

**Reserve Bank of India**

**Kolkata**

**Tender Notice**

1.	Sealed tenders in two parts are invited for <b>Renovation (Civil Sanitary and plumbing, Interior decoration, false ceiling Works) of 5th floor at Bank's Main Office Premises, Kolkata.</b> The work is estimated to cost <b>Rs 87.34 lakh</b> and is to be completed within <b>6</b> months.
2.	Only those contractors who have minimum 5 years of experience in the field of undertaking Civil, <b>Sanitary and plumbing, Interior decoration, false ceiling etc</b> and <b>have</b> executed two or more similar works individually costing not less than <b>Rs. 44 lakh</b> during last <b>5</b> years and have a minimum yearly turn over of <b>Rs.26 lakh</b> during the last <b>5</b> years, will be considered for the work.
3.	The tender forms will be issued only to those contractors who invariably furnish, at the time of applying for purchase of tender-forms, the following information in writing /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 detail should be submitted along with name(s) and address(es) of the partners, copy of the Articles of Association/ power of Attorney/any other relevant document.
(b)	Work experience & Completion of similar works of specified value during the specified period	Copies of the detailed work orders 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 enclosed 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)	Creditworthiness of the contractor & their Turn over 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 their creditworthiness and turnover for last three years.
(d)	Service Set-up	Certificate from the manufacturers/any other valid document in support of having a full fledged service setup at the desired place should be enclosed. (if required)
(e)	Name(s) and address(es) of the Bankers and their present contact executives	Written information about the names and addresses of their bankers 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 their bankers by the Bank in case it is so needed) should be furnished.
(f)	Details of bank accounts	Full particulars of their bank accounts, like account no., type, when opened, etc.should be given.
(g)	Name(s) and address(es) of the Clients and their present contact executives	Written information about the names and addresses of their clients 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 their clients by the Bank in case it is so needed) should be furnished.
(h)	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 furnished.

4.	In the event of intending tenderers' failure to satisfy the Bank; the Bank reserves the right to refuse issuance of tender forms/documents to them.
5.	Tender forms will be issued by the office from <b>08.08.2008</b> to <b>29.08.2008</b> on a non-refundable payment of <b>Rs.1000/-</b> per set in cash/ Demand Draft favouring Reserve Bank of India payable at <b>Kolkata</b> . The tenderers are requested to depute their authorized representative for a <b>Pre-bid meeting</b> to be held at 3.00 p.m. on 04.09.2008 to obtain any clarification before submission of tender.
6.	Tender forms can also be downloaded from the website <a href="http://www.rbi.org.in">www.rbi.org.in</a> . In case of downloaded documents, the said non-refundable sum of Rs.1000/- in the form of Demand Draft favouring Reserve Bank of India payable at <b>Kolkata</b> along with all the information/documents, mentioned in para 3 above, will have to be submitted in a sealed cover addressed by name to <b>Shri B.Mahapatra, Regional Director Reserve Bank of India, 4<sup>th</sup> floor, Estate Department, 15 N.S. Road, Kolkata 700001</b> up to 2:00 p.m. on <b>09.09.2008</b> for Bank's examination. These separate sealed covers shall be opened on the same day for scrutiny. After scrutiny, if the any of the contractors are not found to posses the required eligibility, their tenders will not be opened by the Bank for further processing.
7.	Tender in prescribed form shall be submitted in two parts. Part-I tender will contain the Bank's standard technical and commercial conditions for the proposed work, tenderers' covering letter, tenderers' additional conditions, if any, and the EMD of Rs. 1.75 lakh in 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 or a demand draft favouring Reserve Bank of India payable at <b>Kolkata</b> and be sealed (in duplicate) in one cover, superscribing "Part – I Tender for <b>Renovation (Civil Sanitary and plumbing, Interior decoration, false ceiling works) of 5<sup>th</sup> floor at Banks Main Office Premises ,Kolkata</b> ". Part II tender will contain no conditions but Bank's schedule of quantities, tender drawings, if any, and tenderers' priced bid only and be sealed (in duplicate) in a separate cover, superscribing "Part – II Tender for <b>Renovation (Civil, Sanitary and plumbing, Interior decoration, false ceiling works) of 5<sup>th</sup> floor at Banks Main Office Premises ,Kolkata</b> ". Both these sealed covers will further be sealed in another envelope addressed by name to <b>Shri B.Mahapatra, Regional Director, Reserve Bank of India, 4<sup>th</sup> floor, Estate Department,15 N .S. Road, Kolkata 700001</b> will be received by the Bank up to 2:00 p.m. on <b>09.09.2008</b> in the manner described in the tender-form.
8.	Part I of the tenders will be opened at 3:00 p.m. on <b>12.09.2008</b> in the presence of <b>the authorized</b> representative (along with letter of authority) of the tenderers who choose to be present. Part II of the tender will be opened on a subsequent date, which will be intimated to the tenderers in advance.
9.	The Bank shall obtain reports on past performance of the tenderer from his clients and bankers. The Bank shall evaluate the said reports before opening of the Part – II of the tenders. If any tenderer is not found to posses 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 are found unsatisfactory, the Bank reserves the right to reject his offer even after opening of Part - I of the tender and his sealed cover containing Part-II of the tender along with EMD shall be returned back to him as it is. The Bank is not bound to assign any reason for doing so.
10.	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 therefor.

**Part- I**

**RESERVE BANK OF INDIA  
ESTATE DEPARTMENT  
KOLKATA**

**PROPOSED TENDER FOR**

Renovation Works in 5<sup>th</sup> floor  
of  
Banks Main office Building Kolkata

AT

**Banks Main office Premises, Kolkata.**

Name of Tenderer \_\_\_\_\_

Address \_\_\_\_\_

Ph: No: \_\_\_\_\_

Due Date of Submission: 09.09.2008

**RESERVE BANK OF INDIA  
ESTATE DEPARTMENT  
KOLKATA**

**PROPOSED TENDER FOR  
Renovation Works in 5<sup>th</sup> floor  
of  
Banks Main office Building Kolkata**

AT

**Bank's Main office Premises, Kolkata.**

<b>SI No</b>	<b>Index</b>
1	Tender forwarding letter
2	Form of tender
3	Articles of agreement
4	Draft of Bank Guarantee for Earnest Money Deposit
4	General instructions to contractors and special conditions
5	Safety code
7	The conditions hereinbefore referred to
8	Appendix hereinbefore referred to
9	Special instructions
10	General Specifications
11	Technical Specifications
12	List of Approved materials



## Tender Forwarding Letter

To,

Place :

Date :

Dear Sir,

### **Renovation Works in 5th floor of Banks Main office Building Kolkata**

The Reserve Bank of India, hereby, invites you to tender for the above work.

2. The tender forms can be had from Estate Department , 4<sup>th</sup> floor Reserve Bank of India, 15 N S Road, Kolkata –700 001 on payment of Rs. 1000/- up to 26.08.2008 during normal working hours. Your tender duly filled in, signed and sealed, should be addressed to **Shri B. Mahapatra, Regional Director**, Estate Department, Reserve Bank of India, 15 N S Road, Kolkata 700 001 by name as so to reach him not later than 2 P.M. on **09.09.2008**. The tenderes are requested to depute their authorized representatives for a pre bid meeting to be held on **04.09.2008** to obtain any clarifications before submission of their tenders.

3. The Bank discourages the stipulation of any additional conditions by the tenderer. However, in case the tenderer wishes to include any condition/clarification/covering letter while tendering for the work, he will have to submit the same in duplicate along with Part I of tender in a separate sealed cover. The part II of tender in duplicate duly filled in as such without any enclosure shall have to be submitted in another sealed cover clearly indicating thereon as to which cover contains the Part I and which contains Part II of tender. The cover containing the forwarding letters/Demand Draft (EMD)/clarification/condition called Part-I will be opened on 04.09.2008at 3:00 PM on the schedule date of opening of the tenders in the presence of tenderers or their authorized representatives who shall be in a position to clarify all the conditions stipulated by the tenderers. The clarifications/conditions etc. if any will be examined and after discussions with all the tenderers, the conditions that are acceptable to the Bank will be intimated to the tenderers. The tenderer shall withdraw all his conditions, which are not acceptable to the Bank and can in lieu quote a percentage above or below or at par with their tendered amounts already submitted in a separate sealed cover, called as part-II of the tender. The quoting of such a percentage above or below or at par with their tendered amount shall have a definite bearing on the condition/s the tenderers have to withdraw or additional benefit liable to be received as per conditions accepted by the Bank. The above letter containing should be submitted in duplicate in a sealed cover on or before a date fixed subsequently and advised to the tenderers. This letter

together with the second sealed cover containing the tender called Part-II will be opened in presence of the representatives of contractors/firms on the due date advised.

4. Please note that this letter will form part of the contract document and that the contents of this letter shall be supplemental to the conditions in the tender and not in derogation thereof except to the extent specifically provided herein.

5. Bank reserves the right to accept or reject any or all the tenders, either in whole or in part, without assigning any reasons for doing so.

Yours faithfully

Regional Director, West Bengal & Sikkim

## Form of Tender

**Shri B. Mahapatra  
Regional Director  
Estate Department  
Reserve Bank of India  
Kolkata 700001**

Place:

Date:

Dear Sir,

Having examined the drawings, specifications, designs and schedule of quantities relating to the works specified in the memorandum hereinafter set out and having examined the site of the works specified in the said memorandum and having acquired the requisite information relating thereto as affecting the tender, I/W hereby offer to execute the works specified in the said memorandum within the time specified in the said memorandum at the rates mentioned in the attached schedule of quantities and in accordance in all respects with the specifications, designs, drawings and instructions in writing referred to in Conditions of Tender, the Articles of Agreement, Special Conditions, Schedule of Quantities and Conditions of Contract and with such materials as are provided for, by and in all other respects in accordance with such conditions so far as they may be applicable.

### **Memorandum**

(a)	Description of work	Renovation Works in 5 <sup>th</sup> floor of Banks Main office Building Kolkata
(b)	Estimated cost (Rs.)	87.34 Lakhs
(c)	Earnest Money (Rs.)	1.75 Lakhs
(d)	Percentage, if any, to be deducted from bill	5%
(e)	Time allowed for completion of the works from tenth day after the date of written order to commence work	Six (6) Calendar months

2. Should this tender be accepted, I/We hereby agree to abide by and fulfill the terms and provisions of the said Conditions of Contract annexed hereto so far as they may be applicable or in default thereof to forfeit and pay to the Reserve Bank of India the amount mentioned in the said conditions.



3. I/We have deposited a sum of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) as Earnest Money with the Reserve Bank of India, which amount is not to bear any interest. Should I/We fail to execute the contract when called upon to do so, I/We do hereby agree that this sum shall be forfeited by me/us to the Reserve Bank of India.
4. The lists showing the particulars of large works carried out and the names of manufacturers of specialized items as required under clauses 17(page 17) and 25(page 22) of the Special Conditions are enclosed.
5. Turnover of the firm for the last 3 years (year wise) is as under:

Year	Turnover
2001 – 2002	
2002 - 2003	
2003 - 2004	
2005 - 2006	

6. The particulars of our clients for which we have carried out works as per the eligibility criteria for the tenderers are as under:

(Note: Please attach separate sheets for each client)

	Client 1	Client 2	Client 3
Name of the Client and its complete Postal Address:			
Name and Job-title of the Contact Person (under whom the work(s) have been carried out) along with his/her Telephone No(s)., Fax No(s)., etc.			
Project name, location and address			
Name(s) and the Value(s) of the work(s) awarded.			
Date(s) of award and the scheduled date(s) of completion of the work(s)			
Value(s) of the work(s) executed / completed satisfactorily along with date(s) of virtual completion of the work(s)			
Time allowed for completion and actual time taken. Reasons for the delay, if any, and whether any penalty was imposed on the firm?			

Whether supervision was done departmentally by the technical employees of the client or by the Project Management Consultants / Architects appointed by them?			
Whether any kind of litigation / Arbitration was resorted to for finalising the payments / considerations?			
Any other information about your client which you consider will be useful for us.			

14. Technical set up of our firm is as under:

Strength of qualified/ skilled persons	
No. of persons qualified for project management techniques viz. PERT, CPM and re-scheduling the activities etc. for timely completion of the project.	
No. of qualified graduate Engineers having experience not less than 5 years to supervise the manufacturing of furniture at works.	
No. of managerial staff as graduates and each having experience not less than 10 years of resource planning, material management etc at works.	
No. of qualified engineering graduate/ diploma holders each having experience not less than 5 years expected to supervise the work at site for timely completion of work..	
No. of skilled workmen and semi-skilled helpers expected to assemble the furniture at site for timely completion of work.	
No. of un-skilled labourers expected to handle the materials at site for timely completion of work.	

8. Our bankers are (full address)

(i)	
(ii)	

The names of partners of our firm are :

(i)	
(ii)	

Name of the partner of the firm authorized to sign	
OR	
Name of person having power of Attorney to sign the Contract (certified true copy of the Power of Attorney should be attached)	

Yours faithfully,

Signature of Contractor

Signatures and addresses of witnesses

	Signature	Address
(i)		
(ii)		

## Articles of Agreement

ARTICLES OF AGREEMENT made on the \_\_\_\_\_ day of \_\_\_\_\_ between the Reserve Bank of India, having its Central Office at Mumbai 400001 (hereinafter called "the Employer") of the one part and M/s. \_\_\_\_\_ (hereinafter called "the Contractor") of the other part.

WHEREAS the Employer is desirous of carrying out Proposed **Renovation Works in 5<sup>th</sup> floor of Bank's Main office Building Kolkata** and has caused drawings and specifications describing the works to be done to be prepared by Project Management Cell (EZ) , RBI Kolkata its Architects.

AND WHEREAS the said Drawings numbered as given in Annexure –A inclusive of the Specifications and the Schedule of Quantities have been signed by or on behalf of the parties hereto.

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 considerations of the said Contract Amount to be paid at the times and in the manner set forth in the said Conditions, the Contractors 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 Employer 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 "Architect" in the said Conditions shall mean M/s. Acme Consultants Pvt. Ltd.10, Middleton Row Kolkata 700 071, for the purpose of architectural planning and designing etc. of the buildings/structures to be constructed under this contract. In the event of their ceasing to be Architects for the work mentioned in this contract for whatever reason such other person or persons as shall be nominated by the Employer for that purpose will function as "Architects".

3(a)	The Reserve Bank of India will administer and directly arrange for supervision of works, certification of bills, making payments and implementation of various terms, conditions and stipulations of the contract (except for the scope of work as defined under clause 3 above). For this purpose the term "Architect" in the said conditions regarding execution of work, quality of construction, quality of materials, progress and completion of the project etc. shall mean the General Manager (Tech) 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 "Architect" shall be read as Principal Chief Engineer/ Officer-in-Charge of Premises Department, Reserve Bank of India, Central Office, Mumbai.
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 and perform the agreements on their part respectively in the said Conditions contained.
5.	The term "Structural Consultant" refers to General Manager (Tech) or in the event of their ceasing to be the Consultants for this project, such other person or persons as may be appointed by the Architect with the approval of the Employer.
6.	The plans, agreement and documents mentioned herein shall form the basis of this Contract.
7.	This Contract is neither a fixed Lump Sum Contract nor a Piece Work Contract but a Contract to carry out the work in respect of the entire renovation at 8 <sup>th</sup> floor to be paid for according to actual measured quantities at the rate contained in the Schedule of rates and Probable Quantities or as provided in the said Conditions.
8.	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, lifts, telephone, air conditioning 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.
9.	The Employer 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.
10.	Time shall be considered as the essence of this Contract and the Contractor hereby agrees to commence the work soon after the site is handed over to him or from tenth day after the date of issue of formal work order as provided for in the said Conditions whichever is later and to complete the entire work within 4 calendar months subject nevertheless to the provisions for extension of time.
11.	All payments by the Employer under this Contract will be made only at Kolkata
12.	All disputes arising out of or in any way connected with this agreement shall be deemed to have arisen at Kolkata and only Courts in Kolkata shall have jurisdiction to determine the same.

13.	That the several parts of this Contract have been read by the Contractor and fully understood by the Contractor. The Contractor shall not be entitled for the payment for the quantities beyond the tendered quantities unless ordered for by specific written instructions from the Bank's Senior Engineer.
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IN WITNESS WHEREOF the Employer and the Contractor have set their respective hands to these presents and two duplicates hereof the day and year first hereinabove written.	If the contractor is a partnership or an individual.
IN WITNESS WHEREOF the Employer has set its hands to these presents through its duly authorized official and the Contractor has caused its common seal to be affixed hereunto and the said duplicate/ has caused these presents and the said two duplicate 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	
<i>(Name and designation)</i>	
In the presence of	
(1)	
Address	
(2)	
Address	
Witness	
SIGNED AND DELIVERED by	If the party is partnership firm or an individual should be signed by all or on behalf of all the partners.
In the presence of	
(1)	
Address	
(2)	
Address	
Witness	
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	If the Contractor signs under its common seal, the signature clause should tally with the sealing clause in the Articles of Association.
(1)	
(2)	
SIGNED AND DELIVERED BY the Contractor by the hand of Shri _____ and duly constituted attorney.	If the Contractor is signing by hand of power of Attorney, whether a company or individual.

Draft of Bank Guarantee for Earnest Money Deposit  
(To be stamped as Security Bond)

In consideration of Reserve Bank of India, Kolkata (hereinafter called "the Reserve Bank") having agreed to exempt M/s.

\_\_\_\_\_ (hereinafter called "the said tenderer") from the demand under the terms and conditions of the tender for Renovation Works in 5<sup>th</sup> floor of Banks Main office Building Kolkata (hereinafter called "the said tender") of Earnest money for the due fulfilment by the said tenderer of the terms and conditions contained in the said tender on production of a Bank guarantee for Rs. -----We (hereinafter referred to as "the Bank") do hereby agree and undertake to indemnify and keep indemnified the Reserve Bank of India to the extent of Rs. ----- against any loss or damage caused to or suffered by the Reserve Bank of India by reason of any breach by the said tenderer of any of the terms and conditions contained in the said tender and pay to the Reserve Bank of India on demand without

demur the said sum of Rs. ----- within a period of one week from the date of receipt of demand from the Reserve Bank of India. Any statement made by the Reserve Bank of India and the amount mentioned in the demand notice given to us shall not be called in question by us and shall be conclusive proof regarding the amount that is payable under the guarantee and that we shall not demand any proof thereof. We further undertake that we will make the payment pursuant to the demand notice issued by the Reserve Bank of India notwithstanding any dispute that may exist or arise between the Reserve Bank of India and the tenderer or any other person.

We, \_\_\_\_\_, further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said tender and that it shall continue to be enforceable till all the dues of the Reserve Bank under or by virtue of the said tender have been fully paid and its claims satisfied or discharged or till the Reserve Bank certifies that the terms and conditions of the said tender have been fully and properly carried out by the said tenderer and accordingly discharges the guarantee subject however, that the Reserve Bank of India shall have no rights under this guarantee after the expiry of ----- or till such extended period required for completion of the entire work at the request of the tenderer and/or the Reserve Bank of India.

We, \_\_\_\_\_, lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Reserve Bank of India in writing.



Notwithstanding anything stated above, our liability under this guarantee is restricted to Rs. ----- Our guarantee shall remain in force until 6 months or such extended date which may be granted by us at the request of the tenderer and/or the Reserve Bank of India. Unless a suit or action to enforce a claim under this guarantee is filled against us within \_\_\_\_\_ thereafter, all your rights under the said guarantee shall be forfeited and we shall be released and discharged from all liability there-under.

**General Instructions to Contractors and Special Conditions**

1.	Sealed tenders in two parts should be addressed to Shri B Mahapatra, Regional Director, Project Management Cell (EZ) , 4 <sup>th</sup> floor, Reserve Bank of India , 15 N S road, Kolkata (by name) and super scribed “Renovation Works in 5 <sup>th</sup> floor of Banks Main office Building Kolkata ” and sent so as to reach him not later than 2 pm on 09.09.2008.
2.	No tender will be received after 2 pm on <b>09.09.2008</b> under any circumstances whatsoever.
3a	<p>The Part I of tenders will be opened at 3 pm on 12.09.2008 this office by Shri B. Mahapatra, Regional Director, Estate Department, 4th floor, Reserve Bank of India , Kolkata</p> <p>The Bank discourages the stipulation of any additional conditions by the tenderer. However in case the tenderer wishes to include any condition/clarification/covering letter while tendering for the work, he will have to submit the same in duplicate along with Part I of tender in a separate sealed cover. The part II of tender in duplicate duly filled in as such without any enclosure shall have to be submitted in another sealed cover clearly indicating thereon as to which cover contains the Part I and which contains Part II of tender. The cover containing the forwarding letters/Demand Draft (EMD)/clarification/condition called Part-I will be opened on 12.09.08 at 3:00 PM on the schedule date of opening of the tenders in the presence of tenderers or their authorized representatives (along with the letter of authority) who shall be in a position to clarify all the conditions stipulated by the tenderers. The clarifications/conditions etc. if any will be examined and after discussions with all the tenderers, the conditions that</p>

	<p>are acceptable to the Bank will be intimated to the tenderers. The tenderer shall withdraw all his conditions, which are not acceptable to the Bank and can in lieu quote a percentage above or below or at par with their tendered amounts already submitted in a separate sealed cover, called as part-II of the tender. The quoting of such a percentage above or below or at par with their tendered amount shall have a definite bearing on the condition/s the tenderers have to withdraw or additional benefit liable to be received as per conditions accepted by the Bank. The above letter containing should be submitted in duplicate in a sealed cover on or before a date fixed subsequently and advised to the tenderers. This letter together with the second sealed cover containing the tender called Part-II will be opened in presence of the representatives of contractors/firms on the due date advised.</p>
3b	<p>Tenders shall remain open to acceptance by the Bank for a period of three months from the date of opening the Part II of the tender which period may be extended by mutual agreement and the tenderer shall not cancel or withdraw the tender during this period.</p>
3c	<p>The tenderer must use only the forms issued by the Bank to fill in the rates.</p>
4a	<p>The tender form must be filled in Hindi/English and all entries must be made by hand and written in ink. If any of the documents is missing or unsigned, the tender may be considered invalid by the Bank at its discretion.</p>
4b	<p>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 tenderer. Overwriting of figures is not permitted and failure to comply with either of these conditions will render the tender void at the Bank's option. No advise of any change in rate or conditions after the opening of the tender will be entertained.</p>
4c	<p>Each of the tender documents should be signed by the person or persons submitting the tender in token of his/their acquainted himself/themselves with the General Conditions of Contract, Specifications, Special Conditions, etc. as laid down. Any tender with any of the documents not signed will be rejected.</p>
4d	<p>The tender 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.</p>

5.	The Reserve Bank of India does not bind itself to accept, the lowest or any tender and reserve to itself the right to accept or reject any or all the tenders, either in whole or in part, without assigning any reasons for doing so.
6a	Intending tenderers shall pay as Earnest Money Deposit a sum of <b>Rs. 1.75Lacs</b> by a demand draft issued by a Scheduled Bank in favour of <b>Reserve Bank of India, Kolkata</b> . Or in 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 on page 12 . Demand draft may be directly attached to the tender. A tender, which is not accompanied by such demand draft as earnest money, will not be considered. The Earnest Money will be refunded to the tenderer if his tender is not accepted but without any interest.
6b	Under no circumstances Earnest Money Deposit will be accepted in the form of fixed deposit receipt of Bank or Insurance Guarantee or cheque.
7.	The Earnest Money Deposit of <b>Rs.1.75</b> Lacs paid by the successful tenderer when he submitted his tender shall be held by the Reserve Bank of India as security for the execution and due fulfillment of the contract. No interest shall be paid on the said deposit.
8.	On receipt of intimation from the Employer of the acceptance of his/their tender, the successful tenderer shall be bound to implement the contract and within fourteen days thereof the successful tenderer 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.
9a	In addition to the Earnest Money Deposit under Clause 7 and as further security for the due fulfillment of the contact by the Contractor 5% of the value of the work done will be deducted by the Employer from each payment to be made to the Contractors towards Retention Money until the Retention Money and Earnest Money Deposit together amounts to <b>Rs. 1.75 lacs</b> . This total amount will be termed as Security Deposit. On the Architects' issuing a certificate of the completion of the works, the contractor would be paid the Earnest Money deposit and the remaining Security Deposit will be

	released by the Employer after rectification of the defects pointed out during the Defects Liability Period. The amounts retained by the Employer shall not bear any interest
9b	All compensation or other sums of money payable by the Contractor to the Employer under the terms of this Contract may be deducted from the security deposit if the amount so permits and the Contractor shall, unless such deposit has become otherwise payable, within ten days after such deduction make good in cash the amount so deducted.
10.	The Contractor shall not assign the Contract. He shall not sublet any portion of the Contract except with the written consent of the Employer. In case of breach of these conditions, the Employer may cause the Principal Chief Engineer of the Bank to serve a notice in writing on the Contractor rescinding the Contract whereupon the security deposit shall stand forfeited to the Employer.
10a	In partial modification to Clause No.10 above, the sanitary and plumbing installation work if any , however, shall have to be got executed only through a specialized firm possessing necessary license from the local Municipal Authorities/ other local Statutory Authorities like Director of Fire Services, Water Board etc. and for this purpose the tenderers shall furnish along with their tender, a short list of firms for organising sanitary and plumbing installations in the works executed and through one of such firms in the list as approved by the Bank.
11.	The Contractor shall carry out all the work strictly in accordance with drawings, details and instructions of the Architect and the Structural Consultant. If in the opinion of the Architect or the Structural Consultant changed have to be made in the design and with the prior approval in writing of the Employer they desire the Contractor to carry out the same, the Contractor shall carry out the same without any extra charge. The Architect's decision in such cases shall be final and shall not be open to arbitration.

12.	A Schedule of Probable Quantities in respect of each work and Specification accompany these Special Conditions. The Schedule of Probable Quantities is liable to alteration by omissions, deductions or additions at the discretion of the Architect. Each tender should contain not only the rates but also the value of each item of work entered in a separate column and all the items should be totaled in order to show the aggregate value of the entire tender.
13.	The tenderer 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 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 appertaining thereto.
14.	The rates quoted in the tender shall include all charges for clearing of site before commencement as well as after completion, water, electric consumption, meters, double scaffolding, centering, boxing, staging, planking, timbering and pumping out water including bailing, fencing, hoarding, plant and equipment, storage sheds, watching and lighting by night as well as day including Sundays and holidays, temporary plumbing and electric supply, protection of the public and safety of adjacent roads, streets, cellars, vaults, ovens, pavements, walls, houses, buildings and all other erections, matters or things and the Contractor shall take down and remove any or all such centering, scaffolding, staging, planking, timbering, strutting, shoring etc. as occasion shall require or when ordered so to do and fully reinstate and make good all matters and things disturbed during the execution of work and to the satisfaction of the Architects. The rates quoted shall be deemed to be for the finished work to be measured at site. The rates shall also be firm and shall not be subject to exchange variations, labour conditions, fluctuations in railway freights or any conditions whatsoever. Tenderers must include in their rates sales tax, excise duty, octroi, sales tax on works contract and any other tax and duty or other levy levied by the Central Government or any State Government or local authority, if applicable. No claim in respect of sale tax, excise duty, octroi and other tax, duty or levy whether existing or future shall be entertained by the Employer.

	<p>a) In addition to the Income Tax and other statutory deductions at source, MVAT will be deducted at the rate of 2% where the contractor is registered under MVAT act and 4% if the contractor is not registered.</p> <p>The contractor shall consider MVAT at the prevailing rate while quoting their rates for various items and no claim in this regard shall be considered by the Bank at any stage.</p>
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15.	<p><b>The Contractor should note that unless otherwise stated, the tender is strictly on item rates basis and his attention is drawn to the fact that rates for each and every item should</b></p> <p><b>executed, by the authority of the Architects of the project and with the concurrence of the employer, 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 <u>actual cost basis</u> plus 15% towards establishment charges, contractor's overhead and profit. The rates for all such items of work, being current ones, will not be eligible for price adjustment 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 employer, the contractor shall not be entitled to any claim on this account."</b></p>
16.	<p>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 10<sup>th</sup> day after written order to commence the work, is issued.</p>
	<p>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 26 of the Conditions of Contract. The tenderer shall before commencing work prepare a detailed work programme which shall be approved by the Architect and employer.</p>

17.	Tenders will be considered only from recognized bonafide Contractors in trade concerned. Each tenderer shall submit with his tender a list of large works of a like nature he has executed giving details as to their magnitude and cost the proportion of work done by the Contractor in it and the time within which the works were completed.
18.	The Contractor shall not be entitled to any compensation for any loss suffered by him on account of delays in commencing or executing 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 Employer shall not be liable for any claim in respect thereof. The Employer does not appear liability for any sum besides the tender amount, subject to such variations as are provided for herein.
19.	The successful tenderer 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 Employer.
20.	The successful tenderer must co-operate with the other Contractors appointed by the Employer so that the work shall proceed smoothly with the least possible delay and to the satisfaction of the Architects.
21.	The Contractor must bear in mind that all the work shall be carried out strictly in accordance with the Specifications made by the Architects and also in compliance of the requirements of the local public authorities and to the requirements of the Structural Consultant and no deviation on any account will be permitted.
22a	The successful tenderer for General Building Work should make his own arrangement to obtain all materials required for the work including cement and steel.

22b	<p>In case during the currency of the Contract aggregate of the selling prices of approved authorized stockists, the excise duty, sales tax, octroi and all other duties levied by the Government or any public body goes above the basic prices of cement and steel referred to in sub-clause (b) above, the excess shall be borne by the Employer but the Contract shall not in any way be entitled to any sums by way of overhead costs, profits or otherwise whatsoever in respect of such excess, should this aggregate go below the said basic prices, the benefit shall go to the Employer, and in either case the corresponding adjustment shall be made in the Contractor's bill on production of all necessary vouchers duly certified by the Architects. Wastage in cement and steel shall be on the Contractors account. The Employer may, however in his absolute discretion, allow adjustment on account of price fluctuation, on the basis of material available to him which will be upto maximum of 5% of the billed quantities in the case of wastage of steel and upto the maximum of 3% of the theoretical consumption worked out based on the theoretical cement consumption factors adopted by CPWD. For items, which are not covered in the statement of the CPWD, coefficients as indicated in ACC handbook or as derived on the basis of theoretical calculations may be adopted for determining the wastage of cement. AS regards cement, in addition to keeping the Assistant Engineer posted with periodical purchase by production of invoices, the Contractor shall also furnish to him for his record the daily consumption of cement. Adjustment in prices on account of cement shall be made only in respect of cement to be used on the site. It is clarified that no adjustment shall be made in respect of cement used or to be used in the manufacture of tiles, jail, pipes and other manufactured items whatsoever.</p>
	<p>Similarly, the adjustment in prices for steel shall be made only for the steel to be used in RCC works. It is clarified that no adjustment shall be made in respect of items such as steel grills window/ventilator bars, doors, hoop iron or MS rods for partitions, wall plates for water tanks and other manufactured items whatsoever.</p>
	<p>The Bank will not accept cut pieces of steel bars less than 3 meters in length from the Contractors.</p>



22c	If the wastage of steel is found to be more than allowable percentage viz. more than 5% and wastage in cement if found to be more than 3% of the theoretical consumption and/or if the steel and/or cement is found to be misused by the Contractors for any reason whatsoever, the cost involved in such excess consumption and/or misuse shall be recovered from the Contractors at double the market rate of the material at the time of recovery or at double the actual purchase rate by the Bank whichever is higher.
22d	The Contractor shall pay and bear the cost of loading and unloading the cement and steel and transporting the same to the site as well as weighment and storage and all other charges and expenses whatsoever required for the completion of the items of work.
22e	That in case the Employer is able to arrange for steel and/or cement for the works either from its own stocks or from the manufacturers or stockists or suppliers or otherwise the Contractor shall use the same in the works if so directed by the Architects.
22f	The successful tenderer is bound to purchase the required materials for which the "Basic Price" has been stipulated (viz. as in the case "b" above) from the dealer or supplier approved and selected by the Bank and at the rate approved by the Bank from time to time.
23.	The successful tenderer should make his own arrangements to obtain all materials required for the work including cement and steel.
23a	In terms of this, procurement of materials for the work including cement and steel is the responsibility of the Contractors. While there will be no change in this condition, the Employer proposes to place order directly on supplier/ dealer on the basis of quotations approved by the Bank and to make direct payment to suppliers of cement and steel and progressively deduct the amount from the running account bills of the Contractors subject to their furnishing and undertaking on stamped paper as per proforma
24.	The tenderer shall have to use materials of the makes/manufacturers specified in the list of material of approved brand and/or manufacture contained in this tender form.

25a	<p>The rate quoted by the Contractor shall include expenditure for providing all the water required for the work and the Contractor shall make his own arrangements for the supply of good quality water, including obtaining Municipal connection for his labour as well as for construction purpose and all charges for water shall be borne by him. If Municipal water is not available and should it become necessary for Contractor to bore well for obtaining water for construction purposed or to bring water from outside by tankers, the Employer shall not be liable to pay any charges in connection therewith.</p>
25b	<p>The rate quoted in the tender shall also include electric consumption charges for power. If no power is available at the site, the Contractor shall have to make his own arrangements to obtain power connections and maintain at his own expense an efficient service of electric light and power and shall pay for the electricity consumed. The Employer, as well as the Architect, shall give all possible assistance to the Contractor to obtain the requisite permission from the various Authorities, but the responsibility for obtaining the same shall be that of the Contractor.</p>
25c	<p>For water and electricity the Contractors for subsidiary trades appointed by the Employer shall be entitled to take connections from the temporary water and electric supply connection obtained by the General Building Contractor, at his cost. The subsidiary Contractors shall install a sub-meter for measuring electric consumption at their own cost and maintain the wiring installation in good condition as per the local rules and reimburse the actual consumption charges directly to the General Building Contractor. For water consumption, proportionate charges for consumption will be reimbursed by the sub-contractor to the General Building Contractor. In case of any dispute, the reimbursement charges shall be decided by the Architects, whose decision shall be final and without appeal.</p>
	<p>If no such facility is available at the site of work and if available and found inadequate, it shall be the responsibility of the Contractor to make his own arrangements for obtaining water and power at his cost.</p>

26.	All Municipal fees for drainage and water connection for construction purposes shall be borne by the Contractor and fees if any payable for permanent connections shall be initially paid by the Contractor and the Employer will reimburse the amount on production of receipts.
	Electric supply connection fees for the permanent supply will be paid by the employer to the electric supply authority.
27.	The Contractor shall strictly comply with the provision of safety code annexed hereto.
28.	IS Code numbers wherever mentioned in the tender shall be the latest version of IS codes as on the date of opening of tenders.
29.	The successful tenderer shall be required to submit the PERT/CPM chart for the various activities involved in this work including dependencies etc. and regularly monitor the progress of construction accordingly.
30.	The security deposit of the successful tenderer will be forfeited if he fails to comply with any of the conditions of the Contract.
31.	<u>Contractor to inform himself fully</u>
	The Contractor shall be deemed to have carefully examined the work and sited conditions including labour, the general and special conditions, the specifications, schedules and drainage and shall be deemed to have visited the site of work, to have fully informed himself regarding the local conditions and carried out his own investigations to arrive at the rates quoted in the tender. In this regard he will be given necessary information available with the department but without any guarantee about its accuracy.
	If the contractor shall have any doubt as to the meaning of any portion of the general conditions, or the special conditions or the scope of the work or the specifications and drawings or any other matter concerning the contract he shall in good time, before submitting <u>his tender</u> , put forth the particulars thereof and submit them to the Bank, in writing in order that such doubts may be clarified authoritatively in writing <u>before tendering</u> . Once a tender is submitted the matter will be decided according to tender conditions in the absence of such authentic pre-clarification.

32.	Errors, Omission and Descriptions
32a	In case of errors, omissions and/or disagreement between written and scaled dimensions on the drawings or between the drawings and specification etc. the following order of preferences shall apply.
	(i) Between actual scaled and written dimension (or description) on a drawing the later shall be adopted.
	(ii) Between the written or shown description or dimensions in the drawings and the corresponding one in the specification the later shall be taken as correct.
	(iii) Between the written description of the item in the specifications and the detailed descriptions in the schedule of quantities of the same item, the later shall be adopted.
32b	In case of difference between the rates written in figures and words, the rate adopted for working out the total amount of item in the original tender form, shall be taken as correct. In all other cases the correct rate would be that which is lower.
32c	Between the duplicate/subsequent copies of the tender and original tender, the original shall be taken as correct.
32d	In all cases of omissions and/or doubts or discrepancies in any item or specification a reference shall be made to the General Manager (Tech), Project Management Cell (EZ) , 4 <sup>th</sup> floor, Reserve Bank of India, 15 N S Road, Kolkata 700 001 whose elucidation, elaboration or decision shall be considered as authentic. The Contractor shall be held responsible for any errors that may occur in the work through lack of such reference and precaution.

I/We hereby declare that I/we have read and understood the above instructions for guidance of tenderers.

Witness	Signature of tenderer
Date	Date

### Safety Code

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 or 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 or ready made 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.	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.

**The Conditions Hereinbefore referred to**

<b>Interpretation of Clause</b>	
1.	In construing these conditions, the Specifications, Schedule of Quantities and Contract Agreement, the following words shall have the meanings herein assigned to them except where the subject or context otherwise requires.

(a)	Employer	Shall mean The Reserve Bank of India and shall include its assignees and successors
(b)	Contractor	
	In the case of a partnership firm	Contractor shall mean _____ _____ _____ and _____ trading as partners in the name and style of _____ _____ _____ and having a place of business at _____ _____ and shall include the partners for the time being of the said firm and the legal representatives of a deceased partner.
	In the case of individual	Contractor shall mean _____ _____ trading in the name and style of _____ _____ _____ and shall include his heirs, successors and legal representatives.

	In the case of company	Contractor shall mean _____ _____ a company incorporated under _____ and having its registered office at _____ and shall include its successors and assignees.
(c)	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 Employer for the Contractor's use.
(d)	This Contact	Shall mean the Articles of Agreement, the Special Conditions, the Conditions, the Appendix, the Schedule of Quantities and Specification attached hereto and duly signed.
(e)	Notice in writing	Or written notice shall mean a notice in written, typed or printed characters sent (unless delivered personally or otherwise proved to have been received) by registered post to the last know private or business address or registered office of the addressee and shall be deemed to have been received when in the ordinary course of post it would have been delivered.
(f)	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.
(g)	Net Prices	If in arriving at the contract amount the Contractor shall have added to or deducted from the total of the items in the Tender any sum, either as a percentage or otherwise, then the net price of any item in tender shall be the sum arrived at by adding or deducting from the actual figure appearing in the Tender as the price of that item a similar percentage or determining the percentage or 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.

(h)	Works	Shall mean _____ _____ _____ _____ for the Employer at _____ _____ _____ as provided herein.
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	Words importing persons include firms and corporations. Words importing the singular only also include the plural and vice versa where the context requires.
2.	The Contractor shall carry out and complete the said work in every respect in accordance with this Contract and with the directions of and to the satisfaction of the Architect. The Architect may in his absolute discretion and from time to time issue further drawings and/or written instructions, detailed directions and explanations which are hereafter collectively referred to as "Architect's Instructions" in regard to :
2a	The variation or modification of the design, quality or quantity of works or the addition or omission or substitution of any work.
2b	Any discrepancy in the drawings or between the Schedule of Quantities and/or drawings and/or specification.
2c	The removal from the site of any material brought thereon by the Contractor and the substitution of any other material therefore.
2d	The removal and/or re-execution of any works executed by the Contractor.
2e	The dismissal from the works of any persons employed thereupon.
2f	The opening up for inspection of any work covered up.
2g	The amending and making good of any defects under clause 18 thereof.
	The Contractor shall forthwith comply with and duly execute any work comprised such Architect's instructions provided always that verbal instructions, directions and explanations given to the Contractor or his representatives upon the works by the Architect shall, if involving a variation, be confirmed in writing by the Contractor within seven days, and if not dispensed from in writing within a further seven days by the Architect, such shall be deemed to be Architect's Instructions within the scope of the Contract.
	<b>Variations to be approved by Employer</b>
	Notwithstanding anything herein contained, the Architect or his representative shall not, without the prior concurrence in writing of the Employer, issue any instructions, verbal or in writing, which will result in the Employer having to pay the Contractor an additional sum greater than Rs.2500/- and all instructions issued to the Contractor should forthwith be brought to the notice of the Employer. The Contractor shall submit through the Architect 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 Employer shall form a supplementary tender. The Employer shall not be liable for payment of such variations until these statements are sanctioned by it.



	<b>Drawings and Schedule of Quantities and Agreement</b>
3.	The Contract shall be executed in triplicate and the Architect, the Employer and the Contractor shall be entitled to one executed copy each for his use. The Contractor on the signing hereof shall be furnished by the Architects free of cost one copy of each of the said drawings and of the specification and one copy of all further drawings issued during the progress of the works. 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 Architect or his representative shall at all reasonable time have access to the same. Before the issue of the final certificate to the contractor he shall forthwith return to the Architect all drawings and specifications.
	<b>Contract to provide everything necessary at his cost</b>
4.	The Contractor shall provide at his cost everything necessary for the proper execution of the works according to the intent and meaning of the drawings. Schedule of Quantities and Specification taken together with whether the same may or may not be particularly shown or described therein provided that the same can reasonably be inferred there from 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 same to the Architect who shall decide which is to be followed.
	<b>Authorities, notices and patents</b>
5.	The Contractor shall confirm to the provision of any Act of the Legislature relating to the work, 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 Drawing or Specifications that may be necessitated by so conforming give to the Architect written notice, specifying the variation 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 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 13 thereof.
	The Contractor shall bring to the attention of the Architect all notices required 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 Architect.
	The Contractor shall indemnify the Employer against all claims in respect of patent rights, and shall defend all actions arising from such claims, and shall himself pay all royalties, licence fees, damages cost and charges of all and every sort that may be legally incurred in respect thereof.
	<b>Setting out of works</b>
6.	The Contractor shall set out the works and shall be responsible for the true and 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 Architect.

	<b>Materials and workmanship to confirm to descriptions</b>
7.	All materials and workmanship shall so far as procurable be of the respective kinds described in the Schedule of Quantities and/or Specifications and in accordance with the Architect's instructions, and the Contractor shall upon the request of the Architect furnish him with all invoices, accounts, receipts 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 Architects may require.
	<b>Contractor's superintendence and representative on the works</b>
8.	The Contractor shall give all necessary personal superintendence during the execution of the works, and as long thereafter as the Architect may consider necessary until the expiry 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, qualified and experienced Engineer who shall be constantly in attendance at the works while the men are at work. Any directions, explanations, instructions or notices given by the Architect to such representative shall be held to be given to the Contractor.
	<b>Dismissal of workmen</b>
9.	The Contractor shall on request of the Architect immediately dismiss from the works any person employed thereon by him who may, in the opinion of the Architect, be incompetent or misconduct himself and such persons shall not be again employed on the works without the permission of the Architect.
	<b>Access to works</b>
10.	The Employer, the Architect and their respective representative shall at all reasonable times have free access to the work and/or to the workshops, factories or other places where materials are lying or from which they are being obtained and the Contractor shall give every facility to the Employer, the Architect and their representatives necessary for inspections and examination and test of the materials and workmanship. No person not authorized by the Employer or the Architect except the representatives of public authorities shall be allowed on the works at any time.
	<b>Assistant Engineer/Assistant Executive Engineer</b>
11.	The term "Assistant Engineer/Assistant Executive Engineer" shall mean the person appointed and paid by the Employer and acting under the orders of the Architects to inspect the works in the absence of the Architect, the Contractor shall afford the Assistant Engineer/ Assistant Executive Engineer every facility and assistance for inspecting the works and materials and for checking and measuring time and materials. Neither the Assistant Engineer/ Assistant Executive Engineer nor any representative of the Architect shall have power to set out works or to revoke, alter enlarge or relax any requirements of the Contract, or to sanction any day work, additions, alterations, deviations or omissions or any extra work whatever except in so far as such authority may be specially conferred by a written order of the Architect with the prior concurrence in writing of the Employer.
	The Assistant Engineer/ Assistant Executive Engineer or any representative of the Architect, or the Employer shall have power to give notice to the Contractor or to 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 until the decision of the Architect is obtained. The work will from time to time be examined by the Architect, the Assistant Engineer/ Assistant Executive Engineer or the Architect's representative but such examination shall not in any way exonerate the Contractor

	form 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 Architect.
	<b>Assignment and sub-letting</b>
12.	The whole of the works included in the contract shall be executed by the Contractor and the Contractor or any part/share thereof or any interest therein without the prior written consent of the Employer, 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.
	<b>Alterations, additions, omissions etc.</b>
13.	No alterations, omission or variation shall vitiate this Contract but in case the Architect 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 alteration in the kind or quality of the materials to be used therein and shall give notice thereof 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 any alterations or additions to or omissions from the works or any deviation from any of the provisions of the contract, stipulation, specification or contract drawings without the previous consent in writing of the Architect and the value of such extras, alterations, additions or omissions shall in all cases be determined by the Architect with the prior approval in writing of the Employer in accordance with the provisions of Clause 17 hereof, and the same shall be added to or deducted from the Contract Amount, as the case may be.
	<b>Schedule of Quantities</b>
14.	The Schedule of Quantities, unless otherwise stated shall be deemed to have been prepared in accordance with the standard method of measurement.
	Any error in description or in quantity or in omission of items from the Schedule of Quantities shall not vitiate this contract but shall be rectified and the value thereof, as ascertained under Clause 17 hereof, shall be added to, or deducted, from the Contract Amount (as the case may be) provided that no rectification or errors, if any, shall be allowed in the contractor's Schedule of Rates.
	<b>Sufficiency of Schedule of Quantities</b>
15.	The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the works and of the prices stated in the Schedule of Quantities and/or 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.
	<b>Measurement of Works</b>
16.	The Architect may from time to time intimate to the Contractor and the Employer that he requires the works to be measured and the Contractor shall forthwith attend or send a qualified Agent to assist the Architect or the Architect's representative or the Assistant Engineer/ Assistant Executive Engineer in taking such measurements and calculations and to furnish all particulars or to give all assistance required by any of them.
	Should the Contractor not attend or neglect or omit to send such agent then the measurement taken by the Architect 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.

	The Contractor or his Agent may at the time of measurement take such notes and measurements as he may require.	
	All authorized extra works, omissions and all variations made without the Architect's knowledge, but subsequently sanctioned by him in writing (with the prior approval in writing of the Employer) shall be included in such measurements.	
	<b>Prices for extras etc. ascertainment of</b>	
17.	The Contractor may, when authorized, and shall, when directed, in writing by the Architects with the approval of the Employer 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 addition, omission or variation without such authorisation or direction. A verbal authority or direction by the Architects shall, if confirmed by them in writing within seven days, be deemed to have been given in writing.	
	No claim for an extra shall be allowed unless it shall have been executed under provisions of Clause 5 hereof or by the authority of the Architects with the concurrence of the Employer as herein mentioned. Any such extra is herein referred to as authorized extra and shall be made in accordance with the following provisions.	
17a	(i)	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.
	(ii)	Rates for all items, wherever possible, should be derived out of the rates given in the Priced Bill of Quantities.
17b	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) thereof.	
17c	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 omissions 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 Architect 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 is by reason of such omission or addition rendered unreasonable or inapplicable, the Architect shall fix such other rate or price as in the circumstances he shall think reasonable and proper, with the prior approval in writing of the Employer.	
17d	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 of the Priced 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 Architect, the workman's name) and materials employed be delivered for verification to the Architect or his representative at or before the end of the week following that in which the work has been executed.	
17e	It is further clarified that for all such authorized extra items where rates cannot be derived from tender, the Contractors shall submit rates supported by rate analysis worked on the "actual cost basis" plus 15% towards establishment charges, contractor's overhead and profit. Such items will not be eligible for escalation.	

	The measurement and valuation in respect of the Contract shall be completed within the “Period of Final Measurement” stated in the Appendix or if not stated then within six months of the completion of the Contract works as defined in Clause 21 thereof.
	<b>Unfixed materials when taken into account to be the property of the Employer</b>
18.	Where in any Certificate (of which the Contractor has received payment), the Architect 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 Employer and they shall not be removed except for use upon the works, without the written authority of the Architect. The Contractor shall be liable for any loss of, or damage to, such materials.
	<b>Removal of improper work</b>
19.	The Architect shall, during the progress of works, have power to 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 Architect are not in accordance with the Specifications or instructions of the Architect, the substitution of proper materials, and the removal and proper re-execution of any work executed with materials and workmanship not in accordance with the drawings and specifications or instructions, and the Contractor shall forthwith carry out such order, the Employer shall have the power to employ and pay other persons to carry out the same, and all expenses consequent thereon, or incidental thereto, as certified by the Architect shall be borne by the Contractor, or may be deducted by the Employer from any money due, or that may become due to the Contractor.
	<b>Defects after virtual completion</b>
20.	Any defect, shrinkage, settlement or other faults which may appear within the “Defects Liability Period” stated in the Appendix hereto or , if none stated, then within twelve months after the virtual completion of the works, arising in the opinion of the Architect from materials or workmanship not in accordance with the contract, shall upon the directions in writing of the Architect, and within such reasonable times as shall be specified therein, be amended and made good by the Contractor, at his own and in case of default the Employer 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 damage, loss, expenses shall be recoverable from him by the Employer or may be deducted by the Employer, upon the Architects’ Certificate in writing, from any money due or may become due to the Contractor, or the Employer may in lieu of such amending and making good by the Contractor deduct from any money due to the Contractor, a sum, to be determined by the Architect equivalent to the cost of amending such work and in the event of the amount retained under Clause 31 thereof being insufficient, recover the balance from the Contractor, together with any expenses the Employer 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 Architect as provided in Clause 12 and 22 thereof, the Contractor shall be liable to make good in the same manner as if such work or material had been done or supplied by the Contractor and been subject to the provisions of this Clause and Clause 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 Architect.

	<b>Certificate of Virtual Completion and Defects Liability Period</b>
21.	The works shall not be considered as completed until the Architect has certified in writing that they have been virtually completed. The Defects Liability Period shall commence from the date of such certificate.
	<b>Nominated Sub-Contractors</b>
22.	All Specialists, Merchants, Tradesman and other executing any work of supplying and fixing any goods for which prime cost prices or provisional sums are included in the Schedule of Quantities and/or Specifications who may be nominated or selected by the Architect are hereby declared to be Sub-Contractors employed by the Contractor and are herein referred to as nominated Sub-Contractors.
	No nominated Sub-Contractor shall be employed on or in connection with the works against the Contractor shall make reasonable objection or (save where the Architect and Contractor shall otherwise agree) who will not enter into a Contractor providing :
(a)	That the nominated Sub-Contractor shall indemnify the Contractor against the same obligation in respect of the Sub-Contract as the Contractor is under in respect of this contract.
(b)	That the nominated Sub-Contractor shall indemnify the Contractor against claims in respect of any negligence by the Sub-Contractor, his servants or agents or any misuse by him or them of any scaffolding or other plant, the property of the Contractor or under any Workmen's Compensation Act in force.
(c)	Payment shall be made to the nominated Sub-Contractor within fourteen days of his receipt of the Architect's Certificate provided that before any certificate is issued the Contractor shall upon request furnish to the Architect proof that all nominated Sub-Contractor's accounts included in previous Certificates have been duly discharged, the default whereof the Employer may pay the same upon a Certificate of the Architect and deduct the amount thereof from any sum due to the Contractor. The exercise of this power shall not create brevity of contract as between Employer and Sub-Contractor.
	<b>Other persons employed by Employer</b>
23.	The Employer reserves the right with the concurrences of the Architect to use 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 but shall not be required to provide any plant or material for the execution of such work except by special arrangement with the Employer. 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.
	<b>Insurance in respect of damages to persons and property</b>
24.	The Contractor shall be responsible for all injury or damage to persons, animals or things, and for all damage to property which may arise from any factor omission on the part of the Contractor or any Sub-Contractor or any nominated Sub-Contractor or any of their employees. The liability under this clause shall cover also inter-alia any damage to structures, whether immediately adjacent to the works or otherwise, any damage to roads, streets, footpaths, bridges as well as damage caused to the building and other structures and works forming the subject matter of this contract. The contractor shall also be reasonable for any damage caused to the buildings and other structures and works forming the subject matter of this contract due to rain, wind, frost or

	<p>other inclemency of weather. The Contractor shall indemnify and keep indemnified the Employer and hold him harmless in respect of all and any loss and expenses arising from any such injury or damage to persons or property as aforesaid and also against any claim made in respect of injury or damage, whether under any statute or otherwise and also in respect of any award or compensation or damage consequent upon such claims. The Contractor shall, at his own expense, effect and maintain till issue of the virtual completion certificate under this contract, with an insurance company approved by the Employer, an All Risks Policy for Insurance for the full amount of the contract including earth quake risk in the joint names of the Employer and the Contractor (the name of the former being placed first in the policy) against all risks as per the standard all risk policy for Contractors and deposit such policy or policies with the Employer before commencing the works.</p>
	<p>The Contractor shall reinstate all damage of every sort mentioned in this clause so as to do delivery of the whole of the works complete and perfect in every respect and so as to make good or otherwise satisfy all claims for damage to property or third parties.</p>
	<p>The Contractor shall also indemnify and keep indemnified the Employer against all claims which may be made against the Employer by any person in respect of anything which may arise in respect of the works or in consequence thereof and shall at his own expense, effect and maintain until the virtual completion of the contract, with an Insurance Company approved by the Employer a policy of Insurance in the joint names of the Employer and the Contractor (name of the former being placed first in the policy) against such risks and deposit such policy or policies before commencement of the works.</p>
	<p>The minimum limit of the coverage under the policy shall be Rs.2 lakhs per person for any one accident or occurrence and Rs.5 lakhs in respect of damage to property for any one accident or occurrence. The Contractor shall also indemnify the Employer against all claims which may be made upon the Employer, 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 Sub-Contractor and shall be at his own expense effect and maintain until the Virtual Completion or the Contract with an Insurance Company approved by the Employer a policy of Insurance against such risks and deposit such policy or policies with the Employer from time to time during the currency of this contract.</p>
	<p>In default of the Contractor insuring as provided above, the Employer may so insure and may deduct the premiums paid from any money due or which may become due to the Contractor.</p>
	<p>The Contractor shall be responsible for any liability which may not be covered by the insurance policies referred to above and also for all other damages to any person, animal or defective carrying out of this contract, whatever, may be the reasons due to which the damage shall have been caused.</p>
	<p>The Contractor shall also indemnify and keep indemnified the Employer against all and any costs, charges or expenses arising out of any claim or proceedings relating to the works and also in respect of any award of damage or compensation arising there from.</p>
	<p>Without prejudice to the other rights of the Employer against Contractors in respect of such default, the Employer shall be entitled to deduct from any sums payable to the Contractor the amount of any damages, compensation costs, charges and other expenses paid by the Employer and which are payable by the Contractor under this clause.</p>
	<p>The Contractor shall upon settlement by the insurer of any claim made against the insurer pursuant to a policy taken under this clause, proceed with due diligence to rebuild or repair the works destroyed or damaged. In this event all the money received from the insurer in respect of</p>

	such damage shall be paid to the Contractor and the Contractor shall not be entitled to any further payment in respect of the expenditure incurred for rebuilding or repairing of the materials or goods destroyed or damaged.
	The Contractor, in case of re-building or reinstatement after damage shall be entitled to such extension of time for completion as the Architect may deem fit, but shall, however, not be entitled to reimbursement by the Employer of any shortfall or deficiency in the amount finally paid by the insurer in settlement of any claim arising as set out herein.
	Without prejudice to his liability under this clause, the Contractor shall also cause all nominated sub-Contractors to effect, for their respective portions of the works similar policies of insurance in accordance with the provisions of this clause and shall produce or cause to produce to the Employer such policies. The Contractor shall not permit a nominated Sub-Contractor to commence work at the site unless said insurance policies are submitted. In the event of failure, of the Sub-Contractor to take out such policy or policies of insurance before commencing the works at the site, the Contractor shall be responsible for any claim or damage attributable to the said Sub-Contractor.
	<b>Date of commencement and completion</b>
25.	The Contractor shall be allowed admittance to the site on the "Date of Commencement" stated in the Appendix hereto, or such later date as may be specified by the Architect and he shall thereupon and forthwith begin the work and shall regularly proceed with and complete the same (except such painting or other decorative work as the Architect may desire to delay) on or before the "Date of Completion" stated in the Appendix subject nevertheless to the provision for extension of time hereinafter contained.
	<b>Damage for non-completion</b>
26.	If the Contractor fails to complete the works by the date stated in the Appendix or within any extended time under Clause 27 hereof and the Architect certifies in writing that in his opinion the same ought reasonably to have been completed the Contractor shall pay the Employer the sum named in the Appendix as "Liquidated Damages" for the period during which the said Works so remain incomplete and the Employer may deduct such damages from any money due to the Contractor.
	<b>Delay and Extension of Time</b>
27.	If in the opinion of the Architect, the works be delayed (a) by force majeure or (b) by reason of any exceptionally inclement weather or (c) by reason of proceedings taken or threatened by or dispute with adjoining or neighbouring owners or public authorities arising otherwise than through the Contractor's own fault or (d) by the works or delays of other Contractors or Tradesmen engaged or nominated by the Employer or the Architect and not referred to in the Schedule of Quantities and/or Specification or (e) by reason of Architect's instruction as per Clause 2 hereof or (f) by reason of civil commotion, local combination of workmen or strike or lockout affecting any of the building trades or (g) in consequence of the Contractor not having received in due time necessary instructions from the Architect for which he shall have specifically applied in writing or (h) from other causes which the Architect may certify as beyond the control of Contractor or (i) in the event, the value of the work exceed the value of the Priced Schedule of Quantities owing to variation, the Architect may with previous approval in writing of the Employer, 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 immediately give written notice thereof to the Architect but the Contractor shall nevertheless constantly use his endeavours to prevent delay and shall do all that may reasonably be required to the satisfaction of the Architect to proceed with work.



	<p>If the Contractor needs an extension of time for the completion of the work or if the completion of work gets delayed for any reason beyond the due date of completion stipulated in the contract, the Contractor shall apply to the Employer for extension of time in writing at least 7 days before the expiry of the scheduled time and while applying for extension of time Contractor shall furnish the reasons in detail and his justification, if any, for delays. Only that period of extension of time as granted by the Employer (on receipt of the application from the Contractor or even in absence of any such application) will qualify for exemption of imposition of liquidated damages. For the balance period in excess of original stipulated period and authorized extension of time granted by the Employer, the provision of liquidated damages as stated under Clause 26 will become applicable.</p>
	<p>Further the contract shall remain in force even for the period beyond the due date of completion irrespective whether the Contractor has applied or not, for the grant of extension of time for completion unless the Employer decides to terminate the contract. The delay for completion of work for any reason will not entail any right to the Contractor to claim any revision of rates or any extra compensation for any reason.</p>
	<p><b>Failure by Contractor to comply with Architect's Instructions</b></p>
28.	<p>If the Contractor after receipt of written notice from the Architect requiring compliance within ten days fails to comply with such further drawings and/or Architect's instructions, the Employer 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 Employer on the Certificate of the Architect as a debit or may be deducted by him from any money due to the Contractor.</p>
	<p><b>Termination of Contract by the Employer</b></p>
29.	<p>If the Contractor being an individual or a firm commits any "Act of insolvency", 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 be unable within seven days after notice to him requiring him to do so, to show to the reasonable satisfaction of the Architect that he is able to carry out and fulfill the contract and to give security therefore, if so required by the Architect.</p>
	<p>OR if the Contractor (when and individual, firm or Incorporated Company) shall suffer execution or other process of Court attaching property to be issued against the Contractor.</p>
	<p>OR shall suffer any payment under this Contract to be attached by or on behalf of any of the creditors or the Contractor.</p>
	<p>OR shall assign or sublet this Contract without the consent in writing of the Employer first hand and obtained.</p>
	<p>OR shall charge of encumber this Contract or any payments due or which may become due to the Contractor hereunder.</p>
	<p>OR if the Architect shall clarify in writing to the Employer that the Contractor.</p>
	<p>(i) Has abandoned the Contract for</p>
	<p>(ii) 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 Architect notice to proceed for.</p>
	<p>(iii) 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</p>
	<p>(iv) Has failed to remove materials from the site or to pull down and replace work for seven</p>

	days after receiving from the Architect written notice that the said Materials or work were condemned and rejected by the Architect under these conditions, or
(v)	Has neglected or failed persistently to observe and perform all or any of the acts, matters of things by this contract to be observed and performed by the Contractor for seven days after written 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 Employer may, notwithstanding any previous waiver, after giving seven day's notice in writing to the Contractor, determine the Contract, but without thereby affecting the powers of the Architect 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 work subsequently executed had been executed by or on behalf of the Contractor. And further, the Employer by his agents or servants may enter upon and take possession of the works and all plants, tools, scaffoldings, sheds, machinery steam and other power utensils and materials lying upon the premises or the adjoining lands or roads, and use the same as his own property of 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 Architect 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 of thereof by him, the Employer may sell the same by public auction, and give credit to the Contractor for the net amount realised. The Architect shall thereafter ascertain and certify in writing under his hand what (if anything) shall be due or payable to or by the Employer and expense or loss which the Employer 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 Employer to the Contractor or by the Contractor to the Employer, as the case may be, and the Certificate of the Architect shall be final and conclusive between the parties.
	<b>Termination of Contracts by Contractor</b>
30.	If the payment of the amount payable by the Employer under Certificate of the Architect 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 Employer, or if the Employer interferes with or obstructs the issue of any such Certificate, or if the Employer shall repudiate the Contract, or if the works be stopped for three months under the order of the Architect or the Employer or by any injunction or other order of any court of Law, then and in any of the cases the Contractor shall be at liberty to determine the Contract by notice in writing to the Employer, through the Architect and he shall be entitled to recover from the Employer, 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.
	In arriving at the amount of such payment the net rates contained in the Contractor's original tender shall be followed or where the same may not apply, valuation shall be made in accordance with Clause 17 hereof.

	<b>Certificate of payments</b>
31a	<p>The Contractor shall be paid by the Employer from time to time by installments under Interim Certificates to be issued by the Architect to the Contractor on account of the works executed when in the opinion of the Architect, work to the approximate value named in the Appendix as "Value of Work for Interim Certificates" (or less at the reasonable discretion of the Architect) has been executed in accordance with this contract, subject, however, to a retention of the percentage of such value named in the Appendix hereto as "Retention percentage for Interim Certificates" until the total amount retained shall reach the sum named in the Appendix as "Total Retention Money" after which time Installments shall up to the full value of the work subsequently so executed and fixed in the building. The Architect may in his discretion include the Interim Certificate such amount as he may consider proper on account of materials delivered upon the site by the Contractor for use in the works. And when the works have been virtually completed and the Architect shall have certified in writing that they have been completed, the Contractor shall be paid by the Employer in accordance with the Certificate to be issued by the Architect the sum of money named in the Appendix as "Installment after Virtual Completion" being a part of the said Total Retention Money. The Contractor shall be entitled to the payment of the Final Balance in accordance with the final certificate to be issued in writing by the Architect at the expiry of the period referred to as "the Defects Liability Period" in the Appendix hereto from the date of Virtual Completion of as soon as after the expiration of such period as the works shall have been finally completed and all defects made good according to the true interest and meaning hereof whichever shall last happen, provided always that the issue by the Architect of any Certificate during the progress of the works or at or after their completion shall not relieve the Contractor from his liability under Clause 2 and 20 nor relieve the Contractor of his liability in case of fraud, dishonesty or fraudulent concealment relating to the works or materials or to any matter dealt with in the certificate, and in case of all defect and insufficiencies in the works or materials which a reasonable examination would not have disclosed. No certificate of the Architect 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 Architect might have certified in any interim bill and paid by the Employer and which might subsequently be discovered as not payable and in this respect the Employer's decision shall be final and binding.</p>
31b	<p>The Contractors will be paid an advance of 75% of the cost of required building materials brought to the site for consumption in the works, except for cement and steel at the discretion of the Bank. The assessment of the cost of building materials shall be derived either from the actuals or from the tendered rate and the lesser of the two shall be considered for payment. The Contractor shall give an undertaking on stamp paper for this payment in the proforma given in Annexure II.</p>
	<p>Advance as above may be paid in case of paints of all types whether ready-mix or dry. However, the material on which such advance is paid has to be used in the work within six months of the date of manufacture, failing which the whole advance so paid will be recovered in one lump sum from his next RA Bill after the expiry of six months from the date of manufacture.</p>
31c	<p>The Contractor has to submit along with his RA Bills and final bill, a statement showing the detail as well as the quantities of cement, steel and other building materials received by him from the Bank upto the date of the bill for verification of the same before settlement of such bills by the Bank.</p>

31d	75% of the amount payable to the Contractor on the RA bills will be released as ad-hoc payment within 7 working days from the date of certification by the Bank's Site Engineer, pending test checking of work and measurement checking of detailed arithmetical accuracy and certification by EE/SE, PMC of the Bank.
31e	The Architect shall have power to withhold any certificate if the works or any parts thereof are not being carried out to his satisfaction.
31f	The Architect may by any Certificate make any correction in any previous certificate which shall have been issued by him.
31g	No payment shall be made to the Contractor if the Contractor fails to insure the works and keep them insured till the issue of the Virtual Completion Certificate.
31h	Payments upon the Architect's Certificate shall be made within the periods named in the Appendix as "Period for honour of Certificates" after such certificates have been delivered to the Employer.
32.	Any amounts payable by the Employer to the Contractor in pursuance of any certificates given by the Architect hereunder shall, if not paid, within the "Period of honouring certificates" 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 Employer until the payment.
<b>Matter to be finally determined by Architect</b>	
33.	The decision, opinion, direction, certificate of payment with respect of to all or any of the matters under Clause 2, 4, 6, 7, 12, 16, 17, 18, 20, 21, 27 (a,b,c,d,f), 28 hereof (which matters are herein referred to as excepted matters) shall be final and conclusive and binding on the parties hereto and shall be without appeal. Any other decision, opinion, direction. Certificate of valuation of the Architect or any refusal of the Architect to give any of the same, shall be subject to the right of Arbitration and review under Clause 34 hereof in the same way in all respect (including the provisions as to opening the reference) as if it were a decision of the Architect.
<b>Settlement of disputes try arbitration</b>	
34.	All disputes and differences of any kind whatever out of in connection with the contract or the carrying out of the works (whether during the progress of the works or within 12 months from the date of virtual completion of the work and whether before or within 12 months of determination abandonment or breach of the contract) shall be referred to giving inter-alia full details of the matter under dispute like quantities, rates, amount claimed and the reason thereto, and settled by the Architect, who shall state his decision in writing. Such decision may be in the form of a final certificate or otherwise. The decision of the Architect with respect to any of the excepted matters shall be final and without appeal as stated in Clause 33 hereof. But if either the Employer or the Contractor be dissatisfied with the decision of the Architect on a matter, question or dispute of any kind except any of the excepted matter or as to the withholding by the Architect of any certificate to which the Contractor may claim to be entitled, then and in any such case either party (the Employer or the Contractor) may within 28 days after receiving notice of such decision give a written notice to the other party through the Architect requiring that matter in dispute be arbitrated upon. Such written notice shall specify the matters with full details and amounts 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 and appointed by both the parties. The sole arbitrator shall be from the panel of arbitrators suggested by the Employer.

	The arbitrator shall have power to open up, review and revise any certificate, opinion, decision, requisition or 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.
	The arbitrator shall make his award within one year (or such further extended time as may be decided by him or them as the case may be with the consent of the parties) from the date of entering on the reference. In case during the arbitration proceedings the parties mutually settle, compromise or compound their dispute or difference, the reference to arbitration and the appointment of the arbitrator shall 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 the arbitrators as the case may be.
	This submission shall be deemed to be a submission to arbitration within the meaning of the Indian Arbitration Act, 1840 or any statutory modification thereof.
	It is agreed that the Contractor shall not delay the carrying out of the works by reason of any such matter, question or dispute being referred to arbitration, but shall proceed with the works with all due diligence and shall until the decision of the arbitrator or arbitrators as the case may be, is given abide by the decision of the Architect and no award of the arbitrator shall relieve the Contractor of his obligations to adhere strictly to the Architect's instructions with regard to the actual carrying out of the works. The Employer and the Contractor hereby also agree that arbitration under this Clause shall be a condition precedent to any right of action under the Contract.
	<b>Right of Technical Scrutiny of Final Bill</b>
35.	The Employer shall have a right to cause a technical examination of the works by any of the persons or organization as appointed by the Employer and the final bill of the Contractor including all supporting vouchers, abstracts etc. 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 Employer to recover the sum from any payment due to the Contractor for this work or any other work or works being carried out by Contractors elsewhere under the RESERVE BANK OF INDIA.
	<b>Employer entitled to recover compensations paid to workman</b>
36.	If, for any reason, the Employer is obliged by virtue of the provisions of the Workmen's Compensation Act, 1823, or any statutory modification or re-enactment thereof to pay compensation to a workman employed by the Contractor in execution of the works, the Employer shall be entitled to recover from the Contractor the amount of compensation so paid and without prejudice to the rights of the Employer under the said Act. The Employer 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 Employer to the Contractor under this Contract or otherwise. The Employer 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 Employer full security to the satisfaction of the Employer for all costs for which the Employer might become liable in consequence of contesting such claim.

	<b>Abandonment of works</b>
37.	If at any time after the acceptance of the tender, the Employer shall for any reasons whatsoever not require the whole or any part of the work to be carried out, the Architect 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 the execution of the whole works.
	<b>Return of surplus materials</b>
38.	Notwithstanding anything to the contrary contained in any or all the clause of this Contract, where any material for the execution of the Contract is procured with the assistance of the Employer by purchases 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 them without the prior written permission of the Employer and return it to the Employer, if required by the Employer, at the price to be determined by the Architect having due regard to the condition of the materials, the price to be determined by the Architect having due regard to the condition of the material, the price to be determined not to exceed the purchase price thereof inclusive of sales tax, octroi and other such levies paid by 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 permit and or criminal breach of trust, be liable to Employer for all moneys, advantages or profits resulting or which in the usual course would have resulted by reason of such breach.
	<b>Right of Employer to terminate contract in the event of death of contractor if individual</b>
38.	Without prejudice to any of the rights or remedies under this contract, if the Contractor, being an individual, dies, the Employer shall have the option of termination of the contract without incurring any liability for such termination.
	<b>Marginal Notes</b>
40	The Marginal Notes and in the catch liens hereto and in the annexures hereto are meant only for convenience of reference and shall not in any way be taken into account in the interpretation of these presents and the annexures hereto. The Contractors will have to carry out and complete the said work in every respect in accordance with this contract.

**Appendix Hereinbefore Referred To**

**Reference to clauses in Conditions Hereinbefore Referred To**

8.	Defects Liability Period	<b>12 Months</b>
17.	Period of Final Measurement	<b>3 months from the date of virtual completion</b>
25.	Date of commencement	:
25.	Date of completion	:
26.	Rate of liquidated damages	<b>Rs. 31,200 /- Per day</b>
31.	Value of works for interim certificates	<b>Rs. 15 lakhs</b>
31.	Retention percentage	<b>5%</b>
31.	Security Deposit (EMD + Total retention money)	<b>Rs 6,11,000 /-</b>
31.	Installment after virtual completion	<b>Earnest Money deposit</b>
31.	Period of honouring certificates of payment	<b>1 month for running a/c bills and three months for final bills</b>
32.	Interest for delayed payment	<b>3% per annum</b>

**Reference to clauses in General Instruction to the Contractors and Special Conditions**

22.	Basic Prices	
	Vitrified tiles	Rs. 850 / per Sqm
	Ceramic tiles	Rs. 450/-per Sqm
	Granite Slab	Rs.1900/- per sqm
	Granite Slab	Rs.2500/- per Sqm
	Marble slab	Rs.900 /- per Sqm
	Kota stone	Rs.450 /- per Sqm
	Kadappa slab	Rs.350/- per Sqm

## SPECIAL INSTRUCTIONS

10. The workmen will not be allowed to stay within the premises.
11. The water required for the work or workmen can be availed from the available source at site free of cost. The Contractor has to make his own arrangements to take the supply to the requisite position.
12. 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 make his own arrangements to take the supply to the requisite position.
13. The Contractor at his cost, if any, required from the local bodies shall obtain permission.
14. The intending tenderer can obtain any clarifications regarding the tender drawings, specifications etc. if any from the office of the Regional Director, Reserve Bank of India Project Management Cell (EZ), Kolkata on any Bank's working day.
15. The tenderer may please note that the office area involved for this work is on the 5<sup>th</sup> floor of Bank's main office premises, Kolkata.
16. The entire materials for the work shall be brought to the working area through the staircase only during specified time of working hours, no materials will be allowed through the passenger lifts.
17. 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 and make the entire office area clear before the commencement of office working hours.
17. The tenderer may please note that the work has to be carried out in the working office hours/after office hours. The rates quoted for each item shall be quoted accordingly.
18. Provisions for cabling for computer, telephone, power etc. shall be made within the floor if required. However, the wires, switches, light fixtures etc. will be organised by the Bank through separate agency. The required cut outs etc. shall be made in the flooring by the tenderer to enable the Bank to fix the switches etc. without any extra charge.



19. The successful tenderer should prepare the layout of the floor and any other working drawing related to the said renovation on a 1:4 scale showing the same should be got approved from the Bank's Engineer within 7 days.
  20. Care shall be taken while executing the said job, If anything is damaged the same shall be rectified at no extra cost.
1. Wherever the basic rate for the material is specified, the contractor should furnish all the paid bills for Bank's verification. The purchase rate shall be got approved from the Bank before purchasing. The adjustment in price shall be made only on measured quantity with 5% wastage. No overhead and profit shall be considered on the cost difference. The basic prices are ex-godawn 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.
  2. Bank reserves the right to insist on selection of material, workmanship, detailing and finishes, which they consider, are appropriate, and suitable for the intended use. The contractor is not eligible to claim extra on this account.
  3. Bank will require the contractor to produce, samples of all the materials, accessories/finishes prior to procurement/manufacture. Failure to comply with these instructions can result in rejection of the work.
  4. Samples of the materials for the work shall be got approved by the Bank's Engineer.
  5. Any inconsistent deviation is found while on execution between the specification and drawings it is to be expressively noted that the specification prevail well and supercede the drawings.
  6. The Tenderer should note that he should execute his part of work without causing any damage to any component of the building and also without disturbing the existing occupants during their office hours. Any damage so caused shall be made good at the cost & risk of the tender
  7. The tenderer should note the tender drawings and other documents describing each item in the schedule are only indicative in nature and cannot be taken as complete in detail and finishes. Being tender for interior works which calls for workmanship and finish including use of good quality materials of high standard, it is expected that the tenderer should understand the intent of the tender drawings and specifications and provide for materials, workmanship, finishes and accessories appropriately so as to deliver the product of high

standards in keeping with the function for which the furniture is intended. No claim from the contractor at a later date will be entertained for his failure to understand this condition. The decision of the Bank in respect of the quality of material, type of work, workmanship, finish etc, shall be final and binding on the contractor. The contractor's claim for not providing in his tender for such materials, workmanship and finish cannot be entertained.

8. The successful contractor shall make sure that they protect their materials and hand them over in good shape to the Bank satisfactorily. At the time of handing over any damages, scratches, dents or such defects noticed shall be got rectified as directed without any extra charge by the Contractor to the satisfaction of the Bank.
9. The successful tenderers shall include, in the quoted price, all allied civil works such as chasing in wall, drilling holes etc to support the frames, partitions, make the surface good after grouting etc.
10. Neat house keeping at all times is the responsibility of the successful tenderer , who shall also ensure that the removal of debris, waste materials etc from the site at their own cost and the same shall be organized at regular basis.
11. **The successful contractor shall also be responsible for the safety and security of all their materials and also for ensuring fire prevention steps at all times in the working premises including their part of the work.**
12. The work has to be carried out in phases (if required as per the site conditions) without disturbing the working in the office. Necessary barricading of the area, if required from the rest of the area shall have to be arranged by the successful contractor at no extra cost. The work is to be organized and executed before/after office hours and on Sundays/holidays so as to have least disturbance .
13. The contractors also have to subject themselves to the security restrictions imposed by the Bank.

**14. Removal of improper work**

The Bank's Engineer shall, during the progress of works, have power to 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 Architect are not in accordance with the Specifications or instructions of the Architect, the substitution of proper materials, and the removal and proper re-execution of any work executed with materials and

workmanship not in accordance with the drawings and specifications or instructions, and the Contractor shall forthwith carry out such order, the Employer shall have the power to employ and pay other persons to carry out the same, and all expenses consequent thereon, or incidental thereto, as certified by the Architect shall be borne by the Contractor, or may be deducted by the Employer from any money due, or that may become due to the Contractor.

**Signature of the Tenderer.**

**Place :**

**Date :**

### **Specifications (General Building Work)**

The scope of work covers execution and completion Civil/interior works in 8 <sup>th</sup> floor of Banks Main office building for the Reserve Bank of India, hisele in accordance with drawings and specifications prepared by and under the direction and to the satisfaction of Bank	
<b><u>Contract</u></b>	
	The form of contract shall be according to the printed form "Conditions of Contract". The following clauses shall be considered as an extension and not in limitations of obligation of the contractor.
<b><u>Drawings</u></b>	
	Two copies of all drawings, the schedule of quantities and specifications shall be furnished by the Architects to the Contractor for his own use until the completion of the contract, and shall be accessible at all reasonable time to the Architects or their representatives.
	All important drawings are to be mounted on boards and placed in racks and indexed.
<b><u>Dimensions</u></b>	
	Figured dimensions are in all cases to be accepted in preference to scales sizes. Large scale details take precedence over small scale drawings. In case of discrepancy the Contractor is to ask for clarification before proceeding with the work.
<b><u>Contractor to include in his rates</u></b>	
	The contractor shall include in his rates for al the items listed in this section.
<b><u>Contractor to Inspect Site</u></b>	
1.	The contractor shall visit and examine the construction site and satisfy himself as to the nature of the existing roads or other means of communications, the character of the soil and the excavations, the extent and magnitude of the work and facilities for obtaining materials and shall obtain generally his own information on all matters affecting the execution of the work. No extra charge made in consequence of any misunderstanding or incorrect information on any of these points or on the ground of insufficient description will be allowed. All expenses incurred by the contractor in connection with obtaining information for submitting this tender including his visits to the site or efforts in compiling the tender shall be borne by the tenderer and no claims for reimbursement thereof shall be entertained.
<b><u>Access to site</u></b>	
2.	The contractor is to include in his rates for forming access to the site, with all temporary roads and gangways required for the works.
<b><u>Setting Out</u></b>	
3.	The contractor shall set out the building in accordance with the plans. All grid/ hisel lines shall be pegged out to the satisfaction of the Architects. The contractor shall be responsible of the correctness of the lining out and any inaccuracies are to be rectifies at his own expense. He will be responsible for taking ground levels of the site before setting out and recording them without any extra charge.

	The contractor shall construct and maintain proper benches at the intersection of all main walls, columns etc. in order that the lines and levels may be accurately checked at all times.
<u>Treasure Trove</u>	
4.	Should any treasure, fossils, minerals or works of art of an quarial interest be found during excavation or while carrying out the works, the contractor shall give immediate notice to the Architects of any such discovery and shall make over such finds to the Employer.
<u>Access for Inspection</u>	
5.	The contractor is to provide at all times during the progress of the works and the maintenance period proper means of access, with ladders, gangways etc. and the necessary attendance to move and adapt as directed for the inspection of measurement of the works by the Architects of their representatives.
<u>Attendance upon all trades</u>	
6.	The general Contractors shall be required to attend on all the tradesman or sub-Contractors/ Contractors appointed by the Employer for water supply and sanitary, electrical installation, lifts, air conditioning, security equipment, hardware, telephone and other specialist Contractors. The rates quoted shall be inclusive of all attendance and also allow the other Contractors, appointed by the Employer, use of his scaffolding and retain until such time the relevant sub-contract works are completed.
<u>Water supply</u>	
7.	Water shall be arranged in accordance with Clause 26 (a) of Special Conditions of Contract.
	The general contractor shall allow the use of water for other works on the site done by other Contractors appointed by the Employer and the cost shall be apportioned by the Architects.
<u>Electric supply</u>	
8.	Shall be arranged in accordance with Clause 25 (a) of General Instructions to Contractors and Special Conditions of the Contract. He shall also allow other Contractors to use the facilities when requested but compensation charges shall be apportioned by the Architects.
<u>Gatekeeper and watchman</u>	
8.	The contractor from the time of being placed in possession of the site must make arrangements for watching, lighting and protecting the work, all materials, workmen and the public by day and night on all days including Sundays and holidays at his own cost.
<u>Storage for materials</u>	
10.	The Contractor shall provide for all necessary sheds of adequate dimension for storage and protection of materials like cement, lime, timber and such other materials including tools and equipment which are likely to deteriorate by the action of sun, wind, rain or other natural causes due to exposure in the open. For cement the contractor shall arrange for leak proof godown of sufficient size to store not less than 3 months' requirement of cement.
	All such sheds shall be cleared away and the whole area left in good order on completion of the contract to the satisfaction of the Architects.

	All materials which are stored on the site such as bricks, aggregates etc. shall be stacked in such a manner so as to facilitate rapid and easy checking of quantities of such materials.
<u>Cost of Transportation</u>	
11.	The Contractor shall allow in his cost for all transporting, unloading, stacking and storing of supplies of good and materials for this work on the site and in the places approved from time to time by the Architects. The Contractor shall allow in his price for transport of all materials controlled or otherwise to the site.
<u>WC and Sanitary Accommodation &amp; Office Accessories and Accommodation</u>	
12.	The Contractor shall provide at his own cost and expense adequate closet and sanitary accommodation complying in every respect to the rules and regulations in force of the local authorities and other public bodies, for his workmen, for the workmen of the nominated sub-Contractors and other Contractors working in the building, the Assistant Engineer and other employer's agents connected with this building project and maintain the same in good working order.
	The Contractor shall also provide at his own expense adequate office accommodation for the Assistant Engineer with approximately a minimum area of 300 sq.ft. along with necessary toilet facilities containing WC, urinal and wash basin for their use preferably contiguous to his office and shall maintain the same in satisfactory condition and shall provide light, fan and attendant etc. for the same and shall remove them after completion of the works. He shall arrange to provide a Dumpy Level/ Theodolite and at all times maintain in good working order at site, to enable the Assistant Engineer to check the lines and levels of the work. The Contractor shall also arrange to supply safe drinking water for use of Bank's staff attached to the project.
<u>Materials, workmanship &amp; samples</u>	
13.	Materials shall be of approved quality and the best of their kind available and shall generally conform to IS specifications. The Contractor shall order all the materials required for the execution of work as early as necessary and ensure that such materials are on site well ahead of requirement for use in the work. The work involved calls for high standard of workmanship combined with speed and to the entire satisfaction of the Architects.
<u>Rates for non-tender items</u>	
	Rates of items not included in Schedule of Quantities shall be settled by the Architects as mentioned in the variation clause of the Contract Conditions.
<u>Rate to include</u>	
	The rates quoted shall be for all heights and depths and for finished work.
<u>To ascertain from Contractors for the other trades</u>	
	The contractor shall ascertain from other Contractors as directed by the Architects all particulars relating to their work with regard to the order of its execution and the position in which chases, holes and similar items will be required, before the work is taken in hand as no claims for extras will be allowed for cutting away work already executed in consequences of any neglect by the Contractors to ascertain these particulars beforehand.

	Before ordering materials, the contractor shall get the samples approved from the architects well in time.
14.	<u>Testing of work and material</u>
	The contractor shall arrange to test all the materials to be used on work and works or portions of works at his cost in order to prove their soundness and efficiency. Before sending the samples of materials for testing the samples shall be sealed and signed jointly by the contractor and the representative from the Bank and each sample shall be given distinct identification mark. On receipt of the various test reports, proper record shall be maintained for all the tests carried out showing respective identification marks of the samples and results. If after any such tests, the work or portion of works is found to be defective or unsound in the opinion of the structural consultant/ Architects the Contractor shall pull down and redo such works at their own cost. The materials which are found not conforming to the relevant IS provisions after testing, shall be immediately removed from the site by the Contractor.
	In case, the Contractor fails to get the work/portion of works/ materials tested at appropriate time, the employer will arrange for getting such testing done and all testing charges and other incidental expenditure incurred by the employer in connection with such tests shall be recovered from the Contractor.
15.	Besides the provisions made in Clause No.4 of the conditions of Contract, the Contractor will be required to provide and maintain in working order the following power driven equipments during the construction work.
	1. Concrete mixers of more than 200 litres capacity (7 cft)
	2. Mechanically operated hoists to lift up materials to the highest level of the building of the capacity of 280 litres (10 cft per lift) powered by a suitable machinery capable of lifting the bucket with a speed of 15 metres per minute.
	3. Immersion type vibrators for consolidation of concrete in RCC beams, columns and partition walls and surface type vibrators for consolidation of concrete in slabs. Vibrators shall be adequate in number. A set of stand by vibrators shall also be maintained on the site of work.
	4. Lime-mortar mill
	5. Pumps for bailing out water.
	6. Any other machinery ordered by the Architects.
	<u>Foreman and Tradesman</u>
16.	All tradesman shall be experienced men properly equipped with suitable tools for carrying out all the work of carpentry and joinery and other specialist trades in a first class manner and where the Architects deem necessary, the Contractor shall provide any such tools, special or ordinary, which are considered necessary for carrying out of the work in a proper manner.
	All such tradesman shall work under an experienced and properly trained Foreman, who shall be capable of reading and understanding all drawings, pertaining to this work and the contractor shall also comply with other conditions set out in Clause 8 of the Conditions of the Contract.

<u>Work Programme/ Weekly Progress Report</u>	
17.	The Contractor shall prepare and submit to architects for approval, a PERT/CPM chart showing the programme of construction of various items, fitted within the period stipulated for completion, within 30 days of the communication of the acceptance of the tender. The contractor shall also furnish necessary particulars to the Assistant Engineer/ Assistant Executive Engineer for compiling weekly progress reports in the form furnished by the architects. Approved programme shall be the basis for monitoring the progress of work. The Contractors also should up date and re-analyse the PERT/CPM chart as often as required as per direction of the Bank to assess and reassess the progress of work done and take corrective measures for making out any deficiency.
<u>Clearing of site</u>	
18.	The Contractor shall after completion of the work clear the site of all debris and left over materials at his own expense to the entire satisfaction of the Architects and Municipal or other public authorities.
<u>Photographs</u>	
18.	The Contractor shall at his own expense supply to the Architects with triplicate copies of large photographs not less than 25 cm x 20 cm (10" x 8") of the works taken from two approved portions of each building, at intervals of not more than three months during the progress of the work or at every important stage of construction.
<u>Preparation of building for occupation and use on completion</u>	
20.	The whole of the work shall be thoroughly inspected by the Contractors and all deficiencies and defects put right. On completion of such inspection, the Contractor shall inform the architects in writing, that he has finished the work and it is ready for the Architects' inspection.
	On completion, the contractor shall clean all windows and doors and all glass panes including cleaning of all floors, staircase and every part of the building including oiling of al hardware. He will leave the entire building neat and clean and ready for immediate occupation and to the satisfaction of the Architect.
<u>Contractor to provide etc.</u>	
21.	The Contractor shall provide a notice board on proper supports 3m x 2m (10' x 6') in a position approved by the architects. He shall allow for painting and lettering stating name of work, name of Architects, structural consultants, general contractor and sub-Contractors, all letters except that of the name of the work shall be in letter not exceeding 5 cm in height and all to the approval of the Architects.
<u>Vouchers</u>	
22.	The Contractor shall furnish the Architects with vouchers on request, to prove that the materials are as specified and to indicate the rates at which the materials are purchased in order to work out the rate analysis of the non-tender items which he may be called upon to carry out thereafter.



<b>Protection</b>	
23.	The contractor shall properly cover up and protect all work throughout the duration of work until completion, particularly masonry/finish, mouldings, steps terrazzo or special floor finishes, staircases and balustrades, doors and windows frames, plaster angles, lighting and sanitary fittings, glass, paint work and all finishing.
<b>Materials</b>	
1.	Materials shall be of the best approved quality obtainable and they shall comply with the respective latest IS specification.
2.	Samples of all materials shall be got approved before placing an order and the approved sample shall be deposited with the Architect.
3.	In case of non-availability of materials in metric sizes, the nearest size in FPS units shall be provided with the prior approval of the Architects for which neither extra will be paid nor any rebate shall be recovered.
4.	All the materials shall be tested in any testing laboratory approved by the Assistant Engineer/ Assistant Executive Engineer, as per the testing guidelines issued by the Employer, which can be perused by the Contractor from the office Results of such tests in original issued by the laboratory shall be submitted to the Architects with copy to Assistant Engineer/ Assistant Executive Engineer. The entire charges connected with such testing including for repeated tests if ordered by the Architect shall be borne by the Contractor.
5.	It shall be obligatory for the Contractor to furnish certificate, if demanded by the Architects, from manufacturer or the material supplier, that the work has been carried out by using their materials and as per their recommendations.
6.	All materials supplied by the Employer/ any other specialist firm shall be properly stored and the Contractor shall be responsible for its safe custody until they are required on the works and till the completion of work.
7.	Unless otherwise shown on the drawings or mentioned in the Schedule of Quantities or Special Conditions, the quality of materials, workmanship dimensions etc. shall be as specified hereinunder.
8.	All equipments and facilities for carrying out field test on materials shall be provided by the Contractors without any extra cost.
	(a) Cement
	Cement shall comply in every respect with the requirements of the latest publication of IS 268 and unless otherwise specified ordinary Portland cement shall be used.
	The weight of ordinary Portland cement shall be taken as 1440 kg per cem (80 lbs per cft). Cement shall be measured by weight and in whole bags, and each undisturbed and sealed 50 kg 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.
	No other make of cement but that approved by the Architect will be allowed on works and the source of supply shall not be changed without approval of the Architect in writing. Test certificates to show that cement is full y complying with the specifications shall be submitted to the Architect and notwithstanding this, the Architects may at their discretion, order that the cement brought on site and which they may consider damaged or of doubtful

	quality for any reason whatsoever, shall be retested in an approved testing laboratory and fresh certificates of its soundness shall be produced. Cement ordered for retesting shall not be used for any work pending results of retests.
	Cement shall be stored in weather proof shed with raised wooden plank, flooring to prevent deterioration by dampness or intrusion of foreign matter. It shall be stored in such a way as to allow the removal and use of cement in chronological order of receipt i.e. first received being first used. Cement deteriorated and/or clodded shall not be used on work but shall be removed at once from the site. However, allowing use of warehouse set cement shall be determined by the Architect.
	Daily record of cement received and consumed shall be maintained by the Contractor in an approved form and submitted to the Architects.
	(b) Lime
	Lime shall comply in every respect with the requirements of IS 712 and shall be made from approved lime stone or kankar and properly burnt, it shall be free from excess of unburnt kankar or lime stone ashes or other extraneous materials and shall be stored in weather proof sheds. Lime which has been damaged by rain, moisture or air slaking shall not be used but shall be removed from the site of work forthwith. Lime shall be slaked with fresh water and screened through appropriate screens and stored and used within 14 days provided it is protected from drying out.
	Field tests according to IS 383 shall be carried out from time to time to determine the quality of lime.
	I Fine Aggregate
	Sand shall conform to IS 383 and relevant portion of IS 515. It shall pass through a IS sieve 4.75 mm (3/16 BS) test sieve leaving a residue not more than 5%. It shall be from natural source crushed stone screenings, if allowed, chemically inert, clean, sharp, hard, durable, well graded and free from dust, clay, shale large pebbles, salt, organic matter, loam mica or other deleterious matter. The sum of percentages of all deleterious materials in sand shall not exceed 5% by weight. It shall be washed if directed to reduce the percentage of deleterious substance to acceptable limits. Sand shall not contain any trace of salt and it shall be tested and sand containing any trace of salt shall be rejected.
	The fine aggregate for concrete shall be graded within limits as specified in IS 383 and the Fineness Modulus may range between 2.60 to 3.20.
	The fine aggregate shall be stacked carefully on a clean hard dry surface so that it will not get mixed up with deleterious foreign materials, if such a surface is not available a platform of planks of corrugated iron sheets or brick floor or a thin layer of lean concrete shall be prepared.
	(d) Coarse Aggregate
	Shall consist of crushed or broken stone 85% of which shall be retained on 4.75 mm IS test sieve. It shall be obtained from crushing Granite, Quartzite, Trap, Basalt or similar approved stones from approved quarry and shall conform to IS 383 and IS 515. Coarse aggregate shall be chemically inert when mixed with cement and shall be cubical in shape and free from soft, friable, thin porous, laminated or flaky pieces. It shall be free from dust and any other foreign matter.

	Gravil/ Shingle of desired grading may be permitted as a substitute in part or full in plain cement concrete if the Architect is other wise satisfied about the quality of aggregate. For all RCC works the size of coarse aggregate shall be 20 mm and down gauge.
	(e) Reinforcement
	Reinforcement shall be of mild steel tested quality conforming IS 432-1866 and any other ISS applicable or deformed bar conforming to IS 1786 and IS 1138 or hard drawn steel wire fabric conforming to IS 1566-1867.
	All finished bars shall be free from cracks, surface flaws, laminations, jagged and imperfect edges.
	(f) 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 1 <sup>st</sup> and 2 <sup>nd</sup> class.
	Bricks shall be the best quality locally available table moulded well burnt but not over-burnt, 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.
	(g) Neeru
	Shall be made of Class C lime (i.e. pure flat lime) as mentioned in IS 712. It shall be slaked with fresh water and then sifted and reduced to a thick paste by grinding in amill. Neeru thus prepared shall eb kept moist until used and no more than that can be consumed in 15 days shall be prepared at a time.
	(h) Surkhi
	Shall be made by grinding well burnt bricks, brick bats, burnt clay balls etc. The brick etc. to be used shall be prepared from selected clay. The quality shall conform to IS 314.
	Brick bats etc. shall be ground in a mechanical disintegrator to a fine powder passing through IS sieve No.8 (2.36 mm) with a residue not exceeding 10% by weight.
	Surkhi for lime Surkhi plaster shall be ground to a fine powder in a mortar mill to pass through IS sieve 150 micron (No.100).
	Surkhi shall be stored in weather proof shed on a brick paved platform.
	(i) Water
	Water for mixing cement/ lime/ surkhi mortar or concrete shall not be salty or brakish and shall be clean, reasonably clear and free from objectionable quantities of silt and traces of oil, acid and injurious alkali, salts, organic matter and other deleterious materials which will either weaken the mortar or concrete or cause efflorescence or attach the steel in reinforced cement concrete. Water shall be obtained from sources approved by the Architect. Potable water is generally considered satisfactory for mixing and curing concrete, mortar, masonry etc. Where water other than main source is used

	this shall be tested in an approved testing laboratory to establish its suitability. All charges connected therewith shall be borne by the Contractors.
	(j) Timber
	Timber shall be well seasoned and of the best quality heart wood of specified species viz.
	Timber shall be considered as well as seasoned, if its moisture content does not exceed the following limits.
	(i) Timber for frames 14%
	(ii) Timber for planking shutters etc. 12%
	The moisture content of timber shall be determined according to method described in paragraph 4 of IS 287 for maximum permissible moisture content of timber used for different purposes in different climatic zones.
	In measuring cross sectional dimensions of the frame pieces tolerance upto 1.5 mm shall be allowed for each planned surface.
	(k) 1 <sup>st</sup> class Indian teak wood
	1 <sup>st</sup> class Indian teak wood means CP and Bulsar teak of good quality and well seasoned. It shall have uniform colour, reasonably straight grains and shall be free from large, loose, dead knots, cracks, shakes, warp, twists, bends, sap wood or defects of any kind. No individual hard and sound knot shall be more than 2.5 cm in diameter and aggregate area of all knots shall not exceed 1% of the area of the piece. There shall not be less than 5 growth rings per 2.5 cm width.
	(l) 2 <sup>nd</sup> class Indian teak wood
	Shall be similar to 1 <sup>st</sup> class Indian teak wood except that knot upto 4 cm diameter and aggregate area of all knots upto 1.5% of the area of the piece shall be allowed. There shall not be less than 4 growth rings per 2.5 cm width.
	(m) Hardwood
	The timber selected shall comply with the requirements of IS 1003. The timber shall be chemically treated under vacuum and high pressure as per IS 401 and kilm seasoned as per IS 1141. The moisture content shall be within 8% to 14%.
	(n) Flush Doors
	All flush doors shall be solid core exterior grade unless other wise specified and it shall generally conform to IS 2202 and shall be fabricated as described under specification.
	(o) Steel windows and doors
	Steel windows and doors shall be fabricated out of steel sections conforming to IS 226. They shall conform to IS 1038. Unless otherwise specified the details of construction etc. shall be as described under Specifications.
	(p) Floor tiles
	Plain cement tiles, chequered tiles, mosaic tiles, shall conform to IS 1237. For neutral shade tiles grey cement shall be used. Tiles shall be compacted by mechanical vibration and hydraulically pressed. It shall be of choice shade and shall have desired pattern of chop distribution. The sizes of chips and proportion of chips to cement in Terrazzo or mosaic floor shall be as specified in IS 1237. The size and thickness of tiles shall be as approved by the Architect.

	(q) Glazed tiles
	White or coloured glazed tiles shall comply with IS 777. It shall be from an approved manufacturer and shall be flat and true to shape. They shall be free from cracks, crazing, spots, chipped edges and corners. The glazing and colour shall be of uniform shade and unless otherwise the tile shall have an average thickness of 5.50 mm.
	I Marble
	Marble slabs for flooring, dado, veneering etc. shall be of the kind specified in the item such as white or pink, makrana, chittor, black, bhanslana black, Jaisalmer yellow, Baroda Green, Patiala (Pepsu) grey etc.
	Marble from which the slabs are made, shall be selected quality, hard, sound, dense and homogeneous in texture, free from cracks, decay, weathering and flaws. Before starting the work the contractor shall get the sample of marble slabs approved by the Architect.
	The slabs shall be machine cut whenever specified and machine polished.
	Shall be of selected quality, hard, sound, dense and homogeneous texture, free from cracks, decay, weathering the flaws. Stone slabs shall be of uniform colour and as approved by the Architect. They shall be machine cut and machine polished where specified and shall conform to the required sizes. Thickness shall be as specified in the respective items.
	(t) Glass
	Glass used for glazing shall be sheet glass of best approved quality, free from flaws, specks, bubble and shall be 2.8 mm thick upto 0.60 x 0.60 mm size and for larger size it shall be 4 mm thick unless otherwise specified in the Schedule of Quantities.

	(u) Asbestos roofing & rain water pipes
	All asbestos pipes and fittings shall comply with IS 458 and shall be free from cracks, chipped edges or corners and other damages.
	(v) CGI Sheets
	CGI sheets shall be of the gauge specified in the description of the item and shall conform to IS 277. The sheets shall be free from cracks, split edges, twists, surface flaws etc. They shall be clean, bright and smooth. Galvanising shall be uninjured and in perfect condition. The sheets shall show no signs of rust or white powdery deposits on the surface. The corrugation, shall be uniform in depth and pitch and parallel.
	(w) Paints
	Lime for lime wash, dry distemper, oil bound distemper, cement, primer, oil paint, enamel paint, flat oil paint, plastic emulsion pain, anti-corrosive primer, red lead, water proof cement paint shall be from an approved manufacturer and shall conform to the latest Indian Standards for various paints. Ready mixed paints as received from the manufacturer without any admixture shall be used, except for addition of thinner, if recommended by the manufacturer.

	(x) Mortars
	Lime Surkhi Mortar
	Lime and Surkhi Mortar conform to the specifications, It shall be composed of Portland cement and sand. The ingredients shall be accurately gauged by measure and shall be well and evenly mixed together in a mechanical pan mixture, care being taken not to add more water than required. No mortar that has begun to set shall be used. River sand shall be used unless otherwise specified.
	If hand mixing is allowed, then it shall be done on pucca water-proof platform. The gauged materials shall be put on the platform and mixed dry. Water shall then be added and the whole mixed again until it is homogeneous and of uniform colour. Not more than one bag of cement shall be mixed at one time and which can be consumed within half an hour of its mixing.
	Composite lime, cement and mortar
	The mortar shall be of proportions specified for each type of work in the schedule of quantities. It shall comprise of Portland cement, lime and sand. Lime shall be measured in gauge boxed similar to one used for measuring cement and sand to the proportions specified and sufficient water then be added to it to form a thick slurry. The slurry thus obtained shall then be added to dry cement and sand mixture and thoroughly mixed to make a workable homogeneous mortar of uniform colour by adding more water if necessary. Mechanical mixers shall generally be used for mixing such mortars. If hand mixing is allowed it shall be done on pucca platform.

## **TECHNICAL SPECIFICATIONS**

### 1.1.1 SCOPE OF WORK

The scope of work covered under this contract comprises the civil and interior work and other related works.

### 1.1.2 MATERIALS AND WORKMANSHIP

The contractor under this contract bind 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 be ordinary Portland cement conforming to relevant IS and of grade 43/53.

### 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 Lime:

Lime shall be filled in bags and stored safely in weather proof sheds. It shall not be stacked against the walls of the shed. It should be used as soon as possible.

### 1.2.5 Cement mortar:

For PCC/backing coat to stone/tiles 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 Vitrified tiles Flooring:

Vitrified tiles as specified in Schedule of Quantities and approved by Bank Engineers shall be procured from the approved source. The colour/pattern of tiles shall be uniform and free from all defects.

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

The tiles shall be laid on bedding of approved adhesive and in the manner as specified by the manufactures. The base tiles/Indian Patent Stone shall be wetted and mopped clean. The greasy stains, if any shall be removed completely by using detergent, kerosene or any other approved method. The rate quoted shall be deemed to include rectifying the base where any of the base tiles/I.P.S. found loose/hollow, the same shall be removed completely and filled with 1:4 proportion cement and sand bedding mortar, cured properly and then tiles laid with adhesive.

The tiles shall be laid in pattern/design as approved by Bank. 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.

Datum levels of floors in room, passages, etc. In case there is any architectural feature, the same shall be considered and pattern adjusted accordingly. Location and fixing of floor trunking and junction boxes.

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

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.

The floors shall washed with oxalic acid, cleaned and dried with a soft both before handing over the site.

#### 1.2.6.1 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 from plaster to plaster or from skirting to skirting as the case may be. 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. 1.3.4 Skirting and dado shall be fixed as under:

- 1) Sufficiently hardened backing/under coat must be damp.
- 2) Tiles cut to size must be buttered with white/coloured cement paste on the back side as directed.
- 3) Tiles shall be fixed on the under coat and tamped with woodenmallet or rubber mallet to achieve full adhesion to the under coat. Edges shall be tamped to line and level.
- 4) Care shall be taken to achieve pattern of laying with respect to drawings and the floor.
- 5) The laid tiles shall be mopped with wet cloth to remove grout coming out of the joints.

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

1.5.0 Measurement shall be in square meters for skirting for specified width. Dado shall be measured in square meters or as specified in specifications.



1.6.0 Rate shall include material and labour required to complete the item as specified and approved by the Bank. 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 Bank.

## 2.0 DOORS:

### 2.0.0 MATERIALS:

2.0.1 Timber shall be of quality as specified in the BOQ and well seasoned. When a kind 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.

2.0.2 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.

2.0.3 Timber used shall be treated with approved anti termite treatment. Wood work in contact with masonry or concrete shall be painted with hot bitumen coal tar before being placed in position.

2.0.4 Ready made flush shutters shall be as specified and shall comply to respective code of practice. Manufacturer's certificate conforming that shutters supplied comply to IS shall have to be obtained and submitted to the Bank. Also a copy of test certificate from an independent agency/laboratory shall be obtained.

2.0.5 Shutters shall be of specified thickness. They will have laminate of 1.5 mm thickness as specified.

2.0.6 Tolerances on width and height shall be +/-2 mm. Tolerances on thickness shall be +/-1.2 mm. Thickness of shutter shall be uniform throughout.

2.0.7 Fittings and fixtures shall be as specified in BOQ and shall comply to respective IS specifications.

2.0.8 All nails, screws etc. shall be hot dipped galvanized or of brass or non ferrous stainless steel.

2.0.8 Adhesive and glues shall be as per IS for exterior quality and water repellent.

### 2.1.0 WORKMANSHIP:

2.1.1 Timber brought at site shall be as approved by the Bank.

2.1.2 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.

2.1.3 All rejected timber shall be removed at once from the site of work.

2.1.4 All sawing of timber shall be done in straight lines and planes of uniform thickness.

2.1.5 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.

2.1.6 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.

2.1.7 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.

2.1.8 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.

#### 2.2.0 DOOR FRAMES:

2.2.1 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, or rounded or moulded, etc. as per drawings. For single rebate the depth shall be 12.5 mm.

2.2.2 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.

#### 2.3.0 GLAZED PANEL SHUTTERS:

2.3.1 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.

2.3.2 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.

#### 2.4.0 GLAZING:

2.4.1 Glazing shall be in accordance with IS 3548 code of practice for glazing in building works (doors and windows)

2.4.2 Glass used for the works shall be float glass – clear or frosted as per the approved manufacturers.

2.4.3 Glass shall be flat, transparent and clear when judged by the unaided eye. It may, however, possess a tint when viewed edge-wise.

2.4.4 Glass shall be free from cracks, blisters, stones, scratches, bubbles. Glass shall not show any distortion of light when tested to IS.

2.4.5 Thickness and tolerances on cut sizes of glass shall be as per IS.

2.4.6 Actual cut size glass shall be measured in square meters.

2.4.7 Irregular shaped or circular glass shall be measured as smallest rectangular area from which the irregular or circular pane can be cut.

2.4.8 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.

2.4.8 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'.

2.4.10 Glass shall be well protected from any damage during transportation, storage and progress of work. Any glass, which is in the opinion of the Bank is not suitable for the work shall be rejected and the contractor shall replace the same forthwith.

2.4.11 The rates for various items shall include material, labour 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.

#### 2.5.0 FITTING AND FIXTURES

2.5.1 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 Bank. This shall also include making grooves, chases, reinforcing, etc.

## 2.6.0 MEASUREMENTS AND RATES

2.6.1 Wood work and joinery shall be measured in cubic meters, square meters, running meters or any other manner as detailed in the BOQ.

2.6.2 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 anti-corrosive 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, labour, use of equipment, etc.

2.6.3 Fittings and fixtures shall be as specified herein before if not detailed elsewhere in the drawings and BOQ.

2.6.4 If wood work is found to be defective due to bad workmanship, shrinkage, etc. within 1 year after completion of work, the defective wood work shall be refixed by the contractor at his own cost to the entire satisfaction of the Bank. This includes the repairs required to the complete work as it was finished earlier.

## 2.7.0 THERMAL INSULATION

2.7.1 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.m.

## 2.8.0 VENEER, PLYWOOD

2.8.1 The veneers, ply wood 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 Bank.

2.8.2 The laminate to be used shall be as specified and shall be of approved brand like formica, decolam, national, green lam, etc. The shades and pattern shall be got approved from the Bank in case the trade name and the pattern number has not been specified in the drawings.

2.8.3 The 'Faux Ebony' veneer shall be imported and this shall be in accordance with the sample available for inspection at the site with Employer.

## 2.8.0 UPHOLSTERY WORK

2.8.1 All upholstery work shall be done in the best workmanship manner as per the Banks instructions and detail drawings. Nowhere the stitching should be visible on exposed surfaces, except where it is specifically mentioned. The shape of the furniture and pattern of the design is to be maintained as per relevant drawings/photographs and instructions.

2.8.2 All upholstery material shall be supplied by the Contractors. The contractor shall make one sample of each item of furniture with the approved fabric/leather for the final approval of the Bank. The bulk production can be taken in hand as soon as the sample is approved in the final. No extra charges shall be payable for any alterations/modifications done in the sample furniture item. All upholstery work is to be done in the best workmanship manner and to the entire satisfaction of the Bank. The decision of Bank for the approval of sample shall be final and binding on the contractor. Brass or aluminium cushions vents should be installed at the back of the cushions or underside of seat.

#### 2.10.0 FABRIC

The fabric or wall coverings shall be supplied by the contractors in conformity with the details shown on colour scheme charts available for inspection at site with Employer and in the mock up room. The fabric panels shall be fixed with an approved method and adhesive after necessary preparation of the surfaces and in accordance with the drawings to the approval of Bank . A sample of such fabric paneling to wall shall be produced for the approval by Bank.

#### 2.11.0 ANTI TERMITE TREATMENT AND FIRE PROTECTIVE PAINT

All concealed wood work like false ceiling frame work, paneling frame work, flooring battens, etc. shall be treated with an approved anti termite agent like creosote oil and approved fire protection paint. When items of furniture like skirting, planking, wardrobes, cup-boards, etc. butt against the wall, rcc face etc. the surfaces in contact with concrete faces as well as the wall surfaces shall be treated with anti-termite agent.

#### 2.12.0 PANELLING

The frame work for the paneling shall be in accordance with the BOQ/detail drawings out of 1<sup>st</sup> quality approved. The members of frame work shall have been treated with a coat of approved anti-termite treatment wherever required. The planks used for the paneling shall be of seasoned timber of specified type and thickness. These are to be fixed with counter sunk screws and finished as in the manner specified in BOQ and relevant drawings. The rate quoted shall be also be conclusive of providing grooves, etc. as indicated in the drawings.

#### 2.13.0 GYPSUM BOARD CEILING

2.13.1 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.

2.13.2 Installation : Framing, Perimeter channels are leveled at the required position above the finished ceiling line and fixed to the wall at 610 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 1220 mm apart. M/F ceiling section are fixed at 450 mm centers at right angles to the underside of intermediate channels using connecting clips.

2.13.3 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.

2.13.4 Suspension : Fixing points for suspending the metal grid are required at 1220 mm centers in each direction. When the ceiling is intended to provide fire protection, the fixing to the structure must be noncombustible.

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

2.13.6 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.

2.13.7 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.

2.13.8 Materials

2.14.0 GYPSUM PLASTER TO WALLS (POP PUNNING)

2.14.1 GYPSIM UNIVERSAL PLASTER (Base coat), a gypsum based material in a handy application can be applied over any normal background in not more than one coat, depending on evenness or the back ground. Smooth finish and good impact strength are its virtue.

2.14.2 Gyplaster base coat plaster is a calcium sulphate hemihydrate plaster with additives including light weight aggregate to improve plasters handling workability and application. It attains early strength and is free from shrinkage cracks. The thickness of the plaster should be a maximum of 13 mm on uneven background but should not exceed 10 mm or less than 5 mm on a level and even background.

2.14.3 The setting time of plaster is approximately 30 minutes after the application, depending upon suction of background. The setting progresses evenly and gradually until the surface is hard enough to receive a final stroke of a trowel, at approximately 45 to 60 minutes.

2.14.4 The coverage is approximately 65 to 75 sq.m. per 1000 kg at 13 mm thickness.

2.14.5 For application of gyplaster, the wall is first marked vertically at 1220 mm hisele, then checked with straight edge, or line (preferably aluminium square tube) hisele to find the high spots which are used as guide for level to be set.

2.14.6 The background should be suitably wetted with a brush 5-10 minutes before plastering to displace the trapped air and for a good plaster contact with the surface.

2.14.7 Four points (by putting plaster with flat surface) are fixed in level and plumb to each corner of the wall to determine the thickness of the plaster required to be done.

2.14.8 40 mm wide strips of plaster are fixed. Then the points are applied vertically, in level and plumb of both ends of the wall.

2.14.8 These vertical strips are then made with plaster at even 1220 (or 1550 mm) hisele on the entire area of the wall, to ensure level and plumb of the strips, to be in line.

2.14.10 The plaster is applied to surface of the wall with a trowel to required thickness and finish the surface by setting straight edge (sq. tube) horizontally by them placing on the vertical strips already fixed above, with firm pressure.

2.14.11 A tight coat is applied then turned back with the same batch material to fill out to required thickness.

2.14.12 A featheredge should be used to straighten the plaster to a reasonable plane, whilst at the same time filling in any slacks or hollows when the plaster has stiffened sufficiently, further ruling out the feather edge is necessary to achieve a flat surface.

2.14.13 As the plaster stiffens progressively, further flattening and paring should be carried out with a spatula.

2.14.14 When the plaster is sufficiently formed, the surface should be soaked lightly with a sponge float and light application of water if necessary to raise the flat and bring the surface to a suitable condition for finishing.

2.14.15 Closing in with the trowel should commence as soon as plaster starts to set, followed by a final trowel at the appropriate time.

2.14.16 Overpolishing should not be done at any cost.

2.14.17 Decoration and final finish should be delayed until the plaster work has dried out thoroughly.

#### 2.14.18 Precautions:

- a. Tools and water used in mixing must be clean and free from set plaster and other impurities.
- b. Set plaster shorten the setting time and thus reduces the strength of plaster which sets.
- c. Surfaces should be protected from weather and should be reasonably wetted 5-10 minutes before plastering so that the plaster holds on the background satisfactorily.
- d. Fittings and plugging of all kinds should be done before proceeding to plaster.
- e. Openings, chases or other apertures for cable conduits and other's should be cut before plastering.
- f. Background to be plastered should be thoroughly brushed with broom to remove dust and loose mortar.
- g. Once a mix has started to set, it should not be retempered neither should be a fresh gauging be mixed with an old one.

2.14.18 Background surface should be reasonably dry and protected from the weather. The suitability of a particular background for plastering should be considered in relation to its length, suction, bonding properties, shrinkage or thermal movement characteristics, water and soluble salt content. The high suction of certain backgrounds (like concrete block masonry) should be adjusted by sprinkling water.

2.14.20 Plaster are not supposed to isolate dampness and they are not suitable for use in continuously damp or humid conditions. During application of Gyplaster in hot or dry conditions, care should be taken to ensure that rapid loss of water is avoided. The reason is that Gyplaster requires a proportion of the mixing water in order to set and achieve full strength. If the water is dried off too rapidly then the strength of the plaster will be impaired. Once set and fully dry, it is suitable for use in situation where the inside temperature is 50 de. C maximum.

2.14.21 Universal plaster attains early strength during the drying process and the plaster work does not suffer from inherent shrinkage cracks. Whilst the finished surface can be intended by impact, the natural resilience of set plaster prevents more serious damage.

2.14.22 Tubular service conduits should be chased into the background wherever possible. The following precautions should be taken in order to hised any risk of subsequent plaster cracking or rust staining over service runs.

1. Conduit of minimum permissible dimensions should be used.
2. High spots in the background should be hised if possible.
3. The undercoat plaster thickness specified should be sufficient to cover the extreme protrusions of the conduit by at least 5 mm.
4. Service routes should avoid door frames, ground, etc.
5. Service piping, conduits, fixing clips and other metallic objects should be adequately protected by galvanizing, painting or applying a thicker layer of lacquer in order to protect if from rusting.
6. At junctions of different materials (like concrete blocks and RCC columns/ beams) a fibre mesh shall be applied prior to the application of the plaster to avoid cracks at a later date.



2.14.23 Gyplaster universal shall be mixed in a clean mixing bucket using clean water. Plastic buckets can be used to avoid rust staining from metal containers.

## 2.15.0 PAINTING AND POLISHING

2.15.1 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 white wash. Paints received at the site shall be in manufacturer's sealed drum.

2.15.2 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.

2.15.3 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.
  - a. should be inert to weathering actions of atmosphere.
  - b. final surface should be hard and durable.

2.15.4 The manufacturer and shades of paint used at the work site shall be to the approval of the Bank.

2.15.5 Workmanship : the work shall be carried out as specified in IS 2385 Part I and Part II schedule of painting system to be as per table of IS 2385 Part II.

2.15.6 Surface preparation:

- b. 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.
- c. 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 a suitable filler.
- d. Lime mortar plaster shall be left unpainted for the first few months to allow plaster to carbonate, harden and dry thoroughly.
- e. 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.

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

- c. Primer/sealer – coat as recommended by paint manufacturer.
- b. Filler/Putty as many layer as required and approved of
- c. Undercoats.
- d. Finishing coat or coats.

2.15.8 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.

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

2.15.10 Finishing shall be to the satisfaction of the Bank.

2.15.11 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.

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

2.15.13 Application of one coat in one room shall be finished in one operation.

2.15.14 Filler shall be plaster of Paris or as approved by the Bank.

2.15.15 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.

2.15.16 Painting shall be measured in square meters.

2.15.17 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 Bank. 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.

## 2.16.0 PAINTING/POLISHING OF WOOD WORK

2.16.1 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.

### 2.16.2 Surface Preparation

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

### 2.16.3 Priming

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

### 2.16.4 Stopping and filling

Stopping and filling shall be carried out only after priming. Filler material shall conform to IS and shall be approved by the Bank.

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.

The filler coat shall be of an optimum thickness and shall be allowed to fully hardened 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.

### 2.16.5 Undercoats:

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

### 2.16.6 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.

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

2.16.8 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.

### 2.16.9 Filling

- i. 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.
- b. For special stain effects colour fillers shall be used.
  - j. On the fine textured woods having minute pores that do not require filling, thin varnishes, lacquer or shellac may be used.
  - k. 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 smoothed with abrasive paper.

#### 2.16.10 Staining

- a. Staining of wood shall be restored to create special effects for subsequent clear finishes.
- b. Stains used shall be water based, spirit based or oil based as approved by the Bank according to the purpose and location.
- c. Surfaces shall be kept scrupulously clean and free from greasy finger marks.
- d. Small cracks or nail holes shall be stopped with fine plaster of Paris or suitable stopping.
- e. Stains may be applied by brushing and wiping or spraying.

Application shall be liberal but without over-staining that may spoil the stained surface.

2.16.11 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.

#### 2.16.12 French Polish :

I. Work shall be carried out to IS 2338 Part I and Part II.

b. Pure shellac varying pale orange to lemon yellow colour, free from resin or dirt shall be dissolved in methylated spirit at the ratio of 0.15 kg of shellac per litre of spirit. Suitable pigment should be added to get the required colour.

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.

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.

To finish off, the pad shall be covered with a fresh piece of clean cloth, slightly dampened 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.

Measurements shall be in square meters.

2.16.13 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.

**List of Materials of Approved Brand And/Or Manufacture**

1	Cement	<ol style="list-style-type: none"> <li>1. Larsen &amp; Toubro,</li> <li>2. ACC</li> <li>3. Birla Gold,</li> <li>4. Gujrat Ambhuja, or approved</li> </ol>
2	Steel	<ol style="list-style-type: none"> <li>1. Sail,</li> <li>2. Tisco or approved equivalent.</li> </ol>
3	Tile fixing Adhesive	<ol style="list-style-type: none"> <li>1. Sika</li> <li>2. Pidilite</li> <li>3. Bal</li> <li>4. Roff</li> <li>5. Fosroc or approved</li> </ol>
4	Marine Plywood	<ol style="list-style-type: none"> <li>1. Century</li> <li>2. Greenply</li> <li>3. Kitply or approved equivalent.</li> <li>4. Austin</li> </ol>
5	BWR grade phenol bonded plywood	<ol style="list-style-type: none"> <li>1. Greenply</li> <li>2. Century</li> <li>3. Swastik,</li> <li>4. Kit/Kenwood, or approved equivalent.</li> </ol>
6	Particle Board	Nova Teak Super by Indian Plywood Mfg. Co. or approved equivalent.
7	Block Board	<ol style="list-style-type: none"> <li>1. Century</li> <li>2. Greenply</li> <li>3. Mysore Mafatlal,</li> <li>4. Galaxy or equivalent approved.</li> </ol>
8.	Flush doors	<ol style="list-style-type: none"> <li>1. Century</li> <li>2. Green ply or approved</li> </ol>
9	Fibre Board (MDF, LDF)	<ol style="list-style-type: none"> <li>1. Century</li> <li>2. Novapan,</li> <li>3. Swastik,</li> <li>4. Anchor, or approved equivalent.</li> </ol>
10	P.O.P. Board	1. Gypsum India or Equivalent approved.
11	Laminates	<ol style="list-style-type: none"> <li>1. Century Mica</li> <li>2. Greenlam,</li> <li>3. Kitmica</li> <li>4. Neoluxe, or approved equivalent.</li> </ol>
12	Handles	<ol style="list-style-type: none"> <li>1. Dorma,</li> <li>2. Hafele or approved equivalent.</li> </ol>
13	Glass	<ol style="list-style-type: none"> <li>1. Float Glass India (Asahi),</li> <li>2. Modigaurd or approved equivalent.</li> </ol>

14	Screws	<ol style="list-style-type: none"> <li>1. IW. nettle fold,</li> <li>2. Oxidised or approved equivalent.</li> </ol>
15	Hardware	<ol style="list-style-type: none"> <li>1. Earl Bihari (EBCO),</li> <li>2. Shalimar,</li> <li>3. Vijayan,</li> <li>4. Sobbit or approved equivalent.</li> </ol>
16	Adhesive for fixing laminate	<ol style="list-style-type: none"> <li>1. Fevicol SH,</li> <li>2. Araldite of Ciba Geigy,</li> <li>3. Bal Endura or approved</li> </ol>
16	Door Closers	<ol style="list-style-type: none"> <li>1. Dorma</li> <li>2. Everite,</li> <li>3. Garnish</li> <li>4. Hyper</li> <li>5. Hardwyn or approved</li> </ol>
17	Locks	<ol style="list-style-type: none"> <li>1. Godrej,</li> <li>2. Vision/Vijayan or equivalent approved.</li> </ol>
18	Wood preservative	<ol style="list-style-type: none"> <li>1. Bison by British paints or equivalent approved</li> </ol>
18	Glass Wool Fibre	<ol style="list-style-type: none"> <li>1. Crown</li> <li>2. Rock wool or approved equivalent</li> </ol>
20	Cement Primer	<ol style="list-style-type: none"> <li>1. Asian paints</li> <li>2. Berger</li> <li>3. ICI Dulux paints or approved</li> </ol>
21	Acrylic Emulsion paints	<ol style="list-style-type: none"> <li>1. Asian,</li> <li>2. Berger</li> <li>3. ICI Dulux,</li> </ol>
22	Enamel paints	<ol style="list-style-type: none"> <li>1. Asian,</li> <li>2. Berger</li> <li>3. ICI Dulux,</li> </ol>
23	Wood primer	<ol style="list-style-type: none"> <li>1. Asian,</li> <li>2. Berger</li> <li>3. ICI Dulux,</li> </ol>
24	Aluminium sections	<ol style="list-style-type: none"> <li>1. Hindalco or equivalent approved</li> </ol>
25	Cast Iron Pipes and fittings	Standard approved manufacturers of any brand of fittings having ISI marking.
26	G.I. Pipes	Tata or approved
27	G.I. Fittings	Standard approved manufacturers of any approved brand of fittings having ISI marking.
28	5. Gun Metal Valves	<ol style="list-style-type: none"> <li>1. Leader Engineering Works, Calcutta</li> <li>2. Bombay Metal Co.,</li> <li>3. Annapurna Metal Work, Calcutta</li> </ol>
29	Brass Fittings	<ol style="list-style-type: none"> <li>1. Leader Engineering Works, Calcutta,</li> <li>2. L &amp; K Mathura,</li> <li>3. Annapurna Metal Works, Calcutta</li> </ol>

30	C.P. Fittings	<ol style="list-style-type: none"> <li>1. Eng. Co Metal Works, Calcutta, ESSCO.</li> <li>2. Jaguar</li> <li>3. Ego Metal Works, Ballabgarh, Haryana GEM, New Delhi</li> <li>4. Soma Calcutta,</li> <li>5. Bilmet Bombay,</li> <li>6. Rajka Metal Works, Delhi, Eng. Co.,</li> </ol>
31	W.C. Pan Wash basin, Urinals E.I.D.	<ol style="list-style-type: none"> <li>1. Commander</li> <li>2. Hindware or approved</li> </ol>
32	E.W.C. Seats	<ol style="list-style-type: none"> <li>1. 'Commander' or approved.</li> <li>2. Hindware or approved</li> </ol>
33	Flushing Cisterns	<ol style="list-style-type: none"> <li>1. Commander</li> <li>2. Hindware or approved</li> </ol>
34	Mirrors	<ol style="list-style-type: none"> <li>1. Atul Glass Works,</li> <li>2. Vallabh Glass Works,</li> <li>3. Modi Glass.</li> </ol>
35	Vitrified tiles	<ol style="list-style-type: none"> <li>15. NITCO</li> <li>16. HR Johnsons</li> <li>17. EURO</li> <li>18. or any other approved</li> </ol>

Note –

1. Contractors' attention is drawn to clause 23 of the General Instructions to the Contractor and Special Conditions in this connection. In addition to the above listed materials, materials having BIS marks will also be construed as the approved materials.
2. Order of Preference of approved materials will be given as per the serial numbers mentioned in the table above.

RESERVE BANK OF INDIA  
ESTATE DEPARTMENT  
**KOLKATA**

**TENDER FOR**

*Civil/Interior Renovation Works of 5<sup>th</sup> floor*

*At*

*Banks Main Office Premises, Kolkata*

**Name of Tenderer** \_\_\_\_\_

**Address** \_\_\_\_\_

**Ph: No:** \_\_\_\_\_

**Due Date of Submission : 09.09.2008.**



**Reserve Bank of India  
Estate Department  
Kolkata**

**Renovation on 5<sup>th</sup> Floor-Civil/Interior Works**

Preamble:

1. The Tenderers are requested to inspect the site and obtain for themselves at their own expense all necessary information and particulars to enable them to submit the tender.
2. The dimensions shown in the drawings shall have to be verified by the contractor at site before execution of the items and necessary allowance(s) have to be made as per the actual dimensions available at site.
3. The work has to be carried out in co-ordination with the work of other agencies. A Supervisor is to be posted at site for taking instructions and should be capable of discussing and taking decisions at site.
4. **For the items of works having Basic rate of material**, price adjustment will be made only on the actual quantity measured. Wastage shall be to Contractors account. Basic rate indicates cost at site including transportation charges, Sales tax and other levies as applicable.
5. Rates quoted shall include cost of materials, labour, wastages, transportation, scaffolding, tools and plants required to carryout the job and shall also include all taxes and levies charged by state / central / local authorities.
6. All pre-fabrication works wherever possible shall be carried outside the Banks premises, only assembling and finishing work will be allowed in the Bank
7. All construction details shall be strictly followed as per the Architectural drawing and as approved by the Bank.
8. The workman shall be allowed to work during office hours i.e. after 8.00 a.m.to 6.00 pm. On holidays / Sundays work may be allowed round the clock and whenever requested by the Contractor. The contractor shall require to obtain prior permission and work passes for all labourers to carry out the work from the Department and duly signed by protocol & Security Department of the Bank. The contractor shall quote rates for all items of work accordingly. No extra claim will be entertained whatsoever.
9. The rate quoted shall include cost of providing and fixing teak wood lipping on all exposed ply wood faces wherever required or specified.
10. All wooden members coming in contact with floor, wall, RCC and the like, the surface of which coming in contact shall be treated with Termiseal or equivalent antitermite solution without any extra charge.

11. The rate quoted should also include cost of surface preparation and doing French sprit polishing and meal amine polish on all wooden surface (exposed) wherever required or specified.
12. The successful tenderers will be required to prepare a sample of an item for approval by the Bank and if required, carry out the any changes as per Banks advise without any extra cost to the Bank.
13. Any debris generated out of the said work may please be cleared on priority basis from the Banks Premises.

**Reserve Bank of India  
Estate Department  
Kolkata**

**Renovation on 5<sup>th</sup> Floor-Civil/Interior Works**

**Schedule of Quantities:**

Item no	Description of Item	Qty	Unit	Rate (in Figs & words)	Amount
1	<b>Brick Work:</b>				
1.1	Providing and constructing half brick wall in superstructure using locally available 1 <sup>st</sup> class bricks for partitions in cement mortar 1:4 (1cement: 4sand) in all heights with H.B wire netting at every third layer, and scaffolding, maintaining proper line, level & plumb, necessary curing, etc all complete as per the directions of the Bank's Engineer.	38	Sqm		
1.2	Providing and laying Reinforced cement concrete 1 : 1.5 : 3 (1cement :1 ½ coarse sand :3 stone aggregate 10mm down size) for in lintels and bands, including reinforcement of 4 nos of 10mm dia bars including 8mm dia stirrups at 150 mm c/c necessary bending, binding, shuttering at an appropriate height of wall as directed , laying of concrete, compacting, finishing, curing etc all complete as per the directions of the Banks Engineer	1	Cum		
1.3	Providing & applying cement plaster 1:4 (1 cement: 4 sand) of thickness 12-15mm in single layer including raking the joints, removing dust & cleaning the surface including necessary scaffolding, including fixing of chicken mesh (by proper nailing) at least 4" wide on the joints between the junction of old and new walls/RCC surface, curing, etc all complete as per directions of the Banks Engineer.	100	Sqm		

2	<b>PLASTER OF PARIS:</b>				
2.1	Providing and applying plaster of Paris punning 2-3mm thick average over the newly plastered surface or wherever specified to prepare the surface even and smooth including all leads and lifts etc complete as directed by the Engineer.	100	Sqm		
3	<b>FALSE CEILING:</b>				
	<p>i. Providing and fixing of suspended false ceiling of plain Gypsum board having size 600mmx1200mm and thickness of 12.5mm conforming to IS 2095-1982 and as per the approved design, pattern , shape etc as per drawing and including providing and fixing GI suspended system conforming to India Gypsum specifications made up of following</p> <p>ii. GI intermediate channels spaced at 1000 mm c/c(instead of 1200 mm c/c as per India Gypsum specifications) of size 45x15x0.9mm thick having fixed to ceiling angle of size 25x10x0.5mm thick, fixed to soffits at 1000mm c/c using GI soffit cleat of size 22x37 mm which in turn fixed to RCC ceiling with the help of Steel expansion fasteners/dash fasteners as per India Gypsum specifications. Load carrying capacity of each fastener shall not be less than 250 kgs.</p> <p>iii. Perimeter channel of size 20x27x30x0.5mm shall be fixed to brick/partition with the help of nylon sleeves and screws at 610mm c/c</p> <p>iv. Ceiling section of size 80x26x0.5mm having knurled web of 51.5mm shall be fixed to the intermediate channel with the help of connecting GI clips and in directions perpendicular to the intermediate channel, spacing not exceeding 457 mm c/c</p> <p>v. For fully perforated gypsum board tiles of size 605mm x 605mm of 12.5mm thickness shall be fixed to ceiling section. Extra cross member of ceiling section should be provided to make suitable grid of 605mm x 605mm</p> <p>vi. For light fittings, grills, diffusers etc cutouts shall be made with the frame of perimeter channels and other sections as required supported suitably.</p> <p>vii. Perforated/ semi perforated Gypsum boards of size 605mmx605mm of 12.5mm thickness shall be joined with 25mm drywell screws@230mm c/c, screwing shall be carried out mechanically either with screw driver or drilling machine with suitable attachment.</p>				

	Gypsum board to be jointed with and finished with paper tape/jointing compound so as to have a finished surface and painted with a coat of primer suitable for gypsum board as per the specifications of India Gypsum and painting the entire ceiling with two coats of Oil bound distemper of approved make and shade.				
3.1.a	.... Do.... as item no 3 above but with suspended false ceiling system with 12.5mm thick plain gypsum board and with/without grooves of the false ceiling with plain gypsum of 12.5mm thick with suitable frame work with necessary extra supports if required as per India Gypsum specifications etc complete etc complete as directed. <b>Note: Measurement is only for plan area irrespective of the design.</b>	1405	Sqm		
3.1. b	.... Do.... as item no 3 above but with suspended false ceiling system with 12.5mm thick plain gypsum board for vertical surfaces and with/without grooves in all floors etc complete as directed. The rate is inclusive of making cutouts for AC grills, diffusers etc with the frame of perimeter channels and other sections as required supported suitably.	350	Sqm		
3.1.c	Providing & fixing necessary trap doors of appropriate size with necessary GI frame work as per directions.	10	nos		
3.2	Providing and fixing in position of <b>acoustic mineral fibre board</b> (Dune-ML-RH-99) false ceiling (Armstrong / celotex/ or any approved brand)system with 15mm silhouette(BR) grid quick hook suspension system having main tee 300mm longx32mm web height x 15mm wide tee sections. The main runner is to be fixed with 2mm thick pre-stretched GI wire soffit cleat and GI rawl plug inserted on the main roof to be fixed at 1200mm c/c. The 600mm x 32 x 15 mm wide cross tee section having an integrally formed hook nose with precise butt cut joint end is to be fit in between the main tee at a distance 600mm to make a module of 600x600mm. All base framework material should be high quality galvanized 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 direction and supervision of manufacturer's representative and the Bank's engineer and as per drawing .Rate to include marking and making necessary cut-outs/ openings for light fittings, AC grills/ diffusers, Detectors, speakers and any other services out lets as required. The template will be given by respective services agency.	940	Sqm		

4	<b>FLOORING / DADO /SKIRTING</b>				
4.1	<p>Providing and fixing 9 to 10mm thick <b>vitriified tiles of size 600 x 600 mm</b> of approved manufacture and shade on floor using the tile fixing adhesive of approved make as per manufacturer's specification including filling of joints to match with the colour of tiles, cleaning etc. maintaining proper line &amp; level The rate shall also include additional cost for extra thickness of tile fixing adhesive if required for maintaining proper floor level and the cost of removing of debris and disposing it away from the Bank's Premises, cleaning the site, making good the damage, if any etc. all complete as per the directions of Bank's Engineer . The rate includes for making inlays, cutouts for electrical junction boxes etc complete.</p> <p>(Basic rate of vitriified tiles Rs. 850/- per Sqm)</p>	2300	Sqm		
4.2	<p>...Do... same as above but for 150mm skirting as per drawing, including removal of the existing mosaic skirting and fixing the vitriified tiles with 20 mm thick cement mortar 1:3 (1cement : 3 sand) complete as per the directions of the Banks Engineer.</p> <p>(Basic Rate of Vitriified tiles Rs.850/- sqm)</p>	200	Rm		
4.3	<p>Providing and fixing <b>1<sup>st</sup> quality decorative ceramic tiles</b> of approved size of approved manufacturer ,finish and shade <b>on floor</b> using cement mortar 1:4 (1 cement: 4 sand) inside toilets filling of joints to match with the colour of tiles, cleaning etc. maintaining proper line &amp; level The rate shall also include additional cost for extra thickness of tile fixing adhesive if required for maintaining proper floor level and the cost of removing of debris and disposing it away from the Bank's Premises, cleaning the site, making good the damage, if any etc. all complete as per the directions of Bank's Engineer (Basic Rate of Ceramic tiles Rs. 450/- per sqm)</p>	10	Sqm		
4.4	<p>Providing and fixing <b>1<sup>st</sup> quality decorative ceramic tile on Dado</b> using approved quality, make and shade ceramic of approved design with 20mm cement sand mortar (1:3) as under bed including cutting to required shape and size by maintaining proper line and level, finishing with white cement and suitable matching pigments, curing, etc Rate to include removing of debris from the bank's premises, cleaning the site complete as per direction of Bank's Engineer.</p> <p>Note: The rate shall also include cost of removal of existing skirting/dado if any and removing the debris and disposing it away from the Bank's Premises, cleaning the site, making good the damage, if any etc. all</p>				

	complete as per the directions of Bank's Engineer (Basic rate of Ceramic tiles Rs. 450/- per Sqm)	35	Sqm		
4.5	Providing and laying average <b>18-20mm thick Kota Stone slab</b> flooring of size 600mm x 600mm laid on average 20mm thick cement mortar 1:4(1Cement: 4 Sand) as per drawing <b>1152 RBI – 11<sup>th</sup> floor –FL1.2</b> including grouting of joints with grey cement mixed with matching pigment to match the colour of the Kota stone, maintaining proper line, level & slope including necessary curing, rubbing, mirror polishing, cleaning, mending good the damages, including removing the debris out of Banks premises etc complete as directed by the Banks Engineer. (Basic rate of Kota stone Rs. 450/-per sqm)	185	Sqm		
4.6	....Do... as above but for 150 mm skirting etc complete as per the directions of the Banks Engineer.	75	Rm		
4.7	Providing and applying approx. 20mm thick water proof cement plaster 1:3(1 cement : 3 coarse sand) with proprietary waterproof compound as per specialist firms specifications and finishing the surface etc. complete in all respects, as specified and directed. Treatment to be done in co-ordination with sanitary work involved if any as per the directions of the Banks Engineer.	50	Sqm		
4.8	Removing the existing flooring to expose the RCC/PCC slab , roughening and cleaning the base, applying 2 coats of waterproofing chemicals, Pidifin 2K or equivalent approved as per manufacturer's specifications etc all complete as per the direction of Bank's Engineer.	275	Sqm		
4.9	Providing and laying 25mmthick screed concrete 1:1.5 :3 (1 cement : 1.5 sand : 3 graded 10 mm and down stone aggregate) including finishing curing etc. in AHU rooms all complete as per the direction of the Bank's Engineer.	5	cum		
4.10	Providing and fixing junction box cover of size 300 x 300 mm (approx) with 12mm plyboard over necessary wooden block support and providing vitrified tile top fixed with tile fixing adhesive flush with the finished floor level as directed by Bank's Engineer.	300	Each		
<b>5</b>	<b>Wash Basin, Sink,Platform etc</b>				
5.1	Providing and fixing in position 20mm thick kadappa slab below the granite of basin with opening of required size to accommodate oval shaped basin, supported on brick walls, including cost of cutting chases in walls fixing with CM 1:3 all complete as per the directions of the Banks Engineer.	1.5	Sqm		

5.2	Providing, laying and fixing in position 18-20mm thick granite slabs of approved quality, colour and shade, machine cut and machine polished using 15 mm thick 1:3 cement mortar for fixing complete including cutting to required shape for fixing wash basin, finishing the edges with grinding to Bull nose shape, polishing the cut edges as specified etc, complete as per directions of Banks Engineer. (Basic price: Rs.1900/- per sqm)	2	Each		
5.3	Providing and fixing 20-25mm thick Kadappa stone slab for construction of pantry platform of approved type and design in (1:4) cement mortar (1cement: 4 sand) including providing and fixing border Patti on front edge, filling joints curing, cleaning etc complete (basic rate of Black Kadappa Slab Rs. 350/Sqmt)	3	Sqm		
5.4	Providing and fixing 18-20 mm thick mirror polished, machine cut Granite slab of required size, for pantry platform laid over 20mm thick (1:4) base cement mortar (1 cement: 4sand) with joints treated with white cement mixed with matching pigments, epoxy touch ups, including rubbing, curing etc complete as per drawings and instructions of the Engineer (Basic rate of Granite slab Rs 2500/-)	5	Sqm		
5.5	Providing, fitting and fixing 18mm thick Granite <b>slab fascia / window sill</b> of approved colour and quality and machine cut and machine polished to appropriate size to vertical surfaces with 15mm thick 1:3 cement mortar including finishing the joints with white cement mixed with colouring pigments to match the colour of slab, curing, cleaning, all complete as directed by Banks Engineer	10	Sqm		
5.6	Supplying and fixing new <b>oval shape vitreous wash hand basin (22" x 16")</b> Hindustan (standard) or equivalent approved quality with JAQUAR / ESSCO make pillar cock, 15mm dia CP connector, 40mm dia CP bottle trap, 15mm dia CP angular stop cock, 40 mm dia CP waste, 40 mm dia heavy quality PVC waste pipe of approved make and required length with all fittings laid concealed by cutting, chases in wall making connection with inlet and waste line painting the pipe with bituminous paint and wrapping with hessian cloth, testing for no leakage before concealing and making good the walls, and taking away debris from the bank premises complete as per the directions of the Banks Engineer.	5	Each		

5.7	Providing and fixing <b>white glazed fire clay overflowing type sink 450mm x 300mm x 150mm</b> with 40mm dia CP brass waste and coupling nut complete, cutting and fixed with CI cantilever type brackets including making good the walls, GI line connection 15mm dia long nose CP Bibcock stop cock of ESSCO or approved make of 2 No's in each sink, 40 dia x 600mm long (approx) PVC waste pipe etc complete as directed for drinking water facility	1	Each		
5.8	Providing and fixing approved brand Stainless steel sink of size 36" x 18" x 8" with single drain board. The item shall also consist of 40 mm dia CP brass waste & coupling with the bib cck of Essco or approved make etc. all complete as directed.	1	Each		
<b>6.</b>	<b>Sanitary and Plumbing</b>				
6.1	Providing, fitting and fixing heavy type brass CP 100 mm dia gratings in floor traps complete as per the directions of the Banks Engineer.	5	Each		
6.2	Providing, fitting and fixing brass CP 15 mm stop cocks vertical/angular of JAQUAR/ ESSCO or equivalent approved quality fixed in position as per the directions of the Banks Engineer.	5	Each		
6.3	Supplying and fixing brass CP brass 15mm bib cock JAQUAR/ESSCO or equivalent approved quality fixed in position as per the directions of the Banks Engineer.	5	Each		
6.4	Providing and fixing 18mm thick Granite slab corner shelves of approved shape and size, including cutting chases in walls, fixing etc all complete as per the directions of the Banks Engineer.	2	Each		
6.5	Providing and fixing towel rod of 600 mm long of approved make , size and shape including fixing with brass screws etc all complete as per the directions of the Banks Engineer.	2	Each		
6.6	Providing and fixing soap container of approved make, size and shape including fixing at appropriate position as specified etc all complete as per the directions of the Banks Engineer	2	Each		
6.7	Providing, Fitting & Fixing wall hung type European WC of approved quality and make including on line flushing system with fittings as per the manufacturers specifications including making connections with flush and soil pipes with the existing lines all complete as per the directions of the Banks Engineer	2	Each set		



6.8	Providing and fixing plate mirror with 6mm thick glass of Modi or any other approved make complete with 4mm thick Masonite backing and moulding with C.P. teak wood made of size 50mm x 20mm all around with approved polishing etc complete as per the directions of the Banks Engineer.	2	Sqm		
6.9	Providing and fixing ISI approved CI soil/waste and vent pipes with all types of fittings viz. Bends, junctions etc., with lead caulked/sand/cement mortar (1:3) joints, in proper line and level and making connection with the existing line in the ducts or outside the main wall as per the site condition, W/C commodes and pans, floor traps after taking out the damaged concealed pipes wherever required making good the damages, testing for no leakages, haunching of joints with PCC 1:3:6 etc and painting with black bituminous paint inside and outside etc complete as directed by the Banks Engineer a) 75 mm dia b)100 mm dia	10 10	Rm Rm		
6.10	Providing and fixing at any height GI medium quality pipes of B class Tata or suitable approved quality make with clamps complete with all necessary GI specials, fittings and fixtures like bends, tees, Elbows, sockets, flange piece, unions, hooks, reducers etc all of approved brand etc complete including painting external pipe with two coats of 1 <sup>st</sup> quality synthetic enamel paint of approved colour over a coat of primer and concealing pipe wherever required by cutting chases in the walls as necessary including painting with 1 <sup>st</sup> quality anti-corrosive black bitumastic paint and wrapping with Hessian cloth and over coating with another coat of black bitumastic paint cutting and making good the walls and connecting the new pipes with the existing lines with the necessary fixtures and fittings etc complete as directed. a. 15 mm dia b. 20 mm dia c. 25 mm dia d. 32 mm dia e. 40mm dia f. 50 mm dia	10 10	Rm Rm		

		10 5 5 10	Rm Rm Rm Rm		
6.11	Providing fitting and fixing 40mm dia HDPE pipe (Oriplast or any other brand approved by the Bank) with all necessary injection moulded high density fittings PVC saddle, bends, Tees, elbows, sockets, unions, hooks clamp, brass screws including jointing with solvent cement and rubber lubricant, coupling joint with brass cap and lining on one end or both end as required and concealing in wall or floor by cutting chase and making good the same. Rate to include painting the concealed pipes with bituminous paint and wrapping with hessian tapes etc all complete as per the directions of the Banks Engineer	5	Rm		
6.12	Providing and laying cement concrete (1:3:6) using 25mm to 40mm graded brick bats in the toilet floor as leveling course including mixing with waterproofing compound of approved manufacturer, including mixing, laying consolidating curing etc all complete as per directions of the Banks Engineer.	3	cum		
6.13	Providing and fixing vitreous porcelain (Hindustan standard or equivalent) flat back front lipped urinal ware (590x375x390mm) with heavy gauge approved brand connector piece and 40mm heavy gauge PVC waste pipe of required length with extended PVC coupling, all of approved quality connected with the urinal including fitting fixing the ware with brass screws, waste pipe with PVC clamps, making the connections with the flush and waste line etc., complete as per the directions of the Banks Engineer.	2	Each		
6.14	Providing, fitting and fixing of Auto Flushing Sensor system (Jaguar or any other approved quality) including the flushing valve, necessary fittings, fixtures, hardware etc complete to have the auto sensor based flushing system including connecting with the existing lines, fixing, finishing all complete as directed by the Banks Engineer.	2	Each		

7	<b>POP CORNICE:</b>				
7.1	Providing and fixing POP cornice of size 75mm x75mm (or as indicated in drawings) as per design and specifications and painting with Acrylic washable distemper of approved brand and colours including all accessories, hardware and all lead and lifts complete as per the directions of the Banks Engineer.	300	Rm		
7.2	Providing and fixing POP cornice of size 45mm x 45mm(or as indicated in drawings) as per design and specifications and painting with Acrylic washable distemper of approved brand and colour including all accessories, hardware and all lead and lifts complete as per the directions of the Banks Engineer.	150	Rm		
8	<b>PAINTING:</b>				
8.1	Providing and applying 2 or more coats of Acrylic lustre paint of approved make and colour to give an even shade to surfaces over a coat of primer as per manufactures specifications , including necessary scaffolding, preparation of surface etc., complete including all leads and lifts as per the directions of the Banks Engineer	700	Sqm		
8.2	Providing and applying 2 or more coats of synthetic enamel paint of approved make and colour to give an even shade to surfaces over a coat of primer as per the Manufacturers specifications, necessary scaffolding, preparing the surfaces etc., complete including all leads and lifts as per the directions of the Engineer	200	Sqm		
8.3	Providing and applying Spectrum paint of approved variety, shade & colour wherever specified applying as per the manufacturers specifications with necessary scaffolding, cleaning etc all complete as directed by the Banks Engineer	350	Sqm		
8.4	Providing and applying texture paint treatment similar to Heritage treatment of approved variety, shade & colour wherever specified applying as per the manufacturers specifications with necessary scaffolding, cleaning etc all complete as directed by the Banks Engineer	30	Sqm		
8.5	Providing and applying acrylic bound distemper paint to wall, ceiling and other surfaces with two or more coats to achieve the desired finish of approved shade and quality after preparation of surfaces properly including one coat of primer etc complete with all labour and materials and as per the direction of Bank's Engineer.	700	Sqm		

9	<b>PARTITIONS</b>				
9.1	<p>Providing and fixing</p> <p><b>i)Full height double skin partly glazed partly solid partition (Max height 2920mm)</b> made of extruded , anodized and oxidizing alloy aluminum sections of approved colour fabricated after cutting to proper size, drilling and aligning, fitted with inbuilt locking arrangement to requisite shape and size , having vertical and horizontal members of size 50mm x 44.5mm x 2.5mm at not more than 900mm c/c in both direction linked horizontally and vertically to any desired configuration . The aluminum frame shall be fixed to floor, side walls and at ceiling level with the help of aluminum flats of appropriate size or Al cleats. The first horizontal member is to be provided at floor level to keep the frame in position. Every alternate vertical member of the frame are to be extended upto the concrete ceiling for rigidity of the partition and extra vertical members to be provided near the door openings.</p> <p><b>ii)Aluminum hollow section</b> framework placed 900mm c/c both vertically and horizontally excepting the glazed portion to be finished with 1mm thick laminate over 9mm thick marine ply of approved make on both faces solid upto 1200 mm from floor level and above it 4 mm clear etched glass of approved design upto height 900 mm fixed with aluminum taper clip. The exposed portion of the plywood edges to be provided with wooden lipping of size 12 x 4mm and to paint /polish with the matching shade as desired/instructed.Then solid double skin type will be continued upto ceiling similar as lower portion, including providing 100mm x12mm thick hillock wood skirting with polishing /painting as per direction.</p> <p><b>iii)101 mm x 44.5 x 2.5 mm c/s aluminum box type section</b> shall be used to form corners and tee junctions and 50mmx44.5mmx2.5mm c/s along with the laminate panels shall form the wall areas by fixing double box at 900mm c/c (average) vertically and horizontally at suitable intervals defined as per the drawing ,fix to laminate panels. The base box section shall be fixed with the floor by using M10 levelling screws with hollock wood raceway 100x12 mm thick hollock wood sections shall be used to join horizontally to form raceway at skirting level and at over 650mm laminate panel of the base and similarly between two adjacent laminate panels etc all complete with materials and labours , carting away the debris outside the banks premises as</p>				

	<p>per the direction of Engineer in charge.</p> <p><b>Note: The panelling area will be measured from floor to the false ceiling level including the skirting. Rate should be inclusive of the framing, raceways, skirting, wire carrier, plywood, laminate, labour, etc all complete.</b></p>	63	Sqm		
9.2	<p>Providing and fixing</p> <p><b>i)Low height double skin partly glazed partly solid partition (Max height 2150mm)</b> made of extruded , anodized and oxidizing alloy aluminum sections of approved colour fabricated after cutting to proper size, drilling and aligning, fitted with inbuilt locking arrangement to requisite shape and size , having vertical and horizontal members of size 50mm x 44.5mm x 2.5mm at not more than 900mm c/c in both direction linked horizontally and vertically to any desired configuration . The aluminum frame shall be fixed to floor, side walls and at ceiling level with the help of aluminum flats of appropriate size or Al cleats. The first horizontal member is to be provided at floor level to keep the frame in position, extra vertical members to be provided near the door openings. The corner vertical member shall be taken upto the concrete ceiling for rigidity.</p> <p><b>ii)Aluminum hollow section</b> framework placed 900mm c/c both vertically and horizontally excepting the glazed portion to be finished with 1mm thick laminate over 9 mm thick marine ply of approved make on both faces solid upto 1200 mm from floor level and above it 4 mm clear etched glass of approved design upto height 900 mm fixed with aluminum taper clip. The exposed portion of the plywood edges to be provided with wooden lipping of size 12 x 4mm and to paint /polish with the matching shade as desired/instructed.Then solid double skin type will be continued upto ceiling similar as lower portion, including providing 100mm x12mm thick hillock wood skirting with polishing /painting as per direction.</p> <p><b>iii)101 mm x 44.5 x 2.5 mm c/s aluminum box type section</b> shall be used to form corners and tee junctions and 50mmx44.5mmx2.5mm c/s along with the laminate panels shall form the wall areas by fixing double box at 900mm c/c (average) vertically and horizontally at suitable intervals defined as per the drawing ,fix to laminate panels. The base box section shall be fixed with the floor by using M10 levelling screws with hollock wood raceway 100x12 mm thick hollock wood sections shall be</p>				

	<p>used to join horizontally to form raceway at skirting level and at over 650mm laminate panel of the base and similarly between two adjacent laminate panels etc all complete with materials and labours , carting away the debris outside the banks premises as per the direction of Engineer in charge.</p> <p><b>Note: The panelling area will be measured from floor to the top of partition including the skirting. Rate should be inclusive of the framing, raceways, skirting, wire carrier, plywood, laminate, labour, etc all complete.</b></p>	70	Sqm		
9.3	<p>Providing and fixing</p> <p><b>i)Full height double skin solid partition (Max height 2920mm)</b> made of extruded , anodized and oxidizing alloy aluminum sections of approved colour fabricated after cutting to proper size, drilling and aligning, fitted with inbuilt locking arrangement to requisite shape and size , having vertical and horizontal members of size 50mm x 44.5mm x 2.5mm at not more than 900mm c/c in both direction linked horizontally and vertically to any desired configuration . The aluminum frame shall be fixed to floor, side walls and at ceiling level with the help of aluminum flats of appropriate size or Al cleats. The first horizontal member is to be provided at floor level to keep the frame in position. Every alternate vertical member of the frame are to be extended upto the ceiling for rigidity of the partition and extra vertical members to be provided near the door openings.</p> <p><b>ii)Aluminum hollow section</b> framework placed 900mm c/c both vertically and horizontally excepting the glazed portion to be finished with 1mm thick laminate over 9 mm thick marine ply of approved make on both faces solid upto</p>				

	<p>2920 mm from floor level and 2 mm x 2 mm groove on both face including providing 100mm x12mm thick hollock wood skirting with polishing /painting as per direction.</p> <p><b>iii)101 mm x 44.5 mm x 2.5 mm c/s aluminum box type section</b> shall be used to form corners and tee junctions and 50mmx44.5mmx2.5mm c/s along with the laminate panels shall form the wall areas by fixing double box at 900mm c/c (average) vertically and horizontally at suitable intervals defined as per the drawing , fix to laminate panels. The base box section shall be fixed with the floor by using M10 levelling screws with hollock wood raceway 100x12 mm thick hollock wood sections shall be used to join horizontally to form raceway at skirting level and at over 650mm laminate panel of the base and similarly between two adjacent laminate panels etc all complete with materials and labours , carting away the debris outside the banks premises as per the direction of Engineer in charge.</p> <p><b>Note: The panelling area will be measured from floor to the false ceiling including the skirting. Rate should be inclusive of the framing, raceways, skirting, wire carrier, plywood, laminate, labour, etc all complete.</b></p>	205	Sqm		
9.4	<p>Providing and fixing</p> <p><b>i)Low height double skin solid partition (Max height 2150mm)</b> made of extruded , anodized and oxidizing alloy aluminum sections of approved colour fabricated after cutting to proper size, drilling and aligning, fitted with inbuilt locking arrangement to requisite shape and size , having vertical and horizontal members of size 50mm x 44.5mm x 2.5mm at not more than 900mm c/c in</p>				

<p>both direction linked horizontally and vertically to any desired configuration . The aluminum frame shall be fixed to floor, side walls and at ceiling level with the help of aluminum flats of appropriate size or Al cleats. The first horizontal member is to be provided at floor level to keep the frame in position, extra vertical members to be provided near the door openings.</p> <p><b>ii)Aluminum hollow section</b> framework placed 900mm c/c both vertically and horizontally finished with 1mm thick laminate over 9 mm thick marine ply of approved make on both faces solid upto 2150 mm from floor level and 2 mm x 2 mm groove on both face including providing 100mm x12mm thick hillock wood skirting with polishing /painting as per direction.</p> <p><b>iii)101 mm x 44.5 x 2.5 mm c/s aluminum box type section</b> shall be used to form corners and tee junctions and 50mmx44.5mmx2.5mm c/s along with the laminate panels shall form the wall areas by fixing double box at 900mm c/c (average) vertically and horizontally at suitable intervals defined as per the drawing ,fix to laminate panels. The base box section shall be fixed with the floor by using M10 levelling screws with hollock wood raceway 100x12 mm thick hollock wood sections shall be used to join horizontally to form raceway at skirting level and at over 650mm laminate panel of the base and similarly between two adjacent laminate panels etc all complete with materials and labours , carting away the debris outside the banks premises as per the direction of Engineer in charge.</p> <p><b>Note: The panelling area will be measured from floor to the top of partition including the skirting. Rate should be inclusive of the framing, raceways, skirting, wire carrier, plywood, laminate, labour, etc all complete.</b></p>	<p>130</p>	<p>Sqm</p>		
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<b>10.</b>	<b>ALUMINUM DOOR</b>				
	<p>Providing and fixing anodized and oxidized aluminum door powder coated of approved colour and make of aluminum extruded section as per drawing with single action heavy duty floor spring of approved brand including supplying and fixing 4 mm thick etched float glass of special selected quantity free from bubble holes etc fixed with neopheron dry set gasket and aluminum clip. The aluminum frame to be fitted on floor and wall / partition as per direction. The rate should include all necessary hard ware fittings such as concealed locks, floor springs, handles etc.</p> <p>Door frame sections :</p> <p>a) styles : 100 x 44.5 x 2.5 mm</p> <p>b) Top rail : 50 x 44.45 x 2.0 mm</p> <p>c) Lock rail : 85 x 44.45 x 2.0 mm</p> <p>d)Bottom rail : 100 x 44.45 x2.0 mm</p>	35	Sqm		
<b>11</b>	<b>Wooden works</b>				
<b>11.1</b>	<p>Providing and erecting in position low/ full height storage unit / side units / cabinets with sliding shutters of approx 600 mm deep made of 19mm thick BWR grade block board as per drawing including intermediate shelves and lockable shutters etc. The rear face of unit shall be of 6mm thick BWR grade ply boards. Exposed block board surfaces and shutter faces shall be finished with 1.00 mm laminate sheet of approved shade and make. Inner faces of the shutter and cabinet shall be polished in approved colour. The rear ply board shall be finished with two coats of synthetic enamel paint over a coat of primer. Quoted rate shall include the cost of necessary hardware fittings viz. handles , locks, pvc sliding channels, autoclosing hinges, magnetic catcher etc.(Payment shall be made on the front face area of the cabinet)</p>	10	Sqm		
<b>11.2</b>	<p>Providing and fixing in position kitchen cabinet made with 19 mm BWR grade block board fitted with teak wood frame work having section 25 mm x 37.5 mm as per drawing including intermediate shelves and lockable shutters etc .The teak wood member of the frame are to be fitted on sides and bottom and to be fitted over wall surface with rawl plug. Exposed block board surface and shutter faces shall be finished with 1.00 mm laminates of approved shade and make. Inner faces of the shutter and cabinet shall be polished in approved colour. The rear block board shall be finished with two coats of synthetic enamel paint over a coat of</p>				

	primer. Quoted rates shall include cost of necessary hardware fittings viz. handles , locks, pvc sliding channels, autoclosing hinges, magnetic catcher etc.(Payment shall be made on the front face area of the cabinet)	10	Sqm		
11.3	Providing and fixing pelmets to windows using 12mm thick approved quality plywood ,cutting to required shape and size as per the drawings in annexure, fixing to the adjacent walls with necessary fittings, fixtures and hardware, including finishing all the exposed faces with 1.0 mm thick approved quality and make laminate etc all complete as per the directions of the Bank's Engineer.	50	Sqm		
11.4	Providing and making timber planter box made of 12 mm thick PF bonded ply fitted over 2 <sup>nd</sup> class C.P teak wood frame work of section 40 mm x 40 mm. All external surface are finished with 1.00 mm laminate of approved colour and provide 20 gauge aluminum sheet to the inner side with holding bracket etc. including the cost of lipping to edges polished with complete with three coats of melamine spray polish etc complete with all labour and materials as per drawing .	20	Each		
11.5	Providing and fixing wall paneling or column encasing with 50 mm x 50 mm sal wood framework placed @ 450 mm c/c in both ways finished with matt 1.00 mm thick laminate of approved brand and colour over 6 mm thick BWR grade ply board with 100 mm x12 mm thick hollock wood skirting all as per drawing and providing 6mm thick BWR grade plyboard with heritage granules and fixing of 40 x30 mm moulding design beads with antitermite paint inside and polishing the wooden member etc complete as per direction and drawing .	250	Sqm		
11.6	Providing and fixing T W moulding of size 40mm x 12.5mm as per the specified designs finished with approved variety of polish / paint as per the directions of the Banks Engineer.	300	Rm		
11.7	i) –Do- Of size 25mm x 12.5mm	50	Rm		
	ii) –Do- of size 20mm x 12.5 mm	50	Rm		

11.8	Providing and fixing 75x 20 mm TW Architrave around doors, finished with polish / paint of approved quality and shade as per drawings and directions of the Banks Engineer etc all complete.	50	Rm		
11.9	i) ---Do--- of size 50 mmx 20 mm	50	Rm		
12.	<b>DOORS</b>				
12.1	<p>Supplying , fitting and fixing wooden composite <b>fire proof door shutter</b> of 60 minutes fire resistance rating conforming to BS 476 Part-22 / I S : 3614 part-II as per prototype tested and certified at CBRI / NTH, Kolkata for mounting to the door frame consist of Malaysian sal wood made of 120 mm x 70 mm as approved by Roorkee with heat activated intermescent fire seal strips fixed on the three sides of the frame &amp; shutter with 4 mm thick commercial ply faced on the both sides and mounted on 125 x 75 mm section treated for intermescent heat activated fire &amp; smoke check seal on the three sides of the frame and with jamming necessary MS hold fast of required shape and size .</p> <p>The door shutter consist of two non combustible boards each of 12 mm thick sandwiching with 20 mm thick fire resistant insulation filler with 4 mm commercial ply veneering on both faces and seasoned hard wood lipping all round the shutter fitted and fixed with heavy duty stainless steel hinges , tower bolts ,handles etc including providing fire resistant primer of approved quality and painting to the shutter in desired shade as per the direction.</p>	15	Sqm		
12.2	<p>Providing and fixing <b>Teak wood door frames</b> of approved quality as per the following specifications inclusive of all accessories, hardware's, fittings and finishes complete as per the directions of the Banks Engineer.</p> <p>Teak wood Frame of size 125mmx 62.5mm including 3 nos of M.S. Holdfasts on each vertical member for fixing door frame made of MS flats, end bifurcated, fixed in cement concrete with stone chips (1:2:4) fitted and fixed complete, applying two coats of Black paint on the surfaces abutting the Brick/RCC etc finishing the exposed faces of door frame with Melamine polish of approved quality, shade and finish all complete as per the directions of the Banks Engineer</p>	0.5	Cum		

12.3	<p>Providing and fixing 35mm thick partly solid and partly glazed flush type commercial door shutter including timber frame work of size 75mm x 50mm. The door shutter finished with 1mm thick laminate( without joint) of approved shade and quality on both side of the door shutter including cost of hardware fittings e.g brass hinges, mortice lock sets with handles of approved make and quality over 4mm thick approved ply on both faces and provide glass panel of 4mm thick clear etched glass fixed with 32 x 12 mm teak wood beads duly finished with French polish as per the design complete fitted with approved make floor spring , door stopper etc with all labour and materials complete</p>	5	Sqm		
12.4	<p>Supplying and fixing 32 mm thick factory made solid core hot pressed single leaf Flush Door shutter of approved quality and make bonded with Phenol formaldehyde synthetic resins (conforming to IS 2202 -part 1 &amp;2), including teak wood lipping on all exposed edges with water resistant adhesive including;</p> <ul style="list-style-type: none"> <li>a. All exposed faces be finished with 1.5 mm thick decorative laminate of approved shade and make on both faces</li> <li>b. Cost of approved brass oxidized fittings and fixtures,</li> <li>c. 3 Numbers of Heavy quality Brass Hinges of approved quality &amp; size,</li> <li>d. Handles on both faces as per approved design, pattern and make,</li> <li>e. Mortice lock of approved quality and make,</li> <li>f. Door closure 'Everite/Gurnish' – 1 no for each shutter</li> <li>g. Door stopper of approved size, design, and make,</li> <li>h. Teak wood mouldings finished with Melamine polish as per approved design, pattern and shape etc complete with all materials and labour as per the directions of the Banks Engineer</li> </ul>	10	Sqm		

12.5	<p>Supplying and fixing 32 mm thick factory made solid core hot pressed double leaf Flush Door shutter of approved quality and make bonded with Phenol formaldehyde synthetic resins (conforming to IS 2202 -part 1 &amp;2), including teak wood lipping on all exposed edges with water resistant adhesive including;</p> <p>a. All exposed faces be finished with 1.5 mm thick decorative laminate of approved shade and make on both faces</p> <p>b. Cost of approved brass oxidized fittings and fixtures,</p> <p>c. 3 Numbers of Heavy quality Brass Hinges of approved quality &amp; size for each shutter,</p> <p>d. Handles on both faces as per approved design, pattern and make for both shutters,</p> <p>e. Mortice lock of approved quality and make,</p> <p>f. Door closure 'Everite/Garnish' – 1 no for each shutter</p> <p>g. Door stopper of approved size, design, and make,- 1 no for each shutter</p> <p>h. Teak wood mouldings finished with Melamine polish as per approved design, pattern and shape etc complete with all materials and labour as per the directions of the Banks Engineer.</p>	7	Sqm		
12.6	<p>Providing , fitting and fixing 40mm thick double/ single leaf louvered panel door shutter made of CP teak wood with styles ,top and intermediate rail of 125 mm width , lock rail 150 mm width and bottom rail of 200 mm width and louvered panel made of 19 mm thick CP teak wood including bead of similar material to be placed alround the panels including fixing the shutter with heavy quality brass hinges , tower bolts , handles , aldrops etc as per direction of bank's Engineer.</p>	2.5	Sqm		
13	<b>DISMANTLING</b>				
13.1	<p>Dismantling the existing 125 / 250 mm thick brick partition walls including dado, plaster , mosaic skirting , RCC lintel etc after carefully disconnecting the water supply and sanitary connections, removing and stacking carefully the strong room doors as directed and removing of rubbish outside the premises in conformity with Municipal rule etc . complete with all labour and materials.</p>	65	Cum		
		Total			

Name Of the firm :

Signature of the Proprietor :

Date :