.S. flats, square or round bars etc. including providing & applying two coats of synthetic enamal paint over a coat of primer of approved make/shade, cleaning, etc. all complete as directed by Bank's engineer. | |  |  |
|  | Fixed to openings /wooden frames with rawl plugs screws etc | | Kgs | 75 |
|  |  | |  |  |
|  | **SANITARY WORKS AND WATER SUPPLY** | |  |  |
|  | **SANITARY WORKS** | |  |  |
|  | **SANITARY FITTINGS & FIXTURES-** Providing & fixing following fixtures, the rate for the following shall be inclusive of all necessary fixtures, labour charges accessories & attachments to make them operational. | |  |  |
| 37 | Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets ,15mm dia CP brass single hole basin mixer of appoved quality and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :**Kitchen sink without drain board (610x510 mm bowl depth 200 mm)** | | Each | 1 |
|  | **Wash Basin** | |  |  |
| 38 | Providing and fixing wash basin with C.I. brackets, 15 mm dia CP Brass pillar tap of approved quality and make, flexible pipe connector 15mm dia for inlet connection, C.P heavy duty waste coupling (Jaquar or approved equivalent make) including painting of fittings and brackets, cutting and making good the wallswherever required:-White Vitreous China Wash basin size 550x400 mm with a 15 mm CP Brass single hole basin mixer, etc all complete as directed by Bank's engineer. | | Each | 10 |
| 39 | Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings, etc all complete as directed by Bank's engineer. | | Each | 10 |
| 40 | Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.Semi rigid pipe 32 mm dia | | Each | 10 |
| 41 | Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass single hole basin mixer of approved quality, including flexible pipe connector 15mm dia for inlet connection, C.P heavy duty waste coupling (Jaquar or approved equivalent make)painting of fittings and brackets, cutting and making good the walls wherever require:WASH BASIN - Model No. CNS-WHT- 701GS WHT Series of M/S Jaquar or equivalent make ( At OiC's and Dining Area Basin on Granite counter) | | NOS. | 4 |
| 42 | Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge | | Each | 4 |
| 43 | Providing and fixing white vitreous china water closet squatting pan, jointing, etc. all complete (Indian type) : | | Each | 3 |
|  | Orissa pattern W.C. pan of size 580x440 mm | |
| 44 | Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete. | | Each | 3 |
|  | 10 litre capacity - White | |
| 45 | Providing and fixing white vitreous china floor mounted type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :Floor Mounted EWC - MODEL No- CNS WHT 551PSPP of M/S Jaquar or equivalent make, wall hung cistern Model N0.- WHC-WHT 184 NL of M/S Jaquar or equivalent make with 39mm drainage L-B- | | EACH | 8 |
| 46 | Providing and fixing CP BRASS HEALTH FAUCET, Model No**-**- ALD-CHR-573 of M/S Jaquar or equivalent make | | NOS. | 11 |
| 47 | Providing and fixing 2 WAY BIB COCK WITH WALL FLANGE , Model No-CON of M/S Jaquar or equivalent make | | NOS. | 11 |
| 48 | Providing and fixing ANGULAR STOP COCK WITH WALL FLANGE (Including Gyzer)-Model No-CON of M/S Jaquar or equivalent make | | NOS. | 27 |
| 49 | Providing and fixing TOILET ROLL HOLDER WITH STAINLESS STEEL, Model No- -AKPCHR- 35753PS of M/S Jaquar or equivalent make | | NOS. | 11 |
| 50 | Providing and fixing SOAP DISPENSER WITH GLASS BOTTLE, Model No- -AKPCHR- 35735P of M/S Jaquar or equivalent make | | NOS. | 15 |
| 51 | Providing and fixing SOAP DISH HOLDER, Model No- -AKPCHR- 35731P of M/S Jaquar or equivalent make | | NOS. | 4 |
| 52 | Providing and fixing TOWEL RAIL 24" , Model No- -AQN-CHR-7711 of M/S Jaquar or equivalent make | | NOS. | 1 |
| 53 | Providing and fixing TOWEL RING ROUND WITH ROUND FLANGE, Model No- -ACNCHR- 1121BN of M/S Jaquar or equivalent make | | NOS. | 15 |
| 54 | Supplying & fixing 100 mm (4") fixing NAHANI TRAP (Supreme or quivalent) of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors: and connecting it to the existing waste pipes outside. Rate should include cost of removing the existing trap, embedding in plain cement concrete all around in perfect level all complete as directed. | | NOS. | 12 |
| 55(a) | Supplying & fixing box shape stainless steel heavy type grating 125 to 150 mm for traps etc. all complete as directed by Bank's engineer.. | | NOS. | 12 |
| 55(b) | Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 | | NOS. | 4 |
|  | 15mm nominal bore | |
|  |  | |  |  |
| 56 | Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers, etc. all complete as directed by Bank's engineer. | | Each | 15 |
|  |  | |  |  |
|  |  | |  |  |
|  | **WATER SUPPLY WORKS** | |  |  |
| 57 | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. | |  |  |
|  | Rate is inclusive of concealed work, including cutting chases and making good the walls etc. | |  |  |
|  | 20 mm nominal dia Pipes | | METRE | 132 |
| 58 | **SOIL, WASTE, VENT & ANTI PIPE SYSETM** | |  |  |
|  | 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. | |  |  |
|  | 40 mm nominal dia Pipes | | METRE | 36 |
|  | **False Ceiling Works** | |  |  |
| 59 | **GYPSUM FALSE CEILING** | |  |  |
|  | Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs | |  |  |
|  | at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with : | |  |  |
|  | 12.5 mm thick tapered edge gypsum moisture resistant board | | Sqm | 45 |
|  | NOTE: The rate shall be inclusive of provision for core lighting, small moulding, verticals in two levels, 18.75mm x 12.5mm grooves on the edges, cutouts for cove lights and AC grills. | |  |  |
|  |  | |  |  |
| 60 | **False Ceiling -Grid Ceiling with Silhoutte Profile Grid** | | Sqm | 55 |
|  | Supplying and fixing of acoustical mineral fibre board(Dune-ML-RH-99) false ceiling(Armstrong /Celotex) system with 15 m.m Silhouette(BR)grid quick hook suspension system having main tee 3000 m.m long x38 m.m web height x 15 m.m wide tee section. The main runner is to be fixed with 2.5mm m.m dia prestretched GI wire to soffit cleat and GI rawl plug inserted on the main roof to be fixed at 1200 m.m centre to centre. Flush fitting 1200mm long x 38 mm x 15mm cross tees to be interlocked between main runners at 600mm centre to form 1200 x 600 mm module. 600 x 600mm module to be formed by fitting 600mm long x38mm x 15mm flush fitting cross tees centrally between the 1200 mm cross tees. All base frame work materials should be high quality galvanised steel. The rate should include for cut outs of AC grills and light fixtures, additional member if required is to be done as per the manufacturer's specification, Engineer in-charge and as per the drawing. | |  |  |
|  | Installation: To comprise main runner spaced at 1200mm centres securely fixed to the structural soffit using approved make suspension system at 1200mm maximum centre. The first/last suspension system at the end of each main runner should not be greater than 450mm from the adjacent wall.  Flush fitting 1200mm long cross tees to be interlocked between main runners at 600mm centre to form 1200 x 600 mm module. Cut cross tees longer than 600mm require independent support. 600 x 600mm module to be formed by fitting 600mm long flush fitting cross tees centrally between the 1200 mm cross tees. Perimeter trim to be approved wall angles of size length x 19x19mm, secured to walls at 450 mm maximum centres. | |  |  |
|  | SUSPENSION SYSTEM: - As per manufacturer's specifications consisting of M6 Anchor Fasteners with angle cleats of size 26 x 26 x 25 x 1.2mm with a Galvanised coat of 80gsm, a pre Straightened Hanger wire of dia – 2.5 mm of 1.8 m length with zinc coating of 80gsm and a tensile strength of 344-413 MPa, along with adjustable hook clips of 0.8mm thick, galvanised spring steel for 2.68 mm with a minimum pull strength of 110 kg. The adjustable clip also consists of a 3.5 mm aquiline wire to be used with the main runner. | |  |  |
|  |  | |  |  |
|  | **PAINTING & POP WORKS** | |  |  |
| 61 | **WALL PUTTY FOR GYPSUM CEILING** | |  |  |
|  | 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. | | Sqm | 60 |
|  | |  |  |
| 62 | **2MM THK VINYL PLANK FLOORING** | |  |  |
|  | Supply & Installation of Floor Master heterogeneous vinyl flooring in planks of each plank size 184mm x 950mm and total thickness 2mm and overall 0.30mm thk wear layer . The product have be multi layered consisting of wear layer with PUR coating, PVC layer, fiber glass layer and solid backing. It conform to group T wear resistance as per EN 660-2, Flammability resistance of ≥0.45 as per ASTM E6848, Slip resistance of R8- R9 as per DIN1130, Residual indentation of ≤ 0.01mm as per ASTMF1914, Color fastness rating of ≥ 6 as per ASTM 105- B02. Product shall exhibit antistatic behavior, resistance of chemical, suitability to castor chair. Floor should be smooth, flat, free from moisture | | Sqm | 360 |
|  | Shade - VINTAGE WOOD-WP 711/ DARK OAK- WP 644/ GREY OAK-WP 632/ LIGHT GREY OAK- WP702 | |  |  |
|  |  | |  |  |
| 63 | **PAINTINGS ON GYPSUM CEILINGS** | |  |  |
|  | Providing and applying two or more coats of wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound ) content less than 50 grams/ litre of approved brand, shade and manufacture, including providing & applying one coat of water thinable primer of approved make, scaffolding, cleaning, etc all complete as directed by Bank's engineer. | | Sqm | 60 |
|  | **Total of Civil Works (I)** | |  |  |
| **II-Electrical** | | |  |  |
| A |
|  | **WIRING IN STEEL AND PVC CONDUIT** | |  |  |
| 1 | Wiring for SINGLE light points/ Fan Points with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class 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.. | |  |  |
| 1.1 | Group-A Upto 3 mtr | | Point | 62 |
| 1.2 | Group B- Upto 4 mtr. | | Point | 38 |
| 1.3 | Group B- Upto 5 mtr. | | Point | 9 |
| 2 | Wiring for Group Controlled Loop light points (With Single independent Switch to provided at Common Switchboard etc. ) with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable and 1.5 sq.mm FRLS PVC insulated copper conductor single core cable as earth wire in existing surface/recessed steel/PVC conduit including dismantling as required. | |  |  |
| 2.1 | Group-A Upto 3 mtr (2 points' Loop) | | Point | 5 |
| 2.2 | Group B- Upto 4 mtr.(2 points' loop) | | Point | 18 |
| 2.3 | Group C- Upto 5 mtr.(2 points' loop) | | Point | 4 |
| 3 | Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.as required. | |  |  |
| 3.1 | 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire | | Metre | 1032 |
| 3.2 | 2 X 4 sq. mm + 1 X 4 sq. mm earth wire | | Metre | 240 |
| 3.3 | 2 X 6 sq. mm + 1 X 6 sq. mm earth wire | | Metre | 110 |
| 4 | Supplying and drawing of following pair 0.5mm dia FRLS PVC insulated annealed copper conductor unarmoured telephone cable in the existing surface/recssed PVC conduit | |  |  |
| 4.1 | 2 Pair | | Metre | 325 |
| 5 | Supplying and fixing of following sizes of medium class PVC conduit conduit along with accessories in surface/ recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required. | |  |  |
| 5.1 | 25mm | | Metre | 1690 |
| 6 | Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections modular plate etc. as required. | |  |  |
| 6.1 | 15/16 A switch | | Each | 3 |
| 6.2 | 25A Single Phase DOL Starter for AC Units | | Each | 15 |
| 6.3 | 3 pin 5/6 A socket outlet | | Each | 50 |
| 6.4 | 6 pin 15/16 A socket outlet | | Each | 3 |
| 7 | Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc. as required. | |  |  |
| 7.1 | 1 or 2 Module (75mmx75mm) | | Each | 1 |
| 7.2 | 3 Module(100mmx75mm) | | Each | 4 |
| 7.3 | 4 Module(125mmx75mm) | | Each | 14 |
| 7.4 | 6 Module (200mmX75mm) | | Each | 13 |
| 7.5 | 8 Module (125mm x125mm) | | Each | 13 |
| 7.6 | 12 Module (200mmx150mm) | | Each | 4 |
| 8 | Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.(RAW POWER) | | Each | 51 |
| 9 | Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing3 Nos. of 3 pin 5/6 A modular socket outlet and one No. of 15/16 A modular switch with connections etc. as required.(For Workstations ) | | Each | 34 |
| 10 | Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixings of 1 No. of LAN socket and 1 No. of Telephone Socket modular type with connections etc. as required.(For Workstations ) | | Each | 34 |
| 11 | Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required. | | Each | 3 |
| 12 | **Supply of light fixtures/ Fittings** as per the details given below including necessary hardware such as clamps,nuts, bolts, nails, screws and suspension chains as required for fixing the fixtures in position as required | |  |  |
| 12.1 | Slim Ceiling/ surface mounted 36 W LED panel Light fitting having Minimum lumen output 4000 lumen; dimension 2 x 2 feet with premium diffuser complete with all surface module accessories etc.as approved by the Engineer-incharge/ Architect. | | Each | 56 |
| 12.2 | Supply, Installation, testing and commissioning of 18-20 W LED fixture Surface Mounted 4 Feet with Polycarbonate diffuser with aluminium housing having following technical specifications with all accessories including connection with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable i/c hanging arrangement with chain and wiring with GI flexible conduit with coupler where ever if required and earthing as required.. | | Each | 67 |
| 12.3 | Supply, Installation, testing and commissioning of 9-10 W 600 MM TUBE LIGHT- LED batten tubes, Glaze LED Batten, High quality aluminium extruded with decorative end caps, Wattage-10W, as approved by the Engineer-incharge/ Architect. | | Each | 11 |
| 13 | Supplying including fitting fixing of following star rated new 400 mm dia bracket/wall fan in PVC body and PVC blade of Bajaj/ Orient/ Havells or equivalent of approved make , complete with all accessories with necessary connection cable, as approved by the Deptt.s etc. as required complete and as directed by the Engineer-incharge/ Architect. | |  |  |
| 13.1 | 400- 450 mm sweep | | *Each* | 14 |
| 14 | Supplying, Installation, Testing and Commissioning of single phase 300mm Sweep, 900/1400 RPM heavy duty propeller type exhaust fan for operation on 220-240 V, 50Hz, AC electricity, in the existing opening including making good the damages and connection with 1.5 sqmm FRLS PVC insulated copper wire including louver shutter complete as required. | |  |  |
| 14.1 | Upto 450 mm sweep | | Each | 15 |
| 14.2 | Extra for fixing the louvers/ shutters complete with frame for a exhaust fan of all sizes. | | Each | 15 |
| 15 | Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed Steel/ PVC conduit as required. | |  |  |
| 15.1 | 2 Run of Cable | | Metre | 512 |
|  | **CHAPTER-2-MCCB, MCB & DB’S** | |  |  |
| 16 | Supplying and fixing following way, horizontal type Single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/ Isolator) | |  |  |
| 16.1 | 6 Way Double Door | | Each | 5 |
| 16.2 | 8 Way Double Door | | Each | 2 |
| 17 | Supplying and fixing following way, horizontal type Triple pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/ Isolator) | |  |  |
| 17.1 | 4 Way (4+12) Double Door | | Each | 5 |
| 18 | Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. | |  |  |
| 18.1 | Single pole | | Each | 86 |
| 18.2 | Double Pole | | Each | 1 |
| 19 | Supplying and fixing following rating,DP pole, (SIngle phase and neutral), 240 volts, Isolator/ MCB, in the existing MCB DB complete with connections, testing and commissioning etc. as required. | |  |  |
| 19.1 | 40A | | Each | 6 |
| 19.2 | 63A | | Each | 2 |
| 20 | Supplying and fixing following rating,four pole pole, (Three phase and neutral), 415 volts, Isolator/ MCB, in the existing MCB DB complete with connections, testing and commissioning etc. as required. | |  |  |
| 20.1 | 40A | | Each | 5 |
|  | **Rs.** |
| B | **Sub- Head 2: MAIN LT Panel** | |  |  |
| 21 | Supplying, Installation, testing & commissioning of cubical type LT panel suitable for 415 V, 3 Phase, 4 wire 50 Hz AC supply system fabricated in compartmentalized designd from CRCA sheet steel of 2 mm thick for frame work and covers, 3 mm thick for gland, plates i/c cleaning & finishing complete with 7 tank process for powder coating in approved shade, having 400 Amp capacity extensible type TPN tinned CU bus bars of hight conductivity, bottom base channel of MS section not less than 100 mm x 50 mm x 5 mm thick, fabrication shall be done in transportable sections, entire panel shall have a common Cu earth strip of size 25 mm x 5 mm at the rear with 2 Nos. earth stud, solid connections from main bus bar to switch gears with required size of Cu wire. bus bars and control wiring with suitable size PVC insulated copper conductor S/C cable complete with necessary standard fittings as reqd at site i/c providing following switch gears. | | Set | 1 |
|  | **Incoming :** | |
|  | (i) 1 Nos. 200 Amps,36 KA FP MCCB for protection against over load short circuits and earth fault. | |
|  | 1 Set of 4 strip PVC sleeved Cu Bus Bar 200 Amps. Capacity. | |
|  | 2 set of three phase multifunctional/ intelligent digital panel meter cum frequency meter i/c necessary CT’s etc. for measuring voltage, current, frequency, power factor, power & energy. | |
|  | **Outgoing:-** | |
|  | 2 No. of 16 A DP, MCB | |
|  | 2 No. 63 A DP, MCB | |
|  | 6 Nos. of 40 A TPN MCB | |
|  | 1 Nos.Space for 25 Amps.TPN MCB | |
|  |  | |
|  | Rs. |
| 22 | **SUB HEAD-3: CABLE LAYING WORKS** | |  |  |
| 22 | Supplying of one number PVC insulated and PVC sheathed / XLPE Cu power armoured cable of 1.1 KV grade of following size on wall surface as required. | |  |  |
| 22.1 | 4 C x 10 sq. mm | | Mtrs. | 125 |
| 22.2 | 4 C x 6 sq. mm | | Mtrs. | 20 |
| 23 | Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.(From Main LT panels to sub DB's UPS & Raw) | |  |  |
| 23.1 | Upto 35 sq. mm (clamped with 1mm saddle) | | Mtrs. | 145 |
| 24 | Supply and making end termination with brass compression gland and copper lugs for following size of PVC insulated and PVC shealed /XLPE copper conductor cable of 1.1 KV grade as required. | |  |  |
| 24.1 | 4 C x 10 sq. mm (one end ) | | Each | 25 |
| 24.2 | 4 C x 6 sq. mm (one end) | | Each | 4 |
|  | **Rs.** |
|  | **SUB-HEAD-4: EARTHING AND SAFETY MEASURES** | |  |  |
| 25 | Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required. | | Sets | 6 |
| 26 | Providing and fixing 4.00 mm dia ( 8 SWG) wire on surface or in recess for loop earting along with existing surface /recessed condit/submain wiring /cable as required | | Mtrs. | 150 |
| 27 | Providing and laying earth connection from earth electrode with 4mm dia Cu wire in 15 mm dia GI pipe from earth electrideincluding connection with Cu thimble excavation and re-filling as required | | Mtrs. | 50 |

Date: Signature of Contractor with address & Seal

Place:

**Annexure (I)**

****

**Reserve Bank of India**

**Human Resource Management Department**

**Aizawl**

**ARTICLES OF AGREEMENT**

ARTICLES OF AGREEMENT made the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_day of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_between the Reserve Bank of India having its Central office at Mumbai – 400 001 (hereinafter called “The Bank”) of the one part and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (herein after called the “contractor”) of the other part.

WHEREAS THE Bank is desirous of carrying out **‘RENOVATION OF CIVIL & ELECTRICAL WORKS IN RBI LEASED PREMISES AT THAKTHING VENG, AIZAWL’** has caused Drawing and Bills of Quantities showing and describing the work to be done to be prepared by or under the direction of Bank’s Engineer.

AND WHEREAS the contractor has agreed to execute upon and subject to the conditions set forth herein and to the conditions set forth in the Special Conditions and in the Schedule of Quantities and Conditions of Contract ( all of which are collectively hereinafter referred to as “the said Conditions”) the works shown upon the said Drawings and / or described in the said Specification and included in the Schedule of Quantities at the respective rate therein set forth amounting to the sum as therein arrived at or such other sum as shall become payable there under (hereinafter referred to as “the said Contract Amount”).

NOW IT IS HEREBY AGREED AS FOLLOWS

1. In consideration of the said Contract Amount to be paid at the times and in the manner set forth in the said Conditions, the contractor shall upon and subject to the said Conditions execute and complete the work shown upon the said Drawings and described in the said Specifications and the Schedule of Quantities.
2. The Bank shall pay the contractor the said Contract Amount or such other sum as shall become payable, at the times and in the manner specified in the said Conditions.
3. The term “Bank’s Engineer” in the said condition regarding execution of the work, quality of construction, quality of materials, progress and completion of the project etc. shall mean the Deputy General Manager (Technical), or any other person designated for the purpose by the Reserve Bank of India. As far as the operation of the provision under clause 34 of the contract viz. clause relating to settlement of disputes through arbitration, the term “Bank’s Engineer” shall be read as Deputy General Manager / Officer – in-charge, of the Human Resource Management Department, Reserve Bank of India, Aizawl.
4. The said Conditions and Appendix thereto shall be read and construed as forming part of this Agreement, and the parties hereto shall respectively abide by, submit themselves to the said Conditions perform the agreements on their part respectively in the said Conditions contained.
5. The plans, agreement and documents mentioned herein shall form the basis of this contract.
6. This Contract is neither a fixed lump sum Contract nor a piece Work Contract, but it is a Contract to carry out the work in respect of “RENOVATION OF CIVIL & ELECTRICAL WORKS IN RBI LEASED PREMISES AT THAKTHING VENG, AIZAWL” to be paid for according to actual measured quantities at the rates contained in the Schedule of quantities or as provided in the said Conditions.
7. The Contractor shall afford every reasonable facility for the carrying out of all works relating to civil works, installation of sanitary work and fittings, permanent water supply, electrical installations, fittings, and other ancillary works in the manner laid down in the said Conditions, and shall make good any damages done to walls, floors, etc. after the completion of such works.
8. The Bank reserves to itself the right of altering the Drawings and nature of the work by adding to or omitting any items of work or having portions of the same carried out without prejudice to this Contract.
9. The Contractor shall not disclose directly or indirectly any information, materials and details of the Bank's infrastructure/systems/equipment’s etc., which may come to the possession or knowledge of the Contractor during discharging its contractual obligations in connection with this agreement, to any third party and shall at all times hold the same in strictest confidence. The Contractor shall treat the details of the contract as private and confidential, except to the extent necessary to carry out the obligations under it or to comply with applicable laws. The Contractor shall not publish, permit to be published, or disclose any of the works in any trade or technical paper or elsewhere without the previous written consent of the Bank. The Contractor shall indemnify the Bank for any loss suffered by the Bank because of disclosure of any confidential information. Failure to observe the above shall be treated as breach of contract on the part of the Contractor and the Bank shall be entitled to claim damages and pursue legal remedies. The Contractor shall take all appropriate actions with respect to its employees to ensure that the obligations of non-disclosure of confidential information under this agreement are fully satisfied. The Contractor's obligations with respect to non-disclosure and confidentiality will survive the expiry or termination of this agreement for whatever reason.
10. The contractor/agency hereby agrees to commence the work from 10th day of date of award letter and to complete the entire work within specified time period subject nevertheless to the provisions for extension of time in writing by such form (i.e. by way of a deed of agreement or by exchange of letters/emails) as may be mutually decided by the parties.
11. All payments by the Bank under this contract will be made only at Aizawl.
12. All disputes arising out of or in any way connected with this agreement shall be deemed to have arisen at Aizawl and only Courts in Aizawl shall have jurisdiction to determine the same.
13. The several parts of this Contract have been read by the Contractor and fully understood by the Contractor.
14. The contractor/agency shall be solely responsible for full compliance with the provision of Sexual harassment of Women at work place under Prevention, Prohibition and Redressal Act 2013. In case of any complaint of sexual harassment against its employee within the premises of Bank, the complaint will be filed before the Internal Complaints Committee constituted by the contractor/agency and the contractor/agency shall ensure appropriate action under the said Act in respect of the complaint.
15. Any complaint of sexual harassment from any aggrieved employee of the contractor against any employee of the Bank shall be taken cognizance of by the Regional Complaints Committee constituted by the bank.
16. The contractor shall be responsible for any monetary compensation that may need to be paid in case of incident involves the employee of the contractor, for instance any monetary relief to Bank’s employee, if sexual violence by the employee of the contractor id proved.
17. The contractor shall be responsible for educating its employees about the prevention of sexual harassment at work place and related issues.
18. The contractor shall provide a complete and updated list of its employees who are deployed within the bank’s premises.
19. Contractors shall comply with minimum wage Act and labour Act in force. Notices/penalty, if any, issued/ imposed by any statutory bodies in the work due to lapses by the contractor in complying with the statutory norms/ requirements shall be paid by the contractor, without any claim to the Bank.

IN WITNESS WHERE OF the Bank and the Contractor have set their respective hands to these presents and two duplicates thereof the day and year first hereinabove written. (If the Contractor is a partnership or an individual).

IN WITNESS WHERE OF the Bank has set its hands to these presents through its duly authorized officials and the Contractor has caused its common seal to be affixed hereunto and the said two duplicates/ has caused these presents and the said two duplicates hereof to be executed on its behalf, the day and year first hereinabove written, (If the Contractor is a Company).

Signature Clause

|  |  |
| --- | --- |
| SIGNED AND DELIVERED BY THE  Reserve Bank of India by the hand of  Shri ……………………………………….  (Name and designation)  In the presence of witnesses  (1) …………………………………………  Address…………………………………… |  |
| (2) …………………………………………  Address…………………………………… |  |
| SIGNED AND DELIVERED BY ………...  (1) …………………………………………  Address…………………………………... | If the party is a partnership firm or an individual should be signed by all or on behalf of all the partners |
| (2) …………………………………………  Address …………………………………… |  |

Witnesses

|  |  |  |  |
| --- | --- | --- | --- |
| The COMMON SEAL OF:  Was hereunto affixed pursuant to the Resolutions passed by its Board of Directors at the meeting held  On ………………………………In the Presence of    (1) …………………………………………  (2) ………………………………………… | |  | |
| Directors who have signed these presents in token thereof in the presence of   1. …………………………………………   (2)………………………………………….. | | If the contractor signs under Its common seals, the signature clause should tally with the sealing clause in the Articles of Association | |
|  | | If the Contractor is signing by the hand of power of attorney, whether a company or individual | |
| Annexure II | |  | |
| **Proforma Of Bank Guarantee** | |  | |
| The GM (O-I-C), | | Place | |
| Reserve Bank of India | | Date | |
| Aizawl | |  | |
|  | |  | |

Dear Sir/Madam,

**RENOVATION OF CIVIL & ELECTRICAL WORKS IN RBI LEASED PREMISES AT THAKTHING VENG, AIZAWL**

**WHEREAS**

The Reserve Bank of India, having its Central Office at Shahid Bhagat Singh Road, Mumbai and an office at Aizawl (hereinafter called the ‘Bank’) has invited **e- tenders** for the work **RENOVATION OF CIVIL & ELECTRICAL WORKS IN RBI LEASED PREMISES AT THAKTHING VENG, AIZAWL**. (hereinafter referred to as ‘the Work’) on the terms and conditions mentioned in the tender documents.

1. It is one of the terms of invitation of tenders that the Contractor shall furnish a Bank Guarantee for a sum of Rs. \_\_\_\_\_\_\_\_\_\_\_\_ (Rupees \_\_\_\_\_\_\_\_\_\_\_\_\_only) as Earnest Money Deposit.

1. M/s\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, (hereinafter called as

Contractor), who are our constituents intend to submit their tender for the said work and have requested us to furnish guarantee to the Bank in respect of the said sum of Rs. (Rupees only).

**NOW THIS GUARANTEE WITNESS THE**

1. We \_\_\_\_\_\_\_\_\_\_\_\_\_ (Bank) do hereby agree with and undertake to the Reserve Bank of India, their Successors, Assigns that in the event of the Reserve Bank of

India coming to the conclusion that the Contractor have not performed their obligations under the said conditions of the tender or have committed a breach thereof, which conclusion shall be binding on us as well as the said Contractor, we shall on demand by the Reserve Bank of India, pay without demur to the Reserve Bank of India, a sum of Rs . \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (Rupees \_\_\_\_\_\_\_\_\_\_\_\_

only) or any lower amount that may be demanded by the Reserve Bank of India. Our guarantee shall be treated as equivalent to the Earnest Money Deposit for the due performance of the obligations of the Contractor under the said Conditions, provided, however, that our liability against such sum shall not exceed the sum of

Rs. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_/- (Rupees \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_only).

1. We also agree to undertake to and confirm that the sum not exceeding Rs.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_/- (Rupees \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ only) as aforesaid shall be paid by us without any demur or protest, merely on demand from the Reserve Bank of India on receipt of a notice in writing stating the amount is due to them and we shall not ask for any further proof or evidence and the notice from the Reserve Bank of India shall be conclusive and binding on us and shall not be questioned by us in any respect or manner whatsoever. We undertake to pay the amount claimed by the Reserve Bank of India within a period of one week from the date of receipt of the notice as aforesaid.

1. We confirm that our obligation to the Reserve Bank of India under this guarantee shall be independent of the agreement or agreements or other understandings between the Reserve Bank of India and the Contractor.

This guarantee shall not be revoked by us without prior consent in writing of the Reserve Bank of India.

We hereby further agree that –

1. Any forbearance or commission on the part of the Reserve Bank of India in enforcing the conditions of the said agreement or in compliance with any of the terms and conditions stipulated in the said tender and/or hereunder or granting of any time or showing of any indulgence by the Reserve Bank of India to the Contractor or any other matters in connection therewith shall not discharge us in any way and our obligation under this guarantee. This guarantee shall be discharged only by the performance by the Contractors of their obligations and in the event of their failure to do so, by payment by us of the sum not exceeding Rs. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_/- (Rupees……………………………… only)
2. Our liability under these presents shall not exceed the sum of Rs.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_/- (Rupees \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

only)

1. Our liability under this agreement shall not be affected by any infirmity or irregularity on the part of our said constituents in tendering for the said work or their obligations there under or by dissolution or change in the constitution of our said constituents.
2. This guarantee shall remain in force upto \_\_\_\_\_\_\_\_\_\_\_\_ provided that if so desired by the Reserve Bank of India, this guarantee shall be renewed for a further period as may be indicated by them on the same terms and conditions as contained herein
3. Our liability under this presents will terminate unless these presents are renewed as provided hereinabove on the \_\_\_\_\_\_\_\_\_\_ or on the day when our said constituents comply with their obligations, as to which a certificate in writing by the Reserve Bank of India alone is the conclusive proof whichever date is later. Unless a claim or suit or action is filed against us within six months from that date or any extended period, all the rights of the Reserve Bank of India against us under this guarantee shall be forfeited and we shall be released and discharged from all our obligations and liabilities hereunder.

Yours’ faithfully,

For and on behalf of

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Bank.

Authorized official.

(NB: This guarantee will require stamp duty as applicable in the state, where it is executed and shall be signed by the official whose signature and authority shall be verified).

|  |
| --- |
| **ANNEXURE-“III”** |
| CLIENT’s CERTIFICATE REG. PERFORMANCE OF CONTRACTOR |
| Name & address of the Client |
| Details of Works executed by Shri /M/s |

|  |  |  |
| --- | --- | --- |
| 1 | Name of work with brief particulars |  |
| 2 | Agreement No. and date |  |
| 3 | Agreement amount |  |
| 4 | Date of commencement of work |  |
| 5 | Stipulated date of completion |  |
| 6 | Actual date of completion |  |
| 7 | Details of compensation levied for delay (indicate amount) if any |  |
| 8 | Gross amount of the work completed and paid |  |
| 9 | Name and address of the authority under whom works executed |  |
| 10 | Whether the contractor employed qualified Engineer/Overseer during execution of work? |  |
| 11 | i)  Quality of work (indicate grading) | Outstanding/Very Good/  Good/Satisfactory/poor |
|  | ii)   Amt. of work paid on reduced rates, if any. |  |
| 12 | i)    Did the contractor go for arbitration? |  |
|  | ii)   If yes, total amount of claim |  |
|  | iii)   Total amount awarded |  |
| 13 | Comments on the capabilities of the contractor. |  |
|  | a)    Technical proficiency | Outstanding/Very Good/  Good/Satisfactory/poor |
|  | b)    Financial soundness | Outstanding/Very Good/  Good/Satisfactory/poor |
|  | c)     Mobilization of adequate T&P | Outstanding/Very Good/  Good/Satisfactory/poor |
|  | d)    Mobilization of manpower | Outstanding/Very Good/  Good/Satisfactory/poor |
|  | e)    General behaviour | Outstanding/Very Good/  Good/Satisfactory/poor |

**Signature of the Reporting Officer\* with Office seal**

\* **Regarding performance report/ client’s certificate, for works carried out for Government/ public sector companies, the certificate should be signed by the concerned Executive Engineer or an officer in an equivalent or higher rank. For works carried out for Private companies, Copy of TDS has to be submitted for proving the credentials/contract amount.**

(i) All columns should be filled in properly

(ii) The Client Certificates should be submitted for each of the Prequalification work/s

**ANNEXURE IV**

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| **FORMAT OF BANKERS' CERTIFICATE** |
| |  |  | | --- | --- | | 1. | Composition of the firm (whether Partnership”/ Private Limited/ Proprietorship/ Public Limited.) | | 2. | Name of the Proprietor/ Partners/ Directors of the firm. | | 3. | Turnover of the firm for the financial years (year wise)   |  |  | | --- | --- | | 2022-23 |  | | 2021-22 |  | | 2020-21 |  | |  |  | | | 4. | Credit facility/ Overdraft facility enjoyed by the firm. | | 5. | Dealings | | 6. | The period from which the firm has been banking with your bank. | | 7. | Any other remarks. | | You may also kindly forward your opinion whether the above firm is considered financially sound to be entrusted with the contract for works estimated to cost Rs. 49.30 **Lakh.** | | |
| (Signature) |
| For the Bank |
| Note: Bankers' certificates should be on letter head of the Bank, sealed in cover addressed to RBI. |
| In case of partnership firm, certificate should include names of all partners as recorded with the Bank |

**Pro forma for Details of Principal Banker/other bankers**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sr. No. | Particulars | Principal Banker | Banker | Banker |
| 1 | Address |  |  |  |
| 2 | Contact Person |  |  |  |
| 3 | E-mail |  |  |  |
| 4 | Telephone Number |  |  |  |
| 5 | Fax Number |  |  |  |

**Proforma for Details of Similar Works executed during the last Five years**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sr.  No. | Name and  address of the  firm | Nature of  similar  work | Value of  the work | Whether  works  completed in  time or not  (give date of  start & and  date of  completion) | Completion  period as per  work order | Fax /phone  number  &contact  person of the  firm |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

**Annexure - V**

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| --- |
| **FORMAT FOR POWER OF ATTORNEY FOR SIGNING OF PROPOSAL**  (On Non-Judicial Stamp Paper of appropriate value) |
| Know all men by these presents, We………………………………..………………………….(Name of the Bidder and address of their registered office) do hereby constitute, appoint and authorize Mr./Ms. ………………………… ……………………………………..…… ………(Name and residential address of Power of Attorney holder) who is presently employed with us and holding the position of ………………………………………………………….……………….  as our attorney, to do in our name and on our behalf, all such acts, deeds and things necessary in connection with or incidental to our bid for the “**RENOVATION OF CIVIL & ELECTRICAL WORKS IN RBI LEASED PREMISES AT THAKTHING VENG, AIZAWL**” on Item Rate Contract basis for Reserve Bank of India including signing and submission of all documents and providing information / responses to RBI, representing us in all matters before RBI, and generally dealing with RBI in all matters in connection with our proposal for the said Project. |
| We hereby agree to ratify all acts, deeds and things lawfully done by our said attorney pursuant to this Power of Attorney and that all acts, deeds and things done by our aforesaid attorney shall and shall always be deemed to have been done by us. |
| Note:  Power of Attorney should be properly stamped and notarized  Power of Attorney furnished shall be irrevocable. |
| Signature/(s) of the Bidder |
| Name/(s) |
| Stamp/Seal of the Bidder  (NB: This guarantee will require stamp duty as applicable in the state, where it is executed and shall be signed by the official whose signature and authority shall be verified). |

**Annexure VI**

**Proforma of undertaking in connection with payment of advance of materials brought by the contractor to the site**

This undertaking made this \_\_\_\_\_\_\_day of \_\_\_\_\_\_\_\_ between the Reserve Bank of India, a corporation constituted under the Reserve Bank of India Act, 1934 and having its Central Office at Shahid Bhagat Singh Road, Mumbai 400001 (hereinafter called the Employer) of the one part and \_\_\_\_\_\_\_\_\_\_\_\_\_ (hereinafter called the Contractors of the other part).

The Employer and the Contractors have entered into an Agreement dated \_\_\_\_\_\_\_ hereinafter called as the said agreement and in terms of Clause No. 1.28 of the conditions in the agreement, the Employer has agreed that the contractor will be paid an advance of 75% of the cost of non-perishable building materials brought by the contractor to the site for consumption in the works at the discretion of the Employer.

The Contractor has applied to the Employer that they be allowed advances on the security of materials absolutely belonging to them and brought by them to the site of work. The Employer has agreed to do so on the terms and conditions hereinafter set out.

Now this Letter of Undertaking witnesses that in consultation of the said agreement and in consideration of the amount paid/payable to the contractor by the Employer and of any further advances as may be made to the Contractors as aforesaid, the Contractor hereby agree with the Employer and undertake as under:

1. The amount advanced by the Employer to the Contractors as aforesaid and all or any further sum or sums advanced as aforesaid shall be employed by the Contractor in or towards expediting the execution of the said works and for no other purpose whatsoever.
2. That the material which have been offered to and accepted by the Employer as security are absolutely the Contractor’s own property and free from encumbrances or any kind and the Contractor will not make any application for or receive a further advance on the security of materials which are not absolutely his own property and free from encumbrances of any kind the Contractor indemnify the Employer against all claims to any materials in respect of which an advance has been made to them as aforesaid.
3. That the materials on the security of which any further advance of advances may hereafter be made as aforesaid (hereinafter called the said materials) shall be used by the Contractor solely in the execution of the said works in accordance with the directions of the Bank’s engineer of the Employer and in accordance with the terms of the said agreement.
4. That the Contractors shall make at their own cost all the necessary and adequate arrangement for the proper watch, safe custody and protection against all risks of the said materials and that until used in construction as aforesaid, the said materials shall remain at the site of the said works in the Contractor's custody and on their own responsibility and shall at all times be open to inspection by the Employer's Engineers or any officer authorised by the Employer. In the event of the said materials or any part thereof being stolen, destroyed or damaged, the Contractor will forthwith replace the same with other materials of like quantity or repair and make good the same as required by the Assistant Engineer/ Assistant Executive Engineer.
5. That the said materials shall not on any account be removed from the site of the said works except with the permission of the Bank’s engineer.
6. That the advances shall be repayable in full when or before the Contractors receive payment from the Employer of the price payable to them for the said works under the terms and the provisions of the said agreement provided that if any intermediate payments are made to the Contractors on account of work done, then on occasion of each such payment by deducting therefrom the value of the said materials then actually used in the construction and in respect of which recovery has not been made previously, the value for this purpose being determined in respect of each description of materials at the rates at which the amounts of the advances made under these presents were calculated.
7. That if the Contractors shall at any time make any default in the performance or observance in any respect of any of the terms and provisions of the said agreement or of these presents, the total amount of advance or advances that may still be owing to the Employer, shall immediately, on the happening of such default, be repayable by the Contractors to the Employer together with interest thereon at 12% per annum from the date or respective dates of such advance or advances to the date of repayment and with all costs charges, damaged and expenses incurred by the Employer in or for the recovery thereof or the enforcement of this security or otherwise by reason of the default of the Contractors and the Contractors hereby covenant and agree with the Employer to repay and pay the same respectively to him accordingly.
8. That the Contractors hereby charge all the said materials with the repayment to the Employer of the sum of sums advanced as aforesaid and all costs, charges, damages and expenses payable under these presents PROVIDED ALWAYS and it is hereby agreed and declared that notwithstanding anything in the said agreement and without prejudice to the powers contained therein if and whenever the covenant for payment and repayment hereinbefore contained shall become enforceable and the money.

owing shall not be paid in accordance therewith, the Employer may at any time thereafter adopt all or any of the following courses as he may deem best:

1. Seize and utilise the said materials or any part thereof in the completion of the said works on behalf of the Contractors in accordance with the provisions in that behalf contained in the said agreement debiting the Contractor with the actual cost of effecting such completion and the amount due in respect of advances under these presents and crediting the Contractors with the value of work done as if he had carried it out in accordance with the said agreement and at the rates thereby provided. If the balance is against the Contractors, they are bound to pay the same to the Employer on demand.
2. Remove and sell by public auction the seized materials or any part thereof and out of the moneys arising from the sale retain all the sums aforesaid repayable or payable to the Employer under these presents and pay over the surplus (if any) to the Contractors.
3. Deduct all or any part of the money owning out of Security Deposits or any sum due to the Contractor under the said agreement.
4. That except in the event of such default on the part of the Contractors as aforesaid, no interest shall be payable on the said advance.
5. That in the event on any conflict between the provisions of these presents and the said agreement, the provisions of these presents shall prevail and in the event of any dispute or difference arising over the construction of effect of these presents the settlement of which has not been herein before expressly provided for the same shall be referred to the Officer-in-Charge, Premises Department, Mumbai, whose decision shall be final and no appeal shall lie against his decision before any court, arbitrator or authority.
6. The provision of this Undertaking shall be deemed to be supplemented to the said agreement.

IN WITNESS WHEREOF the Contractors have set their hands to these presents the day and year first hereinabove written.

Witness Signature

Name

Address

Witness Signature

Name

Address