



## STATE BANK OF INDIA

**TENDER FOR COMPOSITE INTERIOR WORKS CONSISTING OF INTERIOR FURNISHING WORKS, ELECTRICAL WORKS, TELECOM & DATA CABLING WORKS, CCTV WORKS AND FIRE HYDRANT & SPRINKLER SYSTEM AT GF, STILT, 4<sup>TH</sup> TO 15<sup>TH</sup> FLOORS OF THE PROPOSED LHO BUILDING, KHARADI - PUNE**

**TENDER ID: MAH202412009**

**PART – A: TECHNICAL BID**

**TENDER SUBMITTED BY:**

**NAME** : \_\_\_\_\_

**ADDRESS** : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**DATE** : \_\_\_\_\_

**ARCHITECT:**

**M/S METAPHORS.**

401/2/3, PRIDE KUMAR SENATE,  
OFF. SENAPATI BAPAT ROAD,  
GOKHALE NAGAR, PUNE - 411016

CONTACT NUMBER: 8407988662 / 9665355522

E-MAIL: PAURAVI.MAHAJAN@METAPHORS-DESIGN.COM



## NOTICE INVITING TENDER

### TENDER FOR COMPOSITE INTERIOR WORKS CONSISTING OF INTERIOR FURNISHING WORKS, ELECTRICAL WORKS, TELECOM & DATA CABLING WORKS, CCTV WORKS AND FIRE HYDRANT & SPRINKLER SYSTEM AT THE PROPOSED LHO BUILDING, KHARADI – PUNE

SBI, Premises & Estate Department, LHO Maharashtra, Mumbai invites “online item rate E-tender followed by e-reverse auction” for captioned work from reputed and experienced Contractors / firms who does Composite Interior Works of similar nature & who fulfills the Minimum Eligible Criteria mentioned in the tender document.

Details of the tenders are as under:

Sr.No	Particulars	Details
1	Name of work	Tender for Composite Interior Works consisting of Interior Furnishing Works, Electrical Works, Telecom & Data Cabling Works, CCTV Works and Fire Hydrant & Sprinkler System at GF, Stilt, 4 <sup>th</sup> to 15 <sup>th</sup> floors of the proposed LHO Building, Kharadi - Pune
2	Nature of Work	Composite Interior Works.
3	Type of Tender	Item Rate Contract
4	Bidding System	Online Two Bid System with Reverse Auction
5	Website for downloading Tender Document	<a href="https://bank.sbi/">https://bank.sbi/</a> under the link “SBI in the news” --> “Procurement News”
6	Website for Online Submission of bid and Reverse Auction	<a href="https://etender.sbi">https://etender.sbi</a>
7	Estimate Value of Works	<b>Rs. 40,93,21,570/- plus GST</b>
8	Time allowed for completion	<b>90 Days from Date of Commencement</b>
9	Date of Commencement	<b>14 days from the Date of Work Order or Intimation from Project Architect / Engineer</b>
10	Earnest Money Deposit	<b>Rs. 41,00,000.00 (Rupees Forty-One Lakh Only/-)</b> by means of Demand Draft / Pay Order (Valid for a period of 90 Days from the last date of submission of the tender) from any scheduled Commercial Bank

		<p>drawn in favor of Assistant General Manager (P&amp;E) and payable at Mumbai.</p> <p><b>Exemption for only Micro &amp; Small Enterprises (MSEs) in MSME certificate.</b></p>
11	Initial Security Deposit (ISD)	<p>2% of contract amount (EMD will be returned on receipt of ISD). The successful bidder(s) shall be responsible to deposit Initial security deposit @ 2% of the Contract Value by way of demand draft in favor Assistant General Manager (P&amp;E) and payable at Mumbai within 10 days from the date of receipt of "Work Order" from SBI/Architects.</p> <p>The SBI may consider accepting ISD in the form of Bank Guarantee issued by any Scheduled Bank other than SBI in the format supplied/approved by the SBI within its sole discretion but the same cannot be considered as a right of the bidder.</p>
12	Additional security Deposit	<p>In case L-1 bidder quotes abnormally low rates (i.e. 7.5% or more, below estimated project cost), the bank may ask such bidder to deposit additional security deposit (ASD) equivalent to difference between 92.5% of estimated cost vis-à-vis L-1 quoted amount for due fulfillment of contract. Such ASD could be in the form of FDR / Bank's guarantee in the Bank's name as per format approved by the Bank. On successful completion of work ASD will be returned to the contractor. In case contractor fails to complete the work in time or as per tender specification or leave the job incomplete, the bank will be at liberty to recover the dues from ASD or to forfeit such ASD as the case may be within its sole discretion</p>
13	Date of availability of tender documents on Service Provider's website <b>Technical Bid &amp; Price Bid</b>	<p><b>19.12.2024 to 10.01.2025</b></p> <p>Available at M/s e-Procurement Technologies Ltd., our Service Provider's portal <a href="https://etender.sbi/">https://etender.sbi/</a></p>
14	Date, Time & Venue of Pre-Bid Meeting	<p><b>27.12.2024 by 11 AM</b></p> <p>Premises &amp; Estate Department, Maharashtra Circle 3<sup>rd</sup> floor, G-block, Synergy building, Bandra Kurla Complex, Bandra East Mumbai - 51.</p> <p><b>(All the queries need to be mailed on <a href="mailto:agmpe.lhomah@sbi.co.in">agmpe.lhomah@sbi.co.in</a> on or before 26.12.2024)</b></p>

15	Last date & time for submission of EMD and tender document	<b>10.01.2025 by 03:00 PM</b> Note: It is sole responsibility of the bidder to ensure submission of their EMD and tender document by stipulated date and time at specified address failing which they will not be allowed to participate in E-Tendering.
16	Address for submission of EMD and tender document.	The Assistant General Manager, Premises & Estate Department, 3 <sup>rd</sup> floor, G-block, Synergy building, Bandra Kurla Complex, Bandra East Mumbai - 51.
17	Last date & time for submission of Online Technical & Price bid	<b>10.01.2025 by 03:00 PM</b> at Service Provider's portal <a href="https://etender.sbi/SBI/">https://etender.sbi/SBI/</a>
18	Date and Time of opening of Online Technical Bid	<b>10.01.2025 by 03:30 PM</b>
19	Date and Time of Opening of price bid & Reverse Auction	<b>Will be intimated to technically qualified contractors after technical evaluation.</b>
20	Defects Liability period	One year from the date of virtual completion of work.
21	Liquidated Damages	0.50% per week subject to max. 5% of contract amount for delay in completion of work.
22	Validity of offer	90 days from the date of opening of Price-bid
23	Value of Interim Bill	<b>Rs. 5.00 Cr (Rupees Five Crore)</b> <b>No</b> advance payment on materials / plant / machinery / mobilization advance shall be paid under any circumstances
24	Deductions from Payment to Contractor	Income Tax (TDS), GST-TDS, other applicable taxes if any etc @ applicable rates
25	Submission of Tender Documents (Online)	<ol style="list-style-type: none"> <li>Contractors shall download the entire Technical Bid to get acquainted with the terms and conditions and <b>shall upload compulsorily the technical bid</b> without fail in the e-tendering portal after putting the signature and seal. Failing to upload as stated above, the tender will be rejected.</li> <li>Scanned Copy of EMD</li> <li>Online Price Bid in the online portal</li> </ol>

26	Submission of Tender Documents (Hard Copy)	<ol style="list-style-type: none"> <li>1. Contractor shall submit the whole technical bid spirally bound securely and in serial order containing all pages duly signed with company seal and date to this Office within the stipulated date and time. Failure to submit the hardcopy of Technical Bid may render the bidder disqualified.</li> <li>2. Original Copy of EMD</li> </ol>
27	Mandatory Requirements	Valid Digital Signature is a must to participate in the online tender and Reverse Auction.

28. No conditions other than mentioned in the tender will be considered, and if given they will have to be withdrawn before opening of the price-bid.

29. The SBI reserve their rights to accept or reject any or all the tenders, either in whole or in part without assigning any reason for doing so and any claim / correspondence shall be entertained in this regard.

30. Tenders received without EMD shall be summarily rejected and such tenders shall not be allowed to participate in the online price bidding process.

31. In case the date of opening of tenders is declared as a holiday, the tenders will be opened on the next working day at the same time.

32. For any clarifications regarding E-Tendering procedure, System requirements etc. please contact M/s E-Procurement Technologies Limited, Ahmedabad, whose address is mentioned in the NIT.

Yours Faithfully,

**Assistant General Manager (P&E)**



## **PROCEDURE TO BE FOLLOWED**

- (A) Contractors / firm to download the entire document from either SBI website or E-procurement portal and understand the requirements and pre-qualification criteria.
- (B) Any queries related to the tender document or drawing needs to be submitted in writing before the pre-bid meeting date and time.
- (C) Submission of following documents in E-procurement portal before the due date and time.
  - i. Signed & Scanned copy of Technical Bid
  - ii. Signed & Scanned copy of relevant annexures and documents as per the technical bid & NIT
  - iii. Scanned copy of EMD
  - iv. Online Submission of duly filled Price Bid
- (D) Submission of following documents at our office before the due date and time.
  - i. Signed & Scanned copy of Technical Bid
  - ii. Signed & Scanned copy of relevant annexures and documents as per the technical bid & NIT
  - iii. EMD in original
- (E) Opening of Technical Bid by SBI on the E-procurement portal along with checking of hard copies at our office on the stipulated date and time as per NIT.
- (F) Evaluation of Technical Bid
- (G) Opening of Price bids on E-procurement portal of Technically qualified contractors / firms / bidders.
- (H) E-reverse auction through E-procurement portal.
- (I) Allotment of work to the L-1 bidder post approvals from SBI.



## MINIMUM ELIGIBILITY CRITERIA FOR PRE-QUALIFICATION

The Firms / Contractors as a Composite Interior Works executing firm must fulfil each of the following criteria. The applications of the firms / contractors not fulfilling the following criteria will not be considered for pre-qualification.

The Companies / Firms that fulfill the criteria as given below shall be eligible:

- a) The Company should be either a Partnership or a Public Limited Company or a Private Limited Company or Proprietorship firm registered under the Indian Companies Act 1956 / Companies Act 2013.
- b) The firm / company should have an experience of minimum **07** years in relevant field i.e. Composite Interior Furnishing Works of buildings as on **30.11.2024**.
- c) The said contractor / firm must have valid electrical contractor license
- d) The firm / company should have registration with GST, PF, ESIC, PAN No. and Prof. Tax etc. (as applicable) submit the proof of the same.
- e) The firm should produce acknowledgement and copy returns of IT along with Chartered Accountant Certificate for the last three years.
- f) **Bidders / Contractors** who fulfill the following requirements shall be eligible to apply. Joint ventures are not accepted.
- g) The bidder should have satisfactorily completed the works mentioned below during the last **7 (seven) years** ending on **30.11.2024**:
  - i. At least one similar project of minimum **Rs. 32.74 Crores** each  
or
  - ii. two similar projects **of minimum Rs. 20.47 Crores** each  
or
  - iii. three similar projects of minimum **Rs. 16.37 Crores** each

during **last 7 years ending on 30.11.2024**. These completed works should be in Composite Interior Works and the value of work mentioned is excluding GST.

**“Similar Works”:-** The definition of similar work shall mean completed Composite Interior Works which should include Interior, Electrical, Telecom & Data Cabling, CCTV & Security Systems, Fire Alarms and related works etc. executed for Central Govt. Dept. / State Govt. Dept. / Semi Govt. Dept. / PSU / Public sector Banks / Reputed Private Sector Organisations during last 7 years as on 30.11.2024”. Please refer brief description of work contained in this document. The work order and the completion certificate shall clearly indicate works completed pertaining to the above-mentioned services and as such the break-up thereof, which has to satisfy the minimum works qualifying criteria.



**h) Average Annual Financial Turnover:**

Bidder should have had Average Annual Financial Turnover of **Rs. 12.28 Crores** on Interior works during the last three years ending 31st March 2024. Scanned copy of Certificate from CA with Unique Document Identification Number (UDIN) to be uploaded, in support of claim.

**i) Profit/Loss:**

Bidder should not have incurred any loss (profit after tax should be positive) in more than two years during the last five years ending 31st March 2024. (Standalone financial statement), duly audited and certified by the Chartered Accountant.

**j) Solvency Certificate:**

Bidder should submit a Solvency Certificate from a Scheduled Commercial Bank for **Rs.12.28 Crores** issued after 1<sup>st</sup> September, 2024 as per **Form-B** of this tender document.

**NOTE:**

1. Only works executed in India shall be considered for similar work.
2. After completion of the work, vendor needs to provide 25-year warranty certificate from OEM of LAN Cabling.
3. Qualified similar works may be physically inspected by the SBI Officials/ Project Architect to ascertain the completion, performance on Quality of works for finalizing the technical bids.
4. If private work is shown in support of eligibility criteria, certified copy of Tax deducted at source (TDS) Certificate Form 16A and 26A) shall be submitted along with the experience certificate and TDS amount shall tally with the actual amount of work done. Otherwise, the amount that tally with TDS shall only be considered for eligibility.
5. Completion of work for the purpose of considering experience shall mean completion of entire work in contract and not completion of some portion of the contract even though some portion may be satisfying the magnitude and physical attributes of similar work.





**APPLICATION FORM**

**Pre-Qualification of Contractors / Firms for Composite Interior Works consisting of Interior Furnishing Works, Electrical Works, Telecom & Data Cabling Works, CCTV Works and Fire Hydrant & Sprinkler System at GF, Stilt, 4<sup>th</sup> to 15<sup>th</sup> floors of the proposed LHO Building, Kharadi - Pune**

**(Please read the Application Documents carefully before filling-up)**  
**(Please strike-off which is not applicable)**

1	Name of the Contractor / Firm	
2a	Full Postal Address of Contractor / Firm	
2b	Telephone & Mobile No.	
2c	Email ID	
3	Main Activities of Contractor / Firm (Please use additional sheet, if required)	
4	Year of establishment of Contractor/ Firm (Enclose certified copies of relevant documents)	
5	Constitution of Firm (Enclose certified copies of relevant documents)	Sole Proprietorship / LLP / Partnership/ Private Ltd. / Public Ltd. / Any other (Please specify)
6	Name of the Proprietor / Partners / Directors of the Organization / Firm.	1. 2. 3.
7a	Details of Authorized Signatory (i) Name of Authorized Signatory	
	(ii) Phone No.	
	(iii) Mobile No.	
	(iv) Email-ID	
7b	Mode of Authorization of Authorized signatory (Enclose certified copies of relevant documents as)	Resolution / Partnership Deed / Registered Power of Attorney / Proprietor/any other (please specify)

8	Whether registered with the registrar of companies / Registrar of firms. If so, mention number and dates. (Enclose certified copies of relevant documents)	
9a	PAN No. (Income tax) (Enclose certified copies of relevant documents)	
9b	GST No. (Enclose certified copies of relevant documents)	
9c	PF Registration No. (Enclose certified copies of relevant documents)	
9d	ESIC Registration No. (Enclose certified copies of relevant documents as)	
10	If Registered in the Panel of other Organizations such as CPWD, PWD, MES, Banks etc. Mention Name of Organization, Registration No. & Date and Category (Enclose certified copies of relevant documents)	
11a	Banker's Details: (Enclose certified copies of Cancelled Cheque)	
	(i) Banker's Name	
	(ii) Full Postal Address of Branch	
	(iii) Telephone No.	
	(iv) Account No.	
	(v) Type of Account	
11b	Solvency Limit (Enclose certified copies of relevant documents)	
12a	Yearly turnover of the Firm during the last 03 financial years  (Enclose copy of Affidavit / Certificate from Chartered Accountant mentioning turnover of last 03 financial years)	F.Y. 2023-24:  F.Y. 2022-23:  F.Y. 2021-22:  Average :
12b	Profit & Loss Statement of the last 03 financial years (Enclose self- certified one-page summarized balance sheet (audited) and one page of summarized Profit & Loss Account for the last 03 years collectively)	F.Y. 2023-24:  F.Y. 2022-23:  F.Y. 2021-22:

13	Whether last three years IT returns filed (Please enclose certified copies of the IT Returns of 2021-22, 2022-23 and 2023-24) (Enclose certified copies of relevant documents Certificates)	Yes / No
14	Details of similar works executed & completed. (Enclose certified copies of Work Completion Certificates)	Please fill up enclosed <b>Annexure-I</b> & enclose copies of Work Order & Work Completion Certificates)
15	Details of similar works on hand.	Please fill up enclosed <b>Annexure-II</b>
16	Please attach certified copies of Performance Report of at least 3 works referred to in Annexure-I	Attach Performance Reports duly filled- in & signed by the Competent Authority of the Client as per <b>Annexure-III</b>
17	Any other relevant information	Fill and attach as <b>Annexure-IV</b>
18	Name, Address, Email and Contact Nos. of at least 3 persons who are in position and competent to report about the quality and performance of your Firm. (These 3 persons should have been associated with any 3 completed similar works mentioned in Annexure-I).	
19	Details (including status) of all the disputes (including Litigation, Arbitration, Mediation etc.) pertaining to all Contracts between Applicant's Firm and Clients during the last 07 years (i.e. from 31.03.2017) (Please use additional sheet, if required)	
20	Details of all delisting / debaring / blacklisting / de-paneling etc. of the Applicant Firm by any Organization / Client during the last 07 years (i.e. from 31.03.2017)	
21	Details (Name, Designation, PF No.) of near relatives working in State Bank of India. (for definition of near relatives please refer Instructions, Terms and Conditions)	
22	Electrical License No.in the name of the Contractor / firm (Enclose certified copies of relevant documents as)	

**(Note:- All Enclosures must be self-certified by Authorised Signatory)**



1. I/We have read and understood all the contents of these Application Documents and are acceptable to us.I/We also certify that my/our firm fulfils the ELIGIBILITY CRITERIA for this work.
2. I/We hereby confirm and certify that the information given above are correct and true and the Annexures / Enclosures etc. enclosed herewith are genuine.
3. I/We are authorized to sign and submit the Application Documents for pre- qualification.
4. I/We understand and agree that if at any stage it is found/ noticed by the Bank that any information provided by us is untrue / incorrect, partly or fully and / or concealed in these Application Documents and / or also in case of receipt of any adverse / unsatisfactory report from previous or present clients / Bankers, the Bank on its own discretion may reject application at any stage and/or may de-list us from PQ/Empanelment List and/or may take any other appropriate action.
5. I/We also understand and agree that partly / wrongly filled application and / or applications not on prescribed proforma and / or applications not accompanying relevant Documents / Enclosures / Annexures and Application Documents not signed by the Authorised Signatory and / or received after the due date and time are liable to be summarily rejected by the Bank at its own discretion.
6. I/We understand and agree that this is merely an application/ and does not entitle us to be necessarily pre-qualified by the Bank and/or invite us for participation intender process and Bank reserves the right to reject all and / or any application without assigning any reason thereof.

**(Signature of Authorised Signatory)**

**(Seal of the Firm)**

**Name :** .....

Designation in Firm: .....

**Place:** .....

**Date** .....

(Please ensure to enclose all annexures / enclosures / relevant documents etc with application documents before submitting)

**COMPLETEDWORKS**

**DETAILS OF ELIGIBLE SIMILAR NATURE OF WORKS COMPLETED DURING THE LAST SEVEN YEARS ENDING 30<sup>th</sup> NOVEMBER 2024.**

**Important - (Please mention all Amounts without GST)**

<b>S.No</b>	<b>Particulars</b>	<b>Similar work - 1</b>		<b>Similar work - 2</b>	
1	Name of Work/Project				
2	Site Address				
3	Name of Client /Organization				
4	Name				
	Designation				
	Contact No.				
	Email Id				
	Address of Officer i/c of Client to whom reference can be made				
5 A	Estimated Cost as per Tender floated / issued	Rs.	Crores	Rs.	Crores
5 B	Contract Cost	Rs.	Crores	Rs.	Crores
6	Completion Cost	Rs.	Crores	Rs.	Crores
7 A	Date of Start of Work as per Contract / Work Order				
7 B	Actual Date of Start of Work				
8 A	Scheduled date of Completion of work as per Contract				
8 B	Actual Date of Completion of Work				
9 A	Stipulated Period of Completion as per Contract (Months)				

9 B	Actual Time taken in Completion (in Months)		
10	Number of Authorized Extension granted by Client		
11	Reasons of Delay		
12	Penalty / LD Amount		
13	Details of Dispute / Litigation, if any		
14	Scope of Works (Interior / Electrical / Data Cabling / CCTV etc)		
15	Any other relevant information, if the applicant wants to furnish.		

Additional Sheets on the same format may be used, if required.

**WORKS IN HAND**

**DETAILS OF ELIGIBLE SIMILAR NATURE OF WORKS IN HAND DURING THE LAST SEVEN YEARS ENDING 30<sup>th</sup> NOVEMBER 2024.**

**Important - (Please mention all Amounts without GST)**

S.No	Particulars	Similar work - 1	Similar work - 2
1	Name of Work/ Project		
2	Site Address		
3	Name of Client / Organization		
4	Name		
	Designation		
	Contact No.		
	Email Id		
	Address of Officer i/c of Client to whom reference can be made		
5 A	Estimated Cost as per Tender floated / issued	Rs. Crores	Rs. Crores
5 B	Contract Cost / Value	Rs. Crores	Rs. Crores
6	Date of Start at site		
7	Present Status of Work / Progress at Site		
8	Scope of Works (Interior / Electrical / Data Cabling / CCTV etc)		

Additional Sheets on the same format may be used, if required.

**PERFORMANCE REPORT**

**Important - (Please mention all Amounts without GST)**

S.No.	Particulars	Details
1	Name of Work	
2	Location	
3	Estimated Cost	Rs.
4	Tendered Cost	Rs.
5	Actual Completion Cost	Rs.
6	Date of Start	
7 A	Stipulated Date of Completion	
7 B	Actual Date of Completion	
8	Any Liquidated Damages / Penalty / Levy decided, if Yes, Amount	Yes / No Rs.
9	Performance Report	Outstanding / Very Good / Good / Average / Poor
(i)	Quality of Work	Outstanding / Very Good / Good / Average / Poor
(ii)	Timely Execution	Outstanding / Very Good / Good / Average / Poor
(iii)	Integrity as regard to Working	Outstanding / Very Good / Good / Average / Poor
(iv)	Ease in settling Extra Items	Outstanding / Very Good / Good / Average / Poor
(v)	Resourcefulness	Outstanding / Very Good / Good / Average / Poor
(vi)	Technical Proficiency	Outstanding / Very Good / Good / Average / Poor
(vii)	Litigation	Yes / No
(viii)	General Behavior / Conduct	Outstanding / Very Good / Good / Average / Poor
10	Additional Information / Re-marks	

Additional Sheets on the same format may be used, if required.

(Signature of Officer/Engineer Incharge)  
(Not below Ex. Engineer or Equivalent)

(Seal of the Officer)

Designation:

Date:



**OTHER RELEVANT INFORMATION**

<b>Details of Technical Staff with Firm / Contractor</b>				
A	Name of Manager / Engineer / Supervisor	Qualification	With Firm for how many years	Total Experience in Years
1				
2				
3				
4				
5				
6				
7				
8				
9				

(Please Use additional sheets on same Format, if Required)

Signature of Contractor with Seal

**FINANCIAL INFORMATION**

**I. Financial Analysis: Details to be furnished duly supported by figures in balance sheet / profit & loss account for the last five years duly certified and audited by the Chartered Accountant, as submitted by the applicant to the Income Tax Department (Copies to be attached):**  
**(Amounts - Rupees in Lakhs)**

Sr. No	Particulars	Financial Year				
		2019-20	2020-21	2021-22	2022-23	2023-24
i	Gross annual Turnover on construction works					
ii.	Profit/Loss (standalone financial statement and consolidated financial statement both).					

II. Financial arrangements for carrying out the proposed work.

Signature of Chartered Accountant with Seal

Signature of Bidder(S)

Signature of Contractor with Seal

**FORM OF BANKERS' / SOLVENCY CERTIFICATE OF RECENT DATE I.E NOT BEFORE 1<sup>ST</sup> SEPTEMBER 2024**

To,  
The Assistant General Manager,  
Premises & Estate department,  
**State Bank of India**, Maharashtra Circle,  
Local Head Office, 3rd Floor,  
Synergy, C-6, G-Block, Bandra Kurla Complex,  
Bandra (E), Mumbai-400 051.

No.:

Date:

**SOLVENCY CERTIFICATE**

This is to certify that, to the best of our knowledge and information, M/s / Sri....., a customer of our bank, has been maintaining Savings Bank / Current Account bearing number.....with our ..... Branch, since ..... (Month and Year). We understand from the customer that the certificate is for the purpose of Tender with your organisation. We further certify that M/s / Shri / Smt. ....is solvent to the extent of INR ..... (Rupees.....only).

This certificate issued by the Bank on the specific request of the customer and should be regarded as without any guarantee or liability, financial or otherwise, on the part of the Bank or its officials.

(Signature)  
For the Bank

Note:

1. Bankers 'certificate should be original on the letter head of the Issuing Bank duly sealed in cover and addressed to enlistment authority.
2. In case of partnership firm, certificate to include names of all partners as recorded with the Bank.

Signature of Contractor with Seal

To:  
The Assistant General Manager,  
Premises & Estate department,  
**State Bank of India**, Maharashtra Circle,  
Local Head Office, 3rd Floor,  
Synergy, C-6, G-Block, Bandra Kurla Complex,  
Bandra (E), Mumbai-400 051.

**Subject: Submission of bids for the work of Composite Interior Works consisting of Interior Furnishing Works, Electrical Works, Telecom & Data Cabling Works, CCTV Works and Fire Hydrant & Sprinkler System at GF, Stilt, 4th to 15th floors of the proposed LHO Building, Kharadi - Pune**

Sir,

Having examined details given in press Notice and bid document for the above work, I/we hereby submit the relevant information:

"It is to certify that as per the audited balance sheet and profit & loss account during the financial year \_\_\_\_\_, the Net-worth of M/s \_\_\_\_\_ (Name & Registered address of the individual / firm / company), as on 31st March 2024 is Rs. \_\_\_\_\_ after considering all liabilities. It is further certified that the Net-worth of the company has not eroded by more than 30% in the last three year ending on 31st March 2024."

**(Signature of the Chartered Accountant)**

**Name of the Chartered Accountant**

**Membership no of ICAI**

**Date & Seal**

Signature of Contractor with Seal

**PROFORMA OF AFFIDAVIT FOR EXECUTION OF SIMILAR WORKS**

I/We undertake and confirm that eligible similar works(s) has/have not been got executed through another contractor on back-to-back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for bidding in State Bank of India in future forever. Also, if such a violation comes to the notice of State bank of India before date of start of work, the Assistant General Manager (P&E) shall be free to forfeit the entire amount of Earnest Money Deposit / Performance Guarantee.

(Scanned copy to be uploaded at the time of submission of bid)

NOTE: Affidavit to be furnished on a 'Non-Judicial' stamp paper worth Rs.500/-

Signature of Bidder(s) or an authorized

Officer of the firm with stamp

Signature of Notary with Seal

Signature of Contractor with Seal

**PROFORMA OF AFFIDAVIT FOR NON - BLACK LISTING**

I/we undertake and confirm that our firm/partnership firm has not been blacklisted by any State/Central Departments/PSUs/Autonomous bodies during the last 7 years of its operations. Further that, if such information comes to the notice of the State Bank of India then I/we shall be debarred for bidding in State Bank of India in future forever. Also, if such an information comes to the notice of State Bank of India on any day before date of start of work, the Assistant General Manager (P&E) shall be free to cancel the agreement and to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee (Scanned copy of this notarized affidavit to be uploaded at the time of submission of bid)

NOTE: Affidavit to be furnished on a 'Non-Judicial' stamp paper worth Rs.500/-.

Signature of Bidder(s) or an authorized

Officer of the firm with stamp

Signature of Notary with seal

Signature of Contractor with Seal

**STRUCTURE & ORGANIZATION**

1	Name & Address of the bidder	
2	Telephone No. / Email id / Telex No./ Fax No.	
3	Legal status of the bidder (attach copies of original document defining the legal status) (a) An Individual (b) A proprietary firm (c) A firm in partnership (d) A limited company or Corporation	
4	Particulars of registration with various Government Bodies (attach attested photocopy).	
	Organization/Place of Registration	Registration No.
	(i)	
	(ii)	
	(iii)	
5	Names and Titles of Directors & Officers with designation to be concerned with this work	
6	Designation of individuals authorized to act for the organization	
7	Has the bidder or any constituent partner in case of partnership firm, ever abandoned the awarded work before its completion? If so, give name of the project and reasons for abandonment.	
8	Has the bidder or any constituent partner in case of partnership firm/ Limited company /Joint venture, ever been convicted by the court of law? If so, give details	
9	In which field of Civil Engineering Construction, the bidder has specialization and interest?	
10	Any other information considered necessary but not included above	

**Signature of bidder(s)**

Signature of Contractor with Seal

**SECTION – 1**

**INSTRUCTIONS TO THE TENDERERS**

**1.0 Scope of work**

E-Tenders are invited by SBI, Premises & Estate Department, LHO Maharashtra, Mumbai for Tender for Composite Interior Works consisting of Interior Furnishing Works, Electrical Works, Telecom & Data Cabling Works, CCTV Works and Fire Hydrant & Sprinkler System at GF, Stilt, 4th to 15th floors of the proposed LHO Building, Kharadi - Pune

**1. Site and its location**

The proposed work is to be carried out at **GF, Stilt, 4<sup>th</sup> to 15<sup>th</sup> floors of Clock Tower, Kharadi, Pune**

**2.0 Tender documents**

2.1 The work has to be carried out strictly according to the conditions stipulated in the tender consisting of the following documents and the most workmen like manner.

**Instructions to tenderers**  
**General conditions of Contract**  
**Special conditions of Contract**  
**Additional specifications**  
**Drawings**  
**Price bid A**

2.2 The above documents shall be taken as complementary and mutually explanatory of one another but in case of ambiguities or discrepancies, shall take precedence in the order given below;

- a) Price Bid
- b) Technical specifications
- c) Drawings
- d) Special conditions of contract
- f) General conditions of contract
- g) Instructions to Tenderers

2.3 The tender documents are not transferable.

Signature of Contractor with Seal



### 3.0 **Site Visit**

- 3.1 The tenderer must obtain himself on his own responsibility and his own expenses all information and data that may be required for the purpose of filling this tender document and enter into a contract for the satisfactory performance of the work. The tenderer is requested satisfy himself regarding the availability of water, power, transport and communication facilities, the character quality and quantity of the materials, labour, the law-and-order situation, climatic conditions local authorities' requirement, traffic regulations etc.

The tenderer will be fully responsible for considering the financial effect of any or all the factors while submitting his tender.

### 4.0 **Earnest Money**

- 4.1 The tenderers are requested to submit the Earnest Money of **Rs. 41,00,000.00 (Rupees Forty-One Lakh Only/-)** by means of Demand Draft / Pay Order (Valid for a period of 90 Days from the last date of submission of the tender) from any Scheduled Commercial Bank drawn in favour of Assistant General Manager (P&E) payable at Mumbai.

- 4.2 EMD in any other form other than as specified above will not be accepted. Tender not accompanied by the EMD in accordance with clause 4.1 above shall be rejected.

- 4.3 No interest will be paid on the EMD.

- 4.4 EMD of unsuccessful tenderer will be refunded within 30 days of award of Contract.

- 4.5 EMD of successful tenderer will also be returned on receipt of Initial Security Deposit.

### 5.0 **Initial/ Security Deposit**

The successful tenderer will have to submit a sum equivalent to 2% of accepted tender value in favour of SBI within a period of 10 days of acceptance of tender. EMD will be returned on receipt of Initial security Deposit.

### 6.0 **Security Deposit**

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- 6.1** Total security deposit shall be 5% of contract value. Out of this 2% of contract value is in the form of Initial Security Deposit (ISD) which includes the EMD. Balance 3% shall be deducted from the running account bill of the work at the rate of 10% of the respective running account bill i.e., deduction from each running bill account will be @10% till Total Security Deposit (TSD) including ISD reaches to 5% of contract value. The 50% of the Total Security Deposit shall be paid to the contractor on the basis of Architect's certifying the virtual completion. The balance 50% would be paid to the contractors after the defects liability period as specified in the contract.

The SBI may consider accepting ISD in the form of Bank Guarantee issued by any Scheduled Bank other than SBI in the format supplied/approved by the SBI within its sole discretion but the same cannot be considered as a right of the bidder.

**6.2 Additional Security Deposit**

In case L-1 bidder quotes abnormally low rates (i.e. 7.5% or more, below estimated project cost), the bank may ask such bidder to deposit additional security deposit (ASD) equivalent to difference between 92.5% of estimated cost vis-à-vis L-1 quoted amount for due fulfillment of contract. Such ASD could be in the form of FDR / Bank's guarantee in the Bank's name as per format approved by the Bank. On successful completion of work ASD will be returned to the contractor. In case contractor fails to complete the work in time or as per tender specification or leave the job incomplete, the bank will be at liberty to recover the dues from ASD or to forfeit such ASD as the case may be within its sole discretion.

- 6.3** No interest shall be paid to the amount retained by the Bank as Security Deposit & Additional Security Deposit.

**7.0 Signing of contract Documents**

The successful tenderer shall be bound to implement the contract by signing an agreement and conditions of contract attached herewith within 30 days from the receipt of intimation of acceptance of the tender by the Bank. However, the written acceptance of the tenders by the Bank will constitute a binding agreement between the Bank and successful tenderer whether such formal agreement is subsequently entered into or not.

**8.0 Completion Period**

Time is essence of the contract. The work should be completed in all respect accordance with the terms of contract within a period of **90 days** from the date of Commencement of work.

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9.0 **Validity of tender**

Tenders shall remain valid and open for acceptance for a period of 90 days from the date of opening price bid. If the tenderer withdraws his/her offer during the value period or makes modifications in his/her original offer which are not acceptable to Bank without prejudice to any other right or remedy the Bank shall be at liberty forfeit the EMD.

10.0 **Liquidated Damages**

The liquidated damages shall be 0.50% per week subject to a maximum of 5% of contract value.

11.0 **The rate quoted shall be firm and shall include all costs, allowances, taxes, octroi etc. except G.S.T, which shall be payable / reimbursed at actuals.**

11.1 The SBI reserve their rights to accept any tenders, either in whole or in part or may entrust the work in phases or may drop the part scope of work at any stage of the project or get the works done through another contractor at the cost of the accepted tenderer within its sole discretion without assigning any reason(s) for doing so and no claim / correspondence shall be entertained in this regard.

11.2 In case it is decided by the SBI to reduce the scope of work at any stage of the project, the contractor shall not be entitled to raise any claim / compensation on account of reduction in scope of work. Also, the SBI may consider for increase in scope of similar work in other buildings in phases but within a reasonable time interval and the contractor shall be bound to execute the same within the stipulated time period and as per rates quoted by them in this tender without any claim for price escalation.

**LETTER OF UNDERTAKING**

To,  
**The Assistant General Manager,**  
 Premises & Estate Department,  
 3rd floor, G-block, Synergy building,  
 Bandra Kurla Complex,  
 Bandra East Mumbai -51

Dear Sir,

Having examined the drawings, specification, design and schedule of quantities relating to the works specified in the memorandum hereinafter set out and having visited and examined the site of the works specified in the said memorandum and having acquired the requisite information relating thereto as affecting the tender, I/We hereby offer to execute the works specified in the said memorandum at the rates mentioned in the attached Schedule of Quantities and in accordance in all respects with the specifications, design, 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	Tender for Composite Interior Works consisting of Interior Furnishing Works, Electrical Works, Telecom & Data Cabling Works, CCTV Works and Fire Hydrant & Sprinkler System at GF, Stilt, 4th to 15th floors of the proposed LHO Building, Kharadi - Pune
(b)	Earnest Money	<b>Rs. 41,00,000.00 (Rupees Forty-One Lakh Only/-)</b> by means of Demand Draft / Pay Order (Valid for a period of 90 Days from the last date of submission of the tender) from any scheduled Commercial Bank drawn in favour of Assistant General Manager (P&E) payable at Mumbai.
(c)	Time allowed for completion of the Works from date of commencement of works.	<b>90 Days</b>

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- 1) 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 may be applicable or in default thereof to forfeit and pay to SBI the amount mentioned in the said contract.
- 2) I / We have deposited a sum of **Rs. 41,00,000.00 (Rupees Forty-One Lakh Only/-)** as Earnest Money with SBI 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 SBI.
- 3) I/ We have read and understood various clauses of this tender and hereby submit our specific undertaking and concurrence in terms clause 6.2 of "Instruction to tenderer" to deposit **Additional Security Deposit (ASD)** of required amount as provided for in this tender and within the stipulated period, in case, my/our tender is found too low (i.e. beyond 7.5% of the estimated cost), as a performance guarantee for due fulfilment of our contractual obligation for the project.

Further, under any circumstances, whatsoever, if I/We fail to comply the same including compliance of any such other conditions of tender within the stipulated time. I /We hereby, authorized SBI to cancel my/Our tender, to forfeit my EMD/ISD/ASD and to take further necessary action as deemed fit including debarring our firm from participating in SBI future tenders/de-paneling etc.

- 4) I/ We understand that as per terms of this tender, SBI may consider accepting our tender in part or whole or may entrust the various work proposed in phases. We, therefore, undertake that we shall not raise any claim/ compensation in the eventuality of Bank deciding to drop any of the work from the scope of work of this tender at any stage during the contract period. Further, we also undertake to execute the work entrusted to us in phases on our approved percentage and within stipulated time limit without any extra claim for price escalation as also provided for in the clause 11.2 "Instructions to Tenderers" of this tender.
- 5) I/ We, hereby, also undertake that, we will not raise any claim for any escalation in the prices of any of the material during the currency of contract/execution/completion period including authorized extended contract period, if any.

6) Our Bankers are:

i)

ii)

Signature of Contractor with Seal

The names of partners of our firm are:

i)

ii)

Name of the partner of the firm

Authorised 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 Contractors.

Signature and addresses of Witnesses

i)

ii)

Signature of Contractor with Seal

(To be printed in the letter head of the Company/ Firm, duly signed and stamped and **Original in physical form shall be submitted along with EMD**)

## **FORM OF SUBMISSION OF TENDER**

The Assistant General Manager (P &E)  
State Bank of India  
Local Head Office, Maharashtra

Dear Sir/s,

**Ref: Tender for Composite Interior Works consisting of Interior Furnishing Works, Electrical Works, Telecom & Data Cabling Works, CCTV Works and Fire Hydrant & Sprinkler System at the proposed LHO Building, Kharadi - Pune**

I/We have examined the above tender and subsequent pre-bid clarifications/ modifications / revisions, if any, furnished by M/s SBI and I/We have inspected the site of works and have made me / us fully acquainted with the local conditions in and around the sites of works and offer to undertake Contract as detailed in this tender by submitting my/our online bids in the Bank's e-tender portal.

1. While submitting this Bid, I / We certify that:
  - i) The undersigned is authorized to sign on behalf of the Bidder and the necessary support document delegating this authority is uploaded along with the bid.
  - ii) We certify that we have not made any changes in the contents of the tender document read with its amendments/ clarifications provided by M/s SBI, submitted by us in our Bid document.
  - iii) The rate quoted in the price Bids are as per the tender and subsequent pre-Bid clarifications/ modifications/ revisions furnished by the Bank, without any exception.
2. We agree to abide by all the Bid terms and conditions, contents of Agreement and the rates quoted in the bid, which shall remain binding upon us.
4. If our Bid is accepted, we undertake to enter into and execute at our cost, when called upon by the Bank to do so, a contract in the prescribed form and we shall be jointly and severally responsible for the due performance of the contract.
5. Until a formal contract is prepared and executed, this Bid, together with your written acceptance thereof and your notification of award, shall constitute a binding Contract between us.
6. It is further certified that the contents of our Bid are factually correct. We also accept that in the event of any information / data / particulars proving to be incorrect, SBI will have the right to disqualify us from the Bid.

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7. We understand that you are not bound to accept the lowest or any Bid you may receive and you may reject all or any Bid without assigning any reason or giving any explanation whatsoever.

8. We hereby undertake that our name does not appear in any “**Caution**” list of RBI / IBA or any other regulatory body.

9. We also confirm that we have not been **blacklisted** by any Bank / PSU / State or Central Govt departments for any reasons.

10. We confirm that we do not have any **litigation / cases** pending against us in any Bank / PSU / State or Central Govt departments.

11. We confirm that we are responsible to obtain all necessary licenses, permission, NOC from all the statutory /local authorities for the smooth execution of this contract in SBI premises.

12. We hereby confirm that all the materials/components/spare parts/equipment etc. to be supplied /used as a part of this contract shall be original / new materials / components / parts / equipment only from respective OEMs of the products and that no refurbished / duplicate / second hand materials/ components/parts/ equipment shall be supplied or shall be used.

13 I/ We do hereby unconditionally accept all the terms and conditions of this tender document and BOQ published in the e-tendering website <https://etender.sbi>. We hereby agree to submit the signed and stamped copy of the technical Bid and Priced Bill of Quantities, which shall form part of the agreement, if I/ we become L-1 bidder in the tendering process.

14. For any type of deviation (to any of above or subsequent instructions), it will be my/ our responsibility to obtain the written instruction of the Engineer-in-charge for the same failing which it shall be deemed that I have carried out any such deviations at my own and I shall be duty bound to replace the all deviated material/ works from the site at my/ our cost as well as I shall be liable to penalized by the SBI as deemed fit and for all such loses made thereof, I/ we shall not have any right to arbitrate in any manner.

Yours Faithfully,

Signature of the bidder with Stamp \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Signature of Contractor with Seal



**Contact Information**

<b>E-Procurement Technologies Ltd.</b>	<b>State Bank of India</b>
<p>B-704, Wall Street - II, Opp. Orient Club, Nr. Gujarat College, Ahmedabad - 380 006. Gujarat State, India</p> <p>Tel.: +91 79 61200 579   580   567   569   566</p> <p>Mr.Kushboo Mehta E-mail : kushboo.mehta@eptl.in Contact No :9510813528 / 9081000427</p> <p>Mr. Nandan Valera Email: <a href="mailto:nandan.v@eptl.in">nandan.v@eptl.in</a> Contact No: 9081000427 / 6354919566</p>	<p>Premises Department, Local Head Office Maharashtra, 3<sup>rd</sup> floor, Synergy building, G-block, Bandra Kurla Complex, Bandra East, Mumbai – 51 Ph: 022- 26445630</p> <p><b>ARCHITECT:</b> M/S METAPHORS. 401/2/3, PRIDE KUMAR SENATE, OFF. SENAPATI BAPAT ROAD, GOKHALE NAGAR, PUNE - 411016 CONTACT NUMBER: 8407988662 / 9665355522 E-MAIL: PAURAVI.MAHAJAN@METAPHORS- DESIGN.COM</p> <p>Officer Name: Mr. R. B. Upadhyaya. Department: Premises &amp; Estate (Civil) Contact No :7696001050 E-mail: <a href="mailto:agmcivil.lhomah@sbi.co.in">agmcivil.lhomah@sbi.co.in</a></p> <p>Officer Name: Shri. Hareesh M.K. Department: Premises &amp; Estate (Electrical) Contact No :8433743831 E-mail: <a href="mailto:hareesh.mk@sbi.co.in">hareesh.mk@sbi.co.in</a></p> <p>Officer Name: Shri. Kishor B Zope. Department: Premises &amp; Estate (Telecom &amp; Data) Contact No :8879662233 E-mail: <a href="mailto:kbz@sbi.co.in">kbz@sbi.co.in</a></p> <p>Officer Name: Shri. Capt. PMK Rajesh Department: Premises &amp; Estate (Security) Contact No :9951777740 E-mail: <a href="mailto:agmsec.lhomah@sbi.co.in">agmsec.lhomah@sbi.co.in</a></p> <p>Officer Name: Mr. Nitheesh C.J. Department: Premises &amp; Estate (Civil) Contact No : 7506243001 E-mail: <a href="mailto:nitheesh.ncj@sbi.co.in">nitheesh.ncj@sbi.co.in</a></p>

Signature of Contractor with Seal

**(B) SAMPLE BUSINESS RULE DOCUMENT**

**ONLINE E-TENDERING FOR COMPOSITE INTERIOR WORKS CONSISTING OF INTERIOR FURNISHING WORKS, ELECTRICAL WORKS, TELECOM & DATA CABLING WORKS, CCTV WORKS AND FIRE HYDRANT & SPRINKLER SYSTEM AT GF, STILT, 4TH TO 15TH FLOORS OF THE PROPOSED LHO BUILDING, KHARADI - PUNE**

**(A) Business rules for E-tendering:**

1. Only empaneled contractors with SBI under appropriate category who are invited by the project Architect/SBI shall only be eligible to participate.
2. SBI will engage the services of an E-tendering service provider who will provide necessary training and assistance before commencement of online bidding on Internet.
3. In case of e-tendering, SBI will inform the vendor in writing, the details of service provider to enable them to contact and get trained.
4. Business rules like event date, closing and opening time etc. also will be communicated through service provider for compliance.
5. Contractors have to send by email, the compliance form in the prescribed format (provided by service provider), before start of E-tendering. Without this the vendor will not be eligible to participate in the event.
6. The Contractors will be required to submit the various documents in sealed Envelope to the office of SBI at the address mentioned hereinbefore by the stipulated date i.e. (1) Hard Copy of Technical Bid duly signed and stamped on each page (2) Demand Draft of specified amount of EMD. Contractors not submitting any one or more documents shall not be eligible to participate in the on-line price bidding.
7. E-tendering will be conducted on schedule date & time.
8. **The e-tendering will be treated as closed only when the bidding process gets closed in all respects for the item listed in the tender.**

**(B) Terms & conditions of E-tendering:**

SBI shall finalize the Tender through e-tendering mode for which M/s. E-Procurement Technologies Ltd. has been engaged by SBI, an authorized service provider. Please

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go through the guidelines given below and submit your acceptance to the same along with your Commercial Bid.

1. E-tendering shall be conducted by SBI through M/s. E-Procurement Technologies Ltd., on pre-specified date. While the Contractors shall be quoting from their own offices/ place of their choice, Internet connectivity and other paraphernalia requirements shall have to be ensured by Contractors themselves. In the event of failure of their Internet connectivity, (due to any reason whatsoever it may be) it is the bidders' responsibility. In order to ward-off such contingent situation bidders are requested to make all the necessary arrangements/ alternatives such as back-up power supply whatever required so that they are able to circumvent such situation and still be able to participate in the E-tendering successfully. Failure of power at the premises of Contractors during the E-tendering cannot be the cause for not participating in the E-tendering. On account of this the time for the E-tendering cannot be extended and SBI is not responsible for such eventualities.
2. M/s. E-Procurement Technologies Ltd., shall arrange to train your nominated person(s), without any cost to you. They shall also explain you all the Rules related to the E-tendering. You are required to give your compliance on it before start of bid process.
3. BIDDING CURRENCY AND UNIT OF MEASUREMENT: Bidding will be conducted in Indian currency & Unit of Measurement will be displayed in Online E-tendering.
4. BID PRICE: The Bidder has to quote the rate as per the Tender Document provided by SBI their appointed Architects.
5. VALIDITY OF BIDS: The Bid price shall be firm for a period specified in the tender document and shall not be subjected to any change whatsoever.
6. Procedure of E-tendering:
  - i. **Online E-tendering:**
    - (a) The NIT & Technical bid available on the Bank's website during the period specified in the NIT.
    - (b) Online e-tendering is open to the empaneled bidders who receive NIT from the Architect and qualified for participating in the price bidding as provisions mentioned herein above through SBI approved Service Provider.

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- (c) The Price-Bid shall be made available online by the Service Provider wherein the contractors will be required to fill-in their percentage above/below the estimated cost.
  - (d) The Contractors are advised not to wait till the last minute to submit their online item-wise quote in the price bid to avoid complications related with internet connectivity, network problems, system crash down, power failure, etc.
  - (e) It is mandatory to all the bidders participating in the price bid to quote their rates for each and every item.
  - (f) In case, contractor fails to quote their rates for any one or more tender items, their tender shall be treated as **“Incomplete Tender”** and shall be liable for rejection.
7. LOG IN NAME & PASSWORD: Each Bidder is assigned a Unique User Name & Password by M/s. E-Procurement Technologies Ltd. The Bidders are requested to change the Password after the receipt of initial Password from M/s. E-Procurement Technologies Ltd. All bids made from the Login ID given to the bidder will be deemed to have been made by the bidder.
8. BIDS PLACED BY BIDDER: Bids will be taken as an offer to execute the work as specified. Bids once made, cannot be cancelled / withdrawn and the Bidder shall be bound to execute the work at the quoted bid price. In case the L-1 Bidder backs out or fail to complete the work as per the rates quoted, SBI shall at liberty to take action as deemed necessary including de-paneling such contractors and forfeiting their EMD.
9. At the end of the E-tendering, SBI will decide upon the winner. SBI decision on award of Contract shall be final and binding on all the Bidders.
10. SBI shall be at liberty to cancel the E-tendering process / tender at any time, before ordering, without assigning any reason.
11. SBI shall not have any liability to bidders for any interruption or delay in access to the site irrespective of the cause.
12. Other terms and conditions shall be as per your techno-commercial offers and other correspondences till date.
13. OTHER TERMS & CONDITIONS:

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- The Bidder shall not involve himself or any of his representatives in Price manipulation of any kind directly or indirectly by communicating with other suppliers / bidders.
- The Bidder shall not divulge either his Bids or any other exclusive details of SBI to any other party.
- SBI decision on award of Contract shall be final and binding on all the Bidders.
- SBI reserve their rights to extend, reschedule or cancel any E-tendering within its sole discretion.
- SBI or its authorized service provider M/s. E-Procurement Technologies Ltd. shall not have any liability to Bidders for any interruption or delay in access to the site irrespective of the cause.
- SBI or its authorized service provider/s. E-Procurement Technologies Ltd. is not responsible for any damages, including damages that result from, but are not limited to negligence.
- SBI or its authorized service M/s. E-Procurement Technologies Ltd. will not be held responsible for consequential damages, including but not limited to systems problems, inability to use the system, loss of electronic information etc.

N.B.

- All the Bidders are required to submit the Process Compliance Statement (Annexure II) duly signed to M/s. E-Procurement Technologies Ltd..
- **All the bidders are requested to ensure that they have a valid digital signature certificate well in advance to participate in the online event.**

**SIGNATURE OF THE CONTRACTOR  
WITH SEAL**

Signature of Contractor with Seal

**(D) Process Compliance Statement (Annexure II)**

(The bidders are required to print this on their company's letter head and sign, stamp before emailing)

To,

E-Procurement Technologies Ltd. (Auction Tiger)

B-704 Wall Street - II,

Opp. Orient Club,

Nr. Gujarat College, Ahmedabad - 380 006.

Gujarat State, India

**Sub: Tender for Composite Interior Works consisting of Interior Furnishing Works, Electrical Works, Telecom & Data Cabling Works, CCTV Works and Fire Hydrant & Sprinkler System at GF, Stilt, 4th to 15th floors of the proposed LHO Building, Kharadi - Pune**

Dear Sir,

This has reference to the Terms & Conditions for the Reverse Auction mentioned in the Tender document

**This letter is to confirm that:**

- 1) The undersigned is authorized representative of the company.
- 2) We have studied the Commercial Terms and the Business rules governing the Reverse Auction as mentioned in RFP of SBI as well as this document and confirm our agreement to them.
- 3) We also confirm that we have taken the training on the auction tool and have understood the functionality of the same thoroughly.
- 4) We confirm that SBI and ETL shall not be liable & responsible in any manner whatsoever for my/our failure to access & bid on the e-auction platform due to loss of internet connectivity, electricity failure, virus attack, problems with the PC, any other unforeseen circumstances etc. before or during the tendering event.
- 5) We also confirm that we have a valid digital signature certificate issued by a valid Certifying Authority.**
- 6) We also confirm that we will mail the price confirmation / break up of our quoted price within 24 hours of the completion of the bid/ reverse auction and the format as requested by SBI/ETL.
- 7) We, hereby confirm that we will honor the Bids placed by us during the E-tendering/ auction process.

With regards,

Date:

Signature with company seal

Name:

Company / Organization:

Designation within Company / Organization:

Address of Company / Organization:

**Scan it and send to this Document on [kushboo.mehta@eptl.in](mailto:kushboo.mehta@eptl.in)**

Signature of Contractor with Seal

**BUSINESS RULE DOCUMENT FOR ONLINE E-REVERSE AUCTION FOR**

**Tender for Composite Interior Works consisting of Interior Furnishing Works, Electrical Works, Telecom & Data Cabling Works, CCTV Works and Fire Hydrant & Sprinkler System at GF, Stilt, 4th to 15th floors of the proposed LHO Building, Kharadi - Pune**

<b>BUYER NAME</b>	The Assistant General Manager (P&E), State Bank of India, LHO Maharashtra Circle, 3 <sup>rd</sup> Floor, Synergy Building, Bandra Kurla Complex, Mumbai - 51.
<b>AUCTION TO BE CONDUCTED BY</b>	M/s e-Procurement Technologies Ltd. A-201/208, Wall Street - II, Opp. Orient Club, Nr. Gujarat College, Ahmedabad - 380 006. Gujarat State, India Phone: 9904407997 <b>Auction Website: <a href="https://etender.sbi">https://etender.sbi</a></b>
<b>DATE &amp; TIME OF AUCTION</b>	<b>Will be informed after technical evaluation</b>
<b>DOCUMENTS ATTACHED</b>	(A) Business rules for Reverse Auction (B) Terms & conditions of Reverse Auction (C) Annexure - I (D) Process Compliance Statement (Annexure II) (E) Price Confirmation Letter (Annexure III) (F) Price break up (Annexure IV)
<b>SPECIAL INSTRUCTIONS</b>	<b>Bidding in the last minutes and seconds should be avoided. Neither the Service Provider nor SBI will be responsible for any lapses /failure on the part of the vendor, in such cases.</b>

**Important Note:** As per the new Inter-operability guidelines released by Controller of Certifying Authorities (CCA), the Secured Socket Layer (SSL) certificate for an e-Procurement application is generated on a new algorithm, SHA2. Also, the Digital Signature Certificates that will be applicable for these platforms have to be SHA2 algorithm compliant. For the same, the users have to ensure that they have Windows XP (SP3) / Windows Vista / Windows 7 installed in their respective PC / Laptop. In case of Windows XP service pack -3, if you get any issue you can install the SSL patch, which is available at our download section of our e-Tender/e-Auction Portal and also at our corporate website [www.auctiontiger.net](http://www.auctiontiger.net) just below the label of "Download".

Signature of Contractor with Seal

**(A) Business rules for Reverse Auction:**

Against this Enquiry for the subject item/system with detailed scope of supply as per our specification, SBI may resort to “REVERSE AUCTION PROCEDURE” i.e. ONLINE BIDDING on INTERNET.

1. For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.
2. SBI will engage the services of a service provider who will provide all necessary training and assistance before commencement of online bidding on Internet.
3. SBI will inform the vendor in writing in case reverse auction, the details of service provider to enable them to contact and get trained.
4. Business rules like event date, time, start price, bid decrement, extensions, etc. also will be communicated through service provider for compliance.
5. Vendors have to send the mail the compliance form in the prescribed format (provided by service provider) before start of Reverse auction. Without this the vendor will not be eligible to participate in the event.
6. Reverse auction will be conducted on schedule date & time.
7. At the end of reverse auction event, the lowest bidder value will be known on the network.
8. The lowest bidder has to mail the duly signed filled-in prescribed format as provided on case-to-case basis to SBI through service provider within 24 hours of auction without fail.
9. In case SBI decides not to go for Reverse auction procedure for this tender enquiry, the price bids and price impacts, if any already submitted and available with SBI shall be opened as per SBI standard practice.
10. **The reverse auction will be treated as closed only when the bidding process gets closed in all respects for the item listed in the tender.**



**(B) Terms & conditions of Reverse Auction:**

SBI shall finalize the procurement of the item against this Tender through reverse auction mode. SBI has made arrangement with M/s. e-Procurement Technologies Ltd, Ahmedabad (ETL) who shall be SBI's authorized service provider for the same. Please go through the guidelines given below and submit your acceptance to the same along with your Commercial Bid.

1. Computerized Reverse auction shall be conducted by SBI, on pre-specified date, while the vendors shall be quoting from their own offices/ place of their choice. Internet connectivity and other paraphernalia requirements shall have to be ensured by vendors themselves. In the event of failure of their Internet connectivity, (due to any reason whatsoever it may be) it is the bidders' responsibility. In order to ward-off such contingent situation, bidders are requested to make all the necessary arrangements/ alternatives such as back –up power supply whatever required so that they are able to circumvent such situation and still be able to participate in the reverse auction successfully. Failure of power at the premises of vendors during the Reverse auction cannot be the cause for not participating in the reverse auction. On account of this the time for the auction cannot be extended and SBI is not responsible for such eventualities.
2. ETL shall arrange to train your nominated person(s), without any cost to you. They shall also explain you all the Rules related to the Reverse Auction. You are required to give your compliance on it before start of bid process.
3. BIDDING CURRENCY AND UNIT OF MEASUREMENT: Bidding will be conducted in Indian currency & Unit of Measurement will be displayed in Online Auction.
4. BID PRICE: The Bidder has to quote the rate as per the Tender Document provided by State Bank of India.
5. VALIDITY OF BIDS: The Bid price shall be firm for a period specified in the tender document and shall not be subjected to any change whatsoever.
6. At the end of the reverse auction, bidder has to provide the price confirmation letter & a detail break up for his lowest offer within 24 hour of closing of auction as per the Annexure III & IV respectively.
7. Procedure of Reverse Auction:

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✓ **Online English Reverse (no ties) Auction {Reverse Auction}:**

**OPENING PRICE & BID DECREMENT AMOUNT:** SBI will declare its Opening Price (OP), which shall be visible to the all vendors during the start of the reverse Auction. You will be required to start bidding after announcement of Opening Price and decrement amount. Also, please note that the start price of an item in online reverse auction is open to all the participating bidders. Any bidder can start bidding, in the online reverse auction, from the start price itself. Also, please note that the first online bid that comes in the system during the online reverse auction can be equal to the auction's start price, or lesser than the auction's start price by one decrement, or lesser than the auction's start price by multiples of decrement. The second online bid and onwards will have to be lesser than the L1 rate by one decrement value, or lesser than the L1 rate by **multiples of the decrement value**. The bid start price and decrement amount shall be specified by SBI

**DURATION OF AUCTION:** **English Reverse (no ties) shall be for a period of half an hour.** If a bidder places a valid Bid in the last 5 minutes of Closing of the e-Auction, the e-auction shall get extended automatically for another 5 minutes. **In case, there is no Bid in the last 5 minutes of closing of e-Auction, the e-Auction shall get closed automatically without any extension.** Please note that if there are more than one item in a single auction, the auto-extension will be applicable to the entire event i.e. whenever a bidder places an acceptable bid in the last 5 minutes of the closing of the auction, the auction shall get extended automatically for another 5 minutes from the time of this bid for all the items in the auction. **There are 6 limited Extension of 5 Minutes each.** Vendors are advised not to wait till the last minute or last few seconds to enter their bid during the auto-extension period to avoid complications related with internet connectivity, network problems, system crash down, power failure, etc.

8. Successful vendor shall be required to submit the final prices, quoted during the English Reverse (no ties) exactly in the format issued by SBI/Service provider after the completion of Auction to SBI, duly signed and stamped as token of acceptance without any new condition other than those already agreed to before start of auction.
9. During English Reverse (no ties), if no bid is received within the specified time, SBI, at its discretion, may decide to revise Opening price / scrap the reverse auction process / proceed with conventional mode of tendering.

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10. Your bid will be taken as an offer to supply. Bids once made by you, cannot be cancelled / withdrawn and you shall be bound to supply as mentioned above at your final bid price. Should you back out and not supply as per the rates quoted, SBI shall take action as appropriate.
11. **LOG IN NAME & PASSWORD:** Each Bidder is assigned a Unique User Name & Password by ETL. The Bidders are requested to change the Password after the receipt of initial Password from ETL. All bids made from the Login ID given to the bidder will be deemed to have been made by the bidder.
12. **VISIBILITY TO BIDDER:** The Bidder shall be able to view the following on his screen along with the necessary fields during English Reverse – No ties Auction:
  - a. Leading Bid in the Auction
  - b. Bid Placed by you
  - c. Auction Opening Price & bid decrement amount
  - d. Your rank in the auction
13. **BIDS PLACED BY BIDDER:** The bid of the bidder will be taken to be an offer to execute the work. Bids once made by the bidder cannot be cancelled. The bidder is bound to execute the work as mentioned above at the price that they bid. Should any bidder back out and not make the supplies as per the rates quoted, SBI and / or ETL shall take action as appropriate.
14. **LOWEST BID OF A BIDDER:** In case the bidder submits more than one bid, the lowest bid will be considered as the bidder's final offer to execute the work.
15. At the end of the Reverse Auction, SBI will decide upon the winner. SBI's decision on award of Contract shall be final and binding on all the Bidders.
16. SBI shall be at liberty to cancel the reverse auction process / tender at any time, before ordering, without assigning any reason.
17. SBI/ETL shall not have any liability to bidders for any interruption or delay in access to the site irrespective of the cause.
18. Other terms and conditions shall be as per your techno-commercial offers and other correspondences till date.
19. You are required to submit your acceptance to the terms / conditions / modality given above before participating in the reverse auction.

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20. **AUCTION TYPE: 1) English Reverse No Ties Auction**

21. **OTHER TERMS & CONDITIONS:**

1. The Bidder shall not involve himself or any of his representatives in Price manipulation of any kind directly or indirectly by communicating with other suppliers / bidders.
2. The Bidder shall not divulge either his Bids or any other exclusive details of SBI to any other party.
3. SBI's decision on award of Contract shall be final and binding on all the Bidders.
4. SBI along with ETL can decide to extend, reschedule or cancel any Auction. Any changes made by SBI and / or ETL, after the first posting will have to be accepted if the Bidder continues to access the site after that time.
5. ETL shall not have any liability to Bidders for any interruption or delay in access to the site irrespective of the cause.
6. ETL is not responsible for any damages, including damages that result from, but are not limited to negligence. ETL will not be held responsible for consequential damages, including but not limited to systems problems, inability to use the system, loss of electronic information etc.

N.B.

- All the Bidders are required to submit the Process Compliance Statement (Annexure II) duly signed to M/s e-Procurement Technologies Ltd, Ahmedabad.
- **All the bidders are requested to ensure that they have a valid digital signature certificate well in advance to participate in the online event.**

**(C) ANNEXURE- I The List of Items to be procured along with the Quantities and the Auction Start Time & Close Time is as follows:**

**ITEM DESCRIPTION: Tender for Composite Interior Works consisting of Interior Furnishing Works, Electrical Works, Telecom & Data Cabling Works, CCTV Works and Fire Hydrant & Sprinkler System at GF, Stilt, 4<sup>th</sup> to 15<sup>th</sup> floors of the proposed LHO Building, Kharadi - Pune**

<b>Item</b>	<b>Quantity</b>	<b>Opening Prices in Rs</b>	<b>Bid Decrement in Rs</b>	<b>Opening Time</b>	<b>Closing Time</b>
<b>ONLINE E-REVERSE AUCTION</b>	Package	Will be displayed On Auction screen	Will be displayed On Auction screen	As above	As above

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**(D) Process Compliance Statement (Annexure II)**

(The bidders are required to print this on their company's letter head and sign, stamp before emailing)

To,  
E-Procurement Technologies Ltd. (AuctionTiger)  
A-201/208, Wall Street - II,  
Opp. Orient Club, Nr. Gujarat College,  
Ahmedabad - 380 006. Gujarat State, India  
Phone: 9904407997

**Sub: AGREEMENT TO THE PROCESS RELATED TERMS AND CONDITIONS FOR THE ONLINE E-REVERSE AUCTION FOR COMPOSITE INTERIOR WORKS CONSISTING OF INTERIOR FURNISHING WORKS, ELECTRICAL WORKS, TELECOM & DATA CABLING WORKS, CCTV WORKS AND FIRE HYDRANT & SPRINKLER SYSTEM AT GF, STILT, 4TH TO 15TH FLOORS OF THE PROPOSED LHO BUILDING, KHARADI - PUNE**

Dear Sir,

This has reference to the Terms & Conditions for the Reverse Auction mentioned in the Tender document

This letter is to confirm that:

- 1) The undersigned is authorized representative of the company.
- 2) We have read examined and understood the RFP / e-Auction documents pertaining to this event and have no reservations to the same.
- 3) We have studied all the terms & condition, commercial terms, the Business Rules governing the e-auction as mentioned in RFP (if any) and understood the RFP / e-Auction Business Rules documents (if any) pertaining to this event, and confirm our agreement to them.
- 4) We confirm that before participating in e-Auction event, we will arrange and check a Minimum System Pre-requisite to e-Auctioning well in advance before starting of the e-Auction. E.g., Operating System, Installation a Valid Digital Signature Certificate (DSC if applicable), Internet Explorer Browser Active-X Control settings to access the e-Auction portal smoothly as per Minimum System requirement which will be available on homepage of the e-Procurement website.
- 5) We agree that we shall change the password on receipt by us and keep it confidential. We agree that I shall not hold e-Procurement Technologies Limited (EPTL) responsible in any way for any losses that may be suffered by us because of disclosure of the password to any other person.

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- 6) We also confirm that we have taken the training on the e-auction tool and have understood the entire functionality of the same thoroughly including all scenarios & available features for bidding pertaining to e-auction event.
- 7) We confirm that Dept. / Tendering Authority and EPTL (Service Provider) shall not be liable & responsible in any manner whatsoever for my/our failure to access & bid on the e-auction platform due to loss of internet connectivity, electricity failure, virus attack, problems with the PC, any other unforeseen circumstances etc. before or during the e-auction event.
- 8) In case of Digital Signature Certificate (DSC) based login to the e-Auction/e-Tender/event, we also confirm that we have a valid DSC issued by a valid Certifying Authority (approved by Controller of Certifying Authorities) in INDIA.
- 9) We take a note as advised by you related not to wait till last minute or last few seconds to submit valid bid to avoid any complication related to loss of internet connectivity, electricity failure, virus attack, network problems, system crash down, problems with the PC, any other unforeseen circumstances etc...Neither Department / Tendering Authority nor Service Provider (EPTL) are responsible for any unforeseen circumstance.
- 10) We also confirm that we will e-mail the price confirmation & break up of our quoted price to the Dept. / EPTL as per Annexures (if applicable) within 24 hours of the completion of the e-auction and the format as requested by Dept. / EPTL.
- 11) We, hereby confirm that we will honor the Bids placed by us during the auction process. Bid cannot be cancelled / withdrawn and you shall be bound to collecting / supply at your final bid price. If you back out and or collecting / supply as per the rates quoted, Dept. / Tendering Authority shall take action as appropriate.
- 12) We confirm that we have not changed or deleted any clauses in this Process Compliance Form (PCF) and submitting the same to the service provider / Dept. as it is duly stamped and signed. In addition, if any changes found in submitted PCF or in this Business Rules Document (if any) before or after completion of the Sealed Bid (if any) or e-Auction then Dept. / Service provider may take an appropriate action against us.

With regards,

Date:

Signature with company seal

Name:

Company / Organization:

Designation within Company / Organization:

Address of Company / Organization:

Scan it and send to this Document on [kushboo.mehta@eptl.in](mailto:kushboo.mehta@eptl.in)

Signature of Contractor with Seal

**(E) Price Confirmation Letter (Annexure III)**

(The bidders are required to print this on their company's letter head and sign, stamp before emailing)

To,  
E-Procurement Technologies Ltd. (AuctionTiger)  
A-201/208, Wall Street - II,  
Opp. Orient Club, Nr. Gujarat College,  
Ahmedabad - 380 006. Gujarat State, India  
Phone: 9904407997

**Sub: FINAL PRICE QUOTED DURING E-REVERSE AUCTION FOR COMPOSITE INTERIOR WORKS CONSISTING OF INTERIOR FURNISHING WORKS, ELECTRICAL WORKS, TELECOM & DATA CABLING WORKS, CCTV WORKS AND FIRE HYDRANT & SPRINKLER SYSTEM AT GF, STILT, 4<sup>TH</sup> TO 15<sup>TH</sup> FLOORS OF THE PROPOSED LHO BUILDING, KHARADI - PUNE**

Reverse Auction Date:

Dear Sir,

We confirm that we have quoted a total amount of Rs..... + GST

(In Words: Rupees .....plus GST)

Thanking you and looking forward to the valuable order from SBI.

Yours sincerely,

For \_\_\_\_\_

Name:

Company:

Date:

Seal:

**(F) Price break up (Annexure IV)**

**(In the same format of the price bid submitted online for indicative price)**

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## PROCESS TO BE FOLLOWED REGARDING E-REVERSE AUCTION

The Start bid is fixed a value lower than the estimated amount and all the price bids (Indicative bids) submitted by the vendors are kept sealed till the event of e-reverse auction. At the end of reverse auction process, the lowest Bidder (L1) will be selected on the basis of Total Price, including taxes, Excluding GST.

### Bidding Example:

The final rates of the items may be calculated in ratio of **total amount quoted by the lowest bidder through reverse auction process and the amount quoted in indicative price bid, wherever specified in tender.**

### Example:

#### Indicative Price Bid submitted by vendor:

Item	Rate ('R)	Qty	Amount (Rs.)
A	100	2	200/-
B	200	3	600/-
C	300	4	1200/-

#### Total amount in Indicative Price bid Rs. 2000/-

The total amount mentioned in indicative price bid is Rs.2,000/- but the final L-1 amount quoted by the vendor through E-reverse auction is Rs.1,600/- then the K factor for L-1 vendor will be calculated as under:

**Ratio K = (Total amount quoted by the lowest bidder through reverse auction process) / (The amount quoted in indicative price bid).**

$$K = 1600 / 2000 = 0.8$$

#### The item wise final price to be confirmed by the vendor shall be as under:

The lowest bidder after the e-reverse auction process will have to fax & email the duly signed filled-in prescribed format to SBI through service provider within 24 hours of auction without fail.

Item Final Rate=  $K*(R)$  Qty. Amount

A	$100 \times 0.8$	2	160/-
B	$200 \times 0.8$	3	480/-
C	$300 \times 0.8$	4	960/-

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**Total amount worked out after e-reverse Auction Rs. 1600/-**

**CLARIFICATION:**

**It is further clarified that in case indicative price of L-1 bidder is lower than what is quoted in the e-reverse auction, the indicative price will be taken as final price.**

**Example: If indicative price is Rs.1500/- then final price will be taken as Rs.1500/- and not Rs,1600/-**

## GENERAL CONDITIONS OF CONTRACT

### 1.0 **Definitions: -**

“Contract means the documents forming the tender and the acceptance there of and the formal agreement executed between State Bank of India (client) and the contractor, together with the documents referred there in including these conditions, the specifications, designs, drawings and instructions issued from time to time by the architects/ Bank and all these documents taken together shall be deemed to form one contract and shall be complementary to one another.

1.1 In the contract the following expressions shall, unless the context otherwise requires, have the meaning hereby respectively assigned to them.

1.1.1 ‘SBI’ shall mean State Bank of India (client) having its office at  
State Bank of India, Premises Department,  
LHO Maharashtra Circle, 3rd Floor,  
Synergy Building, Bandra Kurla Complex, Mumbai - 51.  
and includes the client’s representatives, successors and assigns.

1.1.2 ‘Architects/ Consultants’ shall mean M/s Metaphors, Pune.

1.1.3 ‘Site Engineer’ shall mean an Engineer appointed by the Bank at site as their representative for day-to-day supervision of work and to give instructions to the contractors.

1.1.4 ‘The Contractor’ shall mean the individual or firm or company whether incorporated or not, undertaking the works and shall include legal personal representative of individual or the composing the firm or company and the permitted assignees of individual or firms of company.

The expression ‘works’ or ‘work’ shall mean the permanent or temporary work description in the “Scope of work” and / or to be executed in accordance with the contract includes materials, apparatus, equipment, temporary supports, fittings and things of kinds to be provided, the obligations of the contractor hereunder and work to be done by the contractor under the contract.

1.1.5 ‘Engineer’ shall mean the representative of the Architect/consultant.

1.1.6 ‘Drawings’ shall mean the drawings prepared by the Architects and issued by the Engineer and referred to in the specifications and any modifications of such drawings as may be issued by the Engineer from time to time ‘Contract value

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shall mean value of the entire work as stipulated in the letter of acceptance of tender subject such additions there to or deductions there from as may be made under the provide herein after contained.

1.1.7 “Specifications” shall mean the specifications referred to in the tender and modifications thereof as may time to time be furnished or approved by the Architect/ Consultant.

1.1.8 “Month” means calendar month.

1.1.9 “Week” means seven consecutive days.

1.1.10 “Day” means a calendar day beginning and ending at 00 Hrs and 24 Hrs respectively.

1.1.11 “Bank’s Engineer” shall mean The Civil / Electrical Engineer in - charge of the Project, as nominated by the AGM (P&E).

1.1.12 The following shall constitute the Joint Project Committee (herein under referred to as JPC) for assessing and reviewing the progress of the work on the project and to issue instructions or directions from time to time for being observed and followed by the Architects site Engineer /PMC and other consultants / contractors engaged in the execution of the project.

- i) Assistant General Manager, Premises & Estate Deptt., SBI, who shall be the Chairman of the Committee.
- ii) Bank’s Engineer (civil and Electrical) in-charge of the Project, as may be nominated by the AGM (P&E) .....Members
- iii) Concerned partner of the Architects and their Resident Architect....Member.
- iv) Project Manager OR Resident Engineer –in-charge of project of the PMC...Member and Secretary respectively.

**CLAUSE**

1.0 Total Security Deposit

Total Security deposit comprise of

Earnest Money Deposit

Initial security deposit

Retention Money

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a) **Earnest Money Deposit -**

The tenderer shall furnish EMD of **Rs. 41,00,000/-** in the form of Demand drawn in favour of Assistant General Manager (Premises & Estate) SBI, LHO Maharashtra, payable at Mumbai on any Scheduled Bank. No tender shall be considered unless the EMD is so deposited in the required form. No interest shall be paid on this EMD. The EMD of the unsuccessful tenderer shall be refunded soon after the decision to award the contract is taken without interest. The EMD shall stand absolutely forfeited if the tenderer revokes his tender at any time the period when he is required to keep his tender open acceptance by the SBI or after it is accepted by the SBI the contractor fails to enter into a formal agreement or fails to pay the initial security deposit as stipulated or fails to commence the work within the stipulated time.

b) **Initial Security Deposit (ISD)**

The amount of ISD shall be 2% of accepted value of tender in the form of DD/FDR drawn on any scheduled Bank and shall be deposited within 10 days from the date of acceptance of tender.

**ADDITIONAL SECURITY DEPOSIT / PERFORMANCE GUARANTEE**

In case L-1 bidder quotes abnormally low rates (i.e. 7.5% or more, below estimated project cost), the bank may ask such bidder to deposit additional security deposit (ASD) equivalent to difference between 92.5% of estimated cost vis-à-vis L-1 quoted amount for due fulfillment of contract as performance guarantee. Such ASD could be in the form of FDR / Bank's guarantee in the Bank's name as per format approved by the Bank. On successful completion of work ASD will be returned to the contractor. In case contractor fails to complete the work in time or as per tender specification or leave the job incomplete, the bank will be at liberty to recover the dues from ASD or to forfeit such ASD as the case may be within its sole discretion.

No interest shall be paid to the amount retained by the Bank as Security Deposit.

c) **Retention Money: -**

Besides the SD as deposited by the contractor in the above said manner, the Retention money shall be deducted from the running account bill at the rate of 10% of the gross value of work done by the contractor and claimed in each bill

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provided the total security deposit i.e. ISD plus EMD plus Retention Money shall both together not exceed 5% of the contract value. The 50% of the total security deposit shall be refunded to the contractor without any interest on issue of Virtual Completion certificate by the Architect/consultant. The balance 50% of the total security deposit shall be refunded to the contractors without interest within fifteen days after the end of defects liability period provided the contractor has satisfactorily attended to all defects in accordance with the conditions of contract including site clearance.

## 2.0 **Language**

The language in which the contract documents shall be drawn shall be in English.

## 3.0 **Errors, omissions and discrepancies**

In case of errors, omissions and/ or disagreement between written and scaled dimensions on the drawings or between the drawings and specifications etc., the following order shall apply.

- i) Between scaled and written dimension (or description) on a drawing, the latter shall be adopted.
- ii) Between the written or shown description or dimensions in the drawings and the corresponding one in the specification the former shall be taken as correct.
- iii) Between written description of the item in the specifications and descriptions in bills of quantities of the same item, the former shall be adopted:
  - a) In case of difference between rates written in figures and words, the rate in words shall prevail.
  - b) Between the duplicate / subsequent copies of the tender, the original tender shall be taken as correct.

## 4.0 **Scope of Work:**

The contractor shall carryout complete and maintain the said work in every respect strictly accordance with this contract and with the directions of and to the satisfaction Bank to be communicated through the architect/consultant. The architect/consultant at the directions of the Bank from time to time issue further drawings and / or write instructions, details directions and explanations which

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are here after collectively references to as Architect's /consultant's instructions in regard to the variation or modification of the design, quality or quantity of any work or the addition or omission or substitution work. Any discrepancy in the drawings or between BOQ and / or drawings and / or specifications. The removal from the site of any material brought thereon by the Contractor and any substitution of any other materials therefore the removal and / or re-executed of any work executed by him. The dismissal from the work of any person engaged thereupon.

5.0 i) **Letter of Acceptance:**

Within the validity period of the tender the Bank shall issue a letter of acceptance directly or through the architect by registered post or otherwise depositing at the of the contractor as given in the tender to enter into a Contract for the execution of the work as per the terms of the tender. The letter of acceptance shall constitute a bind contract between the SBI and the contractor.

ii) **Contract Agreement:**

On receipt of intimation of the acceptance of tender from the SBI / Architect the successful tenderer shall be bound to implement the contract and within fifteen days there of shall sign an agreement in a non-judicial stamp paper of appropriate value.

6.0 **Ownership of drawings:**

All drawings, specifications and copies thereof furnished by the SBI through its Architect / consultants are the properties of the SBI. They are not to be used on other work.

7.0 **Detailed drawings and instructions:**

The SBI through its architects / consultants shall furnish with reasonable proper additional instructions by means of drawings or otherwise necessary for the execution of the work. All such drawings and instructions shall be consistent with contract documents, true developments thereof and reasonably inferable there.

The work shall be executed in conformity therewith and the contractor prepare a detailed programme schedule indicating therein the date of start and completion of various activities on receipt of the work order and submit the same to the SBI through the architect/consultant

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**7.0 Copies of agreement**

Two copies of agreement duly signed by both the parties with the drawings shall be handed over to the contractors.

**8.0 Liquidated damages:**

If the contractor fails to maintain the required progress in terms of GCC or to complete the work and clear the site including vacating their office on or before the contracted or extended date or completion, without justification in support of the cause of delay, he may be called upon without prejudice to any other right of remedy available under the law to the SBI on account of such breach to pay a liquidated damages at the rate of 0.50% of the contract value which subject to a maximum of 5% of the contract value.

**9.0 Materials, Appliances and Employees**

Unless or otherwise specified the contractor shall provide and pay for all materials, labour, water, power, tools, equipment transportation and any other facilities that are required for the satisfactory execution and completion of the work. Unless or otherwise specified all materials shall be new and both workmanship and materials shall be best quality. The contractor shall at all times enforce strict discipline and good order among his employees and shall not employ on the work any unfit person or anyone not skilled in the work assigned to him. Workman whose work or behaviour is found to be unsatisfactory by the SBI /architect/ consultant he shall be removed from the site immediately.

**10.0 Permits, Laws and Regulations:**

Permits and licenses required for the execution of the work shall be obtained by the contractor at his own expenses. The contractor shall give notices and comply with the regulations, laws, and ordinances rules, applicable to the contract. If the contractor observes any discrepancy between the drawings and specifications, he shall promptly notify the SBI in writing under intimation of the Architect/ Consultant. If the contractor performs any act, which is against the law, rules and regulations he shall meet all the costs arising there from and shall indemnify & the SBI indemnified of any legal actions arising there from.

**11.0 Setting out Work:**

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The contractor shall set out the work 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 and get it approved by the architect / consultant before proceeding with the work. If at any time any error in this respect shall appear during the progress of the works, irrespective of the fact that the layout had been approved by, the architect / consultant the contractor shall be responsible for the same and shall his own expenses rectify such error, if so, required to satisfaction of the SBI.

**12.0 Protection of works and property:**

The contractor shall continuously maintain adequate protection. Of all his work from damage and shall protect the SBI's properties from injury or loss arising in connection with contract. He shall make good any such damage, injury, loss, except due to causes beyond his control and due to his fault or negligence.

He shall take adequate care and steps for protection of the adjacent properties. The contractor shall take all precautions for safety and protections of his employees on the works and shall comply with all applicable provisions of Govt. and local bodies' safety laws and building codes to prevent accidents, or injuries to persons or property on about or adjacent to his place of work. The contractor shall take insurance covers as per clause 25.0 at his own cost. The policy may be taken in joint names of the contractor and the SBI and the original policy may be lodged with the SBI.

**13.0 Inspection of work:**

The SBI / Architect / Consultant or their representatives shall at all reasonable times have free access to the work site and / or to the workshop, factories, or other places where materials are lying or from where they are obtained and the contractor shall give every facility to the SBI/Architect/consultant and their representatives necessary for inspection and examination and test of the materials and workmanship. No person unless authorized by the SBI/ Architect /Consultant except the representative of Public authorities shall be allowed on the work at any time. The proposed work either during its construction stage or its completion can also be inspected by the Chief Technical Examiner's Organization a wing of Central Vigilance commission.

**14.0 Assignment and subletting**

The whole of work included in the contract shall be executed the contractor and he shall not directly entrust and engage or indirectly transfer, assign or underlet

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the contract or any part or share thereof or interest therein without the written consent of the SBI through the architect and no undertaking shall relieve the contractor from the responsibility of the contractor from active & superintendence of the work during its progress.

**15.0 Quality of materials, workmanship & Test**

All materials and workmanship shall be best of the respective kinds described in the contract and in accordance with Architect/consultant instructions and shall be subject from time to time to such tests as the architect/consultant may direct at the place of manufacture or fabrication or on the site or an approved testing laboratory. The contractor shall provide such assistance, instruments, machinery, labour, and materials as are normally required for examining measuring sampling and testing any material or part of work before incorporation in the work for testing as may be selected and required by the architect/consultant.

**ii) Samples**

All samples of adequate numbers, size, shades & pattern as per specifications shall be supplied by the contractor without any extra charges. If certain items proposed to be used are of such nature that samples cannot be presented or prepared at the site detailed literature / test certificate of the same shall be provided to the satisfaction of the Architect/consultant. Before submitting the sample / literature the contractor shall satisfy himself that the material / equipment for which he is submitting the sample / literature meet with the requirement of tender specification. Only when the samples are approved in writing by the architect / consultant the contractor shall proceed with the procurement and installation of the particular material / equipment. The approved samples shall be signed by the Architect / Consultant for identification and shall be kept on record at site office until the completion of the work for inspection / comparison at any time. The Architect/Consultant shall take reasonable time to approve the sample. Any delay that might occur in approving the samples for reasons of its not meeting the specifications or other discrepancies inadequacy in furnishing samples of best qualities from various manufacturers and such other aspects causing delay on the approval of the materials / equipment etc. shall be to the account of the contractor.

**iii) Cost of tests**

The cost of making any test shall be borne by the contractor if such test is intended by or provided for in the specification or BOQ.

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iv) **Costs of tests not provided for**

If any test is ordered by the Architect/ Consultant which is either

- a) If so intended by or provided for or (in the cases above mentioned) is not so particularised, or though so intended or provided for but ordered by the Architect / Consultant to be carried out by an independent person at any place other than the site or the place of manufacture or fabrication of the materials tested or any Government / approved laboratory, then the cost of such test shall be borne by the contractor.

16.0 **Obtaining information related to execution of work**

No claim by the contractor for additional payment shall be entertained which is consequent upon failure on his part to obtain correct information as to any matter affecting the execution of the work nor any misunderstanding or the obtaining incorrect information or the failure to obtain correct information relieve him from any risks or from the entire responsibility for the fulfilment of contract.

17.0 **Contractor's superintendence**

The contractor shall give necessary personal superintendence during the execution the works and as long, thereafter, as the Architect / Consultant may consider necessary until the expiry of the defects liability period, stated here to.

18.0 **Quantities**

- i) The bill of quantities (BOQ) unless or otherwise stated shall be deemed to have been prepared in accordance with the Indian Standard Method of Measurements and quantities. The rate quoted shall remain valid for variation of quantity against individual item to any extent. The entire amount paid under Clause 19, 20 hereof as well as amounts of prime cost and provision sums, if any, shall be excluded.

19.0 **Works to be measured**

The Architect/Consultant may from time to time intimate to the contractor that he require the work to be measured and the contractor shall forthwith attend or send a quantity representative to assist the Architect in taking such measurements and calculation and to furnish all particulars or to give all assistance required by any of them. Such measurements shall be taken in

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accordance with the Mode of measurements detail in the specifications. The representative of the Architect / Consultant shall take measurements with the contractor's representative and the measurements shall be entered in the measurement book. The contractor or his authorised representative shall sign all the pages of the measurement book in which the measurements have been recorded in token of his acceptance. All the corrections shall be duly attested by both representatives. No over writings shall be made in the M book should the contractor not attend or neglect or omit to depute his representative to take measurements the measurements recorded by the representative of the Architect / consultant shall be final. All authorized extra work, omissions and all variations made shall be included such measurement.

## 20.0 **Variations**

No alteration, omission or variation ordered in writing by the Architect / consultant vitiates the contract. In case the SBI / Architect / Consultant thinks proper at any during the progress of works to make any alteration in, or additions to or omission from the works or any. alteration in the kind or quality of the materials to be used therein, the Architect / Consultant shall give notice thereof in writing to the contractor shall confirm in writing within seven days of giving such oral instructions the contract shall alter to, add to, or omit from as the case may be in accordance with such 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, stipulations, specifications or contract drawings without previous consent in writing of the Architect/ Consultant and the value of such extras, alterations, additions or omissions shall in all cases be determined by the Architect / Consultant and the same shall be added to or deducted from the contract value, as the case may be.

## 21.0 **Valuation of Variations**

No claim for an extra shall be allowed unless it shall have been executed under the authority of the Architect / Consultant with the concurrence of the SBI as herein mentioned. Any such extra is herein referred to as authorized extra and shall be made in accordance with the following provisions.

- a) (i) The net rates or prices in the contract 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 herein.

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(ii) Rates for all items, wherever possible should be derived out of the rates given in the priced BOQ.

- b) The net prices of the original tender shall determine the value of the items omitted, provided if omissions do not vary the conditions under which any remaining items of Works are carried out, otherwise the prices for the same shall be valued under sub-Clause 'c' hereunder.
- c) 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 or works are carried out, then the contractor shall within 7 days of the receipt of the letter of acceptance inform the Architect/consultant of the rate which he intends to charge for such items of work, duly supported by analysis of the rate or rates claimed and the Architect/consultant shall fix such rate or prices as in the circumstances in his opinion are reasonable and proper, based on the market rate.
- d) Where extra work cannot be properly measured or valued the contractor shall be allowed day work prices at the net rates stated in the tender, of the BOQ 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/Consultant) the workman's name and materials employed be delivered for verifications to the Architect /consultant at or before the end of the week following that in which the work has been executed.
- e) It is further clarified that for all such authorized extra items where rates cannot be derived from the tender, the Contractor shall submit rates duly supported by rate analysis worked on the 'market rate basis for material, labour hire / running charges of equipment and wastages etc. plus 15% towards establishment charges, contractor's overheads and profit. Such items shall, not be eligible for escalation.

## 22.0 **Final measurement**

The measurement and valuation in respect of the contract shall be completed within one months of the virtual completion of the work.

## 23.0 **Virtual Completion Certificate (VCC)**

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On successful completion of entire works covered by the contract to the full satisfaction of the SBI, the contractor shall ensure that the following works have been completed the satisfaction of the SBI:

- a) Clear the site of all scaffolding, wiring, pipes, surplus materials, contractor's labour equipment and machinery.
- b) Demolish, dismantle and remove the contractor's site office, temporary works, structure including labour sheds/camps and constructions and other items and things whatsoever brought upon or erected at the site or any land allotted to the contractor by the SBI not incorporated in the permanent works.
- c) Remove all rubbish, debris etc. from the site and the land allotted to the contractor by the SBI and shall clear, level and dress, compact the site as required by the SBI.
- d) Shall put the SBI in undisputed custody and possession of the site and all land allot by the SBI.
- e) Shall hand over the work in a peaceful manner to the SBI.
- f) All defects / imperfections have been attended and rectified as pointed out by the Architects to the full satisfaction of SBI.

Upon the satisfactory fulfilment by the contractor as stated above, the contractor is entitled to apply to the Architect / consultant is satisfied of the completion of work. Relative to which the completion certificate has been sought, the Architect/ consultant shall within fourteen (14) days of the receipt of the application for completion certificate, issue a VCC in respect of the work for which the VCC has applied.

This issuance of a VCC shall not be without prejudice to the SBI's rights and contractor liabilities under the contract including the contractor's liability for defects liability nor shall the issuance of VCC in respect of the works or work at any site be construction as a waiver of any right or claim of the S.B.I. against the contractor in respect of or work at the site and in respect of which the VCC has been issued.

#### 24.0 **Work by other agencies**

The SBI / Architect / consultant reserves the rights to use premises and any portion the site for execution of any work not included in the scope of this

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contract with may desire to have carried out by other persons simultaneously and the contractor shall not only allow but also extend reasonable facilities for the execution of such work. The contractor however shall not be required to provide any plant or material for the execution of such work except by special arrangement with the SBI. Such work shall be carried out in such manner as not to impede the progress of the works included in the contract.

## 25.0 Insurance of works

25.1 Without limiting his obligations and responsibilities under the contract the contractor shall insure in the joint names of the SBI and the contractor against all loss of damages from whatever cause arising other than the excepted risks, for which he is responsible under the terms of contract and in such a manner that the SBI and contractor are covered for the period stipulated In clause of 28GCC and are also covered during the period of maintenance for loss or damage arising from a cause, occurring prior to the commencement of the period of maintenance and for any loss or damage occasioned by the contractor in the course of any operations carried out by him for the purpose of complying with his obligations under clause.

- a) The Works for the time being executed to the estimated current Contract value thereof, or such additional sum as may be specified together with the materials for incorporation in the works at their replacement value.
- b) The constructional plant and other things brought on to the site by the contractor to the replacement value of such constructional plant and other things.
- c) Such insurance shall be effected with an insurer and in terms approved by the SBI which approval shall not be unreasonably withheld and the contractor shall whenever required produce to the Architect / consultant the policy if insurance and the receipts for payment of the current premiums.

## 25.2 Damage to persons and property

The contractor shall, except if and so far as the contract provides otherwise indemnify the SBI against all losses and claims in respect of injuries or damages to any person or material or physical damage to any property whatsoever which may arise out of or in consequence of the execution and maintenance of the works and against all claims proceedings, damages, costs, charges and expenses whatsoever in respect of or in relation thereto except any compensation of damages for or with respect to:

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- a) The permanent use or occupation of land by or any part thereof.
- b) The right of SBI to execute the works or any part thereof on, over, under, in or through any lands.
- c) Injuries or damages to persons or properties which are unavoidable result of the execution or maintenance of the works in accordance with the contract
- d) Injuries or damage to persons or property resulting from any act or neglect of the SBI their agents, employees or other contractors not being employed by the contractor or for or in respect of any claims, proceedings, damages, costs, charges and expenses in respect thereof or in relation thereto or where the injury or damage was contributed to by the contractor, his servants or agents such part of the compensation as may be just and equitable having regard to the extent of the responsibility of the SBI, their employees, or agents or other employees, or agents or other contractors for the damage or injury.

**25.3 Contractor to indemnify SBI**

The contractor shall indemnify and keep indemnified the SBI against all claims, proceedings, damages, costs, charges and expenses in respect of the matters referred to in the provision sub-clause 25.2 of this clause.

**25.4 Contractor's superintendence**

The contractor shall fully indemnify and keep indemnified the SBI against any action, claim, or proceeding relating to infringement or use of any patent or design or any alleged patent or design rights and shall pay any royalties which may be payable in respect of any article or part thereof included in the contract. In the event of any claim made under or action brought against SBI in respect of such matters as aforesaid the contractor shall be immediately notified thereof and the contractor shall be at liberty, at his own expenses to settle any dispute or to conduct any litigation that may arise there from, provided that the contractor shall not be liable to indemnify the SBI if the infringement of the patent or design or any alleged patent or design right is the direct result of an order passed by the Architect / consultant in this behalf.

**25.5 Third Party Insurance**

25.5.1 Before commencing the execution of the work the contractor but without limiting his obligations and responsibilities under clause 25.0 of GCC shall insure

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against his liability for any material or physical damage, loss, or injury which may occur to any property including that of SBI, or to any person, including any employee of the SBI, by or arising out of the execution of the works or in the carrying out of the contract, otherwise than due to the matters referred to in the provision to clause 25.0 thereof.

#### **25.5.2 Minimum amount of Third-Party Insurance**

Such insurance shall be effected with an insurer and in terms approved by the SBI which approval shall not be reasonably withheld and for at least the amount stated below. The contractor shall, whenever required, produce to the Architect / consultant the policy or policies of insurance cover and receipts for payment of the current premiums.

25.6 The minimum insurance cover for physical property, injury, and death is Rs.5 Lakh per occurrence with the number of occurrences limited to four. After each occurrence contractor will pay additional premium necessary to make insurance valid for four occurrences always.

#### **25.7 Accident or Injury to workman:**

25.7.1 The SBI shall not be liable for or in respect of any damages or compensation payable at law in respect or in consequence of any accident or injury to any workmen or other person in the employment of the contractor or any sub-contractor, save and except an accident or injury resulting from any act or default of the SBI or their agents, or employees. The contractor shall indemnify and keep indemnified SBI against all such damages and compensation, save and except as aforesaid, and against all claims, proceedings, costs, charges and expenses whatsoever in respect thereof or in relation thereto.

#### **25.7.2 Insurance against accidents etc. to workmen**

The contractor shall insure against such liability with an insurer approved by the SBI during the whole of the time that any persons are employed by him on the works and shall, when required, produce to the architect / consultant such policy of insurance and receipt for payment of the current premium. Provided always that, in respect of any persons employed by any sub-contractor the contractor's obligation to insure as aforesaid under this sub-clause shall be satisfied if the sub-contractor shall have insured against the liability in respect of such persons in such manner that SBI is indemnified under the policy but the contractor shall require such sub-contractor to produce to the Architect

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/consultant when such policy of insurance and the receipt for the payment of the current premium.

### 25.7.3 **Remedy on contractor's failure to insure**

If the contractor fails to effect and keep in force the insurance referred to above or any other insurance which he may be required to effect under the terms of contract, then and in any such case the SBI may effect and keep in force any such insurance and pay such premium or premiums as may be necessary for that purpose and from time to time deduct the amount so paid by the SBI as aforesaid from any amount due or which may become due to the contractor, or recover the same as debt from the contractor.

25.7.4 Without prejudice to the others rights of the SBI 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 costs, charges, and other expenses paid by the SBI and which are payable by the contractors under this clause. 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 monies received from the Insurer in respect of 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.

### 26.0 **Commencement of Works:**

The date of commencement of the work will be reckoned as the date of **fourteen days** from the date of award of letter by the SBI or Letter is issued to the contractor/ or the day on which the Contractor is Instructed to take possession of the Site whichever is earlier.

### 27.0 **Time for completion**

Time is essence of the contract and shall be strictly observed by the contractor. The entire work shall be completed within a period of **90 days** from the date of commencement. If required in the contract or as directed by the Architect / consultant. The contractor shall complete certain portions of work before completion of the entire work. However, the completion date shall be reckoned as the date by which the whole work is completed as per the terms of the contract.

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## 28.0 **Extension of time**

If, in the opinion of the Architect/consultant, the work be delayed for reasons beyond the control of the contractor, the Architect/consultant may submit a recommendation to the SBI to grant a fair and reasonable extension of time for completion of work as per the terms of contract. If the contractor needs an extension of time for the completion of work or if the completion of work is likely to be delayed for any reasons beyond the due date of completion as stipulated in the contract, the contractor shall apply to the SBI through the Architect' Consultant in writing at least 30 Days before the expiry of the scheduled time and while applying for extension of time he shall furnish the reason in detail and his justification if any', for the delays. The architect/consultant shall submit their recommendations to the SBI in the prescribed format for granting extension of time. While granting extension of time the contractor shall be informed the period extended time which will qualify for levy of liquidated damages. For the balance period in excess of original stipulated period and duly sanctioned extension of time by the provision of liquidated damages as stated under clause 8.0 shall become applicable. Further the contract shall remain in force even for the period beyond the due date of completion irrespective whether the extension is granted or not.

## 29.0 **Rate of progress**

Whole of the materials, plant and labour to be provided by the contractor and the mode, manner and speed of execution and maintenance of the works are to be of a kind and conducted in a manner to the satisfaction of the Architect / consultant should the rate of progress of the work or any part thereof be at any time be in the opinion of the Architect / consultant too Slow to ensure the completion of the whole of the work the prescribed time or extended time for completion the Architect / consultant shall thereupon take such steps as considered necessary by the Architect / consultant to expedite progress so as to complete the works by the prescribed time or extended time. Such communications from the Architect / consultant neither shall relieve, the contractor from fulfilling obligations under the contract nor he will be entitled to raise any claims arising out of such directions.

## 30.0 **Work during nights and holidays**

Subject to any provision to the contrary contained in the contract no permanent work shall save as herein provided be carried on during the night or on holidays without the permission in writing of the Architect / consultant, save when the work is unavoidable or absolutely necessary for the saving of life or property or

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for the safety of the work in which case the contractor shall immediately advise the Architect / consultant. However, the provisions of the clause shall not be applicable in the case of any work which becomes essential to carry by rotary or double shifts in order to achieve the progress and quality of the part of the works being technically required / continued with the prior approval of the Architect / consultant at no extra cost to the SBI.

All work at night after obtaining approval from competent authorities shall be carried out without unreasonable noise and disturbance.

### 31.0 **No compensation or restrictions of work**

If at any time after acceptance of the tender SBI shall decide to abandon or reduce the scope of work for any reason whatsoever and hence not required the whole or any part of the work to be carried out. The Architect / consultant shall give notice in writing to that effect to the contractor and the contractor shall act accordingly in the matter. The contractor shall have no claim to any payment of compensation or otherwise what so ever on account of any profit or advantage which he might have derived from the execution of the Work fully but which he did not derive in consequence of the foreclosure of the whole or part of the work.

Provided that the contractor shall be paid the charges on the cartage only of materials actually and bonafide brought to the site of the work by the contractor and rendered surplus as a result of the abandonment, curtailment of the work or any portion thereof and then taken back by the contractor, provided however that the Architect / Consultant shall have in such cases the option of taking over all or any such materials at their purchase price or a local current rate whichever is less.

“In case of such stores having been issued from SBI stores and returned by the contractor to stores, credit shall be given to him at the rates not exceeding those at which were originally issued to the contractor after taking into consideration and deduction for claims on account of any deterioration or damage while in the custody of the contractor and in this respect the decision of Architect / consultant shall be final.

### 32.0 **Suspension of work**

- i) The contractor shall, on receipt of the order in writing of the Architect / consultant (whose decision shall be final and binding on the contractor) suspend the progress of works or any part thereof for such time and in such

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manner as Architect /consultant may consider necessary so as not to cause any damage or injury to the work already done or endanger the safety thereof for any of following reasons:

- a) On account any default on the part of the contractor, or
- b) For proper execution of the works or part thereof for reasons other than the default the contractor, or
- c) For safety of the works or part thereof.

The contractor shall, during such suspension, properly protect and secure the works to the extent necessary and carry out the instructions given in that behalf by the Architect / consultant.

- ii) If the suspension is ordered for reasons (b) and (c) in sub-para (i) above: The contractor shall be entitled to an extension of time equal to the period of every such suspension. No compensation whatsoever shall be paid on this account.

### 33 **Action when the whole security deposit is forfeited**

In any case in which under any clause or clauses of this contract, the Contractor shall have rendered himself liable to pay compensation amounting to the whole of his security deposit the Architect / consultant shall have the power to adopt any of the following course as they may deem best suited to the interest of the SBI:

- a) To rescind the contract (of which rescission notice in writing to the contractor by - Architect / consultant shall be conclusive evidence) and in which case the security, deposit of the contractor shall be forfeited and be absolutely at the disposal of SBI.
- b) To employ labour paid by the SBI and to supply materials to carry out the work, or part of the work, debiting the contractor with the cost of the labour and materials cost of such labour and materials as worked out by the Architect/consultant shall final and conclusive against the contractor and crediting him with the value of the work done, in all respects in the same manner and at the same manner and at the same rates as if it had been carried out by the contractor under the terms of this contract certificate of architect /consultant as to the value of work done shall be final conclusive against the contractor.
- c) To measure up the work of the contractor, and to take such part thereof as shall unexecuted, out of his hands, and to give it to another contractor to complete in which case any expenses which may be incurred in excess of the sum which

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would have been paid to the original contractor, if the whole work had been executed by him ( The amount of which excess the certificates in writing of the Architects / consultant shall final and conclusive) shall be borne by original contractor and may be deducted from any money due to him by SBI under the contract or otherwise, or from his security deposit or the proceeds of sale thereof, or sufficient part thereof.

In the event of any of above courses being adopted by the SBI the contractor shall have no claim to compensation for any loss sustained by him by reasons of his having purchased or procured any material or entered into any engagements or make any advances on account of, or with a view to the execution of the work or the performance of the contract and in case the contract shall be rescind under the provision aforesaid, the contractor shall not be entitled to recover or to be paid any sum or any work there to for actually performed under this contract, unless, and until the Architect / consultant will have certified in writing the performance of such work and the value payable in respect thereof, and he shall only be entitled to be paid the value so certified.

#### 34.0 **Owner's right to terminate the contract**

If the contractor being an individual or a firm commit any 'Act of insolvency' or shall be adjudged an insolvent or being an incorporated company shall have an order for compulsory winding up voluntarily or subject to the supervision of Govt. and of the Official Assignee of the liquidator in such acts of insolvency or winding up shall be unable within seven days after notice to him to do so, to show to the reasonable satisfaction of the Architect / Consultant that he is able to carry out and fulfill the contract, and to dye security therefore if so required by the Architect / Consultant.

Or if the contractor (whether an individual firm or incorporated Company) shall suffer execution to be issued or shall suffer any payment under this contract to be attached by or on behalf of any of the creditors of the contractor.

Or shall assign or sublet this contract without the consent in writing of the SBI through the Architect/Consultant or shall charge or encumber this contract or any payment due to which may become due to the contractor there under:

- a) has abandoned the contract; or
- b) has failed to commence the works, or has without any lawful excuse under these conditions suspended the progress of the works for 14 days after receiving from the SBI through the Architect / consultant written notice to proceed, or

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- c) has failed to proceed with the works with such diligence and failed to make such due progress as would enable the works to be completed within the time agreed upon, or  
has failed to remove the materials from the site or to pull down and replace work within seven days after written notice from the SBI through the Architect / Consultant that the said materials were condemned and rejected by the Architect/consultant under these conditions; or has neglected or failed persistently to observe and perform all or any of the acts matters or things by this contract to be observed and performed by the contractor for seven days after written notice shall have been given to the contractor to observe or perform the same or has to the detriment of good workmanship or in defiance of the SBI or Architect's / consultant's instructions to the contrary subject any part of the contract. Then and in any of said cases the SBI and or the Architect / consultant, may not withstanding any previous waiver, after giving seven days' notice in writing to the contractor, determine the contract, but without thereby affecting the powers of the SBI or the Architect / consultant or the obligation and liabilities of the contractor the whole of which shall continue in force as fully as if the contract had not been determined and as if the works subsequently had been executed by or on behalf of the contractor. And, further the SBI through the Architect / consultant their agents or employees may enter upon and take possession of the work and all plants, took scaffoldings, materials, sheds, machineries lying upon the premises or on the adjoining lands or roads use the same by means of their own employees or workmen in carrying on and completing the work or by engaging any other contractors or persons to the work 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 persons employed for complement and finishing or using the materials and plant for the works.

When the works shall be completed or as soon thereafter as convenient the SBI or architect / consultant shall give a notice in writing to the contractor to remove his surplus materials and plants and should the contractor fail to do so within 14 days after receive thereof by him the SBI sell the same by publication, and after due publication, and shall, adjust the amount realized by such auction. The contractor shall have no right to question any of the act of the SBI incidental to the sale of the materials etc.

### 35.0 **Certificate of payment**

The contractor shall be entitled under the certificates to be issued by the Architect / consultant to the contractor within 10 working days from the date of certificate to payment from SBI from time to time. The SBI shall recover the

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statutory recovering other dues including the retention amount from the certificate of payment.

Provided always that the issue of any certificate by the Architect / consultant during progress of works or completion shall not have effect as certificate of satisfaction relieve the contractor from his liability under clause.

The Architect / consultant shall have power to withhold the certificate if the work or in part thereof is not carried out to their satisfaction.

The Architect / consultant may by any certificate make any corrections required previous certificate.

The SBI shall modify the certificate of payment as issued by the architect / consultant from time to time while making the payment

The contractor shall submit interim bills only after taking actual measurements and properly recorded in the M books

The Contractor shall not submit interim bills when the approximate value of work done by him is less than Rs. 5.00 Cr (Rupees Five Crore).

The final bill may be submitted by contractor within a period of **one month** from the date of virtual completion and Architect / consultant shall issue the certificate of payment within a period of two months. The SBI shall pay the amount within a period of three months from the date of issue of certificate provided there is no dispute in respect of rates and quantities.

The contractor shall submit the interim bills in the prescribed format with all details.

### 36.0 **Settlement of Disputes and Arbitration**

Except where otherwise provided in the contract all questions and disputes to the meaning of the specifications, design, drawings and instructions herein before mentioned and as to the quality of workmanship or materials used on the work or as to any other question , claim, right, matter or thing whatsoever in any way arising out of or relating to the contract, designs, drawings specifications, estimates, instructions orders or these conditions or otherwise concerning the work or the execution or failure to execute the same whether arising during the progress of the work or after the cancellation, termination, completion or abandonment thereof shall be dealt with as mentioned hereinafter:

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- i) If the contractor considers that he is entitled to any extra payment or compensation in respect of the works over and above the amounts admitted as payable by the Architect or in case the contractor wants to dispute the validity of any deductions or recoveries made or proposed to be made from the contract or raise any dispute, the contractor shall forthwith give notice in writing of his claim, or dispute to the Assistant General Manager (Premises & Estate) S.B.I., L.H.O. Maharashtra. And endorse a copy of the same to the Architect, within 30 days from the date of disallowance thereof or the date of deduction or recovery. The said notice shall give full particulars of the claim, grounds on which it is based and detailed calculations of the amount claimed and the contractor shall not be entitled to raise any claim nor shall the Bank be in any way liable in respect of any claim by the contractor unless notice of such claim shall have been given by the contractor to the Asst. General Manager (Premises & Estate) in the manner and within the time as aforesaid. The Contractor shall be deemed to have waived and extinguished all his rights in respect of any claim not notified to the Asst. General Manager (Premises & Estate) in writing in the manner and within the time aforesaid.
- ii) The Asst. General Manager (Premises & Estate) shall give his decision in writing on the claims notified by the contractor. The contractor may within 30 days of the receipt of the decision of the Asst. General Manager (Premises & Estate) / submit his claims to the conciliating authority namely the Circle Development Officer, S.B.I, L.H.O. Maharashtra. For conciliation along with all details and copies of correspondence exchanged between him and the Asst. General Manager (Premises & Estate).
- iii) If the conciliation proceedings are terminated without settlement of the disputes, the contractor shall, within a period of 30 days of termination thereof shall give a notice to the concerned Chief General Manager of the Bank for appointment of an arbitrator to adjudicate the notified claims falling which the claims of the contractor shall be deemed to have been considered absolutely barred and waived.
- iv) Except where the decision has become final, binding and conclusive in terms of the contract, all disputes or differences arising out of the notified claims of the contractor as aforesaid and all claims of the Bank shall be referred for adjudication through arbitration by the Sole Arbitrator appointed by the Chief General Manager. It will also be no objection to any such appointment that the Arbitrator so appointed is a Bank Officer and that he had to deal with the matters to which the Contract relates in the course of his duties as Bank Officer. If the arbitrator so appointed is unable or unwilling to act or resigns his appointment or vacates his office due to any reason whatsoever another sole

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arbitrator shall be appointed in the manner aforesaid by the said Chief General Manager. Such person shall be entitled to proceed with the reference from the stage at which it was let by his predecessor.

It is a term of this contract that the party invoking arbitration shall give a list of disputes with amounts claimed in respect of each dispute along with the notice for appointment of arbitrator.

It is also a term of this contract that no person other than a person appointed by such Chief General Manager as aforesaid should act as arbitrator.

The conciliation and arbitration shall be conducted in accordance with the provisions of the Arbitration & Conciliation Act 1996 or any or any accordance modification or re-enactment thereof and the rules made there under.

It is also a term of the contract that if any fees are payable to the Arbitrator these shall be paid equally by both the parties. However, no fees will be payable to the arbitrator if he is a Bank Officer.

It is also a term of the contract that the Arbitrator shall be deemed to have entered on the reference on the date he issues notice to both the parties calling them to submit their statement of claims and counter statement of claims. The venue of the arbitration shall be such place as may be fixed by the arbitrator in his sole discretion. The fees, if any of the arbitrators shall, if required to be paid before the award is made and published, be paid half and half by each of the parties. The Cost of the reference and of the award (including the fees, if any of the arbitrator) shall be in the discretion of the arbitrator who may direct to any by whom and in what manner, such costs or any part thereof, shall be paid and fix or settle the amount of costs to be so paid.

### 37.0 **Water supply**

The contractor shall make his own arrangements for water required for the work and nothing extra will be paid for the same. This will be subject to the following condition.

- i) That the water used by the contractor shall be fit for construction purposes to the satisfaction of the Architect / consultant's.
- ii) The contractor shall make alternative arrangements for the supply of water if the arrangement made by the contractor for procurement of water in the opinion of the

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Architect / consultant is unsatisfactory.

iii) In case contractor is permitted to use Bank's source of water i.e. Municipal connection, Bore well (existing or new) etc., the Bank may consider recovering @1% of contract amount form the final bill of contractor.

37.1 The contractor shall construct temporary well / tube well in SBI land for taking water for construction purposes only after obtaining permission in writing from the SBI. The contractor has to make his own arrangements for drawing and distributing the water at his own cost. He has to make necessary arrangements. To avoid any accidents or damages caused due to construction and subsequent maintenance of the wells. He has to obtain necessary approvals from local authorities, if required, at his own cost. He shall restore the ground to its original condition after wells are dismantled on completion of work or hand over the well to the SBI without any compensation as directed by the architect / consultant.

**38.0 Power supply**

The contractor shall make his own arrangements for power and supply / distribution system for driving plant or machinery for the work and for lighting purpose at his own cost. The cost of running and maintenance of the plants are to be included in his tender prices. He shall pay all fees and charges required, by the power supply and include the same in his tendered rates and hold the owner free from all such costs. He has to obtain necessary approval from the appropriate authorities, if required.

**39.0 Treasure trove etc.**

Any treasure trove, coin or object antique which may be found on the site shall be the property of SBI and shall be handed over to the bank immediately.

**40.0 Method of measurement**

Unless otherwise mentioned in the schedule of quantities or in mode of measurement, the measurement will be on the net quantities or work produced in accordance with up to date rules laid down by the Bureau of Indian Standards. In the event any dispute / disagreement the decision of the Architect / consultant shall be final and binding on the contractor

**41.0 Maintenance of registers**

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The contractor shall maintain the following registers as per the enclosed perform at site of work and should produce the same for inspection of SBI architect / consultant whenever desired by them. The contractor shall also maintain the records / registers as required by the local authorities / Govt. from time to time.

- i) Register for secured advance
- ii) Register for hindrance to work
- iii) Register for running account bill
- iv) Register for labour

#### 42.0 **Force Majeure**

42.1 Neither contractor nor SBI shall be considered in default in performance of the obligations if such performance is prevented or delayed by events such as but not war, hostilities revolution, riots, civil commotion, strikes, lockout, conflagrations, epidemics, accidents, fire, storms, floods, droughts, earthquakes or ordinances or any act of or for any other cause beyond the reasonable control of the party affected or prevents or delayed. However a notice is required to be given within 30 days from the happening of the event with complete details, to the other party to the contract, if it is not possible to serve a notice, within the shortest possible period without delay.

42.2 As soon as the cause of force majeure has been removed the party whose ability perform its obligations has been affected, shall notify the other of such cessation and the actual delay incurred in such affected activity adducing necessary evidence in support thereof.

42.3 From the date of occurrence of a case of force majeure obligations of the party affected shall be suspended during the continuance of any inability so caused. With the caused itself and inability resulting there from having been removed, the agreed time completion of the respective obligations under this agreement shall stand extended a period equal to the period of delay occasioned by such events.

42.4 Should one or both parties be prevented from fulfilling the contractual obligations by state of force majeure lasting to a period of 6 months or more the two parties, shall each other to decide regarding the future execution of this agreement.

#### 43.0 **Local laws, Acts Regulations:**

The contractor shall strictly adhere to all prevailing labour laws inclusive at contract labour (regulation and abolition act of 1970) and other safety

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regulations etc. The contractors should comply with the provisions of all labour legislation including the latest requirements of the Acts, laws, any other regulations etc that are applicable to the execution of the project.

- i) Minimum wages Act 1948 (Amended)
- ii) Payment of wages Act 1936 (Amended)
- iii) Workmen's compensation Act 1923 (Amended)
- iv) Contract labour regulation and abolition act 1970 and central rules 1971 (Amended)
- v) Apprentice act 1961 (amended)
- vi) Industrial employment (standing order) Act 1946 (Amended)
- vii) Personal injuries (Compensation insurance) act 1963 and any other modifications
- viii) Employees' provident fund and miscellaneous provisions Act 1952 and amendment thereof
- ix) Shop and establishment act
- x) Any other act or enactment relating thereto and rules framed there under from time to time.
- xi) Prevailing Indian Electricity rules & act.

#### 44.0 **Accidents**

The contractor shall immediately on occurrence of any accident at or about the site or in connection with the execution of the work report such accident to the architect / consultant. The contractor shall also report immediately to the competent authority whenever such report is required to be lodged by the law and take appropriate actions thereof.

#### 45.0 **Integrity Pact**

The pact essentially envisages an agreement between the prospective vendors/bidders and the buyer, committing the persons/officials of both sides, not to resort to any corrupt practices in any aspect/stage of the contract. Only those vendors/bidders, who commit themselves to such a Pact with the buyer, would be considered competent to participate in the bidding process. In other words, entering into this Pact would be a preliminary qualification. The essential ingredients of the Pact include:

- a) Promise on the part of the principal not to seek or accept any benefit, which is not legally available;
- b) Principal to treat all bidders with equity and reason;
- c) Promise on the part of bidders not to offer any benefit to the employees of the Principal not available legally;

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- d) Bidders not to enter into any undisclosed agreement or understanding with other bidders with respect to prices, specifications, certifications, subsidiary contracts, etc.
- e) Bidders not to pass any information provided by Principal as part of business relationship to others and not to commit any offence under PC/ IPC Act;
- f) Foreign bidders to disclose the name and address of agents and representatives in India and Indian Bidders to disclose their foreign principals or associates;
- g) Bidders to disclose the payments to be made by them to agents / brokers or any other intermediary.
- h) Bidders to disclose any transgressions with any other company that may impinge on the anti-corruption principle.

Integrity Pact, in respect of a particular contract, would be operative from the stage of invitation of bids till the final completion of the contract. Any violation of the same would entail disqualification of the bidders and exclusion from future business dealings.

## **SPECIAL CONDITION OF CONTRACT**

### **Scope of work**

1.0 The scope of work is to carry out Composite Interior Works consisting of Interior Furnishing Works, Electrical Works, Telecom & Data Cabling Works, CCTV Works and Fire Hydrant & Sprinkler System at GF, Stilt, 4th to 15th floors of the proposed LHO Building, Kharadi - Pune

### **2.0 Address of site**

The site is located at GF, Stilt, 4<sup>th</sup> to 15<sup>th</sup> floors of Clock Tower, Kharadi, Pune.

### **3.0 Dimensions and levels**

All dimensions and levels shown on the drawings shall be verified by the contractor at the site and he will be held responsible for the accuracy. Figured dimensions are in all cases to be accepted and dimension shall not be scaled. Large scale details shall take precedence over small scale drawings. In case of discrepancy the contractor shall ask for clarification from the Architect / consultant before proceeding with the work.

### **4.0 Notice of operation**

The contractor shall not carry out any important operation without the Consent in writing from the Bank's Engineer/Architect / Consultant.

### **5.0 Construction records**

The contractor shall keep and provide to the Architect / consultant full and accurate records of the dimensions and positions of all new work and any other information necessary to prepare complete drawings recording details of the work as construction.

### **6.0 Safety of adjacent structures and trees**

The contractor shall provide and erect to the approval of the Architect / consultant supports as may be required to protect effectively all structures and protective give to trees, which may be endangered by the execution of the works or otherwise such permanent measures as may be required by the Architect to protect the tree structures.

### **7.0 Temporary works**

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Before any temporary works are commenced the contractor shall submit at least in advance to the architect / consultant for approval complete drawings of all temporary works he may require for the execution of the works. The contractor shall carry out the modifications relating to strength, if required by the architect / consultant may require in accordance with the conditions of contract at his own cost. The contractor shall be solely responsible for the stability and safety of all temporary works and unfinished works and for the quality of the permanent works resulting from the arrangement eventually adopted for their execution.

**8.0 Water power and other facilities**

- a) The rate quoted by the contractor shall include all expenses that are required for providing all the water required for the work and the contractor shall make his own arrangements for the supply of good quality water suitable for the construction and good quality drinking water for their workers. If necessary the contractor has to sink a tube well / open well and bring water by means of tankers at his own cost for the purpose. The SBI will not be liable to pay any charges in connection with the above
- b) The rate quoted in the tender shall include the expenses for obtaining and maintaining power connections and shall pay for the consumption charges
- c) The contractors for other trades directly appointed by the SBI shall be entitled to take power and water connections from the temporary water and power supply obtained by the contractor. However, the concerned contractor shall make their own arrangements to draw the supply and pay directly the actual consumption charges at mutually agreed rates between them. All municipal charges for drainage and water connection for Construction purposes shall be borne by the contractor and charges payable for permanent connections, if any, shall be initially paid by the contractor and the SBI will reimburse the amount on production of receipts
- d) The SBI as well as the Architect / consultant shall give all possible assistance to the Contractor's to obtain the requisite Permission from the various authorities, but the responsibility for obtaining the same in time shall be of the contractor

**9.0 Facilities for contractor's employees**

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The contractor shall make his own arrangement for the housing and welfare of his staff and workmen including adequate drinking water facilities. The contractor shall also make the arrangements at his own cost for transport where necessary for his staff and workmen to and from site of work at his own cost.

#### 10.0 **Lighting of works**

The contractor shall at all times provide adequate and approved lighting as required for the proper execution and supervision and inspection of work.

#### 11.0 **Firefighting arrangements**

- i) The contractor shall provide suitable arrangement for firefighting at his own cost. This purpose he shall provide requisite number of fire extinguishers and adequate number of buckets, some of which are to be always kept filled with sand and some with water these equipment's shall be provided at suitable prominent and easily accessible place and shall be properly maintained.
- ii) Any deficiency in the fire safety or unsafe conditions shall be corrected by the contractor at his own cost and, to the approval of the relevant authorities. The contractor make the following arrangements at his own cost but not limited the following:
  - a) Proper handling, storage and disposal of combustible materials and waste.
  - b) Work operations which can create fire hazards.
  - c) Access for fire-fighting equipments.
  - d) Type, number and location of containers for the removal of surplus materials and rubbish.
  - e) Type, size, number and location of fire extinguishers or other firefighting equipment.
  - f) General house keeping

#### 12.0 **Site order book**

A site order book shall be maintained at site for the purpose of quick communication between the Architect / Consultant. Any communication relating to the work may be conveyed through records in the site order book. Such a communication from one party to the other shall be deemed to have been adequately served in terms of contract. Each site order book shall have machine numbered pages **in triplicate** and shall carefully maintained and preserved by the contractor and shall be made available to the architect / consultant as and when demanded- Any instruction which the architect

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/consultant may like to issue to the contractor or the contractor may like to bring to the architect / consultant two copies of such instructions shall be taken from the site order book and one copy will be handed over to the party against proper acknowledgment and the second copy will be retained for their record.

**13.0 Temporary fencing/ barricading**

The contractor shall provide and maintain a suitable temporary fencing / barricading and gates at his cost to adequately enclose all boundaries of the site for the protection of the public and for the proper execution and security of the work and in accordance with the requirement of the architect/ consultant and regulations of local authorities. These shall be altered, relocated and adopted from time to time as necessary and removed on completion of the work.

**14.0 Site meetings**

Site meetings will be held to review the progress and quality evaluation. The contractor shall depute a senior representative along with the site representative and other staff of approved sub-contractors and suppliers as required to the site meetings and ensure all follow up actions. Any additional review meetings shall be held if required by the architect/ consultant.

**15.0 Disposal of refuse**

The contractor shall cart away all debris, refuse etc. arising from the work from the site and deposit the same as directed by the architect / consultant at his own cost. It is the responsibility of the contractor to obtain from the local authorities concerned to the effect that all rubbish arising out of contractor's activities at the construction site or any other off-site activities borrow pits has been properly disposed off.

**16.0 Contractor to verify site measurement**

The contractor shall check and verify all site measurements whenever requested other specialists contractors or other sub-contractors to enable them to prepare the own shop drawing and pass on the information with sufficient promptness as will in any way delay the works.

**17.0 Displaying the name of the work**

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The contractor shall put up a name board of suitable size as directed by the architect/ consultant indicating therein the name of the project and other details as given by the architect/consultant at his own cost and remove the same on completion of work.

**18.0 As built drawings**

- i) For the drawings issued to the contractor by the Architect / Consultant. The architect Consultant will issue two sets of drawings to the Contractor for the items for some changes have been made. From the approved drawings as instructed by the SBI/ architect / consultant. The contractor will make the changes made on these copies and return these copies to the architect / Consultant for their approval. In case any revision is required or the corrections are not properly marked the architect / Consultant will point out the discrepancies to the contractor. The contractor will have to incorporated these corrections and / or attend to discrepancies either on copies as directed by the architect / consultant and resubmit to him for approval. The architect / consultant will return one copy duly approved by him.

- ii) For the drawings prepared by the contractor

The contractor will modify the drawing prepared by him wherever the changes made by the SBI / architect / consultant. And submit two copies of such modified drawings to the architect/ consultant for approval. The architect / consultant will return one copy of the approved drawing to the contractor.

**19.0 Approved make**

The contractor shall provide all materials from the list of approved makes at his own cost and also appoint the specialized agency for the waterproofing anti-termite, aluminium doors and windows and any other item as specified in the tender. The architect/consultant may approve any make / agency within the approved list as given in the tender after inspection of the sample/mock up.

**20.0 Procurement of materials**

The contractor shall make his own arrangements to procure all the required materials for the work .All wastages and losses in weight shall be to the contractors account

**21.0 Excise duty, taxes, levies etc;**

The contractor shall pay and be responsible for payment of all taxes, duties, levies, royalties, fees, cess or charges except GST in respect of the works including but not limited to sales tax, tax on works contract excise duty, and

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octroi, except GST payable in respect of materials, equipment plant and other things required for the contract. All of the aforesaid taxes, duties, levies, fees and charges except GST shall be to the contractor's account and the SBI shall not be required to pay any additional or extra amount on this account. Variation of taxes, duties, fees, levies etc if any excluding GST, till completion of work shall be deemed to be included in the quoted rates and no extra claim on this account will in any case be entertained. If a new tax or duty or levy or cess or royalty or octroi is imposed under as statutory law during the currency of contract the same shall be borne by the contractor.

**22.0 Acceptance of tender**

The SBI shall have the right to reject any or all tenders without assigning any reason. They are not to bind to accept the lowest or any tender and the tenderer or tenderers shall have no right to question the acts of the SBI. However adequate transparency would be maintained by the SBI.

**23.0 Photographs:**

- The Contractor shall at his own expense supply to the Architects with duplicate hard 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 one months during the progress of the work or at every important stage of construction.
- In addition to above, the contractor shall be bound to submit adequate no. of site photographs along with their each Running Bill for the project clearing showing major progress of work measured and claimed therein failing which the Architect/Bank may consider returning the Bill to the contractor and no claim for delay on this account will be entertained.

**INTEGRITY AGREEMENT**

**TO BE SIGNED BY THE BIDDER AND SAME SIGNATORY COMPETENT / AUTHORIZED TO SIGN THE RELEVANT CONTRACT WITH STATE BANK OF INDIA**

**INTEGRITY AGREEMENT**

This Integrity Agreement is made at ..... on this ..... day of .....20.....

**BETWEEN**

State bank of India represented through Assistant General Manager (P&E), Local Head Office, Mumbai Metro Circle, 3<sup>rd</sup> Floor, Synergy Building, Bandra Kurla Complex, Mumbai 400051 (Hereinafter referred as the '**Principal/Owner**', which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

**AND**

..... (Name and Address of the Individual / firm/ Company) through ..... (Hereinafter referred to as the (Details of duly authorized signatory) "**Bidder/Contractor**" and which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns).

**PREAMBLE:**

WHEREAS the Principal / Owner has floated the Tender (NIT No. ....) (hereinafter referred to as "**Tender / Bid**") and intends to award, under laid down organizational procedure, contract for "**C/o** ....."hereinafter referred to as the "**Contract**".

AND WHEREAS the Principal/Owner values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness / transparency in its relation with its Bidder(s) and Contractor(s).

AND WHEREAS to meet the purpose aforesaid both the parties have agreed to enter into this Integrity Agreement (hereinafter referred to as "**Integrity Pact**" or "**Pact**"), the terms and conditions of which shall also be read as integral part and parcel of the Tender/Bid documents and Contract between the parties.

NOW, THEREFORE, in consideration of mutual covenants contained in this Pact, the parties hereby agree as follows and this Pact witness as under:

**ARTICLE 1: Commitment of the Principal/Owner**

1. The Principal/Owner commits itself to take all measures necessary to prevent corruption and to observe the following principles:
  - (a) No employee of the Principal/Owner, personally or through any of his/her family members, will in connection with the Tender, or the execution of the Contract, demand,

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take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.

- (b) The Principal/Owner will, during the Tender process, treat all Bidder(s) with equity and reason. The Principal/Owner will, in particular, before and during the Tender process, provide to all Bidder(s) the same information and will not provide to any Bidders(s) confidential/additional information through which the Bidder(s) could obtain an advantage in relation to the Tender process or the Contract execution.
  - (c) The Principal/Owner shall endeavor to exclude from the Tender process any person, whose conduct in the past has been of biased nature.
2. If the Principal/Owner obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal code (IPC)/Prevention of Corruption Act, 1988 (PC Act) or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Principal/Owner will inform the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

## **ARTICLE 2: Commitment of the Bidder(s)/Contractor(s)**

- 1. It is required that each Bidder/Contractor (including their respective officers, employees and agents) adhere to the highest ethical standards, and report to the Government/Department all suspected acts of **fraud or corruption or Coercion or Collusion** of which it has knowledge or becomes aware, during the tendering process and throughout the negotiation or award of a contract.
- 2. The Bidder(s)/Contractor(s) commits himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution:
  - (a) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal/Owner's employees involved in the Tender process or execution of the Contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the Tender process or during the execution of the Contract.
  - (b) The Bidder(s)/Contractor(s) will not enter with other Bidder(s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to cartelize in the bidding process.
  - (c) The Bidder(s)/Contractor(s) will not commit any offence under relevant BNS/PC Act. Further the Bidder(s)/Contractor(s) will not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Principal/Owner as part of the business relationship, regarding plans, technical proposals and business details including information contained or transmitted electronically.

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- (d) The Bidder(s)/Contractor(s) of foreign origin shall disclose the names and addresses of agents/representatives in India, if any. Similarly, Bidder(s)/Contractor(s) of Indian Nationality shall disclose names and address of foreign agents/representatives, if any. Either the India agent on behalf of the foreign principal or the foreign principal directly could bid in a tender but not both. Further, in cases where an agent participates in a tender on behalf of one manufacturer, he shall not be allowed to quote on behalf of another manufacturer along with the first manufacturer in a subsequent/parallel tender for the same item.
- (e) The Bidder(s)/Contractor(s) will, when presenting his bid, disclose (with each tender as per proforma enclosed) any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract.
3. The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
  4. The Bidder(s)/Contractor(s) will not, directly or through any other person or firm indulge in fraudulent practice means a willful misrepresentation or omission of facts or submission of fake/forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to detriment of the Government interests.
  5. The Bidder(s)/Contractor(s) will not, directly or through any other person or firm use Coercive Practices (means the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may befall upon a person, his/her reputation or property to influence their participation in the tendering process).

### **ARTICLE 3: Consequences of Breach**

Without prejudice to any rights that may be available to the Principal/Owner under law or the Contract or its established policies and laid down procedures, the Principal/Owner shall have the following rights in case of breach of this Integrity Pact by the Bidder(s)/Contractor(s) and the Bidder/Contractor accepts and undertakes to respect and uphold the Principal/Owner's absolute right:

1. If the Bidder(s)/Contractor(s), either before award or during execution of Contract has committed a transgression through a violation of Article 2 above or in any other form, such as to put his reliability or credibility in question, the Principal/Owner after giving 14 days' notice to the contractor shall have powers to disqualify the Bidder(s)/Contractor(s) from the Tender process or terminate/determine the Contract, if already executed or exclude the Bidder/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of transgression and determined by the Principal/Owner. **Such exclusion may be forever or for a limited period as decided by the Principal/Owner.**
2. **Forfeiture of EMD/Performance Guarantee/Security Deposit:** If the Principal/Owner has disqualified the Bidder(s) from the Tender process prior to the award of the Contract

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or terminated/determined the Contract or has accrued the right to terminate/determine the Contract according to Article 3(1), the Principal/Owner apart from exercising any legal rights that may have accrued to the Principal/Owner, may in its considered opinion forfeit the entire amount of Earnest Money Deposit, Performance Guarantee and Security Deposit of the Bidder/Contractor.

3. **Criminal Liability:** If the Principal/Owner obtains knowledge of conduct of a Bidder or Contractor, or of an employee or a representative or an associate of a Bidder or Contractor which constitutes corruption within the meaning of Bhartiya Nyaya Sanhita (BNS)/Prevention of Corruption Act, or if the Principal/Owner has substantive suspicion in this regard, the Principal/Owner will inform the same to law enforcing agencies for further investigation.

#### **ARTICLE 4: Previous Transgression**

1. The Bidder declares that no previous transgressions occurred in the last 5 years with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the Tender process.
2. If the Bidder makes incorrect statement on this subject, he can be disqualified from the Tender process or action can be taken for banning of business dealings/holiday listing of the Bidder/Contractor as deemed fit by the Principal/Owner.
3. If the Bidder/Contractor can prove that he has resorted/recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal/Owner may, at its own discretion, revoke the exclusion prematurely.

#### **ARTICLE 5: Equal Treatment of all Bidders / Contractors / Subcontractors**

1. The Bidder(s)/Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact. The Bidder/Contractor shall be responsible for any violation(s) of the principles laid down in this agreement/Pact by any of its Sub-contractors/sub-vendors.
2. The Principal/Owner will enter into Pacts on identical terms as this one with all Bidders and Contractors.
3. The Principal/Owner will disqualify Bidders, who do not submit, the duly signed Pact between the Principal/Owner and the bidder, along with the Tender or violate its provisions at any stage of the Tender process, from the Tender process.

#### **ARTICLE 6: Independent External Monitors (IEM)**

1. The Principal/Owner has appointed IEM for this Pact as per Central Vigilance Commission order no 41/12/07 (Names and Addresses of the IEM to be given below).

Name	<b>Shri. Otem Dai</b>	<b>Shri Satyajit Mohanty</b>
Cadre	IAS (Retd.)	IPS(Retd.)
E-mail ID	otemdai@hotmail.com	satyajitmohanty88@gmail.com

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2. The task of the IEM shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.
3. The IEM shall not be subject to instructions by the representatives of the parties and perform their functions neutrally and independently.
4. Both the parties accept that the IEM have the right to access all the documents relating to the project/procurement, including minutes of meetings.
5. As soon as the IEM notices, or has reason to believe, a violation of this Pact, he will so inform the Authority designated by the Principal/Owner.
6. The BIDDER(s) accepts that the IEM has the right to access without restriction to all Project documentation of the Principal/Owner including that provided by the BIDDER. The BIDDER will also grant the IEM, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Subcontractors. The IEM shall be under contractual obligation to treat the information and documents of the BIDDER/ Subcontractor(s) with confidentiality.
7. The Principal/Owner will provide to the IEM sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the parties. The parties will offer to the IEM the option to participate in such meetings.
8. The IEM will submit a written report to the designated Authority of Principal/Owner /Secretary in the Department/ within 8 to 10 weeks from the date of reference or intimation to him by the Principal/ Owner / BIDDER and, should the occasion arise, submit proposals for correcting problematic situations.

#### **ARTICLE 7: Facilitation of Investigation**

In case of any allegation of violation of any provisions of this Pact or payment of commission, the Principal/ Owner or its agencies shall be entitled to examine all the documents including the Books of Accounts of the BIDDER and the BIDDER shall provide necessary information and documents in English and shall extend all possible help for the purpose of such examination.

#### **ARTICLE 8: Duration of the Pact**

This Pact begins when both the parties have legally signed it. It expires for the Contractor/Vendor, 60 months (5 years) after the completion of work under the contract or till the continuation of defect liability period, whichever is more and for all other bidders, till the Contract has been awarded. If any claim is made/lodged during the time, the same shall be binding and continue to be valid despite the lapse of this Pacts as specified above, unless it is discharged/determined by the Competent Authority, SBI.

#### **ARTICLE 9: Other Provisions**

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1. This Pact is subject to Indian Law, place of performance and jurisdiction is **Mumbai, / location** of the Principal/Owner, who has floated the Tender.
2. Changes and supplements need to be made in writing. Side agreements have not been made.
3. If the Contractor is a partnership or a consortium, this Pact must be signed by all the partners or by one or more partner holding power of attorney signed by all partners and consortium members. In case of a Company, the Pact must be signed by a representative duly authorized by board resolution.
4. Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intensions.
5. It is agreed term and condition that any dispute or difference arising between the parties with regard to the terms of this Integrity Agreement/Pact, any action taken by the Owner/Principal in accordance with this **Integrity Agreement / Pact or interpretation thereof shall not be subject to arbitration.**

**ARTICLE 10: LEGAL AND PRIOR RIGHTS**

All rights and remedies of the parties hereto shall be in addition to all the other legal rights and remedies belonging to such parties under the Contract and/or law and the same shall be deemed to be cumulative and not alternative to such legal rights and remedies aforesaid. For the sake of brevity, both the Parties agree that this Integrity Pact will have precedence over the Tender/Contract documents with regard any of the provisions covered under this Integrity Pact.

IN WITNESS WHEREOF the parties have signed and executed this Integrity Pact at the place and date first above mentioned in the presence of following witnesses:

.....  
(For and on behalf of Bidder/Contractor)

.....  
(For and on behalf of Principal/Owner)

Date:

Place:

**WITNESSES:**

1. ....  
(Signature, name and address)

2. ....  
(Signature, name and address)

Signature of Contractor with Seal

**FORMAT FOR BANK GUARANTEE IN LIEU OF SD/ASD**

Place: .....

Date:.....

**(On non-judicial stamp paper of Rs.-----/-)**

**BANK GUARANTEE IN LIEU OF SECURITY DEPOSIT**

B.G.No. \_\_\_\_\_

Value Rs. \_\_\_\_\_

State Bank of India,

(Address)

**Sub: Bank Guarantee of Rs.....towards Security Deposit for the work offer State Bank of India.**

**(Name of Branch/Office)**

Dear Sir,

WHEREAS (Name and address of contractor/ vendor) (hereinafter called the Contractor) have entered into contract for (Name of Work) with State Bank of India (SBI) as mentioned in the letter of SBI's Consultants (Name & address of consultants) vide their letter No..... dated .....and the correspondence and tender relating thereto which is hereinafter referred to as "the said contract" the Contractor has now agreed to produce a Bank Guarantee amounting to 2% of the contract value less earnest money deposit of Rs.....(Rupees only), to State Bank of India for performing their part of the contract obligations.

AND WHEREAS in terms of said contract, the contractor is required to furnish to State Bank of India a Guarantee of a Scheduled Bank for a value of Rs..... to be valid upto (date).

AND WHEREAS (Name of Bank and its branch) having their office at (address) the Guarantor, at the request of the contractor hereby furnishes a PBG in favour of State Bank of India and Guarantees in the manner hereinafter appearing.

In consideration of the premise, we (name of Bank and its branch) having our office at (address) here after called the "Guarantor" (which expression shall include its successors and assigns) here by expressly, irrevocably & unreservedly undertake and guarantee under that if the Contractor fails to execute the work according to his obligations under the said contract, then notwithstanding any dispute between State Bank of India and the contractor the Guarantor shall, on demand without demur and

Signature of Contractor with Seal

without reference to the contractor pay to State Bank of India immediately any sum claimed by State Bank of India under the said contract up to a maximum amount of Rs. \_\_\_\_\_ (Rupees only).

In case the amount demanded by State Bank of India is not paid within 48 hours of receipt of demand, the Guarantor agrees to pay the aforesaid amount of Rs. \_\_\_\_\_/- (Rupees \_\_\_\_\_ only).

- (i) Such payment shall be notwithstanding any right the contractor may have directly against State Bank of India or any disputes raised by the Contractor with State Bank of India or any suits or proceedings pending in any competent court or before any arbitrator. State Bank of India's written demand shall be conclusive evidence to the Guarantor that such payment is payable under the terms of the Contract and shall be binding in all respect on the guarantor.
- (ii) The Guarantor shall not be discharged or released from the the undertaking and Guarantee, by any arrangement, variations made between SBI and the Contractor and or indulgence shown to the contractor by SBI, with or without the consent and knowledge of the guarantor or by alterations in the obligations of the contractor by any forbearance, whether as to payment, time performance or otherwise.
- (iii) This guarantee shall remain valid until or as may be caused to be extended by the contractor or until discharged by SBI in writing whichever is earlier.
- (iv) This guarantee shall be a continuing guarantee and shall not be revocable during its currency except with the previous written consent of SBI.
- (v) This guarantee shall not be affected by any change in the constitution of the contractor, by absorption with any other body or corporation or dissolution or otherwise and this guarantee will be available to or enforceable against such body or corporation.
- (vi) In order to give effect to this guarantee SBI will be entitled to act as if the Guarantor were the Principal debtor and the Guarantor hereby waives all and any of its rights or surety ship.
- (vii) This guarantee shall continue to be in force notwithstanding the discharge of the contractor by operation of law and shall cease only on payment of the full amount by the Guarantor to SBI of the amount hereby secured.
- (viii) This guarantee shall be in addition to and not in substitution for any other guarantee or security for the contractor given or to be given to SBI in respect of the said contract.
- (ix) Any notice by way of request and demand or otherwise here under may be sent by post or any other mode or communication to the guarantor addressed as aforesaid and if sent by post it shall be deemed to have been given at the time when it would be delivered in due course of post and in

Signature of Contractor with Seal

providing such notice when given by post it shall be sufficient to prove that the envelope containing the notice was posted and a certificate signed by an officer of SBI that the envelope was so posted shall be conclusive.

- (x) These presents shall be governed by and constructed in accordance with Indian Law.

Notwithstanding anything contained hereinbefore the liability of the guarantor under this guarantee is restricted to a sum of Rs.\_\_\_\_\_.

This guarantee will remain valid upto \_\_\_\_\_ unless a demand or claim under this guarantee is made in writing on or before \_\_\_\_\_ the guarantor shall be discharged from all liability under the guarantee thereafter.

Dated the .....

For (Name of Bank)

(Signature/s with designation/s of signatory/ies)

(Name and Stamp of Bank)

**NON-DISCLOSURE AGREEMENT**  
(Applicable To Successful Bidder Only)

I, following conditions \_\_\_\_\_ (Name of the successful Bidder), hereby agree to abide by the

- a) I shall treat all documents, information, data and communication of and with the Bank as confidential.
- b) I shall not, without the Bank's prior written consent, disclose the contract or any specification, plan, sample or information or data or drawings/designs furnished to the Bank to any person other than the person(s) employed/designated by the Bidder for the purpose of performance of this RFP/BID DOCUMENT.
- c) Further, any such disclosure to any such person employed by me shall be made in utmost confidence and should extend only so far as may be necessary and relevant for the purpose of such performance and shall be subject to the terms and conditions of the Non-Disclosure clause.
- d) I shall not, without the Bank's prior written consent, make use of any document or information mentioned in these conditions of the RFP/BID DOCUMENT except for the sole purpose of performing this RFP/BID DOCUMENT.

.....  
(Signature, name and address of the successful Bidder or Bidder's executive/representative duly authorized to sign on behalf of the Bidder)

For and on behalf of .....  
(Name and address of the successful Bidder)  
(Seal of the successful Bidder)

Signature of Contractor with Seal

**ARTICLES OF AGREEMENT**

(On non-judicial Stamp Paper of Rs. 500/-)

ARTICLES OF AGREEMENT made the \_\_\_\_\_ date of \_\_\_\_\_ between State Bank of India, having its office at Mumbai hereinafter called "the Bank" of the One \_\_\_\_\_ Part \_\_\_\_\_ and \_\_\_\_\_

\_\_\_\_\_

WHEREAS \_\_\_\_\_ the Bank is desirous of \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ and has caused drawings and specifications describing the work to be done to be prepared by M/s....., its Architects.

AND WHEREAS the said Drawings numbered \_\_\_\_\_ to \_\_\_\_\_ inclusive, 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 herein 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 Specifications and included in the Schedule of Quantities at the respective rates therein set forth amounting to the sum as therein arrived at or such other sum as shall become payable there under (hereinafter referred to as "the said Contract Amount.")

NOW IT IS HEREBY AGREED AS FOLLOWS:

- 1) In consideration of the said Contract Amount to be paid at the times and in the manner set forth in the said Conditions, the Contractor shall upon and subject to the said Conditions execute and complete the work shown upon the said Drawings and described in the said Specifications and the priced Schedule of Quantities.
- 2) The Employer shall pay to 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 "the Architects" in the said Conditions shall mean the said M/s. ...., or in the event of their ceasing to be the Architects for the purpose of this Contract for whatever reason, such other person or persons as shall be nominated for that purpose by the Employer, not being a

Signature of Contractor with Seal

person to whom the Contractor shall object for reasons considered to be sufficient by the Employer, PROVIDED ALWAYS that no person or persons subsequently appointed to be Architects under this Contract shall be entitled to disregard or overrule any previous decisions or approval or direction given or expressed in writing by the outgoing Architects for the time being.

- 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 Plans, Agreements and Documents mentioned herein shall form the basis of this Contract.
- 6) This Contract is neither a fixed lump-sum contract nor a piece work contract but a contract to carry out the work in respect of the entire building complex to be paid for according to actual measured quantities at the rates contained in the Schedule of Quantities and Rates or as provided in the said Conditions.
- 7) The Contractor shall afford every reasonable facility for the carrying out of all works relating to civil works, installation of lifts, Telephone, electrical installations, fittings 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 his work.
- 8) 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.
- 9) 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 7<sup>th</sup> 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 **90 days**.  
.....  
..... Subject to nevertheless the provisions for extension of time.
- 10) All payments by the Employer under this Contract will be made only at Mumbai.
- 11) All disputes arising out of or in any way connected with this Agreement shall be deemed to have arisen at Mumbai and only the Courts in Mumbai shall have jurisdiction to determine the same.

Signature of Contractor with Seal



12) That the several parts of this Contract have been read by the Contractor and fully understood by the Contractor.

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.

SIGNATURE CLAUSE

SIGNED AND DELIVERED by the

\_\_\_\_\_ By the  
(Employer)

hand of Shri \_\_\_\_\_

\_\_\_\_\_  
(Name and Designation)

(Signature of Employer)

In the presence of :

1) Shri / Smt. \_\_\_\_\_

(Signature of Witness)

Address \_\_\_\_\_

\_\_\_\_\_  
(Witness)

SIGNED AND DELIVERED by the

\_\_\_\_\_ by the  
(Contractor)

(Signature of Contractors)

in the presence of :

Shri / Smt. \_\_\_\_\_

(Signature of Witness)

Address \_\_\_\_\_

\_\_\_\_\_  
(Witness)

Signature of Contractor with Seal

**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 when 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 runnings 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 the trench half or 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 meter.
7. No floor, roof or other part of the structure shall be so overloaded with debris or material as to render it unsafe.
8. Workers employed on mixing and handling material such as asphalt, cement, mortar, concrete and lime shall be provided with protective footwear and rubber hand gloves.
9. Those engaged in welding works shall be provided with welders' protective eye shield and gloves.
10. (i) No paint containing lead or lead products shall be used except in the form of paste readymade paint.  
(ii) Suitable facemasks should be supplied for use by the workers when the paint 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 cessation of work.
12. Hoisting machines and tackle used in the works including their attachments anchor and supports shall be in perfect condition.
13. The ropes used in hoisting or lowering material or as a means of suspension shall be durable quality and adequate strength and free from defects.

Signature of Contractor with Seal

## APPENDIX HEREINBEFORE REFERRED TO

SN	Particulars	Details
1	Name of the Client Offering Contract	The Assistant General Manager, Premises Department Zonal Office, 386/2, Sharada Chambers, 3 <sup>rd</sup> Floor, Shankarsheth Road, Pune-400 037.
2	Project Architect / Consultants	M/S METAPHORS. 401/2/3, PRIDE KUMAR SENATE, OFF. SENAPATI BAPAT ROAD, GOKHALE NAGAR, PUNE - 411016 CONTACT NUMBER: 8407988662 / 9665355522 E-MAIL: PAURAVI.MAHAJAN@METAPHORS-DESIGN.COM
3	Site Address	Clock Tower, Kharadi, Pune
4	Scope of Work	Tender for Composite Interior Works consisting of Interior Furnishing Works, Electrical Works, Telecom & Data Cabling Works, CCTV Works and Fire Hydrant & Sprinkler System at GF, Stilt, 4 <sup>th</sup> to 15 <sup>th</sup> floors of the proposed LHO Building, Kharadi - Pune
5	Name of the Contractor	
6	Address of the Contractor	
7	Period of Completion	90 days
8	Earnest Money Deposit	Rs. 41,00,000/- (Rupees Forty-One Lakh Only)
9	Retention Money	As per clause no. 1 (c) of general Conditions
10	Defects Liability Period	Twelve Months from the date of Virtual Completion
11	Insurance to be undertaken by the Contractor at his cost	125% of Contract Value (Contractor's all risk policy)

Signature of Contractor with Seal

12	Liquidated damages	0.5% of the estimated amount shown in the tender per week max. 5% of the contract value.
13	Value of Interim Bill (Min.)	Not less than Rs. 5.00 Cr (Rupees Five Crore)
14	Date of Commencement	14 days from the date of Acceptance. Letter is issued to the Contractor/ or the day on which the Contractor is Instructed to take possession of the Site whichever is earlier.
15	Period of Final Measurement	1 (One) Month from the date of Virtual Completion.
16	Initial Security Deposit	2% of the Accepted Value of the Tender. (Clause No. 1-B)
17	Total Security Deposit	As per clause No. 1
18	Refund of initial Security Deposit Comprising of EMD and ISD.	50% of the Security Deposit shall be refunded to the Contractor on completion of the work and balance refunded only after the Defect Liability Period is over.
19	Period for Honouring Certificate	<ul style="list-style-type: none"> <li>• One Month for R.A. Bills</li> <li>• The final bill will be submitted by the Contractor within one month of the date fixed for completion work and the Bill shall be Certified within three months from the date of receipt of final bill provided the bills are submitted with all pre-requisite documents/test reports etc. prescribed in the tender.</li> </ul>

Signature of Tenderer.

Date:

Signature of Contractor with Seal

TABLE-I

**PROFORMA FOR REGISTER OF MATERIAL AT SITE ACCOUNT**

Name of Work :	Name of Article :
Name of Contractor :	Estimated Requirement :
Agreement No. :	Issue Rate :

Date of Receipt	Received from/Issued to (with Ret. to So/Indent)	Receipt	Issue	Balance	Initials of Contractor	Initial of Bank's/ Architect's representative	Remark
1	2	3	4	5	6	7	8

Signature of Contractor with Seal

**PROFORMA FOR REGISTER OF MATERIAL AT SITE ACCOUNT**

Name of Work :

Name of Contractor :

Agreement No. :

Description of Material	Qty outstanding from previous Bill	Deduct Qty utilised in works measured since previous bill	Qty outstanding & Qty. brought to site since previous bill	Signature of Site Engineer	Signature of Contractor	Initial of Bank's/ Architect's representative	Remark
1	2	3	4	5	6	7	8

Signature of Contractor with Seal

**PROFORMA FOR HINDRANCE TO WORK**

Name of Work : Date of Start of work :  
 Name of Contractor : Period of Completion :  
 Agreement No. : Dt. of Completion of work :

S.No.	Nature of Hindrance	Date of Occurrence of Hindrance	Date of which Hindrance was removed	Period of which Hindrance existed	Signature of Site Engineer	Signature of Bank / Architects Representative
1	2	3	4	5	6	7

Signature of Contractor with Seal

**PROFORMA FOR RUNNING A/C BILL**

i. Name of Contractor / Agency :

ii. Name of Work :

iii. Sl. No. of this Bill :

iv. No. &amp; Date of previous Bill :

v. Reference to Agreement No. :

vi. Date of Written order to commence :

vii. Date of Completion as per Agreement :

S.No.	Item Description	Unit	Rate (Rs.)	As per Tender	
				Quantity	Amount (Rs.)
1	2	3	4	5	

Upto Previous R.A. Bill		Up Date (Gross)		Present Bill		Remarks
Quantity	Amount (Rs.)	Quantity	Amount (Rs.)	Quantity	Amount (Rs.)	
6		7		8		9

Signature of Contractor with Seal



1. If part rate is allowed for any items, it should be indicated with reasons for allowing such a rate.
2. If ad-hoc payment is made, it should be mentioned specifically.

\_\_\_\_\_  
\_\_\_\_\_  
Net Value since  
previous bill

### CERTIFICATE

The measurements on the basis of which the above entries for the Running Bill No. \_\_\_\_\_ were made have been taken jointly on \_\_\_\_\_ and are recorded at pages \_\_\_\_\_ to \_\_\_\_\_ of measurement book No. \_\_\_\_\_.

\_\_\_\_\_  
Signature and  
date of Contractor

\_\_\_\_\_  
Signature and  
date of Architects  
Representative  
(Seal)

\_\_\_\_\_  
Signature and  
date of Site  
Engineer

The work recorded in the above-mentioned measurements has been done at the site satisfactorily as per tender drawings, conditions and specifications.

\_\_\_\_\_  
Architect

\_\_\_\_\_  
Signature and  
date of Site  
Engineer

Signature of Contractor with Seal

TABLE - V

**ACCOUNT OF SECURED ADVANCE, IF ADMISSIBLE ON MATERIALS HELD AT SITE BY THE CONTRACTOR**

S.No.	Item	Quantity	Unit	Amount	Remarks
1	2	3	4	5	6

Total value of materials at Site.

Secured Advance @ ----- of above value - B

CERTIFIED:

- (i) That the materials mentioned above have actually been brought by the Contractor to the site of the work and on advance on any quantity of any of this item is outstanding on their security.
- (ii) That the materials (are of imperishable nature) and are all required by the Contractor for use in the work in connection with the items for which rates of finished work have been agreed upon.

Dated Signature of  
 Site Engineer  
 Preparing the bill  
 Rank -----

Date signature of  
 Banks Architects-----  
 (Name of the Architects)

-----  
 Dated Signature of  
 the Contractor

Signature of Contractor with Seal

**MEMORANDUM FOR PAYMENT**

R/A BILL NO.

1.	Total value of work done since previous bill (A)			Rs. ----- -----
2.	Total amount of secured advance due since Previous Bill (B)			Rs. ----- -----
3.	Total amount due since Previous Bill (C) (A+B)			Rs. ----- -----
4.	PVA on account of declaration in price of Steel, Cement and other materials and labour as detailed in separate statements enclosed.			Rs. ----- -----
5.	Total amount due to the Contractor			Rs. ----- -----
	<b>OBJECTIONS:</b>			
i)	Secured Advance paid in the previous R/A		Rs. ----- -----	
ii)	Retention money on value of works as per accepted tenders upto date amount Rs.		Rs. ----- -----	
	Less already recovered		Rs. ----- -----	
	Balance to be recovered		Rs. ----- -----	
iii)	Mobilization Advance, if any			
(a)	Outstanding amount (principal + interest) as on date		Rs. ----- -----	

Signature of Contractor with Seal

(b)	To be recovered in this bill		Rs. ----- -----	
iii.	Any other Departmental materials cost to be recovered as per contract, if any		Rs. ----- -----	
iv.	Any other Departmental service charges to be recovered if any, as per contract (water, power etc.) enclose statement.		Rs. ----- -----	
	Total Deduction as per contract (F)			Rs. ----- -----
	Adjustments, if any ----- - Amount less received by Contractor in ----- R/A Bill (as per statement of Contractor)		Rs. ----- -----	
	P.V.A.		Rs. ----- -----	
	Total amount payable as per contract (E+F+G)			Rs. ----- -----
	(Rupees ----- in words)			

The bill amount to Rs. ----- (both figures and words) has been scrutinized by us after due checking of the measurements of work as required and is recommended for payment.

Date: -----

-----  
Signature of Architect  
with Seal

The bill amount to Rs. ----- certified by Consultants has been scrutinized by me after due test checking of measurements of works as required and is recommended for payment for an amount of Rs. ....

Signature of Contractor with Seal

Date : -----

Signature of Owners  
Engineer

**STATUTORY DEDUCTION:**

i)	Total Amount due (E)	Rs. ----- -----
ii)	Less I.T. Payable	Rs. ----- -----
iii)	Less S.T. Payable	Rs. ----- -----
	Net Payable	Rs. ----- -----

This figures given in the Memorandum for payable has been verified and bill passed for payment ----- (in words and figures)

Date: -----

-----  
Signature of the AGM  
(Premises)

Signature of Contractor with Seal

**SECTION – A: MATERIALS**

- 1) Material shall be of best approved quality obtaining and they shall comply with the respective Indian Standard Specification.
- 2) Samples of all materials shall be got approved before placing 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 prior approval of the Architects for which neither extra will be paid nor shall any rebates be recovered.
- 4) If directed, materials shall be tested in any approved Testing Laboratory and the test certificates in original shall be testing including charges for repeated tests, if ordered, shall be borne by the Contractor.
- 5) It shall be obligatory for the Contractor to furnish certificate, if deemed by the Architects, from manufacturer or the material supplier that the work has been carried out by using their material and as per their recommendations.
- 6) All materials supplied by the Employer / any other Specialist Firms 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 the work.
- 7) Unless otherwise shown on the Drawings or mentioned in the “Schedule of Quantities” or special specification, the quality of materials, workmanship, dimensions, etc., shall be as specified as hereunder.
- 8) All equipment and facilities for carrying out field tests on materials shall be provided by the Contractor without any extra cost.

a) **Timber :**

Timber shall be well seasoned and of the best quality Indian Teak of specified species viz., Dandeli, Balarshah, Melabar, C.P.

Timber shall be considered as well seasoned, if its moistures content does not exceed the following limits.

a) Timber for frames 14%

b) Timber for planking, shutters, etc. 12%

The moisture content of timber shall be determined according to method described in paragraphs 4 of IS:287 for Maximum permissible moisture content of timber used for different purpose in different climatic zones.

In measuring cross-sectional dimensions of the frame pieces tolerance upto 1.5 mm. shall be allowed for each planed surface.

Signature of Contractor with Seal

b) **Superior quality Indian Teak Wood :**

Superior quality Indian Teakwood means Dandeli, Balarshah, and Malabar Teak. It shall be 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, borer holes, sap-wood or defects of any kind. No individual hard and should knot shall be more than 1 cm. in diameter and aggregate areas of all knots shall not exceed ½% of area of the piece. There shall not be less than 6 growth rings per 2.5 cm. width.

c) **Ist Class Indian Teakwood :**

1<sup>st</sup> Class Indian Teakwood means C.P. 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 should knot shall be more than 2.5 cm. in diameter and aggregate areas of all the knots exceed 1% areas of the piece. There shall not be less than 5 growth tings per 2.5 cm. width.

d) **IInd Class Indian Teakwood:**

Shall be similar to first class Indian teak wood except that knot upto 4 cm. diameter and aggregate area of all knots upto 1 ½% of the area of the piece shall be allowed. There shall not be sapwood upto 15% is allowed.

e) **Flush Doors:**

All flush doors shall be solid core exterior grade unless otherwise specified and it shall generally confirm to IS:2202 and shall be fabricated as described under specification.

f) **Steel Windows and Doors:**

Steel windows and doors shall be fabricated 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 specification.

g) **Floor Tiles :**

Designer pre-cast concrete tiles and interlocking paver block, plain cement tiles, chequered tiles, mosaic tiles terrazzo tile 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 chip distribution. The sizes 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.

h) **Ceramic / Vitrified Tiles :**

White or coloured glazed tiles shall comply with IS:777 or relevant or latest I.S. code. It shall be from an approved manufacturer and shall be flat and true to shape. They shall be free cracks, crazing, spots, chipped edges and corners. The glazing and colour shall be uniform shade and unless otherwise specified the tiles shall be 6 mm. thick.

i) **Marbles:**

Marble slabs for flooring, dado veneering etc., shall be of 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 slabs are made shall be selected quality, hard, sound dense and homogenous in texture and free from cracks, weathering, decay 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 and machine polished.

j) **Kotah / Shahbad / Cudappa / Granite :**

Shall be of selected quality, hard, sound, dense, and of homogenous texture, free from cracks decay, weathering and flaws. Stone slabs shall be of uniform colour as approved by the Architect. They shall be machine cut and machine polished where specified and shall conform to the required size. Thickness shall be specified in the respective items.

k) **Glazing:**

Glass used for glazing shall be float glass of best quality, free from flaws, specks bubbles and shall be 2.9 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.

The following type of glasses shall be used:-

- |                          |  |
|--------------------------|--|
| 1) For OfficeBuilding .. | Clear glass or as specified in the Schedule of Quantities. |
| 2) Office (toilets)      | .. Clear or frosted  |

Signature of Contractor with Seal



3) Partitions .. Frosted

l) **Asbestos Roofing & rain Water Pipes:**

All Asbestos pipes and fittings shall comply with IS:459 and shall be free from cracks, chipped edges of corners and other damages.

m) **MPI. Sheets:**

MPI. Sheets shall be of a gauge specified in the description of the item and shall conform to the IS:277. The sheets shall be free from cracks, spilt edges, twists, surface flaws, etc. They shall be clean bright and smooth. Galvanising shall be uninjured and the perfect condition. The sheet shall show no sign of rust or white powdery deposits on the surface. The corrugations shall be uniform in depth and pitch and parallel.

n) **Paints:**

Lime for lime wash, dry distemper, oil bound distemper cement primer, oil paint, enamel paint, flat oil paint, plastic emulsion paint, anti-corrosive primer, red lead, water-proof cement paint and exterior grade Acrylic Emulsion paint, cement paint, sand-tex matt shall be from an approved manufacturer and shall conform to the latest Indian Standard 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.

o) **Wood Work:**

All work shall be measured net as fixed. No extra measurement will be given for shape, joints, splayed meeting styles of doors and windows and shall be measured in unit of square meters.

Area over the face inclusive of exposed frame thickness (excluding width of cover mould) shall be measured in case of door, windows and ventilators when frames are included in the item. Portions embedded in masonry or flooring shall not be measured. Where frames are measured separately mode of measurement shall be as per C.P.W.D. practice or IS:1200.

p) **Steel doors, windows, ventilators, louvers:**

Clear area over one face inclusive of exposed frame shall be measured. Holdfasts or portions embedded in masonry or flooring shall be measured.

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q) **Steel rolling shutters and rolling grilles:**

Clear width between side jambs and clear height between floor and bottom of lintel / beam shall be measured. Hood shall not be measured separately. The rate should be inclusive of the cost of hood.

r) **Flooring, Skirting, Dado:**

Flooring shall be measured from skirting to skirting and where the wall surface are plastered or provided with Dado, it shall be measured from plaster to plaster or dado to dado.

s) **Plastering and Pointing:**

All plastering and pointing shall be measured in square meters unless otherwise described.

Net are of surface plastered shall be measured. No deductions will be made for ends of joints, beams, posts, etc., and opening not exceeding 0.5 sq.m. each and no additions shall be made neither for reveals, jambs, soffits, sills, etc. of these openings nor for finishing the plaster around openings, ends, of joists, beam and posts, etc.

Full deductions will be made for door, window and ventilator from each side with adding jambs for door, window and ventilator.

t) **Painting, White washing, colour washing and distempering:**

All painting work shall be measured in square meters.

Net are of surface painted shall be measured. No deductions will be made for unpainted surfaces of ends of joists, beams, posts etc., and opening not exceeding 0.5 sq.m. each and no additions shall be made for reveals, jambs, soffits, sills, etc., of these openings.

Full deductions will be made for door, window and ventilator from each side with adding jambs for door, window and ventilator.

No coefficient will be considered for painting over sponge finished or sand faced plaster.

The following multiplying factors for obtaining equivalent areas shall be adopted.

SN	Description of works	How measured	Multiplying Factor
a)	Wood panelled framed ledged, braces and battened.	Measured flat (not girthed) including frame, edges, choukats, cleats, etc., shall be deemed to be included in the item.	1 1/8 (for each side).
b)	Wood flush part panelled and part.	-- do -- glazed or gauzed.	1 (for each side).
c)	Fully glazed or gauzed or glazed louvered ventilators / window / door.	-- do --	1/4 (for each side).
d)	Fully venetioned of louvered (not with glazing).	-- do --	1 1/2 (for each side).
e)	Weather boarding.	Measured flat (not grithed supporting frame work shall not be measured separately).	1 1/8 (for each side).
f)	Trellis (or Jaffri) work one way or two ways.	Measured flat overall, no deduction shall be made for opening (supporting members shall not be measured separately)	1 (for each side).
g)	Guard bars, balustrades, gratings, grille railings, grille partitions, etc.	--- do ---	1 (for painting all over).
h)	M.S. gates & open palisades fencing, door including standards, braces, rails, stays, etc.	See not below	1 (for painting over all).
i)	Steel rolling / alligator type shutters.	Measured flat over jambs, guides, bottoms, rails and locking arrangement etc. shall be deemed to be included in the item.	1 1/4 (for each side).
j)	Carved or enriched work.	Measured flat.	2 (for each side).
k)	Fully glazed or gauzed steel windows or partitions.	Measured flat.	1 1/4 (for all over).

**Note:**

The height shall be taken from the bottom of the lowest rail, if the palisades do not go below it (or from the lower end of the palisades, if they project below the lowest rail) upto the top of the palisades, but not upto the top of the standards, if they are higher than the palisades. Similarly for the gates, depth of roller shall not be considered while measuring the height.

Area painted over sand cement plaster, sponge finished / sand faced plaster / rough cast plaster area painted without considering any coefficient for painting over sand faced plaster

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## **PAINTING**

### **General:**

Wherever scaffolding is necessary, it shall be double scaffolding.

The surface shall be thoroughly brushed free from mortar droppings and foreign matter. All steel work shall be cleaned of loose rust, mill scales etc. so as to expose the original surface. All broken edges, cracks, loose plaster and wavy surface shall be brought up either by patch plaster work or by plaster of paris.

All materials viz., dry distemper, oil bound distemper, oil paint, flat oil paint, synthetic enamel paint, plastic emulsion paint, cement primer, red lead and other primers and metallic paints shall conform to respective I.S. specifications and shall be obtained from approved manufactures. All paints shall be brought on site in sealed thins in ready mixed form and shall be applied direct with the addition of thinner, if recommended by the manufacturers.

### **White Washing:**

White was shall be prepared from lime slaked on spot, mixed and stirred with sufficient water to make a thin cream. This shall be allowed to stand for 24 hours and shall be screened through clean cloth. Four kg. gum dissolved in hot water shall be added to each cubic meter of the cream (115 gm. per cft.).

Blue shall be added to give required whiteness. The approximate quantity of water to be added in making cream shall be five liters per kg. of lime.

White wash shall be applied in specified coats by using flat brushes or spray pumps. Each coat shall be allowed to dry before next coat is applied. If additional coats than what have been specified, are necessary to obtain uniform and smooth finish, it shall be given at no extra cost.

The finished dry surface shall not show any signs of cracking and peeling nor shall it come off readily on the hand when rubbed.

If directed by the Architects one coat of chalk and glue shall be applied before application of white / colour wash at no extra cost.

### **Colour Wash:**

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Colour wash shall be prepared by adding mineral colours not affected by lime to white wash. No colour wash shall be done until a sample of the colour wash to the required tint or shade has been got approved from the Architects.

Colour wash shall be applied as specified under white wash.

**Dry Distemper:**

Shade shall be got approved from the Architects before application of distemper.

The surface shall be prepared as specified earlier. A primer coat using approved primer or sizing shall be applied. Distemper prepared as per manufacturer's directions shall be applied and each coat shall be allowed to dry before subsequent coat is applied. The finished surface shall be free from chalking when rubbed, even uniform and shall show not brush marks. If additional coats are necessary, they shall be given at no extra cost.

**Oil Bound Distemper:**

The surface shall be prepared as specified above. A primer coat of either cement primer or any approved distemper primer shall be applied.

After the primer coat has dried, the surface shall be lightly sand papered and dusted to make to smooth to receive distemper.

Distemper shall be prepared as per the directions of the manufacturer and conforming to shade approved. It shall be applied in specified coats, taking care to allow for drying of each coat before subsequent coats are applied.

**Water-proof Cement Paint / Sand-tex matt Paint:**

The surface shall be prepared as specified above and thoroughly wetted with clean water before water-proof cement paint is applied.

The paint shall be prepared strictly as per manufacturers specifications and in such quantities as can be used up in an hour of its mixing, as otherwise the mixture will set and thicken, affecting flow and finish.

The paint thus prepared shall be applied on clean and wetted surface with brush or spraying machine. The solution shall be kept stirred during the period of application. It shall be applied on the surface which is on the shady side of the building so that the direct heat of the sun on the surface is avoided. The completed surface shall be watered after the days work. Number of coats shall be s specified in the item.

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**Painting – Oil / Enamel / Plastic Emulsion etc.:**

Ready mixed oil paint, flat oil paint, plastic emulsion paint, ready mixed synthetic enamel paint, etc., shall be brought in original containers and in sealed tins. If for any reason thinner is necessary, the brand and quantity of thinner recommended by the manufacturer or as instructed by the Architect shall be used. The surface shall be prepared as specified above and a coat of approved primer shall be applied. After 24 hours drying approved or specified quality paint shall be applied evenly and smoothly. A filler putty coating may be given to give a smooth finish. Each coat shall be allowed to dry out thoroughly and then lightly rubbed down with sand paper and cleaned of dust before the next coat is applied. Number of coats shall be as specified in the item and if the finish of the surface is not uniform, additional coats as required shall be applied to get good and uniform finish at no extra cost. After completion no hair marks from the brush or clogging of paint puddles in the corners of panels, angles or mouldings etc., shall be left on the work. The glass panes, floor etc. shall be cleaned of stains.

When the final coat is applied, if directed, the surface shall be rolled with a roller or if directed, it shall be stippled with a stippling brush.

**u) ALUMINIUM**

All aluminium exposed surfaces shall have satin finish, free from die markings, scratches, welding discolourations, "leave-off-marks" or other surface blemishes. Unless otherwise specified, aluminium shall be given an anodic oxide treatment. It shall have a finish equal to IS 11857-1986 Anodised Coating Aluminium for External Architectural Application. A coating of methacrylate lacquer shall be applied to all aluminium before shipment from the factory.

All exposed stainless-steel surfaces shall be polished finish, free from die markings, welding discolorations or other surface blemishes. Relevant codes for finishes above areas follows:

IS 1868 - 1992	Anodic coatings on aluminium and its alloys.
IS 9844 - 1981	Method of testing corrosion resistance of electroplated and anodised aluminium coatings by neutral salt spray test.
IS 11268 - 1985	Method for estimation of loss of absorptive power of anodic oxide coatings after sealing dye spot test with prior acid treatment for anodised aluminium and its alloys.
IS 7088 - 1973	Recommended practice for anodising of aluminium and its alloys.

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**v) PLYWOOD**

**Scope** – Requirements of different grades and types of plywood used for general purposes.

Grades

- a) Boiling water resistant or BWR grade, and
- b) Moisture resistant or MR grade.

Types based on classification by appearance.

Plywood for general purposes shall be classified into three types, namely, AA, AB and BB based on the quality of the two surfaces, namely, A and B in terms of general permissible defects.

Materials

**Timber** – Any species of timber may be used for plywood manufacture. However, a list of species, for the manufacture of plywood is given in Annex B of the standard for guidance.

**Adhesive** – See IS 848: 1974\*.

Extenders may be used with the synthetic resin adhesive (amino resins). However, synthetic resin adhesives (amino resins) when extended by more than 25 percent shall contain suitable preservative chemicals in sufficient concentration to satisfy the mycological test described in the standard.

**Quality** — See Tables.

**TABLE 1 QUALITY REQUIREMENTS OF PLYWOOD FOR GENERAL PURPOSES.**

Sr. No	Defect Categories	Types of Surfaces	
i)	Blister	Nil	Nil
ii)	Checks	Individual check not more than 50 mm in length	Individual check not more than 100 mm in length and the total
<p>* Synthetic resin adhesives for plywood(phenolic and amino plastic) (first revision).            * Extruders for use in synthetic resin adhesive (Urea formaldehyde) for plywood (first revision).</p>			

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iii)	Discoloration	Nil	5 percent
iv)	Dot	5cm/m <sup>2</sup>	15cm/m <sup>2</sup>
v)	Insect hole	Scattered up to 12 holes/ m <sup>2</sup>	Scattered up to 24 holes/m <sup>2</sup>
vi)	Joints	One joint for every multiple of 200 mm provided no individual piece is less than 100 mm in width.	No Restriction
vii)	Knots (dead)	2 up to 12 mm dia/m <sup>2</sup>	4 up to 20 mm dia/m <sup>2</sup>
viii)	Pin knots	6 2/m <sup>2</sup>	6/m <sup>2</sup>
ix)	Pin Knots	No restriction	No Restriction
x)	Knots	6 up to 25 mm dia/m <sup>2</sup>	No Restriction (tight)
xi)	Patches	4 patches/m <sup>2</sup> they are all tight patches all tight patches	Any number provided they are all tight patches and do not mar appearance
xii)	Swirl	Unlimited they are do not mar appearance	No Restriction

**TABLE 2 PERMISSIBLE CATEGORIES OF DEFECTS**

Type of Surface	Maximum Number of Categories of Permissible Defects per sq metre
A	3
B	5

**1. Dimensions and Tolerances—****1.1** The dimension of plyboards shall be as follows

2400 mm ×	1200 mm
2100 mm ×	1200 mm
1800 mm ×	1200 mm
2100 mm ×	900 mm
1800 mm ×	1200 mm

**Note** – Any other dimension as agreed to between the manufacture and the purchaser may also be used.

**1.2** Thickness — See Table 3.**TABLE 3 THICKNESS OF PLYWOOD BOARDS**

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BOARD	THICKNESS (MM)
3 ply	3,4,5,6,
5 ply	5, 6, 8, 9
7ply	9,12,15,16,
9 ply	12, 15, 16, 16
11 ply	19, 22, 25
Above 11 ply	As ordered

The thickness shall be measured up to one place of decimal.

### 1.3 Tolerances

- | Dimensions           | Tolerance       |
|----------------------|-----------------|
| a) Length            | : + 6 mm        |
| b) Width             | : + 3 mm – 0 mm |
| c) Thickness         |                 |
| (1) Less than 6 mm   | : ± 10%         |
| (2) 6 mm and above   | : ± 5%          |
| d) Squareness:       | 0.2%            |
| e) Edge straightness | :0.2%           |

## 2. Tests

2.1 Glue adhesion — Shall have an average and minimum shear strength not less than the values specified in Table 4, against each grade.

**TABLE 4 AVERAGE AND MINIMUM INDIVIDUAL SHEAR STRENGTH OF PLYWOOD**

Grade	Shear strength, Min(N)		
	Dry state Mycological Water Resistance		
i) BWR			
Minimum average	1350	1000	1000
Individual	1100	800	800
ii) MR			
Minimum average	1000	800	800
Individual	800	650	650

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**2.2** Moisture Content —Not less than 5 percent and not more than 15 percent.

**Note—** For method of tests refer to the standard and various parts of IS 1734.  
Method of test for plywood

**w) VENEER**

**1. Scope** – Covers types of plywood with ornamental veneers on one or both faces used for decorative purposes, such as furniture making, panelling of all kinds, including panelling for railway coaches, buses and ships.

**2. Grades and Types .**

**2.1** Determine decorative plywood shall be of two grades, namely BWR and MR

**2.2** Decorative plywood shall be of two types, namely Type 1 and Type 2

**3. Materials** – The species of timber commonly used for decorative veneers or decorative plywood shall be specified by the purchaser. Commonly used species are given in Annex. B of the standard.

Any species of timber may be used for cores and backs of decorative veneered plywood. However, a list of species, given in Annex B of IS 303 : 1989\* may be used for guidance

The adhesive for bonding of veneers shall be MR and BWR type synthetic resin adhesive, conforming to IS 848: 1974.+ for MR and BWR grade veneered decorative plywood respectively. Plywood, when used in the manufacture of veneered decorative plywood of MR and BWR grade shall be MR and BWR type conforming to IS 303 : 1989.\*

**4. Requirements**

**4.1** Type 1—Open splits, checks or open joints not more than 150 mm in length and 0.5 mm in width shall be permissible provided the same are rectified with a veneer insert bonded with synthetic resin adhesive.

Shall be free from torn grain, dead knots, knots, discoloration and sapwood. The decorative veneered

\* Plywood for general purpose (first revision)

+ Synthetic resin adhesive for plywood (phenolic and aminoplastic) (first revision)  
surface shall be selected for figure, texture, colour and grain characteristics. It shall be free from all manufacturing and wood defects except to the extent permitted above.

**4.2** Type 2 — Open splits, checks, or open joints not more than 200 mm in length and 1 mm in width shall be permissible, provided these are

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rectified in the manner specified under **4.1**. Tight knots and patches not more than 25 mm in diameter, and pin knots not more than 4 mm in diameter, shall be permissible.

**4.2.1** Shall be free from the torn grain, dead knots, dot and discolouration. Sapwood, if it does not affect the appearance, shall be permissible.

**4.2.2** Surface shall be selected for figure, texture, colour and grain characteristics. It shall be free from all manufacturing and wood defects, except to the extent permitted above.

## **5. Designation of Dimensions and Tolerances**

**5.1** The dimensions and tolerances (including on thickness ) of plywood shall be as given in IS 12049 : 1987 <sup>++</sup>.

**Note** – Any other dimension as agreed to between the manufacture and for chaser may be used

**5.2** Thickness — Thickness of the plywood boards shall be 3 mm, 4 mm, 6 mm, 9 mm, 12 mm, 19 mm or 25 mm.

## **6. Tests**

a) Moisture content — Not less than 5 percent and more than 15 percent.

b) Water resistance test—Shall not show delamination or blister formation when tested as per the standard.

**7. Finish** —The edges of the decorative plywood shall be trimmed square within 3 mm and sanded to a smooth finish.

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<sup>++</sup>Dimensions and tolerances relating to wood based panel materials.

**Note**—For method of tests, refer to the standard and IS 1734 (Part 1) : 1983 Method of tests for plywood, Part 1 determination of density and moisture (second revision).

For detailed Information, refer to IS 1328 : 1996 Specification for veneered decorative plywood (third revision).

## **x) LAMINATE**

**1. Scope** – Requirements and the methods of sampling and test for decorative laminated sheets (HPL) classified according to their performance and main

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recommended fields of application and provides also for materials of special characteristics, for example, post formability or defined reaction to fire. They are intended for interior applications.

**2. Classification** – Consists of a materials type with three index numbers describing levels of performance. An alphabetical classification system can also be used as an alternative. Table 1 compares the two systems and typical application.

**2.1** Index numbers for specifying HPL properties –

- a) Index for – resistance to surface wear (First Index Number)
- b) Index for – resistance to impact by small diameter ball (Second Index Number)
- c) Index for resistance to scratching (Third Index Number)

**Note** — For details refer Table 2, 3 and 4 of the standards

**2.2** Special Characteristics – Material type

Type S—Standard type decorative laminated sheet Type P—Post formable Decorative laminated sheet Type F—Decorative laminated sheets having defined reaction to fire.

**2.3** Nomenclature – In addition to the prefix HPL and the number of this standard, materials can be specified either by the type and index number system or by the alphabetical classification system.

For Example, horizontal general purpose post forming laminate can be specified as, HPL - IS 2046-P333 or HPL - IS 2046-HGP.

### **3. Requirements**

Colour and Pattern – When inspected in daylight (or D 65 standard illuminant and again under a tungsten illuminant) there shall be no significant difference between a standard agreed by the supplier and the specimen under test

#### **3.1** Surface Finish

3.1.1 When inspected at a different viewing angles, there shall be no significant difference between a standard agreed by the supplier and the specimen under test.

3.1.2 Reverse side/bonding – The reverse side of sheets having only one decorative surface shall be suitable for adhesive bonding if so required.

**3.2** Thickness – No requirements specified , however, variations from the nominal thickness supplies shall at no point exceed the limits

shown in Table 2.

**TABLE 2 PERMITTED VARIATIONS OF THICKNESS**

All dimensions in millimeters.

SI No.	Nominal Thickness, t	Maximum Variation
i) 0.5 <math>t < 1.0</math>		$\pm 0.10$
ii) 1.0 <math>t < 2.0</math>		$\pm 0.15$
iii) 2.0 <math>t < 2.5</math>		$\pm 0.18$
iv) 2.5 <math>t < 3.0</math>		$\pm 0.20$
v) 3.0 <math>t < 4.0</math>		$\pm 0.25$
vi) 4.0 <math>t < 5.0</math>		$\pm 0.30$
vii) 5.0 <math>t < 5.0</math>		As agreed

**3.3 Appearance** – The following inspection requirements are intended as a general guide, indicating the minimum acceptable quality to laminate supplies as full size sheets:

- i) Surface defects
- ii) Edge defects
- iii) Broken corners
- iv) Sanding defects
- v) Warping (Flatness)
- vi) Length and width of a full size laminate
- vii) Straightness of edges
- viii) Squareness of the laminate

**3.4 Other Properties** – Shall satisfy the requirements given below –

- i) Resistance to surface wear
  - ii) Resistance to immersion in boiling water.
  - iii) Resistance to dry heat at 180°C.
  - iv) Dimensional stability at elevated temperatures
  - v) Dimensional stability at 20°C.
  - vi) Resistance to impact by small diameter ball.
  - vii) Resistance to impact by large diameter ball (self supporting compact laminates)
- Resistance to cracking (thin laminates)
- i) Resistance to scratching.
  - ii) Resistance to staining.
  - iii) Resistance to colour change in xenon arc light.

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- iv) Resistance to cigarette burns
- v) Formability
- vi) Resistance to blistering
- vii) Resistance to steam.
- viii) Resistance to crazing (thick laminates)
- ix) Resistance to moisture (Double faced compact laminates)
- x) Flexural modulus
- xi) Flexural strength
- xii) Tensile strength

**y) GYPSUM BOARD**

Requirements for gypsum plaster board intended to be used as a vertical or horizontal lining in building. It includes boards manufactured to receive either direct surface decoration or gypsum plaster finishes.

**1. Types**— Gypsum plaster boards are classified according to their use—

- a) Gypsum wallboards
- b) Gypsum Board with reduced water Absorption Rate,
- c) Gypsum wallboard with improved core Cohesion at high temperatures
- d) Gypsum plaster baseboard, and
- e) Gypsum plaster baseboard with improved core cohesion at high temperatures

**2. Material** — Gypsum plaster shall conform to IS 2547 (Part 1) : 1976\*. By product gypsum conforming to IS 12679:1987+ shall be used for the preparation of

**3. General**— Gypsum plaster boards consist of a gypsum plaster core with or without fibre encased in and firmly bonded to strong durable paper liners to form rectangular boards. Core shall be dried across full width. The face and back papers shall be securely bonded to the core. The paper surfaces may vary according to the use of the particular type of board, and the core may contain additive to impart additional properties. The longitudinal edges are paper covered and profiled to suit the application.

The paper covered edges of gypsum wall boards are square, tapered, bevelled or rounded. The paper covered edges of gypsum baseboard are square or rounded. The ends of gypsum plaster board are square-cut.

## 4. Requirements

### 4.1 Dimensions — See Table

\*Gypsum plaster boards : Part 1 Plain gypsum plaster boards  
(second revision)

+ Specification for by product gypsum for use in plaster block and board.

**TABLE 1 DIMENSIONS OF GYPSUM PLASTER BOARDS**

Type of Board	Width	Length	Thickness
Wallboard	600, 900 and 1200	1800 to 3600 in steps of 100 mm	9.5, 12.5, 15, 19, 23 and 25
Baseboard	400 and 900	1200, 1500 and 1800	9.5 and 12.5

1.1 Tolerance — Shall be as given below—

Type	Tolerance in mm		
	Width	Length	Thickness
Gypsum Wallboard	0 0	0 0	± 0.6
Gypsum Baseboard	- 5	- 6	

**TABLE 2 BREAKING LOAD OF GYPSUM PLASTER BOARDS.**

Type of Board	Thickness	Breaking Transverse Direct.	Load, Longitudinal Direction	Min
Plaster Board	9.5	140		360
	12.5	180		500
	15	220		650
	19	250		750
	23	300		850
Base Board	25	380		1000
	9.5	125		180
	12	165		235

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**z) PAINT/POLISH**

All relevant Standards as specified elsewhere in this volume are applicable. Indian Standards to be followed are:

• IS 79	• IS 345	• IS 348
• IS 427	• IS 428	• IS 533
• IS 1477 (Part 1 & 2)	• IS 2338 (Part 2 & 2)	• IS 2395 (Part 1)
• IS 2932	• IS 2933	• IS 3140
• IS 3537	• IS 3631	• IS 4597
• IS 5410	• IS 6005	• IS 6278
• SP 27		

**MATERIALS****PAINTS:**

Paints used in the works shall conform to the respective IS and code of practices. These shall be the latest revised.

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

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.

Paints shall conform to the following points:

- a) Good spreading coverage
- b) Easy application
- c) Should form a thin uniform film on application.
- d) Surface should not crack when paint dries.
- e) Should be inert to weathering actions of atmosphere.
- f) Final surface should hard and durable.

Manufacture and shades of Paints used at work site shall be to the approval of Employer.

**VARNISHES:**

Varnishes shall conform to the respective latest revised IS. Varnishes shall create a Brightening appearance on wood, brilliancy to the painted surface and after protection against atmospheric action. Good varnishes should achieve the following:

- a) Render glossy/matt finish to the surface as specified.
- b) Have an uniform, pleasing appearance on rapid drying
- c) Its colour should not fade
- d) Must ensure, a final hard, durable and tough surface.

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**WORKMANSHIP:**

**CONCRETE, MASONRY AND PLASTERED SURFACES:**

Work shall be carried out as specified in IS 2395, Part I & II. Schedule of painting system to be as per IS. 2395 Part II.

**SURFACE PREPARATION:**

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.

**aa) GLASS**

**SHEET GLASS:**

Sheet glass shall be flat, transparent and clear when judged by the unaided eye. It may, However, possess a tint when viewed edge-wise.

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

Sheet glass shall not have defects greater than those given in IS 2835. Test shall be conducted as specified in IS 2835.

Classification of glass shall be as per IS 2835.

**PLATE GLASS:**

Plate glass is a flat glass formed by a rolling process, ground and polished on both sides, with a surface that is essentially plane and parallel.

**WIRE AND FIGURED GLASS:**

This shall conform to IS 5437. Glass shall not contain any stones and cracks or stones bigger than 2 MM diameter.

In case of tinted glass, colour patches shall not be permitted.

Wired glass shall be 6.4 +/- 0.4 MM thick in sheet form. Wire mesh shall be of steel wire 0.46 to 0.56 MM in diameter. The pattern of mesh shall be square or diamond with wires welded or hexagonal with wires twisted. Wire mesh shall be completely embedded at minimum 1 MM from the surface of glass. Wire mesh shall not contain more than 3 broken wires per square meter of the wire glass.

Wired and wired figured glass shall satisfy the fire proof test prescribed in IS 5437

**TOUGHENED OR LAMINATED SAFETY GLASS:**

This shall conform to IS 2553.

The toughened or laminated glass shall be made of sheet glass of selected quality as detailed in 2835. Glass may be transparent, translucent or coloured as specified.

Glass shall be free from cracks, blisters, stones and scratches, bubbles and other defects which can interfere with vision and service of glass.

It shall conform to uniformity test, fragmentation test, humidity test and fracture and adhesion test as given in IS 2553

**FROSTED OR OBSCURED GLASS: -**

Sheet glass is ground to achieve frosting and obscuring effect. Grinding is done uniformly. Glass is cleaned thoroughly to avoid any stain formation on the surface.

**bb) MARBLE**

The marble used shall be as approved by the EIC and shall be hard, sound, free from cracks, cavities, holes, patches of injurious veins, weathered portions, flaws, etc. fair representation, 4 nos of 300 x 300 mm sized marble pieces shall be submitted for approval. Material received shall conform to the said approval group of 4 marbles and no other type shall be accepted. Colour, grain, vein, etc. must conform to the approved sample only. Size and thickness shall be as specified. The marble may be ordered in various sizes to suit the pattern selected by the Architect/EIC. Required pattern matching of marble shall be carried out by the contractor while cutting the marble.

## **TECHNICAL SPECIFICATIONS FOR ELECTRICAL WORKS**

### **1.0 ELECTRICAL WORKS**

1.1 The Contractor shall carry out and complete the Electrical work as per standard specifications / as stipulated in this contract and relevant IS recommendations in coordination with other agencies like Interior, AC and civil contractors and to the satisfaction of the Bank / Architect. The Architect with approval of Bank issue further written instructions, detailed directions and explanations with respect to the specifications, quality or quantity of works or the addition or omission or substitution of any work.

### **1.2 METER BOARD:**

The Main DB/Meter Board shall be provided in the place free from leakages and in a covered location. The Meter Board shall be as per MSEDCL requirements and shall be fixed firmly on the wall. Any opening made in the wall for feeder cable entry should be sealed properly after installation to avoid entry of rodents and rain water. The meter Board shall be properly earthed as per the regulatory requirements.

### **1.3 LT PANEL INSTALLATION:**

Panel shall be covered properly to prevent dust, contamination & damage during transportation. In case of damages during transportation or unloading etc, the same shall be rectified and made to perfection before installation. No excuse for delay on account of the above will be accepted.

For floor mounted panel, the exact location of the panel and fixing holes to be marked on the concrete plinth for the installation. Install the panel in proper alignment and fix properly. Tighten all the connections as required. Access around the panel to be provided as per regulatory requirements for future maintenance. Ensure the services like AC drain lines or water pipe lines or sewage lines are away from the panel or the panel is properly protected against any accidental leakages.

Incoming and outgoing cables shall be marked/identified as per approved drawing. All components of the panel shall be verified against the approved panel drawing for correct rating & size. Ensure that all internal connections are proper and loose connections are tightened. All breakers (incoming/outgoing) shall be in "OFF" position and to be locked to prevent mishandling

Before commissioning. All earth terminals of the panel are firmly connected to the designated earth pits with suitable size of GI strips as required. Check whether the metering equipment and indication lamps are working as desired and rectify the defects, if any. After installation, the panel shall be properly cleaned and protected to prevent dust & contamination.

### **1.4 INSTALLATION OF DBs:**

All DBs wall mounting and floor mounted arrangement shall be in accordance with BOQ and the approved material. Ensure that painting of the wall is completed prior to marking and mounting of DB. Confirm label/markings to ensure that is the correct DB and check the

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position according to the approved layout and mark the fixing position of the DB's support. After marking, drill according to the selected sizes of anchor bolts to appropriate depth. Permanently fix the DB to the wall/slab with anchor bolts. If there is more than one DB to be installed at the same location, they shall be installed side by side and clearance shall be maintained for easy maintenance and trouble shooting. The height of Distribution Board shall be maintained so that easy access for termination of cables and other maintenance work can be carried out. Cut-out shall be made for inserting the wire in DB and same cut out shall be provided with a rubber gasket so that there will be no sharp edges and secure the wire insulation from damage.

Wire inserted in the DB shall be cross-checked for existing circuit number and final ferruling shall be done. Wire in DB shall be used cable tie and dress with bunching of the phase-neutral and earth and suitably lugged to the respective MCBs and Bus bar. Bunching shall be done as per phase separation respectively R, Y and B. After Crimping insulation sleeves shall be provided in the Wire/ Cable to avoid accidental short circuit between the adjacent terminals. DBs shall be provided with body earthing connections as per provisions available in the DB. Identifications labels of approved engraved type nameplate/Radium stickers of suitable font size shall be fixed on DB. After complete termination of wire/cable same DB compartment shall be cleaned before fixing the door.

When the DB is fixed on the partition care should be taken to ensure the holding capacity of the partition, to avoid the DB from falling and getting damaged or causing injury. The installation of DB shall be done in such a way to add to the ambience of the Branch. It shall be firmly fixed on the wall / partition.

## **1.5 LAYING OF LT CABLE**

### **1.5.1 IN CABLE TRAY:**

Wherever the cable trays are provided, the cables shall be laid in the cable tray. The cable shall be laid from one end of the route or any other suitable point as per site conditions. Wherever the cable needs to be bended, the cables bending radius shall conform to the cable manufacturer's recommendation. Prior to cable cutting, check both ends to make sure there is sufficient length for proper dressing and end termination. After cable laying is finished, all cables shall be tested for insulation resistance. Install the cable tags, dress the cables and clamp it as per the standards. Whenever, single core cables are used, Trefoil (three-foil formation) laying shall be used with single-core cables.

### **1.5.2 LAYING THE LT CABLE UNDERGROUND:**

A trench of about 1.5 meters deep and 45 cm wide is dug. Then the trench is covered with a 10 cm thick layer of fine sand. The cable is laid over the sand bed. The sand bed protects the cable from the moisture from the ground. Then the laid cable is again covered with a layer of sand of about 10 cm thick. When multiple cables are to be laid in the same trench, a horizontal or verticle spacing of about 30 cm is provided to reduce the effect of mutual heating. Spacing between the cables also ensures a fault occurring on one cable does not damage the adjacent cable. The trench is then covered with bricks and soil to protect the

cable from mechanical injury. The LT Cable route markers shall be provided as per standards.

1.5.3 The end termination shall be provided as per the cable size. Unless specified, the termination shall be single compression type glands of proper size and lugs shall be suitable for termination as per the point of termination like switchgear terminals, Bus bar, terminal connectors etc. Only the respective metal lugs shall be used for termination. Aluminium lugs shall not be used to terminate in the copper bus bars or vice versa.

1.5.4 The cables from the Panel to DB or from Main DB to Sub DBs should be duly fixed with suitable size clamps if laid in the wall. If more number of cables are to be laid, then they shall be laid in cable trays of suitable size firmly fixed to the ceiling with threaded rods.

1.5.5 To avoid rodent menace, the contractor shall close all openings made by him in the wall, the unused knockout holes in the DB, Panels, Junction Boxes with suitable dummies, Blanking plates etc and also provide sufficient protection to the panels, DB. No claim for additional amount towards rectifying the work on account of damages caused by rodents will be entertained during the defects liability period.

#### 1.6 CONDUITS:

Unless otherwise specified all wiring shall be in rigid PVC conduit embedded in wall, or ceiling or concealed in the false ceiling. The size of conduits shall be selected in accordance with the IS regulations and the minimum size of the conduit shall be 20 mm dia unless otherwise indicated or approved. Conduits shall be kept at minimum of 100 mm from the pipes of other non-electrical services.

Separate conduits and runways shall be used for:

1. Lighting system.
2. Power outlets.
3. Emergency light.
4. Telephone system.
5. Fire alarm system.
6. Sound / public address system.
7. Television system.
8. Computer system.

Wiring for short extensions to outlets in hung ceiling or to equipment, motors etc. shall be installed in flexible MS conduits. Otherwise rigid conduits shall be used. PVC conduits shall not be used in outdoor system. Conduits shall be free from sharp edges and burrs and grease or oil shall not be used for the purpose of pulling the wire. The entire system of conduits must be completely installed and rendered electrically continuous before the conductors are pulled in.

All PVC conduits shall be jointed with plain PVC couples using approved PVC jointing materials as recommended by the manufacturer. All joints shall be water tight. Junction between conduit and adaptable boxes, back outlet boxes, switch outlet boxes and the like must be provided with entry spouts and smooth PVC bushes.

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#### 1.6.1 LAYING OF CONDUITS IN SURFACE:

Conduits run on surfaces shall be supported on galvanized / PVC saddles which in turn are properly screwed to the wall or ceiling. Saddles shall be at intervals of not more than 60 cm. Fixing screws shall be with round cheese head or and rustproof materials. Exposed conduits shall be neatly run parallel or at right angles to the wall of the building. Pull boxes must be provided at the right angles and at a distance of not exceeding 20 meter

#### 1.6.2 CONCEALING THE CONDUITS IN THE WALL:

Conduits embedded into the walls shall be fixed by means of staples at not more than 60 cm intervals. Chase in the wall shall be neatly made and refilled after laying the conduit and brought to the finish of the wall. Chasing shall be done with the wall cutting machine. Hammer and chisel shall be used on chased portion to get uniform depth of 50 mm. Uniform depth of 50 mm shall be maintained on chased portion. Conceal Back box shall be installed by using cement mortar. Alignment of the back box shall be done by using a calibrated spirit level. PVC adaptor shall be used for connection between JB and conduit. PVC solvent shall be used. PVC solvent cement shall be applied on conduit before interconnection. Embedded JB shall be protected by covering with brown tape filled with jute/gunny bag. Cement mortar 1:5 ratio (1 portion of the cement+5 portion of sand) shall be used for patchwork in chased area. Chicken (wire) mesh and GI nails shall be used for all chasing width of the embedded conduit. Curing shall be carried out for a minimum of three days.

#### 1.6.3 CONCEALING IN THE CONCRETE:

Conduits buried in concrete structure shall be put in position and securely fastened to the reinforcement and got approved by the consultant/Engineer before the concrete is poured. Proper care shall be taken to ensure that the conduits and boxes are neither dislocated nor choked at the time of pouring the concrete. Suitable fish wires shall be drawn in all conduits before they are embedded. Inspection boxes shall be provided for periodical inspection to facilitate draw and removal of cables. Such inspection boxes shall be flush with the wall in the case of recessed conduits. Inspection boxes shall be spaced at not more than 12 meters apart or two 90 degree solid bends or equal.

### 1.7 WIRING AND ACCESSORIES:

#### 1.7.1 LAYING OF WIRES:

Unless otherwise specified all wires shall be FRLS PVC insulated single core, stranded copper conductor. All wires shall be colored as follows:

Phase R: Red Color of wire

Phase Y: Yellow Color of wire

Phase B: Blue Color of wire

Neutral: Black

Ground: Yellow Green or Green (One color only to be used for the complete Installation).

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The size of wires shall be as indicated in the drawings or in the BOQ.

When more than one wires are installed in the same raceway, they should be pulled in the raceway at the same time. Use guide wires and similar equipment when wire pulling, to support the tension and avoid possible damage. Conductor splices must be enclosed in junction boxes. Use a minimum of 300mm of slack conductors inside DB and at each outlet as needed. Ensure proper wire installation in all boxes. After installation, the Wires Insulation Test should be conducted.

#### 1.7.2 SWITCH BOARDS AND POWER OUTLET SOCKETS:

Switch Boards for light points, socket outlets, power outlets, pull / junction boxes shall be of galvanized steel, and shall be of shapes and size to suit their respective locations and installations and shall be provided with covers to suit their function and installation. All outlet boxes shall be provided with brass ground terminals. All junction boxes/pull boxes shall have suitable covers. Surface mounted outlet and junction boxes in the outdoor locations shall be of weatherproof. The surface mounted indoor boxes shall be of sheet steel painted or PVC for surface installation. For internal use Switches shall be of the grid assembly pattern with rocker operated switch units suitable for operation with inductive loads. Switches shall be either one way or two way as specified in the BOQ. Switch plates shall be of suitable shade and size as specified in BOQ or approved by Architect. Surface installation switches shall be provided with matching steel box.

#### 1.7.3 CIRCUIT WIRING

Unless and otherwise specified in the BOQ, all sub main circuit conductor sizes for lighting and appliances, shall be as shown in the schedule of quantities. Each circuit phase wire from the distribution boards should be followed with a separate neutral wire of the same size as the circuit wire or as specified in the BOQ. For the light/fan point wiring individual phase, Neutral and Earth wires shall be run from the switch board to the respective ceiling rose. Looping of neutral and Earth wires for adjacent light points are not allowed except for the secondary points. For the secondary points Neutral and Earth looping should be done only from the respective primary points. This will avoid nuisance tripping of ELCB/RCCB in case of leakage and identifying the faulty circuit and rectifying will be easy. Each light point and outlet shall be identified with their circuit number and DB number with a label pasted on them. Flexible cords for connection to appliances, fans and pendants shall be 250/440V grade, three or four cores, with tinned stranded copper wires, insulated, twisted and sheathed with strengthening cord. If demanded by ARCHITECT, the contractor shall supply a certificate issued by the manufacturer of wires and switches stating origin, date of manufacture, batch number and standard to which it complies and the test certificates. Looping system of wiring shall be used. Wires shall not be jointed. Where joints are unavoidable, these shall be made through approved mechanical connector. 230 V power supply wiring shall be distinctly separate form any other different voltage system and lighting wiring.

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#### 1.7.4 CONTROL SWITCHES

Control switches shall be connected in the phase conductors only and shall be 'ON' when knob is down. Switches shall be fixed in galvanized steel boxes. Chromium plated screws shall be used. The rating of the Switches shall as per the BOQ.

For the UPS power sockets provided in the workstations and counters, the control switches shall be provided separately above the counter and the sockets below the counter.

#### 1.7.5 TESTING OF ELECTRICAL WIRING SYSTEM

The entire installation shall be tested in accordance with IS regulations for:

1. Insulation resistance.
2. Earth continuity.
3. Polarity of single pole switches.

#### 1.8 LIGHT FIXTURE INSTALLATION:

17.8.1 Inspect the site to install light fixtures as per approved lighting layout. If any mismatch is observed between the approved layout and the actual layout, please consult the Architect and replan the lighting layout to suit the actual site conditions.

If there is no false ceiling, chalk lines (geru powder cement colour removable type) shall be used to mark the spacing of light fixtures as per approved drawing. After marking, the light fitting support and accessories shall be fixed. Wires shall be connected to the connector of light fitting as per standard. Light fitting shall be mounted on the support fitted. Line level and final alignment shall be checked with line dori.

#### 1.8.2 INSTALLATION OF LIGHT FIXTURES IN THE FALSE CEILING:

While installing light fixtures in the false ceiling, the contractor has to check the distance between the roof and the false ceiling and ensure that the sufficient height is available for fixing the light fixtures and if requires any change in the lighting layout. Any hindrance like beams, sewerage pipe lines, electrical cables etc. has to be informed to the Architect and necessary guidance obtained before installation. Support to hang the fixture to be provided in the roof with suitable length of chain links or GI wires of suitable size, as per recommendation of the light manufacturer. The supports shall be of sufficient length to enable change of location of fixtures to the adjacent grid/cutout, if required by Bank. The supports should not be fixed to the pipes or cables or electrical conduits running above the false ceiling. The Light fixtures should not be loosely laid on the false ceiling grid without any support.

1.8.3 In case of the Gypsum false ceiling, the marking shall be made in the false ceiling first as per the lighting layout and the cutout shall be made in coordination with the interior contractor. Wherever required, the suitable frame required have to provide by the contractor for the 2'x2' fixtures.



1.8.4 The cutouts for the light fixtures and down lighters shall be properly marked in the false ceiling to make the cutout neatly and as per the desired lighting layout. Nylon line dori shall be used to ensure that all light fixtures are in a straight line

1.8.5 If the works involves, some architectural features in the false ceiling, the contractor shall consult the interior contractor and ARCHITECT Engineers before installation of light fixtures, ceiling fans, laying of cables above false ceiling to avoid any damage or any hindrance to the proposed architectural features.

## 1.9 EARTH STRIPS / CABLE TRAYS:

### 1.9.1 GI/COPPER STRIP LAYING:

Before installation of GI and copper earth strip, the inspection shall be carried out to confirm size, quantity and galvanizing of GI strip. Arrangement shall be made for proper scaffold for strip laying on the tray. Check wall and beam finishing before strip clamping on the wall and beam. Ensure that all Earth strip installation are straight. The earth strip route and size shall be confirmed/verified with approved earthing drawing.

Ensure that there is no overlapping in strips at joints. Where required for Joint area, use "C" type holding clamp for avoiding gap between two strips. GI strip fixing inside cable tray with using of GI nut bolt at every 5 mtr.interval. Clamps shall be fixed at an interval of 1000mm. Copper to GI earth strip connection shall be done by using the bimetallic washer

### 1.9.2 EARTH STRIP LAYING BY WELDING ON WALL/SLAB.

Whenever longer length of Earth strips are to be installed on wall/ slab, the overlapping in strips at joints shall be minimum. Overlapping area to be properly welded and ensure no gap in the joint area. Approved PVC sleeve shall be provided to 50x6mm and 75x10mm GI earth strip wherever accessible areas such as inside substation, all embedded portion etc. Welding joints are cleaned with wire brush and then coated with Galva brite. All paint, scale and enamel shall be removed from the contact before the earthing connections are made. All sizes of GI strips shall be fixed by using GI clamp, GI spacer, and 35x8mm GI screw with PVC nylon fasteners (PVC Grip). Clamps shall be fixed at an interval of 1000mm (in case of wall/slab).The earthing for Equipment shall be tapped from the main earth conductor/strip. Equipment earthing shall be done by GI nut bolting. Ensure GI nut bolt shall be fully tightened at equipment earthing. GI strip laid underground shall be at depth of 500mm below finished grade level. All joint below ground level shall be welded by two coats of bitumen paint. All connections to the grounding grid shall be made with earthing strip welded to the grid and bolted at equipment ends. All joints and cut ends shall be properly painted with galvabrite.

### 1.9.3 CABLE TRAY INSTALLATION:

Cable tray supports and cable tray material shall confirm the size, quantity and quality as per technical specification. Cable tray routes shall be cleared of any debris. Necessary cable tray route and supports shall be checked as per approved drawings. If required, make

suitable size opening in the wall for cable tray entry into the building. All accessories used such as joint plate, nut, bolts with washer, bends, reducers, etc. used in cable trays shall be of the same manufacturer as that of the cable trays. Necessary Scaffolding shall be arranged wherever applicable. Throughout the work execution, safety standards shall be followed.

Chalk lines (geru powder cement colour removable type) are used to mark the cable tray route at the deck slab. After marking of supports location, drill the hole & install anchor fastener. Ceiling bracket and top hat section shall be fixed on anchor fastener. Install the threaded rod supports using with ceiling bracket as per approved drawing. Check the vertical and horizontal alignment of threaded rod support by spirit level. Supports shall be installed at spacing not exceeding 1.5 meters and all branches, bends, Endpoints supports shall be installed as shown on the approved drawings. Nylon line dori will be used to ensure that all supports are in a straight line. After the installation of supports install the proper size cable tray and check the alignment using of line dhori & Sprit level. Two lengths of cable tray shall be connected with the joint plate. Minimum clearance shall be maintained between bottom of the tray and the ceiling. End cap to be provided at end cut portion of tray.

#### 1.10 CORE CUT:

Core cut hole shall be carried out at the site as per the site requirement after consulting Civil Engineer. Ensure marking of core cut is in line of existing cut out at the floor above or below to have vertical alignment. If more than one Core cut is required, required spacing shall be provided. Centre of core cut to be drilled with drill machine to receive core bit of machine. This will avoid displacement of core machine bit. The Core cut Machine will be Fixed to Slab using Machine Clamp and anchor Fastener. Check that machine is firmed enough not to be displaced from its location. Check the electrical supply and run the machine with minimal force. Maintain proper gaps between adjacent core cuts to allow pipe jointing in future. Upon completion of the core cut, protect the Core cut hole using the ply piece.

#### 1.11 CONCEALING INSIDE WALL/PARTITIONS/GROUND/CEILING:

1.11.1 The contractor shall give due notice to the Employer whenever any work like opening for the earth pits, underground laying of cables, concealing the conduit piping, cabling or any work is to be concealed in the wall/false ceiling/partitions or finished up or otherwise becoming inaccessible later on, in order that the work may be inspected and correct dimensions taken before concealing.

1.11.2 If the Contractor has concealed the items without informing ARCHITECT Engineer, the same shall be opened up for measurement and made good to the original finishing at the contractor's expenses. If the contractor refuses to do so, then the same will not be considered for measurement and no payment may be made for such materials.

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1.11.3 The contractor shall not execute any extra work other than the Bank's or ARCHITECT's written instruction. No works, for which rates are not specifically mentioned in the price bid, shall be taken up without written permission of the Bank/ARCHITECT.

1.11.4 Should any dispute or differences arise after the execution of any work as to measurements etc., or other matters which cannot be conveniently tested or checked, the decision of ARCHITECT shall be accepted as correct and binding on the contractor.

1.11.5 It is the responsibility of the Contractor to arrange/provide the tools, ladder, stands or any other gadgets or supports required for the execution of the work at site and Bank will not provide or entertain such requests.

**CCTV & EQUIPMENTS SPECIFICATIONS**

<b>2 MEGAPIXEL IP DOME CAMERA</b>		
<b>Sr. No.</b>	<b>Features</b>	<b>Specifications</b>
1.	Type of Camera Housing	Dome
2.	Camera Type	IP Based
3.	Image Sensor Type	CMOS
4.	Image Sensor Size	1/2.8" CMOS or better
5.	Camera Image Sensing capacity (Picture Mode)	2MP or better
6.	Resolution*	1920(H)x1080(V)
7.	Day/Night Capable*	Yes
8.	IR illumination Range(mtr)*	30 mtr or better
9.	Lens Type*	Fixed
10.	Focal Length(mm)*	3.6mm
11.	Iris Control*	Fixed Iris
12.	Stream with frame rate	Mainstream: 1080P(1 ~ 25/30fps), Sub Stream: D1(1-25/30fps)
13.	Video Compression	H.265 & H.264
14.	Video Streams	Dual-Stream or better
15.	Number of Audio Input Channel & Output	NA
16.	Number of Alarm Digital Input & Output	NA
17.	Pre/Post Alarm Buffer*	Yes
18.	Minimum Illumination for Capturing Color Image*	0.002 Lux@F1.6
19.	Electronic Shutter Speed(sec)	1/3 s–1/100000 s or better
20.	WDR (Wide Dynamic Range)	120 db or better
21.	SNR (Signal to Noise Ratio)	>55 Db or better
22.	Auto Gain Control	Yes
23.	Back Light Compensation*	Yes
24.	ONVIF Support*	Profile G,S,T should be published on Onvif website
25.	Analytics	Intrusion & Tripwire
26.	Privacy Zones*	4
27.	Max supported SD Card	256GB or better
28.	Protection & Vandal Resistant	IP67 & IK10
29.	Power Input*	12V DC, POE
30.	Operating Temperature	-40°C to 60°C
31.	Certification*	CE, FCC, RoHS, UL & BIS

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**Annexure 2**

<b>2 MEGAPIXEL IP BULLET CAMERA</b>		
<b>Sr. No.</b>	<b>Features</b>	<b>Specifications</b>
1.	Type of Camera Housing	Bullet
2.	Camera Type	IP Based
3.	Image Sensor Type	CMOS
4.	Image Sensor Size	1/2.8" CMOS or better
5.	Camera Image Sensing capacity (Picture Mode)	2MP or better
6.	Resolution*	1920(H)x1080(V)
7.	Day/Night Capable*	Yes
8.	IR illumination Range(mtr)*	30 mtr or better
9.	Lens Type*	Fixed
10.	Focal Length(mm)*	3.6mm
11.	Iris Control*	Fixed Iris
12.	Stream with frame rate	Mainstream: 1080P(1 ~ 25/30fps), Sub Stream: D1(1-25/30fps)
13.	Video Compression	H.265 & H.264
14.	Video Streams	Dual-Stream or better
15.	Number of Audio Input Channel & Output	NA
16.	Number of Alarm Digital Input & Output	NA
17.	Pre/Post Alarm Buffer*	Yes
18.	Minimum Illumination for Capturing Color Image*	0.002 Lux@F1.6
19.	Electronic Shutter Speed(sec)	1/3 s–1/100000 s or better
20.	WDR (Wide Dynamic Range)	120 db or better
21.	SNR (Signal to Noise Ratio)	>55 Db or better
22.	Auto Gain Control	Yes
23.	Back Light Compensation*	Yes
24.	ONVIF Support*	Profile G,S,T should be published on ONVIF website
25.	Analytics	Intrusion & Tripwire
26.	Privacy Zones*	4
27.	Max supported SD Card	256GB or better
28.	Protection & Vandal Resistant	IP67
29.	Power Input*	12V DC, POE
30.	Operating Temperature	-30°C to 60°C
31.	Certification*	CE, FCC, RoHS, UL & BIS

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**Annexure 3**

<b>4 MEGAPIXEL IP BULLET CAMERA</b>		
<b>Sr. No.</b>	<b>Features</b>	<b>Specifications</b>
1.	Type of Camera Housing	Bullet
2.	Camera Type	IP Based
3.	Image Sensor Type	CMOS
4.	Image Sensor Size	1/3" CMOS or better
5.	Camera Image Sensing capacity (Picture Mode)	4MP or better
6.	Resolution*	2560(H)x1440(V)
7.	Day/Night Capable*	Yes
8.	IR illumination Range(mtr)*	30 mtr or better
9.	Lens Type*	Fixed
10.	Focal Length(mm)*	3.6mm
11.	Iris Control*	Fixed Iris
12.	Stream with frame rate	Mainstream: 4MP 2560x1440(1 ~ 25/30fps), Sub Stream: D1(1-25/30fps)
13.	Video Compression	H.265 & H.264
14.	Video Streams	Dual-Stream or better
15.	Number of Audio Input Channel & Output	NA
16.	Number of Alarm Digital Input & Output	NA
17.	Pre/Post Alarm Buffer*	Yes
18.	Minimum Illumination for Capturing Color Image*	0.008 Lux@F1.6
19.	Electronic Shutter Speed(sec)	1/3 s–1/100000 s or better
20.	WDR (Wide Dynamic Range)	120 db or better
21.	SNR (Signal to Noise Ratio)	>55 Db or better
22.	Auto Gain Control	Yes
23.	Back Light Compensation*	Yes
24.	ONVIF Support*	Profile G,S,T should be published on ONVIF website
25.	Analytics	Intrusion & Tripwire
26.	Privacy Zones*	4
27.	Max supported SD Card	256GB or better
28.	Protection & Vandal Resistant	IP67
29.	Power Input*	12V DC, POE
30.	Operating Temperature	-30°C to 60°C
31.	Certification*	UL, FCC, CE, ISO certified, BIS

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**Annexure 4**

<b>5MP IP FISHEYE CAMERA</b>		
<b>SN</b>	<b>Features</b>	<b>Specifications</b>
1.	Type of Camera Housing	Dome
2.	Camera Type	IP Based
3.	Sensor	The camera should be equipped with a minimum of 1/2.8" 5MP CMOS sensor applying progressive scan technology to record more fluid footage and avoid distortion created by moving objects.
4.	Resolution	Minimum 2592 x 1944 for high video quality
5.	Frame Rate	The camera should capture images at a frame rate of 25/30fps @ 2592 × 1944 so as to give a swift video output even in case of fast-moving objects.
6.	Video Compression	H.265+, H.265, H.264+, H.264
7.	Electronic Shutter Speed	Auto/Manual, 1/3~1/100000s
8.	S/N Ratio	>56 dB
9.	Lens	The camera should be provided with an OEM fitted 1.4mm Lens or better with angle of view H: 180°; V: 180°; D: 180°
10.	Privacy Masking	Camera should support up to 4 areas.
11.	Minimum Illumination	Color 0.006 Lux @ F2.0, 0Lux (IR on)
12.	ICR	The camera shall incorporate a physical ICR filter for quality images both during day and night
13.	IR Distance	The camera should have inbuilt IR and cover distance up to 10 Mtr. or above
14.	Video Streaming	The camera should output a master and a slave stream that are individually configurable. Should support Dual Streaming
15.	ROI Support	The Camera should allow at least 2 sections of the camera view to be streamed separately for distinguished viewing and recording. Furthermore, it should give the capability to configure these streams individually
16.	Backlight Compensation	BLC should allow adjusting the gain of the camera to improve exposure of the subjects that are in front of a bright light source
17.	Wide-Dynamic-Range	The camera should give a WDR range of minimum 120 dB Real WDR (Must be Hardware driven)
18.	Noise Reduction	3D-DNR

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19.	Camera Tampering	The camera shall provide real time tampering protection by means of alerts generated at the software.
20.	Event Notification	Through Relays, E-Mails or FTP
21.	Network	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP, CGI; P2P
22.	Security	Security Password protection, HTTPS (SSL, TLS), IP filtering, IEEE 802.1X
23.	Micro SD Slot	Should support up to a maximum of 256GB micro-SD
24.	Others	Exposure Control, AGC, White Balance
25.	Video Content Analytics supported by Camera	Motion detection
		Tripwire
		Intrusion
		Abandoned/Missing
		Audio detection
26.	Network Ethernet	RJ-45 (10/100Base-T)
27.	Audio	1 /1 channel In/Out
28.	Audio Compression	G.711a; G.711Mu; G.726
29.	Mic	Built-in Mic
30.	Alarm	1 /1 channel In/Out
31.	Event Notification	Video tampering, Network disconnection, IP address conflict, Illegal Access, Storage anomaly
32.	Power Source	The network camera shall support industry standard Power over Ethernet (PoE) IEEE 802.3af to supply power to the camera over the network and DC12 V to supply local power in case of longer distance where PoE is not possible.
33.	Power Consumption	Not to exceed 10W
34.	Operation Temperature/Humidity	-30 °C to 60 °C / Less than 95% RH
35.	Open Protocol	ONVIF Profile S or higher
36.	Certifications	UL, FCC, CE, ISO certified, BIS



**Annexure 5**

<b>32 CHANNEL 8 SATA NETWORK VIDEO RECORDER</b>		
<b>Sr. No.</b>	<b>Features</b>	<b>Specifications</b>
1.	Type of Recording Device	NVR
2.	IP Camera Support	Yes
3.	PTZ Camera Support	Yes
4.	Capability of Recorder to Work with Other Makes of CCTV Cameras (ONVIF support)	Yes
5.	Number of IP Camera supported in Recorder	32
6.	Camera Supported	12 MP or Better
7.	Supported Compression Technique	H.265 & H.264
8.	Maximum Number of cameras to be viewed on a single display	36
9.	Simultaneous Monitoring Connections for Cameras (Users in Local Network for Client Connection)	4
10.	Bandwidth	Incoming 320Mbps, Outgoing 320Mbps.
11.	Audio In/Out	1/1
12.	Two-way Audio Support	Yes
13.	Type of Encryption	HTTPS , HTTP , WATER MARKING
14.	Alarm Input & Output	16 & 6
15.	Supported Network Protocols	HTTPS, UPnP, RTSP, UDP, SMTP, RTP, IP Filter, FTP, IP Search, ONVIF
16.	Interface Ports	2 RJ-45 10/100/1000 Mbps 2 HDMI, 2 VGA, 4 USB, 1 RS 232, 1 RS485
17.	Recording schedule support	Yes along with MD/Alarm based/Event based
18.	Analytics	Tripwire, Intrusion, Face detection, Face recognition supported by Camera
19.	Camera Notification	POP up Window on Event
20.	Search	Date, Time, Event, Log, Motion, Bookmarks, Motion Forward, adjustable playback speed, Full Screen, Next Camera, Previous Camera, Repeat
21.	Number of Hard Disk Slots (10TB each)	8 SATA III, 1 SATA
22.	Power Input	100 V–240 V AC
23.	Operating Temperature (Degree Celsius)	-10 to 55°C
24.	Certifications	CE, FCC, RoHS, UL & BIS

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**Annexure 6**

<b>24 PORT POE SWITCH</b>		
<b>Sr. No.</b>	<b>Features</b>	<b>Specifications</b>
1.	Network Ports	24 x 1000Mbps RJ45 ports + 2 x 1000Mbps SFP ports
2.	PoE Ports	24 x 10/100 Mbps, RJ-45 ports
3.	Uplink Port	2 x 1000Mbps SFP ports
4.	Network Standard	IEEE802.3i/802.3u/802.3x/802.3af/802.3ab/ IEEE 802
5.	Packet Forwarding Rate	1488000pp
6.	MAC Address Table	8K
7.	Forwarding Mode	Store and forward
8.	PoE Power Budget	300 W
9.	Working Mode	0-100m
10.	Power Supply	AC 180~240V
11.	Power Consumption	≤20 W
12.	Lightning Protection	6KV
13.	Working Temperature	-10°C ~50°C
14.	Working Humidity	10% to 90% , non-condensing

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**Annexure 7**

<b>8 PORT POE SWITCH</b>		
<b>Sr. No.</b>	<b>Features</b>	<b>Specifications</b>
1.	Network Ports	10 x 1000Mbps RJ45 ports + 2 x 1000Mbps SFP ports
2.	PoE Ports	8 x 10/100 Mbps, RJ-45 ports
3.	Uplink Port	2 x 1000Mbps RJ45 ports + 2 x 1000Mbps SFP ports
4.	Network Standard	IEEE802.3i/802.3u/802.3x/802.3af/802.3ab/ IEEE 802
5.	Packet Forwarding Rate	1.488Mpps/port
6.	MAC Address Table	2K
7.	Forwarding Mode	Store and forward
8.	PoE Power Budget	96 W
9.	Working Mode	0-100m/1000Mbps or Port 7-8 Max. 250m/10Mbps
10.	Power Supply	Input: 100-240V AC, 50/60Hz built-in power supply
11.	Power Consumption	≤5 W
12.	ESD Protection	Air discharge: 8KV Contact discharge: 6KV
13.	Working Temperature	-10°C ~50°C
14.	Working Humidity	10% to 90% , non-condensing

**LAN & NETWORK CABLING SPECIFICATIONS**

<b>Unshielded Twisted Pair Category 6A Cable</b>
Make:
Model Number:
<b>Features</b>
Category 6A Unshielded Twisted 4 pair shall be compliant with ANSI/TIA/EIA-568-C.2 and & ISO/IEC 11081.
Should support 10GBASE-T (10-Gigabit Ethernet) standard.
Category 6A should operate on bandwidth up to 500MHz.
Category 6A can run 10GBASE-T at 100 meters.
<b>Mechanical Characteristics</b>
The conductors should be twisted in pairs with four pairs and Insulation should be high density polyethylene/Polyolefin/Foam skin PE
Copper conductor diameter should be 23 AWG.
Cable outer sheath should be LSZH.
Cable outer diameter should be 7.0 mm nominal.
<b>Electrical Properties</b>
Conductor Resistance: $\leq 9.38\Omega/100m$
Mutual Capacitance: $< 5.6nF/100m$
Resistance Unbalance: 5% Max
Delay Skew: $< 45nS$
Characteristic Impedance: $100 \pm 15\Omega$
<b>Mechanical Properties</b>
Bending Radius should be 8 x cable diameter.
Operating temperature Range $0^{\circ}C$ to $+60^{\circ}C$
Need to submit transmission characteristics report per 100 meters. The report at least includes Maximum Attenuation, RL, NEXT and PSNEXT data.
<b>Note</b>
Cable box require in 305 meter length.
OEM for the cable Box and all copper Accessories should be from same OEM.

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<b>Cat 6A Information Outlets, Blue Colour - DATA</b>	
<b>Unshielded Twisted Pair Category 6A Keystone Jack</b>	
Make:	
Model Number:	
Features	
Category 6A keystone jacks are RJ45, 8 position 8 contact sockets.	
Category 6A keystone jacks are suitable for 22-26 AWG stranded and solid wire.	
Category 6A keystone jacks are compatible with both 110 & Krone punch down tools.	
The Category 6A keystone jacks shall be backward compatible with Category 6, and 5e cords and cables.	
The Category 6A keystone jacks shall be of a universal design supporting T568 A & B wiring.	
Mechanical Characteristics	
Category 6A keystone jacks housing made from PC, UL94V-2	
RJ45 Jack contact material should be phosphor bronze with Nickel plated.	
IDC contact material should be phosphor bronze with tin plated.	
Note	
OEM for the cable Box and all copper Accessories should be from same OEM.	

<b>Multi-Mode (OM4) Fiber Optic Pigtail - LC Type</b>	
Make	
Model Number	
Pigtail Features	
Fiber optic pigtail with one core fiber cable terminated with LC connector at one end and open at other end.	
Should be 100% inspected for optical characteristics & fiber end face finish.	
Pigtail length requires – 1 meter Simplex.	
Pigtail Performance Characteristics	
Should have multi-mode OM4 optic fiber.	
Typical Insertion Loss should be $\leq 0.2\text{dB}$ , Max. $0.3\text{dB}$ .	
Pigtail Mechanical Characteristics	
Should have Ceramic Connector Ferrule.	
Repeatability should be $\leq 0.2\text{dB}$ , 200 times mating cycles.	
Working Temperature should be 0 degree celcius to + 70degree celcius.	

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<b>Face Plate with Back Box for Category 6A Jack</b>
Make:
Model Number:
<b>Features</b>
Face Plate should be able to terminate one Cat 6A keystone jack.
Face plate material should be ABS with white colour.
The face plates should have inbuilt shutter for protection against dust.
Face plate should be able to supply with label holder.
Screw and screw hole covers to be supplied with face plate.
Should supplied with suitable back box. It should be made from HIPS / High plastic material/ABS.
<b>Note</b>
OEM for the cable Box and all copper Accessories should be from same OEM.

<b>Unshielded Twisted Pair Category 6A Patch Cord</b>
Make:
Model Number:
<b>Features</b>
Category 6A patch cords with four pair twisted cable terminated with RJ45 modular plugs at both the ends.
Patch Cord should have TIA/EIA 568C.2 standard.
Shall be backward compatible with Category 5e and Category 6 systems.
Category 6A patch cord should be 100% factory made and performance tested.
Category 6A patch cord length requires – 1 meter & 2 meter.
<b>Performance Characteristics</b>
Patch cord conductor should be 24 AWG, multi-strands.
Patch cord conductor metal should be made from bare copper.
Jacket material should be LSZH.
<b>Modular Connector/Plug Characteristics</b>
Patch cord plug should be 50U gold plated.
Contact blade of plug should be made from copper alloy.
Category 6A patch cord plug should have maximum 500 M $\Omega$ , 1000V DC/min insulation resistance.
Dielectric withstanding voltage should be 1000V DC/min, <0.5A.
<b>Note</b>
OEM for the cable Box and all copper Accessories should be from same OEM.

<b>Unshielded Twisted Pair Category 6A Loaded Patch Panel - 24 Port</b>
Make:
Model Number:
<b>Features</b>
Category 6A UTP Patch Panel should be 24 Port 1U Size.
Mounts in standard 19 inch racks.
Patch panel should have cable manager for improvement management.
Patch panel should be made from SPCC and 1.5mm or higher thickness with black colour painted.
RJ-45 Jack housing should be PBT + glass fiber, UL-94V-0.
RJ-45 Jack contact material should be phosphor bronze with nickel plated
IDC material should be phosphor bronze with tin plated
<b>Note</b>
OEM for the cable Box and all copper Accessories should be from same OEM.

<b>Fiber LIU 12 Port Rack Mount - LC type MM Mode</b>
Make
Model Number
<b>LIU Features</b>
Fiber optic LIU should include with LIU Box itself, Adapter Panel, and Adapters as per requirement.
Fiber optic LIU should have sufficient slots for accommodate 12 number LC adapters.
Should be 1U 19 inch rack mountable.
Steel base material for strong housing.
Should have Splice Tray & Cable Spool provision inside LIU.
Accessory kit consists of cable ties, mounting ear screw, and spiral wrap tube.
Should have Rubber fiber slotted bracket built-in, splice shelf / tray to protect the fibers.
<b>Adapter Plate Features</b>
Plate made from Cold rolled steel materials.
Suitable for LC adapters.
<b>Adapter Features</b>
LC adapters should have compact design & high precision, which perform well under various circumstances & maintain good plug retention strength.
The sleeves are basically recommended zirconia type.
Insertion Loss should be $\leq 0.20\text{dB}$ for Zirconia Sleeve
Sleeve/Ferrule Withdrawal Force should be 1.0N ~ 2.5N.

<b>Multi Mode (OM4) 06 Core Fiber Optic Cable</b>
Make
Model Number
<b>General Features</b>
Fiber cable should be Multi Mode OM4. Suitable for Indoor/Outdoor (Duct) Local Area Network Systems.
Should have excellent Water Proof Layer & Good Moisture Resistance.
Central Loose tube with jelly compound.
Glass yarns in between Steel tape & loose tube.
Fiber cable should support standard ISO11801 and IEC 60793-1/60794-1-2.
Fiber cable jacket material should be HDPE.
<b>Mechanical Characteristics</b>
06 core Fiber cable outer diameter should be 9.0 mm +/- 0.3 mm nominal.
Thickness of the Jacket should be 1.8 mm +/- 0.2 mm nominal.
Should have 3000N/100mm Crush Load.
Bend Radius should be Short Term 20D in mm and Long Term 10D in mm.
Should have 1000N long term pulling tension.
<b>Geometrical Properties</b>
Mode field diameter 50 $\mu\text{m} \pm 2.5 \mu\text{m}$ .
Clad Diameter 125 $\mu\text{m} \pm 1.0 \mu\text{m}$ .
<b>Other Characteristics</b>
Maximum Attenuation at 850nm should be $\leq 2.7 \text{ dB/km}$ .
Maximum Attenuation at 1300nm should be $\leq 0.8 \text{ dB/km}$ .
Cabled numerical aperture should be $0.200 \mu\text{m} \pm 0.015 \mu\text{m}$ .
<b>Environmental Characteristics</b>
Operating Temperature should be -20 deg C to +65 deg C.
Storage Temperature should be -30 deg C to +70 deg C.

<b>Multi Mode (OM4) Fiber Optic Patch Cord - LC-LC Type</b>
Make
Model Number
<b>OM3 Patch Cord Features</b>
Fiber optic patch cord with two core fiber cable terminated with LC duplex connector at one end and LC duplex connector at another end as per requirement.
Should have good geometrical characteristics of apex offset & radius of curvature & fiber height.
Should be 100% inspected for optical characteristics & fiber end face finish.
Patch cord length requires – 3-meter Duplex.
<b>Performance Characteristics</b>
Should have multi-mode OM4 optic fiber.
Typical Insertion Loss should be $\leq 0.2\text{dB}$ , Max. $0.3\text{dB}$ .
<b>Mechanical Characteristics</b>
Should have Ceramic Connector Ferrule.
Repeatability should be $\leq 0.2\text{dB}$ , 200 times mating cycles.
Working Temperature should be 0 degree celcius to + 70degree celcius.



**LIST OF MATERIALS WITH APPROVED BRAND / THEIR MANUFACTURERS  
(THE MAKE LISTED BELOW SHOULD BE FIRST APPROVED BY THE BANK BEFORE USE)**

<b>SL</b>	<b>Item</b>	<b>Make</b>
1	Pre-laminate Board	Navopan / Action Tesa /Prism or Eqv.
2	Commercial MR grade	Century/Green/ Samrat/ Finest or Eqv.
3	Laminates	Greenlam / Century/Merino/ Royal touch or equivalent
4	Commercial Boards	Green (Eco- Tech ) / Century / Corbett or Eqv.
5	Veneer	Green/ Jalaram/ Merino or equivalent
6	Local Wood	Chir / Holac or Eqv.
7	Adhesive	Fevical SH/Vamicol or equivalent.
8	Drawer Sliding Fittings	Enox/ Hettich/Heffle/Dorma or Eqv.
9	Triple Computer monitor mount/stand arm	Vivo/ Dell/ HP/Euronics or Eqv.
10	Locks	Godrej / Ozone / Dorma/ Enox or Eqv.
11	Floor Spring/ Door Closers	Haffele / Enox / Dorma/ Ozone or Eqv.
12	Glass	Saint Gobain, Asahi Float, Modi Guard or equivalent.
13	Teak Wood	CP Teak or Eqv.
14	Texturized Interior Paint	Dulux/ Berger/Asian/ Nerolac or Eqv.
15	Acrylic Premium Emulsion Paint (Interior and Exterior)	Asian/ Nerolac / Berger / Dulex or Eqv.
16	Leatherite	Bhor / As Approved or Eqv.
17	Roller Blind/ Ventian/ Vertical Blind	Vista/MAC/DACK/D'Decor or Eqv.
18	Polish	Asian Melamine, Dulux, Berger or Eqv.
19	Beading	L.P. Teak Wood or Eqv.
20	Vitrified Floor Tiles	Kajaria/Somany/ H.R. Johnson/ Nitco/ Simpolo or Eqv.
21	Ceremic Tiles -Floor tiles & Dado	Kajaria/Somany/ H.R. Johnson/ Nitco/ Simpolo or Eqv.
22	Carpet tiles	Welspun / Armstrong / Interface or equivalent
23	Telescopic Channel	Hettich / Enox / Ozone / Haffele/ CNR or Eqv.
24	Ceiling Grid	Armstrong /Indian Gypsum Board/Gyproc/Saint Gobain. or Eqv.
25	Gypsum Board	Saint Gobain / Gypsum India or Eqv.
26	Ceiling Channel, Angle, Screw Etc.	Saint Gobain / Gypsum India or Eqv.
27	Sainitary Ware / Urinals/ Urinal Partitions	Hindware / Parryware / Jaquar or Eqv.
28	Stainless Sink	Neelkanth / Jyana / Nirali or Eqv.
29	CP Fittings	Jaquar/ Hindware/ Plumber or Eqv.

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30	Flush Doors	Century/ Anchor/Samrat/ Green or Eqv.
31	Cement	Grade 43/53 of Ultra tech, ACC, Ambuja, L&T. Or Eqv.
32	False Flooring	Unifloor /Flexi Access Floor/Armstrong Or Eqv.
33	Wooden Laminated Flooring	Pergo/Green/ Royal Touch/ Ergo/Vista. Or Eqv.
34	ACP Panels	Aluco bond/ ALU Décor/ Alstrong/Flexi bond. Or Eqv.
35	Cement (53 Grade)	Ultratech, L&T, Ambuja, ACC, Birla, Modi. Or Eqv.
36	White Cement	Birla White, JK White Or Eqv.
37	Exterior Grade Particle Board	Century, Green, Anchor Or Eqv.
38	Aluminium Baffle Ceiling With Grid Suspension.	Knauf ceiling solutions by Armstrong Co., Techno Baffle Ceiling Products Pune. Or Eqv.
39	Compressed Acoustic Wall Panels.	Techno Acoustic Co. Products Pune., Armstrong Co. Or Eqv.
40	Fluted Veneer	Century / Durian / Green/Euro Or Eqv
41	Fluted Laminate	Royale touch / Century / Green lam / Samrat /AICA Or Eqv.
42	HDHMR	Action Tesa or Eqv.
43	Marble	Burberry Marble or Eqv.
44	Aluminium skirting	Bottomline / Progress / Jeb / Dorma or Eqv.
45	Glass Partition	Jeb / Alloy / Dorma / Kubik / Otic Or Eqv.
46	Acrylic Solid Surface	Corian / Dupont / LG / Merino Or Eqv.
47	Aluminium extruded sections	Jindal, Hindalco or equivalent
48	Plywood	Greenply, Century, Samrat , Duro or equivalent
49	Slim line Glass	Saint Gobain, Asahi Float, Modi Guard or equivalent
50	Enamel Paint/polish	Asian/Nerolac/Berger or equivalent
51	Zebra roller blinds (150 GSM)	Vista / Wintree / D. decor or equivalent
52	Glass protective film	3M Science or equivalent
53	Side storage unit	Godrej or equivalent
54	PHONE BOOTH	Talkbox, Phonebooth, featherlite or equivalent
55	Chairs for Meeting / Reception / AGM / DGM etc	Godrej/ featherlite /Wipro/Bosq or equivalent
56	Workstation	Godrej/ featherlite /Wipro/Bosq or equivalent
57	Modular Switches / Sockets / Electronic Fan Regulators/ Pop up Boxes etc.	Siemens Delta Miro color / Legrand Myrius NextGen / Honeywell MK Blenze pro or Equivalent. (Color will be as finalised by Architect / bank)

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58	1100V Grade PVC insulated <b>FRLSH</b> Copper wires.	Finolex / Polycab / V-Guard / RR Kable or Equivalent
59	PVC conduits & Accessories	<b>20 / 25 mm dia 2.0mm thick Heavy guage</b> Precision / Diamond / AKG / Polycab or Equivalent
60	MCB controlled combined power sockets with box	Legrand / Schneider / Hager / Siemens or Equivalent
61	MCBs / RCBO / RCCBS / MCB & MCCB Distribution boards (All should be same made among approved makes)	Legrand/Hager/Schneider-Acti9/ Siemens / L&T or Equivalent
62	MCCBs	Legrand / L&T / Hager / Schneider Acti9/ L & T or Equivalent
63	HT / LT Armoured Cables	CCI / Nicco / POLYCAB / GLOSTER / FINOLEX / V-GUARD / RR CABLES or Equivalent
64	Cable Glands	HMI / Comet / Dowell or Equivalent
65	Light Fixtures / Fittings	Philips / Wipro / Osram or Equivalent
66	DALI based smart control switches & Controllers	Philips / Wipro / Osram or Equivalent
67	BLDC Ceiling Fans	Crompton / Atomberg / Usha or Equivalent
68	Exhaust fans	Crompton / Usha / Orient OR Equivalent
69	Wall Fans (with metal body, blades and grill)	Crompton / Orient / Usha / V-Guard or equivalent
70	PA System Amplifiers	Philips / Ahuja / Bosch / Studio master or Equivalent
71	Speakers	Ahuja / Philips / Bosch / Studio master or Equivalent
72	Data cabling Components	D-Link, Commscope, Tyco or equivalent

- NB. 1) The contractor should obtain prior approval from Employer / Consultants before placing order for any specific materials. Employer may / delete any of the makes or brands out of the above list.
- 2). All materials should conform to relevant standards and codes of BIS.
- 3) Materials with I.S.I. mark shall be used duly approved by the STATE BANK OF INDIA Engineer / Architect.

**Note: - If any material is found to be not up to the mark, the contractor will have to produce original bills/certificate from the manufacturer or his authorized Distributor for authenticity and genuineness of the material for consideration and as per make approved by the STATE BANK OF INDIA. The same will not be considered for payment.**

<b>LIST OF IS CODES FOR INTERNAL ELECTRIFICATION INSTALLATIONS</b>		
<b>SN</b>	<b>Description</b>	<b>IS Code</b>
1.	EXTERNAL ELECTRIFICATION wiring installation (system voltage not exceeding 650V)	IS 732 – 1989
2.	Graphical symbols used in Electro-technology art-XI- Electrical Installation buildings	IS 2032-1969
3.	Fire safety of buildings (General) Electrical Installation	IS 1646-1961
4.	3 pin plugs and sockets	IS 1293
5.	Earthing	IS 3043-1966
6.	Fittings for electrical wiring	IS 2667/1964
7.	General and safety requirements for electric lighting fittings	IS 1913-1969
8.	Busbar ratings	IS 8084-1976
9.	On load change over switches	IS 4064-1978
10.	Panel shall comply with the latest Relevant Indian Standards and Electricity Rule and Regulations	IS-13947-1993
11.	The general construction shall for factory built assembled switchgear & control gear for voltage up to and including 1100 V AC	IS-8623-1977 (Part-1)
12.	DBS	IS-13947-1993
13.	The general construction for factory built assembled switchgear & control gear for voltage up to and including 1100 V AC	IS-8623-1977 (Part-1)
14.	The degree of protection shall be IP-42 for indoor application, IP-55 for kitchen and IP-65 for outdoor application.	
15.	Conduits for electrical installations, Part 3: Rigid plain conduits of insulating materials. General requirements [ETD 14: Electrical Wiring Accessories].	IS 9537-3 (1983)
16.	Fittings rigid non-metallic conduits [ETD 14: Electrical Wiring Accessories]	IS 3419 (1989)

### **MODE OF MEASUREMENT FOR PAYMENT**

(As specified in the price bid)

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## PREAMBLE TO SCHEDULE OF QUANTITIES

Note: While quoting rates for each item of work, the contractor shall include for the following irrespective whether it has been mentioned or not in the description of the item without any extra claim / payment.

1. All unexposed surfaces of timber (any variety) used shall be treated with necessary coats of wood preservative.
2. All exposed surfaces of timber (any variety) shall also have necessary coat of wood primer / putty and paint / polish as per description in the item.
3. Before making bulk quantities, the contractor shall make each of the item as sample and get it approved in writing from the consultant's minor modification if and as suggested by the consultant the same shall have to be incorporated without any extra cost.
4. All exposed edges of ply board shall be fixed with cedar / teak wood lipping.
5. All fabrics / leatherite to be used shall cost Rs. 300/ - per meter unless otherwise specified in the item.  
Difference in cost for approved sample shall be adjusted accordingly.
6. For furniture item where required whether mentioned or not shall be include providing fixing of Brass / Power coated handles /knobs multipurpose locks, mini tower bolts, ball catchers, hinges, screws and sliding rails etc.
7. Back of all storage, cabinets, and consoles shall be in 6mm commercial ply only.
8. Thickness of laminates to be used shall be 1 mm except where specified.
9. Ant termite treatment is to provide for all wood / board /ply used in the storage.

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