

**STATE BANK OF INDIA****INVITES ONLINE E-TENDER**

**FOR**  
**CIVIL WORK FOR SBI SATKASHI BRANCH,**  
**SAO - 5, NAVSARI.**

**FROM**  
**THE SBI AHMEDABAD CIRCLE EMPANELLED CIVIL WORK CONTRACTORS UNDER**  
**THE CATEGORY OF WORKS UP TO RS. 25.00 LAKHS AND ABOVE**

**THE LAST DATE OF SUBMISSION OF ONLINE TENDERS:**

**15.05.2025 UP TO 03:00 PM**

**NO PHYSICAL SUBMISSION OF DOCUMENTS REQUIRED**

**PART – A (TECHNICAL BID)**

- PROJECT CONSULTANT

**TENDER SUBMITTED BY:**

**NAME :**

**ADDRESS :**

**DATE :**

**ARCHITECTS**

**:**



**ARCHITECTS**

**&**

**INTERIOR DESIGNER**

**॥ निर्माण ॥**

**C-610, INTERNATIONAL TRADE CENTRE, (I.T.C.) MAJURAGATE,  
BESIDE VISHWAKARMA TEMPLE, RING ROAD, SURAT - 395002  
Ph: 0261 -400 1070, 92274 40370 E- mail : [ar.nirmaan@gmail.com](mailto:ar.nirmaan@gmail.com)**

TECHNICAL BID - CIVIL WORKS FOR SBI SATKASHI BRANCH , SAO -5, NAVSARI

**Nirmaan** Architects & Interior Designer

**Sign & Seal of contractor**

## INDEX

**Tender documents are in two parts (Volumes) i.e. Part – A and Part – B**

### **PART – A (TECHNICAL BID)**

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ARCHITECTS - INTERIOR DESIGNER - PROJECT CONSULTANT

**NOTICE INVITING TENDER (NIT)**

SBI through its Architect - Ar. Nikunj R. Sayani - Nirmaan architects and interior designer, invites Online tender in two bid system followed by e-reverse auction, from the Bank's Empanelled Civil contractors of Ahmedabad Circle for Civil Work at SBI SATKASHI BRANCH, SAO - 5, NAVSARI.

1	Name of work	<b>PROPOSED CIVIL WORKS OF SBI SATKASHI BRANCH, SAO - 5, NAVSARI</b>
2	Nature of work	CIVIL WORK
3	Time allowed for completion	<b>45 days from date of acceptance of work order</b>
4	Estimated amount	<b>25,32,460.00/-</b>
5	<b>Earnest Money Deposit</b>	Rs. 25,500/- 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 Nationalized Bank drawn in favour of <b>State Bank of India, payable at NAVSARI. [Those registered with MSME-UDYAM need not submitted EMD. Instead DD,</b>
6	Initial Security Deposit	NA(as per Government directives)
7	Total Security Deposit	5% of the final bill amount including ISD
8	Start and end date for downloading of tender documents form Bank's website	<b>08/05/2025</b> to 15/05/2025 at www.sbi.co.in under <Link><SBI in the news >procurement news.
9	Last date & time for submission of Sealed Technical bid and Seale Price Bid	<b>15/05/2025 up to 03.00 pm.</b>
10	Address at which & Process Compliance Form has to be submitted	<b>To, Assistant General Manager, State bank of India, Regional business office (RBO - 5), First floor, Shourya apartment, Opp Lunsikui ground, Navsari. 396 445</b>
11	Date and time of opening of online Technical bid & Sealed Indicative Price bid	<b>15/05/2025 up to 03.30 pm .</b>
12	Date & time for e-reverse auction	<b>NA</b>
13	Agency for arranging online Bidding (Technical bid and sealed price bid)	<b>M/s. Antares Systems Limited, Bangalore, Contact No 91 80 40482000; 91-80-40482114 Mobile : 91 -9674758719, 9674758720</b>
14	Liquidated Damages	0.50% of contract amount per weeks subject to max. 5% of contract value or final bill value.
15	Defects Liability Period	12 Months from the date of Virtual Completion
16	Validity of offer	90 days from the date of opening of Price-bid
17	Value of Interim Certificate	No advance on materials / plant / machinery or mobilization advance shall be paid under any circumstances.
18	Insurance	The contractor shall obtain all necessary insurance policies as per the governing laws applicable at the center& shall require to produce the original policy of Insurance& receipt of the premium as applicable in the matter to the Architect/Bank.

19	Rates	Rates quoted shall be inclusive of all existing & future (including variation) taxes, duties, levies, royalties, transportation, other incidental charges, WCT etc. PVA & PVA Clause shall not be applicable. Note: GST will be paid Extra as per Applicable norms. If any Tenderers puts any condition/anything/any taxes extra over and above their quoted rates the tender shall be summarily rejected.
20	Working schedule	<b>Since the work has to be carried out in a NEW / RUNNING BRANCH premises, the contractor shall execute the work day / night, odd hours, Holidays and Sundays. AS PER BRANCH'S CONVENIENCE.</b>
21	<b>Water and Electricity</b>	If contractor is permitted to use SBI source of water & electricity, the SBI will recover @ 0.5% of contract amount from the final bill of contractor. <b>However further distribution &amp; extension &amp; light fixtures etc. With required MCB switches, switch boards, lamp, tube etc. shall be arranged by the contractor at their own cost within the accepted tender amount. <u>Bank will recover 0.5% of the final bill amount towards consumption of water &amp; electricity.</u></b>
22	The tender will be summarily rejected if the Bidder	<ol style="list-style-type: none"> <li>Failed to pay the required tender fee and submit the proof.</li> <li>Failed to submit the original EMD at above office before due date. (or <b>Valid MSME UDHYAM</b>)</li> <li>Failed to upload Entire tender document, which is downloaded from the website as a proof of accepting the terms and conditions.</li> <li>Failed to upload the Scan copy of required documents as mentioned in the documents to be uploaded.</li> <li>Partly or fully Modifies, alters or corrects the tender document uploaded by the Bank.</li> </ol>
23	Tenders can be downloaded from the bank's website <a href="http://www.sbi.co.in">www.sbi.co.in</a> (link)<SBI In the news<Procurement News> or SBI e-Tender Portal <a href="http://www.tenderwizard.in/SBIETENDER">www.tenderwizard.in/SBIETENDER</a> . It shall be responsibility of the contractor to timely submit the technical and financial bid. SBI, in no case shall be responsible for site issues/ delay in tender submission.	
24	The contractor shall read and understand each page of the tender document thereby ensuring the <b>number and sequence of all pages.</b>	
25	No conditions other than mentioned in the tender will be considered, and if given they will have to be withdrawn before submission of final quote, else their bid will be rejected.	
26	Tenders received without EMD and Process Compliance Form shall be summarily rejected and such tenders shall not be allowed to participate in the Price bid process/ rejected/ not considered.	
27	The Bank will place order as per its requirement and quoting minimum rate for any category does not provide any guarantee for receiving order for that item by the firm who quotes lowest rates.	
28	Bank reserves right to cancel any/ all tenders at any stage without assigning any reasons.	
29	The Bank reserves the right to accept the tender in full or in part and the tenderer shall have no claim	
30	In case the date of tendering is declared as a holiday, the tendering will be conducted on the next working day at the same time.	
31	Any clarifications sought after opening of the tenders will not be entertained at any cost. Firm should be visit the website till last date of submission for changes/ corrigendum, if any	

32	SBI reserves the right to accept or reject any or all the tenders, either in whole or in part without assigning any reason(s) for doing so, no claim / correspondence shall be entertained in this regard. For any clarification regarding Tendering procedure, please contact <b>SBI SAO - 5, Navsari - (RBO - 5)</b> , whose address is mentioned in the NIT or Architect NIKUNJ R. SAYANI - NIRMAAN ARCHITECTS AND INTERIOR DESIGNER (M) 9227440370.
33	For any clarification regarding E-Tendering procedure, System requirements etc please contact <b>M/s. Antares Systems Limited, Bangalore</b> , whose address is mentioned in the NIT.
34	It is vendor's/supplier's responsibility to be well prepared and get ready with E-Tendering procedures & well equipped with all requirements. SBI will not take any responsibility of delay in submission <del>due to EMD</del> , slow internet connectivity, system failures etc.
35	<b>ONLY FINAL PAYMENT WILL BE MADE</b>
36	Percentage, if any, to be deducted from bills and total amount to be retained :10 % from Running Bills, subject to maximum Total 5% of contract amount or actual Final Bill value.
37	<b>THE TENDERER HAVE TO PAY ADDITIONAL SECURITY DEPOSIT (ASD) / ADDITIONAL PERFORMANCE GUARANTEE (APG) SHALL BE APPLICABLE IF THE QUOTED BID PRICE AMOUNT IS MORE THAN 10.0% BELOW THAN THE ESTIMATED COST PUT TO THE TENDER. THE ADDITIONAL SECURITY DEPOSIT (ASD) / APG SHALL BE THE DIFFERENCE AMOUNT BETWEEN 90.0% OF ESTIMATED COST AMOUNT AND QUOTED AMOUNT BY THE LOWEST BIDDER AFTER REVERSE AUCTION. THE WORK ORDER IS ISSUED AFTER THE SUBMISSION OF ADDITIONAL SECURITY DEPOSIT SUCCESSFULLY PAID BY THE BIDDER. NO INTEREST IS PAID ON THIS DEPOSIT. AND IT WILL BE RELEASE AFTER 1 YEAR OF SUCCESSFULLY COMPLETION OF THE PROJECT.</b>
38	The 'make' of materials should be chosen strictly from the approved makes as given in the tender. Using of the multi brands for the same item is not permissible. Single brand should be used for entire project. No change of brand will be permitted during the progress of the project
39	<b>Tendered will not allow to remove particular tender items from execution by filling abnormal low rates. if the Tenderers fail to execute the said tender item in required / extra needed quantity or denied to supply the same, the bank will impose the penalty clause.</b>

Yours Faithfully,

(For and on behalf of SBI)

**Assistant General Manager,  
State bank of India, Regional business office (RBO - 5),  
First floor, Shourya apartment, Opp Lunsikui ground,  
Navsari. 396 445**

## FORM OF TENDER

To,  
Assistant General Manager,  
State bank of India, Regional business office (RBO - 5),  
First floor, Shourya apartment, Opp Lunsikui ground,  
Navsari. 396 445

**PROPOSED CIVIL WORKS FOR SBI SATKASHI BRANCH, SAO - 5, NAVSARI at TALUKA :  
SONGADH, DIST : TAPI. PIN - 394365 (GUJARAT).**

Having examined the terms & conditions, drawings, specifications, design 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 and affecting the quotation, I/We hereby offer to execute the works specified in the said memorandum within the time specified in the said memorandum on the item rate basis mentioned in the attached schedule and in accordance in all respect with the specifications, design, drawings and instructions in writing referred to in conditions of Tender, the articles of agreement, conditions of contract and with such conditions so far as they may be applicable.

### MEMORANDUM

(a)	Description of work	Proposed CIVIL works at SBI SATKASHI BRANCH, SAO - 5, NAVSARI at TALUKA : SONGADH, DIST : TAPI. PIN - 394365 (GUJARAT).
(b)	Earnest Money	Rs.25,000/- 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 Nationalized Bank drawn in favour of <b>State Bank of India, payable at NAVSARI. [Those registered with MSME-UDYAM need not submitted EMD. Instead DD, Valid MSME UDHYAM certificate shall be uploaded]</b>
(c)	Percentage, if any, to be deducted from Bills and total amount to be retained	10 % from Running Bills, subject to maximum Total 5% of contract amount or actual Final Bill value.
(d)	Time allowed for completion of work from the date of issue of work order.	45 days from the date of commencement as per tender.

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

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. I/We have deposited a sum of Rs. 25,000/- of the total tender amount as Earnest Money with the State Bank of India which 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/any sum shall be forfeited by me/us to SBI and any suitable action may be taken by the Bank against us.

I/we have deposited Demand Draft / Banker's Cheque / FDR for a sum of **Rs. 25,000/-** as Earnest money deposit with the SBI. Should I/we do fail to execute the contract when called upon to do so, I/we hereby agree that this sum shall be forfeited by me/us to SBI.

**Yours faithfully,**

**Signature of contractor With Seal**

1) Our Bankers are: i)

ii)

The names of partners of our firm are: i)

ii)

Name of the partner of the firm Authorized to sign  
Or

(Name of person having Power of Attorney to sign the Contract.)  
(Certified true copy of the Power of Attorney should be attached)

Yours faithfully,

Signature of Contractors.

Signature and addresses of Witnesses i)

ii)

## SAMPLE BUISNESS RULE DOCUMENT

ONLINE E-TENDERING FOR CIVIL WORK OF  
SBI SATKASHI BRANCH, SAO - 5, NAVSARI.

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

1. Only Bank's empanelled CIVIL WORK 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 Assistant General Manager, State bank of India, Regional business office (RBO - 5), First floor, Shourya apartment, Opp Lunsikui ground, Navsari. 396 445 at the address mentioned hereinbefore by the stipulated date i.e. (1) Demand Draft of specified amount of EMD (NOT APPLICABLE AS PER GOVT. RULES), (2) Process compliance form dully signed. 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. Antares Systems Limited, Bangalore**, has been engaged by SBI an authorized service provider. Please go through the guidelines given below and submit your acceptance to the same along with your Commercial Bid.

E-tendering shall be conducted by SBI through **M/s. Antares Systems Limited, Bangalore**, 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.

1. **M/s. Antares Systems Limited, Bangalore**, shall arrange to train you 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.

2. **BIDDING CURRENCY AND UNIT OF MEASUREMENT:** Bidding will be conducted in Indian currency & Unit of Measurement will be displayed in Online E-tendering.
3. **BID PRICE:** The Bidder has to quote the rate as per the Tender Document provided by SBI their appointed Architects.
4. **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.
5. Procedure of E-tendering:

**i. Online E-tendering:**

- (a) The hard copy of the Technical as well as Price Bid is available on the Bank's website during the period specified in the NIT.
- (b) Online e-tendering is open to the empanelled bidders who receive NIT from the Architect and qualified for participating in the price bidding as provisions mentioned hereinabove through SBI approved Service Provider.
- (c) The Price-Bid shall be made available online by the Service Provider wherein the contractors will be required to fill-in percentage Above/Below over given Estimated amount.
- (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.

**LOG IN NAME & PASSWORD:** Each Bidder is assigned a Unique User Name & Password by **M/s. Antares Systems Limited, Bangalore**, . The Bidders are requested to change the Password after the receipt of initial Password from M/s. **M/s. Antares Systems Limited, Bangalore** ,All bids made from the Login ID given to the bidder will be deemed to have been made by the bidder.

6. **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 L1 Bidder backs out or fail to complete the work **as per the rates quoted**, SBI shall have the liberty to take action as deemed necessary including de-paneling such contractors and forfeiting their EMD and imposing heavy penalty to contractor to recover the losses occurred to the Bank.

7. At the end of the E-tendering, SBI will decide upon the successful bidder. SBI decision on award of Contract shall be final and binding on all the Bidders.
8. SBI shall be at liberty to cancel the E-tendering process/tender at anytime, before ordering, without assigning any reason.
9. SBI shall not have any liability to bidders for any interruption or delay in access to the site irrespective of the cause.
10. Other terms and conditions shall be as per your techno-commercial offers and other correspondences till date.

11. OTHER TERMS & CONDITIONS:

- 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. Antares Systems Limited, Bangalore** 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 **M/s. Antares Systems Limited, Bangalore** is not responsible for any damages, including damages that result from, but are not limited to negligence.
- SBI or its authorized service M/s. **M/s. Antares Systems Limited, Bangalore** 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. Antares Systems Limited, Bangalore**.
- **All the bidders are requested to ensure that they have a valid digital signature certificate well in advance to participate in the online event.**



## PROCESS COMPLIANCE STATEMENT (ANNEXURE II)

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

To,

**M/s. Antares Systems Limited, Bangalore,**

#24,3rd Stage, 4th Block, Basveshwaranagar, Bangalore- 560079, India

E-mail :[kushal.b@anataressystems.com](mailto:kushal.b@anataressystems.com)

Contact No.- 91 - 9674758719, 9674758720

### AGREEMENT TO THE PROCESS RELATED TERMS AND CONDITIONS FOR THE ONLINE E-TENDERING FOR PROPOSED CIVIL WORK OF SBI SATKASHI BRANCH, SAO - 5, NAVSARI.

Dear Sir,

This has reference to the Terms & Conditions for the E-tendering 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 E-tendering 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 E-tendering tool and have understood the functionality of the same thoroughly.
- 4) We confirm that SBI **M/s. Antares Systems Limited, Bangalore** shall not be liable & responsible in any manner whatsoever for my/our failure to access & bid on the e-E-tendering 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- tendering event.
- 5) We confirm that we have a valid digital signature certificate issued by a valid Certifying Authority.
- 6) We, hereby confirm that we will honor the Bids placed by us during the E-tendering 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 -----

(On Non -Judicial Stamp paper of appropriate value)

### ARTICLES OF AGREEMENT

ARTICLES OF AGREEMENT made the \_\_\_\_\_ date of \_\_\_\_\_ between (SBI,) Assistant General Manager, State bank of India, Regional business office (RBO - 5), First floor, Shourya apartment, Opp Lunsikui ground, Navsari. 396 445, hereinafter called the Bank which expressions shall include its successors and assigns of the one part and \_\_\_\_\_ (name & address of contractor) \_\_\_\_\_ hereinafter called the “Contractor” which expression shall include the successors and assigns of the other part. WHEREAS the SBI is desirous of CIVIL and allied work for STATE BANK OF INDIA, of SBI SATKASHI BRANCH, AT TALUKA : SONGADH, DIST : TAPI. PIN - 394365 (GUJARAT). and has caused drawings and specifications describing the work to be done to be prepared by **Ar. Nikunj R. Sayani - Nirmaan Architects & Interior Designer**, its Architects.

AND WHERE AS 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 our 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 they said Contract Amount, or such other sum as shall become payable, at the times and in the manner specified in the said Conditions.

The term “the Architects” in the said Conditions shall mean the **Ar. NIKUNJ R. SAYANI**, 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 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.

- 3) 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.

- 4) The Plans, Agreements and Documents mentioned herein shall form the basis of this Contract.
- 5) 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.
- 6) 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.
- 7) The SBI 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.
- 8) 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 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 **45 days** subject to nevertheless the provisions for extension of time.
- 9) All payments by the SBI under this contract will be made only at NAVSARI.
- 10) All disputes arising out of or in any way connected with this agreement shall be deemed to have arisen at Ahmedabad and only the courts in Ahmedabad shall have jurisdiction to determine the same.
- 11) That the several parts of this Contract have been read by the Contractor and fully understood by the Contractor.

IN WITNESS WHERE OF THE SBI 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 \_\_\_\_\_ (If the Contractor is a Partnership Firm or an individual, should be signed by all partners or by duly authorized person on behalf of all partners)

(1) \_\_\_\_\_  
Address \_\_\_\_\_

(2) \_\_\_\_\_  
Address \_\_\_\_\_

(Witness)

THE COMMON SEAL OF \_\_\_\_\_ was here into affixed pursuant to the resolution By Board of Directors at the Meeting held on \_\_\_\_\_ ( If the Contractor signs under its common seal, the Signature Clause should tally with the sealing clause in the Articles of Association)

SIGNED AND DELIVERED by

(1) \_\_\_\_\_

(2) \_\_\_\_\_

1) \_\_\_\_\_  
Address \_\_\_\_\_

(2) \_\_\_\_\_  
Address \_\_\_\_\_

(Witness)

SIGNED AND DELIVERED by \_\_\_\_\_ (If the Contractor has signed by the hand of Power of Attorney, whether a Company or Individual)

(1) \_\_\_\_\_  
Address \_\_\_\_\_

(2) \_\_\_\_\_  
Address \_\_\_\_\_

(Witness)

**SCHEDULE**

- (i) Letter of Acceptance/Work Order No. \_\_\_\_\_ date \_\_\_\_\_
- (ii) Your letter Nos \_\_\_\_\_ date. \_\_\_\_\_
- (iii) Our Letter Nos . \_\_\_\_\_ date. \_\_\_\_\_
- (iv) Architect's Letter nos. \_\_\_\_\_ date. \_\_\_\_\_
- (v) Minutes of Meeting date \_\_\_\_\_
- (vi) Form of Tender, Notice Inviting Tender, Instructions to Tenderer, General Conditions of Contract, Special Conditions of Contract, Additional Specifications, Technical Specifications, Bill/ Schedule of Quantities , Safety Code, List of approved makes, Guarantee Agreements, Mode of Measurements, Appendices, Drawings, Testing of Materials & there Frequency etc.
- (vii) \_\_\_\_\_
- (viii) \_\_\_\_\_



|| nirmaan ||



ARCHITECTS - INTERIOR DESIGNER - PROJECT CONSULTANT

## **INSTRUCTIONS TO THE TENDERERS**

### **1.0 Scope of Work**

Sealed tenders are invited by *the Assistant General Manager, State bank of India, Regional business office (RBO - 5), First floor, Shourya apartment, Opp Lunsikui ground, Navsari. 396 445* for and on behalf of State Bank of India for the work of: **CIVIL WORK of SBI SATKASHI BRANCH, SAO - 5, NAVSARI for State Bank of India**

### **1.1 Site and its location:**

The proposed work is to be carried out at **SBI SATKASHI BRANCH AT TALUKA : SONGADH, DIST : TAPI. PIN - 394365 (GUJARAT).**

### **2.0 Tender Documents**

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

**Instructions to tenderers**

**General Conditions of Contract**

**Special Condition of Contract**

**Additional conditions**

**Technical Specifications**

**Drawings**

**Price Bid**

**NIT**

**Performance Guarantee Agreement**

#### **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) NIT, corrigenda and addenda
- (c) Additional Conditions
- (d) Technical Specifications
- (e) Drawings
- (f) Special Condition of Contract
- (g) General Condition of Contract
- (h) Instructions to Tenderers

#### **2.3** Complete set of tender documents including relative drawings can be obtained in person from the office of the Architects on any day during office hours except holidays during the period mentioned in the NIT on payment by means of cash/ Cheque/ DD/ drawn in favor of the architects

#### **2.4** Complete set of tender documents including relative drawings can be downloaded from the website [www.sbi.co.in](http://www.sbi.co.in)

#### **2.5** The tender documents are not transferable.

### **3.0 Site Visit**

#### **3.1** The tenderer must obtain himself on his own responsibility and his own expenses all information and data which 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 to satisfy himself regarding the availability of water, power, transport and communication facilities, the character quality and quantity of the materials, labor, the law and order situations, 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 CLARIFICATION /AMENDMENTS AND CORRIGENDUM:**

- 4.1 Bidder requiring any clarification of the bidding document may notify us in writing at the address/by e-mail given in the NIT within the date/time mentioned.
- 4.2 The clarifications to the queries received or amendments in the tender will be posted on the Bank's website and e-tender portal as a corrigendum/Addendum. No individual communication will be conveyed to the Bidders. The interested parties/Bidders are advised to check the above website regularly till the date of submission of Bid document and ensure that clarifications / amendments issued, if any, have been taken into consideration before submitting the Bid. Such amendments/clarifications, if any, issued by the Bank will be binding on the participating Bidders. Bank will not take any responsibility for any such omissions by the Bidder. Bank at its own discretion, may extend the deadline for submission of Bids in order to allow prospective Bidders a reasonable time to prepare the Bid, for taking the amendment into account.
- 4.3 Depending upon the site conditions and the Bank's requirements, a pre-Bid meeting, if required, will be held on the date and time specified in the tender which may be attended by the interested Bidders or their representatives and get their queries clarified.
- 4.4 Bank reserves the right to amend, rescind or reissue the tender, at any time prior to the deadline for submission of Bids.
- 4.5 No request for change in commercial/legal terms and conditions, other than what has been mentioned in the tender or any addenda/corrigenda or clarifications issued in connection thereto, will be entertained and queries in this regard, therefore will not be entertained.
- 4.6 Queries received after the scheduled date and time will not be responded/acted upon.

#### **5.0 Earnest Money**

- 5.1 The tenderer are requested to submit the Earnest Money as mentioned in NIT
- 5.2 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.
- 5.3 No interest will be paid on the EMD
- 5.4 EMD of unsuccessful tenderer will be refunded within 30 days of award of contract.
- 5.5 EMD of successful tenderer will be retained as a part of security deposit.

#### **6.0 Initial Security Deposit (ISD)**

The successful tenderer will have to submit a sum equivalent to 2% of contract value less EMD by means of DD drawn in favor of State Bank of India within a period of 15 days of acceptance of tender.

#### **7.0 Security Deposit (TSD)**

- 7.1 Total Security Deposit shall be 5% of contract value, out of this 2% of contract value is in the form of initial security deposit which includes the EMD. Balance 3% shall be deducted from the running 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 3% of contract value is reached. 50% of the total security shall be paid to the contractors 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.
- 7.2 No interest shall be paid on the amount retained by the Bank as Security Deposit.

#### **Signing of contract documents**

The successful tenderer shall be bound to implement the contract by signing agreement and conditions of contract attached herewith within 30 days from the receipt of intimation of acceptance of his tender by the Bank. However, the written acceptance of the tender 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 BID SUBMISSION

- 8.1 Only those bidders satisfying the eligibility criteria given in the NIT need to apply. Tenders should be submitted online in the website <https://etender.sbi>. **Bidder should log into the site well in advance for bid submission so that he/she upload the bid in time i.e. on or before the bid submission time. The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission. Bidder will be responsible for any delay due to other issues.**
- 8.2 The bidders should submit their bids online with their valid digital certificate, which confirms that the bidders have read and understood the tender terms and conditions. Claiming ignorance of all the terms and conditions in this tender either before or after the PO is issued or during the progress of the work will not be accepted.
- 8.3 The bidder shall submit the documents enlisted in the checklist in the NIT in the softcopy format. i.e. scanned copy of the documents either in PDF or JPEG format as required. The BANK will not be held responsible for any sort of delay or the difficulties faced during the submission of bids online by the bidders. The bidder should see that the bid documents submitted should be free from virus and if the documents could not be opened, due to virus, during tender opening, the bid is liable to be rejected.
- 8.4 The documents submitted online in the **Technical Bid should NOT contain any price information**. Such Bid, if received, will be rejected.
- 8.5 The bidder shall submit his quotes online through the PRICE BID in the e-procurement portal. The price bid will be opened only if the Bid is unconditional and the bidder qualifies as per eligibility criteria and meets technical specifications.
- 8.6 Bank shall conduct e-reverse auction among the qualified bidders and the same shall be communicated to the bidders.( If required)
- 8.7 No claim for submission of offline bids will be entertained. Such bids will not be considered. If any Bidder submits Bid on behalf of an OEM / brand, the same Bidder shall not submit a Bid on behalf of another OEM / brand.

## 9.0 PRICE BID: RATES QUOTED BY BIDDER

- 9.1 The contractor shall satisfy himself before Bidding as to the correctness and sufficiency of his Bid for the works and the rates/ amounts stated in the schedule of quantities and / or the schedule of rates and amount as provided covering all his obligations under the contract and all matters necessary for proper completion of the works expected in this document.
- 9.2 The rate quoted shall be firm and shall include costs of all materials, loading, transport, unloading, Installation charges, wastage of materials during execution, levies, Octroi(if applicable), local body taxes(if applicable), all type of Insurance Charges, temporary works such as scaffolding, cleaning, overheads, profit, statutory expenses, incidental charges and all related expenses to complete the work etc..
- 9.3 Unless otherwise provided in the Schedule of Quantities/Specifications, the rates tendered by the contractor shall be all inclusive and shall apply to all heights, lifts, leads and depths of the work and No extra charges will be paid over and above the contract amount on account of any other charges (existing or future addition) or on any other account.
- 9.4 The GST shall be paid extra as applicable.
- 9.5 Rate Revision in the contract amount is not permitted during the validity period of the contract for any reason including during the extended period, if any.
- 9.6 Any request for review of the price bid after the bid opening will not be entertained.
- 9.7 The Bidder shall quote their offers he will be willing to execute the work, in terms of "Specific Percentage Numerical Value" (only up to two decimal places) above (+) / below(-) / at par with the total

estimated cost put to bid. The same percentage offer is applicable for each and every item of the work including all sections/sub sections /sub heads of the work.

#### **10.0 Signing of contract documents**

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

#### **11.0 Completion period**

Time is essence of the contract. The work should be completed in all respects in accordance with the terms of contract within a period as specified in the NIT from the date of handing over of site or from the date of Letter of Acceptance whichever is later.

#### **12.0 Validity of tender : As per NIT**

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

#### **13.0 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 each Running Bill for the project clearing showing major progress of work measured and claimed therein failing which the Architect/ SBI may consider returning the Bill to the contractor and no claim for delay on this account will be entertained.

#### **14.0 Liquidated Damages**

The liquidated damages shall be as mentioned in the NIT.

#### **15.0 Rate and prices:**

##### **15.1 In case of item rate tender**

15.1.1 The tenderers shall quote their rates for individual items both in words and figures. In case of discrepancy between the rate quoted in words and figures the unit rate quoted in words will prevail. If no rate is quoted for a particular item the contractor shall not be paid for that item when it is executed. The amount of each item shall be calculated and the requisite total is given. In case of discrepancy between the unit rate and total amount calculated from multiplication of unit rate and the quantity, the unit rate quoted will govern and the amount will be corrected.

15.1.2 The tenderers need not quote their rates for which no quantities have been given. In case the tenderer quote their rates for such items those will be ignored and will not be considered during execution.

15.1.3 The tenderers should not change the units as specified in the tender. If any unit is changed the tenders would be evaluated as per the original unit and the contractor would be paid accordingly.

The tenderers should not change or modify or delete the description of the item. If any discrepancy is observed he should immediately bring to the knowledge of the Architect/ Bank.

- 15.1.4 Each page of the BOQ shall be signed by the authorized person and cutting or overwriting shall be duly attested by him
- 15.1.5 Each page shall be totaled and the grand total shall be given.
- 15.1.6 The rate quoted shall be firm and shall include all costs, allowances, taxes, levies etc.

**16.0 Penalty clause for abnormal rates:**

Tenderer must quote the rates with clear mind that all the items described in price bid will be executed on site. if the tenderer will quote the rate of any tender item below 75% of the estimated rate, The bank will take a undertaking for particular tender item. And Tendered will not allow to remove particular tender items from execution. if the Tenderers fail to execute the said tender item in required quantity or denied to supply, the bank will impose the penalty by deducting estimated rate amount for non / lesser execution for the said item.

**17.0 Signing of the contract:**

- 17.1 The successful Tenderer shall be required to execute an agreement in the Performa attached with this tender document within 7 days from the date of receipt of the notice of acceptance of tender. In the event of failure on the part of the successful Tenderer to sign the agreement within the above-stipulated period. The reserves the right to forfeit the earnest money/ security deposit and cancel the contract. Until the Agreement is formally signed, the Work Order / Letter of Acceptance of Tender issued to the successful Tenderer and accepted by him shall be operative and binding on the SBI and the Contractor.
- 17.2 On acceptance of the tender, the name of the accredited representatives of the Tenderer who would be responsible for taking instructions from the SBI shall be mentioned by the Tenderer.
- 17.3 The SBI reserves the right to reproduce partly or fully the items executed on site anywhere in the country premises and no copyright claims shall be made by any contractor of any description from the SBI.
- 17.4 The SBI has the right to delete items, reduce or increase the scope of work without the contractor claiming any compensation for the reduction in the scope of work. I / We hereby declare that I / We have read and understood the above instructions for the guidance of the Tenderers
- 17.5 **The rate quoted shall be firm and shall include all costs, allowances, materials, labours, taxes etc. except G.S.T, which shall be payable / reimbursed at actual**
- 17.6 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 within its sole discretion without assigning any reason(s) for doing so and no claim / correspondence shall be entertained in this regard.

**SIGNATURE OF THE CONTRACTOR WITH SEAL**

## GENERAL & IMPORTANT NOTES

### 1 GENERAL NOTES:

- (i) ~~Unless otherwise~~ specified in these tender documents mode of measurements specifications etc. shall be as per relevant IS codes.
- (ii) Source of materials / samples / brands / makes etc. shall be got approved from the Architects / Bank before using. In case of deviations, decision of the Bank shall be final and binding and shall not be open for arbitration.
- (iii) The Architects have their specific role / duties / rights as defined in these tender documents. However, in the event of any dispute arising out of differences between the opinions of the Architects and also their role/ duties/rights, the Banks' decision shall be final & binding on the Architects and the Contractor and shall not be open to arbitration.
- (vi) The Contractor will extend full co-operation, support and all required assistance to Architect / Bank for discharging their duties and responsibilities efficiently and effectively.
- (vii) The contractor has to supply and adhere to the specific makes and specifications of all the items, which are mentioned in the separate list of approved makes. Any work found not as per the tender specifications and list of approved the contractor has to replace the same without any delay. The contractor is instructed of get approval of all the materials to be used on this site before starting the work. He should provide different sample of material for approval, before execution of work.**
- (viii) All quantities indicated in the tender are approximate & are likely to change. The contractor must take actual measurement at site and billing shall be done as per the actual measurement of the work done at site.
- (ix) Work has to be got executed at site in coordination with various agencies working at site.
- (x) The contractor is instructed to get the approval of the materials to be used on this site before starting the work. He shall provide different sample of materials for approval before execution of the work
- (xi) All material has to be used in full size/length only. Joints should be avoided as far as possible.
- (xii) ~~Any item mentioned in the BOQ with "TO THE SHAPE" will have measurement of onsite executed to the shape area only.~~
- (xiii) Making various levels & line out for total layout on site for the items in scope of the work shall be done by the contractor at his own cost.
- (xiv) MTC (Manufacturer Test certificate) Where ever applicable shall be arranged & submitted by the contractor. Testing of wood for moisture, knot % etc. shall be carried out by the contractor at his own cost.

### 2. IMPORTANT NOTES:

- (i) The contractor's qualified & authorized representative shall remain on site during the entire**

execution process for coordination with various agencies / Architect / Bank & execution of work.

- (ii) If the assigned work is in running/working Branch, the contractor should have executed the site erection work in odd hours, Holidays and Sundays.
- (iii) The contractor can prepare certain loose furniture items at his workshop only with prior permission of Architect / Bank officials. (without final finish on it) & deliver the same to the site at appropriate time as instructed by the Architect/BMs/Bank Officials. The contractor must submit the progress photographs with materials bills at the time of the delivery of the unfinished furniture items to the Architect / Bank officials.
- (iv) The loose furniture items which was prepared at his workshop must be deliver without final finish of laminate / veneer on it. The agency can finalize the final finishing of the furniture at site after inspection & written permission of satisfactory quality materials used in that furniture units by architect in charge / bank officials. If the permission not taken before final finish than it must be not paid.
- (v) The contractor can arrange a workshop visit for architect in charge / bank officials for furniture inspection with prior appointment. But all the expenses towards this visit will be paid by contractor only. (transportation + TA + DA)
- (vi) The site shall be cleaned on day-to-day basis & all debris shall be disposed away at the location beyond the limit as approved by the local authority.
- (v) Hidden measurements: - It is contractor's responsibility to get the measurement checked immediately on completion of such items. This shall be done before finishing the same The Architect shall be provided with such details well in advance so that the other work is not held up due to last moment action.
- (vi) Before starting the work at site, the contractor shall mark out the plan & levels of the false ceiling, partitions etc. in coordination with other agencies on site.
- vii) The rates quoted shall be inclusive of all taxes, Duties, Octroi, Transportation, Delivery, Installation, Testing, Commissioning etc. complete at the site. No extra will be paid for any kind of taxes. However, the GST will be paid extra as applicable as per actual.
- viii) The entire job shall be executed in total coordination with the other agencies working on the project & also with landlord, Branch Manager and Bank officials etc.
- ix) Architect of the project shall be kept informed about the progress of the work at various stages.
- x) The contractor shall arrange on his own for lighting & plug point with socket & electrical wiring, DB's etc. required during entire execution process. However, supply at point shall be provided by the bank / landlord
- (xi) Any Hidden item MUST be photographed and need to be sent via e- mail or CD to Architect / Bank
- xii) **BILLING PROCESS:**

The contractor/Architect should take care of the following while submitting the final Bill

The Final Bill Should Contain: -

- a) Abstract in tender BOQ format only.
- b) Schedules for detailed measurement sheet for all items (in detailed break up).
- c) original insurance policies as per tender terms and conditions.
- d) Completion certificate issued by the concerned Architect.
- e) Inspection & completion certificates for all types of false ceiling.
- f) ~~Test report for Toughened Glass.~~
- g) Copy of LOA etc.
- h) All documents shall carry contractor's signature & seal with address. - All documents shall be submitted in 1 + 1 copies.
- i) The contractor shall also provide all measurement sheet in soft copy (in Excel format).
- j) The contractor shall submit the purchase bill copy of major items used in the project.
- k) That extension of time, if any, beyond scheduled date of completion has been granted by the Competent Authority.
- l) original receipt of purchase of Corian/plywood/Gypboard and other major materials used in the work from the original manufacturer/authorized dealers/distributors.
- m) If any advances paid during the execution of the work.
- n) Acceptances form the contractor that "Accepted as full and final settlement of all claims"
- o) The total cost of work should be within the sanction amount, if not, revised sanction taken from the Competent Authority to be attached with the Final Bill

**IMPORTANT: ALL DOCUMENTS SHALL BE SUBMITTED AT ONCE (NOT IN PIECEMEAL MANNER) ALONG WITH FULL&FINAL BILL &SHALL BE DULY SIGNED BY PUTTING COMPANY'S ADDRESS SEAL**

## GENERAL CONDITIONS OF CONTRACT

### 1.0 Definitions:-

“Contract means the documents forming the tender and the acceptance thereof and the formal agreement executed between SBI . (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.

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

‘SBI’ shall mean SBI having its Assistant General Manager, State bank of India, Regional business office (RBO - 5), First floor, Shourya apartment, Opp Lunsikui ground, Navsari. 396 445 and includes the client’s representatives, successors and assigns.

1.0.1 ‘Architects/ Consultants’ shall mean Ar. Nikunj R. Sayani - Nirmaan Architects & Interior Designer, SURAT.

1.0.2 ‘Site Engineer’ shall mean an Engineer appointed by the Contractor at site as their representative for day-to-day supervision of work and to give information to the bank / architect in charge.

1.0.3 ‘The Contractor’ shall mean the individual or firm or company whether incorporate 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.

1.0.4 ‘Engineer (in charge)’ shall mean the representative of the Architect/consultant /SBI.

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

1.0.6 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.

1.0.7 “Month” means calendar month.

1.0.8 “Week” means seven consecutive days.

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

“SBI Engineer” shall mean The Civil/Electrical Engineer in-charge of the Project, as nominated by the Assistant General Manager, State bank of India, Regional business office (RBO - 5), First floor, Shourya apartment, Opp Lunsikui ground, Navsari. 396 445

**1.1.11 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) RM – RBO-5, NAVSARI of SBI
- ii) SBI Engineer (Civil and Electrical) in-charge of the Project
- iii) Concerned partner of the Architects and their consultant / Resident Architect Member.
- iv) Engineer in charge from architect's office.

## **CLAUSE**

### **1.0 Total Security Deposit**

Total Security deposit comprise of Earnest Money Deposit, Initial security deposit and Retention Money

#### **1.1 Earnest Money Deposit-**

The tenderer shall furnish EMD of as specified in the NIT in the form of Demand draft drawn in favor of the State Bank of India. Payable at **NAVSARI**, 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.

#### **1.2 Initial Security Deposit (ISD)**

The amount of ISD shall be **2%** of accepted value of tender in the form of DD/Fixed Deposit Receipt (FDR) drawn on any scheduled Bank and shall be deposited within 15 days from the date of acceptance of tender.

#### **1.3 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 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 carry out 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 SBI from time to time issue further drawings and / or write instructions, details directions and explanations which 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- execution of any work executed by him. The dismissal from the work of any person engaged the re upon.

### **5.0**

#### **i) Letter of Acceptance:**

Within the validity period of the tender the SBI 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 there with and the contractor prepare a detailed programmed 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

### **8.0 Copies of agreement:**

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

### **9.0 Liquidated damages:**

If the contractor fails to maintain the required progress in terms of clause 6.0 of GOC 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.

### **10.0 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 behavior is found to be unsatisfactory by the SBI /Architect/ consultant he shall be removed from the site immediately.

### **11.0 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 the reform and shall indemnify the SBI any legal actions arising there from.

### **12.0 Setting out Work:**

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

### **13.0 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 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

### **14.0 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.

### **15.0 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 the contract or any part or share there of 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.

### **16.0 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, labor, and materials as are normally required for examining measuring sampling and testing any material or part of work before in corporation 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.

**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 particularized, 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.

**17.0 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 fulfillment of contract.

**18.0 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 hereto.

**19.0 Quantities:**

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.

**20.0 Works to be measured:**

The Architect/Consultant may from time to time intimate to the contractor that he requires 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 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 authorized 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.

### **21.0 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 maybe.

### **22.0 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.

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

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.

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.

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.

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.

### **23.0 Final measurement:**

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

### **24.0 Virtual Completion Certificate (VCC):**

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:

Clear the site of all scaffolding, wiring, pipes, surplus materials, contractor's labour equipment and machinery.

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.

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

Shall put the SBI in undisputed custody and possession of the site and all land allot by the SBI

Shall hand over the work in a peaceful manner to the SBI

All defects / imperfections have been attended and rectified as pointed out by the Architects to the full satisfaction of SBI

Upon the satisfactory fulfillment 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 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 SBI against the contractor in respect of or work at the site and in respect of which the VCC has been issued.

### **25.0 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 contract which it 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.

## **26.0 Insurance of works:**

**26.1** 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 I clause of GCC 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.

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.

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.

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.

## **26.2 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:

- 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.

### **26.3 Contractor to indemnify SBI:**

The contractor shall indemnify the SBI against all claims, proceedings, damages, costs, charges and expenses in respect of the matters referred to in the provision sub-clause 26.0 of this clause.

### **26.4 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 to 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.

### **26.5 Third Party Insurance:**

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

#### **26.5.2 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.

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.

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

The SBI Shall not be liable for or in respect to 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.

### **28.0 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 insured 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 /consultant when such policy of insurance and the receipt for the payment of the current premium.

**29.0 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.

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.

**30.0 Commencement of Works:**

The date of commencement of the work will be reckoned from the date of award of letter by the SBI

**31.0 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 **30 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.

**32.0 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 an', 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 10.0 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.

**33.0 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 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 the re upon 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.

**34.0 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 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.

**35.0 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 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 fore closure 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.

### **36.0 Suspension of work:**

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 the offer such time and in such 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 the extent necessary and carry out the instructions given in that behalf by the Architect / consultant.

i) 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.

### **37.0 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:

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.

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.

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 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 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 incase 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 thereto 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.

**38.0 Owner's right to terminate the contract:**

If the contractor being an individual or a firm commit any 'Act of insolvency' or shall be adjusted 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 give 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:

has abandoned the contract; or

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

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, tools 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.

### **39.0 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 SBI shall recover the 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 Measurement books.

The Contractor shall not submit interim bills when the approximate value of work done by him is less than **Rs. NIL**

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.

### **40.0**

#### **A. 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:

i) If the contractor consider 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 concerned Assistant General Manager, 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 Assistant General Manager, 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 Assistant General Manager, in writing in the manner and within the time aforesaid.

ii) The Assistant General Manager, 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 Assistant General Manager submit his claims to the conciliating authority namely the DGM (B&O) for conciliation along with all detail and copies of correspondence exchanged between him and the Assistant General Manager.

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 failing 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 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 left 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 statutory modification or reenactment thereof and the rules made there under.

It is also a term of this 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 this 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 arbitrator shall, if required to be paid before

the award is made and published, be paid half and half by each of 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.

#### **41.0 ROLE OF ARCHITECT / CONSULTANT**

41.1. Architect/Consultant's duties are to design, control and supervise the works and to test any materials to be used or workmanship employed in connection with the works, quality control, project scheduling and monitoring and co-coordinating with all other agencies and Civil Contractor, checking of measurements, certification of bills, preparing extra deviation items, preparing minutes of meetings etc.

41.2 Wherever it is mandatory by law that the Architect / Consultant so appointed by the Bank shall be registered with the council of architecture/Competent Authority.

41.3 The Contractor shall afford the Architect/Consultant every facility and assistance for examining the works and materials and checking and measuring time and materials. The Architect/Consultant shall have no power to revoke, alter, enlarge, or relax any requirements of this Contract, or to sanction any day-work, additions, alterations, deviations or omissions unless such an authority may be specially confirmed by a written order of the Bank.

41.4 The Architect/Consultant shall act in consultation with the Bank regarding quality of works, interpretation of drawings, contract documents and finalize the selection of finishing materials. The Architect/Consultant shall check/ record the measurements made by Contractor's representative for all items of works and on completion hand over the records to the Bank.

41.5 The Architect/Consultant shall have the power to give notice to the Contractor or his Engineer In charge about the non-approval of any work or materials and such works shall be suspended or the use of such materials should be discontinued until the decision of the Architect / Consultant in consultation with Bank if required is obtained. The work will from time to time be visited by the Architect/Consultant / Bank but such examination shall not in any way exonerate the Contractor from the obligation to remedy any defects which may be found to exist at any stage of the work or after the same is completed. Subject to the limitations of this clause, the Contractor shall take instructions only from the Architect / Consultant as the case may be. In other words the contractors shall take total responsibility for the execution of work / items of work by using quality materials and providing best of workmanship to fulfill the true intent of the tender provision.

41.6 The Architect/Consultant shall have such other powers and discharge other functions as are specifically provided in this contract including such incidental or consequential powers or duties, subject always to such specific instructions or directions of the Bank, which shall be duly notified to the Contractor.

41.7 The Architect / consultant shall have right to take remuneration loss from the contractor's bill due to non working / completing work in time, & loss due to not clearance the site for other agencies in time. This amount has been deducted from contractor's final bill.

#### **46.0 To define terms and explain plans**

The various parts of the Contract are intended to be complementary to one another; but should any discrepancy appear, or any misunderstanding arise as to the import of anything contained therein, the explanations of the Architect/Consultant shall be final and binding. The correction of any errors or omissions of the Drawings and Specifications may be made by the Architect/Consultant, when such correction is necessary to bring out clearly the intention, which is indicated by a reasonable interpretation of the drawings & Specifications as a whole.

**47.0 Matters to be finally determined by the Architect / Consultant:**

40.1 The Architect/Consultant’s decision, opinion, direction, Certificates (except for payments) with respect to all or any of the matter under clauses explained above in condition of contract and the schedule of rates, hereof shall be final and conclusive and binding on the parties here to and shall be without appeal. Bank’s instructions (if any), in this regard in case of any urgency, shall also be confirmed / vetted by the Architect/Consultant at the earliest possible.

40.2 Any of the decision, opinion, direction certificate, or valuation of the Architect or any refusal of the Architect to give any of the same shall be subject to the right of Arbitration and review in the same way in all respect (including the provision as to opening the reference) as if it were a decision of the Architect under the following clause.

**48.0 Typographical or clerical errors:**

The Architect/Consultant’s clarifications regarding partially omitted particulars or Typographical or clerical errors shall be final and binding on the Contractor.

**49.0 Site visits:**

The Architect/Consultant /Bank shall visit the site from time to time at their discretion, or when expressly called upon to do so, to co-ordinate various activities and/or to answer such queries that may be posed at site as on drawings.

**50.0 Address for service**

All letters and Notices under or pursuant to these presents shall be hand delivered against acknowledgement or sent by Registered Post with Acknowledgement Due at the respective addresses mentioned below. Any change in the addresses shall be duly intimated by the concerned Party to all others.

<b>Address of Bank:</b>	<b>Name &amp; Address of Architect/Consultant</b>
Assistant General Manager, State bank of India, Regional business office (RBO - 5), First floor, Shourya apartment, Opp Lunsikui ground, Navsari. 396 445	Nirmaan Architects & Interior Designer, C – 610, International Trade Center, (ITC) Beside Vishwakarma temple, Ring road, Majuragate, Surat. - 395 002. (Gujarat) Tel:0261:4001070, 2470770, 92274 40370

**51.0 Water supply:**

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

The rate quoted in the tender shall include the expenses for obtaining and maintaining power connections and shall pay for the consumption charges

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.

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.

In case contractor is permitted to use Bank's source of water and power supply provided at one point, the SBI will recover @ 0.50% of final bill amount for water and electricity (combined) from the bill of contractor.

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 Architect / consultant is unsatisfactory.
- iii) In case contractor is permitted to use SBI source of water i.e. Municipal connection, Bore well (existing or new) etc., the SBI will recover as per NIT of this document from the final bill of contractor.

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.

#### **52.0 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.

52.1 The bank will not provide / make availability of lift / other means for transportation of goods / workers for floor to floor. The contractor has to arrange his own mean of transportation for this purpose with society's permission. Contractor can avail lift facility by paying society charges if available. Any security deposit / any other charges is levied by society for this purpose, the contractor has to pay it by himself. Bank will not pay any charges for it / take any responsibilities regarding this issue. If bank will get any complaint regarding using common areas / utilities without society's permission the bank will take actions on contractor for it. And if the bank has to pay any amount to society as aforesaid from any amount due or which may become due to the contractor, it will be recover the same as debt from the contractor. The contractor has to produce N.O.C from the society for payment of final bill.

In case contractor is permitted to use Bank's source of power supply provided at one point, the SBI will recover as per NIT of this document from the final bill of contractor.

### **53.0 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.

### **54.0 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 corrector.

### **55.0 Maintenance of registers:**

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

### **56.0 Force Majeure:**

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.

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.

From the date of occurrence of a case off or force majeure obligations of the party affected.

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 cause it and inability resulting there from having been removed, the agreed time of completion of the respective obligations under this agreement shall stand extended by a period equal to the period of delay occasioned by such events.

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

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

The contractor shall strictly adhere to all prevailing labor laws inclusive of contract labor (regulation and abolition act of 1970) and other safety regulation. The contractor shall comply with the provision of all labor legislation including the latest requirements of all the Acts, Laws, any other regulations 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 labor 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.

#### **58.0 Accidents:**

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

**59.0** During the execution of work, if any damage shall occur to the works already done, either due to rain or any other circumstances, the same shall be rectified and made good to the entire satisfaction of the Architect/Consultant by the contractor at his costs and risks.

**60.0** Testing of Material's etc.: The contractor at his own cost (without any extra cost to the Bank) shall arrange for the laboratory and/or field testing of materials and works as required by the architects/Bank.

#### **61.0 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 each Running Bill for the project clearing showing major progress of work measured and claimed therein failing which the Architect/ SBI may consider returning the Bill to the contractor and no claim for delay on this account will be entertained.

## **62.0 Compliance to Bank's/legal norms**

### **62.1 Notices**

a) The Contractor shall give all notices and pay all fees and shall comply with all Acts and Regulations for the successful completion of the Contract works.

### **62.2 Authorities, notices, patents, rights & royalties**

The Contractor shall conform to the provisions of all the statutes relating to the works, and to the Regulations and bye laws of any local Authority, and of any Water, Lighting, Electric supply, and of other Companies or Authorities with whose systems the structure is proposed to be connected, and shall before making any variation from the drawings or specifications that may be necessitated by so confirming, give to the Architect/Consultant written notice, specifying the variations proposed to be made and the reason for making it, and apply for instruction thereon. In case the Contractor shall not within 120 days receive such instructions, he shall proceed with the work conforming to the provision or Regulations or Byelaws in question.

- a) The Contractor shall bring to the attention of the Architect / Consultant all notices required by the said Acts, Regulations or Bye-laws to be given to any Authority by the Bank or the Architect/Consultant and pay to such Authority, or to any public Officer, all fees that may be properly chargeable in respect of the works, and lodge the receipts with the Architect/Consultant.
- b) The Contractor shall indemnify the Bank against all claims in respect of patent rights, design, trademarks of name or other protected rights in respect of any constructional site, machine work or material used for or in connection with the works or temporary works and against all claims, demands, proceedings, damages, costs, charges and expenses whatsoever in respect thereof or in relation thereto. The Contractor shall defend all actions arising from such claims, unless he has informed the Architect / Consultant before any such infringement and received their permission to proceed, and shall himself pay all royalties, license fees, damages, costs and charges of all and every sort that may be legally incurred in respect thereof. All statutory fees, deposits etc paid by the contractor for permanent works to be handed over to Bank which shall be reimbursed to him by the Bank against documentary proof.
- c) The Contractor shall assist and co-ordinate with the Architect /Consultant in obtaining all statutory approvals and/or amendments to such approvals as per the rules in force from Municipality and other local bodies. Any expenditure incurred in obtaining such approvals is deemed included in the rates quoted by the Contractor.

### **62.3 Notices to Local Bodies:**

a) The Contractor shall comply with and give all notices required under any law, rule, regulations, or byelaw of parliament, State Legislature or Local Authority relating to works. The Contractor shall before commencing the execution of work issue a certificate to the Bank/ Architect / Consultant that he has obtained all the permissions Registrations

and give all the notices as are required to be obtained or given under law particularly blasting permission the Police permission etc.

**64.4 MUNICIPAL REGULATIONS:**

The whole of the work is to comply with the requirements and byelaws of the concerned Municipal Corporation and local bodies

**64.5 Acceptance of tender:**

The SBI shall have the right to reject any or all tenders without assigning any reason. They are not bound 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.

**65.0 ANTI-TERMITE TREATMENT AND WATER PROOFING TREATMENT:**

- a) Pre-construction soil treatment shall be carried out in co-ordination with the building work and shall be executed in such a manner that the civil works are not hampered or delayed by the anti-termite treatment. The treatment shall be carried out as detailed in IS: 6313 (Part III) latest revision. The water proofing treatment shall be type and specification as given in the schedule of quantities. The anti-termite and water proofing treatment shall be got done through specialized agencies only.
- b) The treatment against water-proofing of basement, roofs, water retaining area and termite infestation shall be and remain fully effective for a period of not less than 10 (ten) years to be reckoned from the date of expiring of the defect liability period , prescribed in the contract.
- c) The SBI reserves the right to get the quality of treatment checked in accordance with recognize test methods and in case it is found that the chemicals with the required concentration and rate of application have not been applied, or the water proof treatment is done as per specifications, the contractor will be required to do the re-treatment in accordance with the required concentration & specifications at no extra cost failing which no payment for such work will be made. The extent of work thus rejected shall be determined by the Architect.
- d) Water proofing and anti-termite termite treatment shall be got done through approved and specialized agencies only.
- e) The contractor shall make such arrangement as may be necessary to safe guard the workers and residents of the building against any poisonous effect of the chemicals used during the execution of the work.
- f) The contractor whose tender is accepted shall execute Free Maintenance Guarantee agreement Bond in the prescribed form as appended for guaranteeing the anti-termite and water proofing treatment.

## **SPECIAL CONDITIONS OF CONTRACT**

**Scope of Work:** As defined & explained in these tender documents.

All dimensions and levels shown on the drawings shall be verified by the contractor on the site and he will be held responsible for the accuracy and maintenance of all the dimensions and the levels. Figured dimensions are in all cases to be accepted and no dimension shall 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.

**48.0 Notice of operation:**

The contractor shall not carry out any important operation without the consent in writing from the Architect/Consultant.

**49.0 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 constructed.

**50.0 Safety of adjacent structures and trees**

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

**51.0 Temporary works:**

Before any temporary works are commenced the contractor shall submit at least 7 days in advance to the Architect/Consultant for approval complete 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.

**52.0 Temporary roads**

The contractor shall provide access road to the site from the nearest main road at no extra cost and as directed by the Architect/Consultant. The contractor shall also be responsible for proper maintenance of this access road and would take all care to see that existing services, if any, are maintained in working order at his own cost. The laying and maintaining the temporary roads within the site area shall be the contractor's responsibility and the contractor shall take such measures that are necessary and as directed by the Architect/Consultant.

**53.0 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 connections 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 contractors to obtain the requisite permission from the various authorities, but the responsibility for obtaining the same in time shall be of the contractor.

#### **54.0 Office accommodation**

- a) The contractors shall provide and maintain all necessary offices, workshops, stores, shelters, sanitary facilities, canteens and other temporary structures for themselves in connections with the work at the site at their own cost after getting the approval from the Architect/ Consultant.
- b) A site office for the use of SBI/ the Architect/ Consultant shall be provided by the contractors at his own expenses.
- c) All temporary buildings and facilities as mentioned above shall be removed on completion of the work or at any other earlier date as directed by the contractors.

All the expenses for obtaining statutory approvals and maintenance of the above facilities as well as running expenses shall be borne by the contractor at no extra cost. It is also the responsibility of the contractor to obtain statutory approvals for providing the above facilities

#### **55.0 Facilities for Contractor's employees:**

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 arrangement at his own cost for transport where necessary for his staff and workmen to and from site of work at his own cost.

#### **56.0 Lighting of works:**

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

#### **57.0 Fire fighting arrangements:**

- i) The contractor shall provide suitable arrangement for firefighting at his own cost. For 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 equipments shall be provided at suitable prominent and easily accessible places and shall be properly maintained.
- ii) Any deficiency in the fire safety or unsafe conditions shall be corrected the contractor at his own cost and to the approval of the relevant authorities. The contractor shall make the following arrangements at his own cost but not limited to the following.
  - a) Proper handling, storage and disposal of combustible materials and waste.
  - b) Work operations which can create fire hazards

- c) Access for firefighting 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 fire fighting equipments.
- f) General housekeeping.

**58.0 Site order book:**

A site order book shall be maintained at the site for the purpose of quick communication with the Architect/ Consultant. Any communication relating to the works 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 triplicates and shall carefully maintained and preserved by the contractor and shall be made available to the Architect/ Consultant as and when demanded. Any instructions which the Architect/ Consultant may like to issue to the contractor or the contractors 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 acknowledgement and the second copy will be retained for their record.

**59.0 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.

**60.0 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.

**61.0 Disposal of refuse:**

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

**62.0 Contractor to verify site Measurements:**

The contractor shall check and verify all site measurements wherever requested by other specialist contractors or other sub-contractors to enable them to prepare their own shop drawings and pass on the information with sufficient promptness as will not in any way delay the works.

**63.0 Displaying the name of the work:**

The contractor shall put up a name board of suitable size as directed by the Architect/ Consultant indicating 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.

**64.0 Bar bending schedule:**

The contractor shall prepare a detailed bar bending schedule for all reinforced concrete works and get them approved by the Architect/ Consultant well in advance.

**65.0 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 which some changes have been made from the approved drawings as instructed by the SBI/ the 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 incorporate these corrections and/or attend to discrepancies either on the 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 drawings prepared by him wherever the changes are made by the SBI/ the 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.

**66.0 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, aluminum doors and windows and any other items 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.

**67.0 Procurement of materials:**

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

**68.0 Excise duty, Taxes, Levies etc.**

The contractor shall pay and be responsible for payment of all taxes, duties, levies, royalties, fees, cess or charges in respect of the works including but not limited to sale taxes, tax on works contract excise duty and octroi, payable in respect of material, equipments plant and other things required for the contract. All the aforesaid taxes, duties, levies, fees and charges 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, levies, etc. if any, 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 statue or law during the currency of the contract/work the same shall be borne by the contractor.

**69.0 Defects after Virtual completion and defects liability period:**

Any defect shrinkage, settlement or other faults which may appear within the "Defects Liability Period" which shall be as per NIT from the date of the virtual completion of the work, arising in the opinion of the Architect from materials or workmanship not in accordance with the contract, shall upon the direction in writing of the Architect, and within such reasonable time as shall be specified therein, be amended and made good by the contractor, at his own cost and in case of default then Bank may employ and pay other person /agency to amend and make good such defects, shrinkage, settlement or other faults, and all damages, loss, and expenses consequent thereon or incidental thereto shall be made good and borne by the contractor and such damage, loss and expenses shall be recoverable from him by the Bank or may be deducted by the Bank, upon the Architect's certificate in writing, from any money due or may be deducted by the Bank, upon the Architect's certificate in writing, from any money due or that may become

due to the contractor, or the bank may in lieu of such amending and marking good by the contractor deduct from any money due to the contractor a sum, to be determined by the Architect equivalent to the cost of amending such work and in the event of the amount retained under clause of GCC, hereof being insufficient, recover the balance from the contractor, together with any expenses the Bank may have incurred in connection therewith. Should any defective work have been done or material supplied by any sub-contractor employed on the works, who has been nominated or approved by the Architect as provided in clauses of GCC the contractor shall be liable to make good in the same manner as if such work or material has been done or supplied by the Contractor and been subject to the provisions of this Contract. The Contractor shall remain liable under the provisions of this Contract notwithstanding the signing of any Certificate or the passing of any accounts, by the Architect.

**76.0** During the execution of work, if any damage shall occur to the works already done, either due to rain or any other circumstances, the same shall be rectified and made good to the entire satisfaction of the Architect/Consultant by the contractor at his costs and risks.

**77.0 Testing of Material's etc.:**

The contractor at his own cost (without any extra cost to the Bank) shall arrange for the laboratory and/or field testing of materials and works as required by the architects/Bank.



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## Safety Code:

The Contractor should follow the following General safety Guidelines while executing the work

1. All personnel at site should be provided with Helmets and Safety Boots with some identification Mark. Visitors also should be provided with helmets. It should be ensured that these are used properly.
2. All safety appliances like Safety shoes, Safety gloves, Safety helmet, Safety belt, Safety goggles etc. shall be arranged before starting the job
3. No children or physically challenged persons shall be allowed to enter the workplace and shall not be utilized for any service during execution of the work.
4. First Aid Box should be kept at site with all requisite materials appliances including adequate supply of sterilized dressing and cotton wool shall be kept in a readily accessible place.
5. An injured person shall be taken to a public hospital without loss of time, in cases when the injury necessitates hospitalization.
6. Proper eye washing facilities shall be made in areas where chemicals are handled
7. Smoking & chewing tobacco is strictly prohibited at workplace.
8. No one should be allowed to inspect / work at a height without safety belt. No one is allowed to work at or more than three meters height without wearing safety belt and anchoring the lanyard of safety belt to firm support preferably at shoulder level. Chinstrap of safety helmet shall be always on and safety boot is worn. one should be allowed to inspect / work at a height without safety belt.
9. Preferably the work shall be carried out during the daytime. However, adequate illumination at workplace shall be ensured in case any work is carried out at night.
10. Usage of eye protection equipment shall be ensured when workmen are engaged for grinding, chipping, welding and gas-cutting. For other jobs eye protection has to be provided as per the need.
11. Suitable and strong scaffolds should be provided for workmen for all works that cannot safely be done from the ground.
12. 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 running's shall not be more than 30 cm. When a ladder is used an extra labour shall be engaged for holding ladder.
13. The excavated material shall not be placed within 1.5 meters of the edge of the trench half of the depth of trench whichever is more. All trenches and excavations shall be provided with necessary fencing and lighting.

14. 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.
15. 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.
16. Those engaged in welding works shall be provided with welders' protective eye shield and gloves.
17. Ladders being used at site shall be adequately secured at bottom and top. Ladders shall not be used as work platforms. 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 running's shall not be more than 30 cm. When a ladder is used an extra labour shall be engaged for holding ladder.
18. Debris, scrap and other materials to be cleared from time to time from the workplace and at the time of closing of work every day. Dismantled Material shall not be thrown from the height and shall be properly disposed off to prevent any injury to public/staff.
19. The excavated material shall not be placed within 1.5 meters of the edge of the trench half of the depth of trench whichever is more. All trenches and excavations shall be provided with necessary fencing and lighting.
20. Excavated pits for earthing, cable laying shall be barricaded till the backfilling is done. Safe approach to be ensured into every excavation.
21. No floor, roof or other part of the structure shall be so overloaded with debris or material as to render it unsafe.
22. All electrical connections shall be made using 3 or 5 core cables, having a earth wire. Other than electricians no one is allowed to carry out electrical connections, repairs on electrical equipment or other jobs related thereto.
23. Inserting of bare wires for tapping the power from electrical sockets is completely prohibited and plug tops of suitable capacity only shall be used. Tapping of power by cutting electric cables in between must be avoided. Proper junction boxes must be used.
24. 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 running's shall not be more than 30 cm. When a ladder is used an extra labour shall be engaged for holding ladder.
25. The excavated material shall not be placed within 1.5 meters of the edge of the trench half of the depth of trench whichever is more. All trenches and excavations shall be provided with necessary fencing and lighting.
26. Clamps shall be used on Return cables to ensure proper earthing for welding works.
27. All the dangerous moving parts of the portable / fixed machinery being used shall be adequately guarded.

28. All the Gas cutting, sharp tools, flammable materials and tackles shall be stored properly and safely when not in use.
29. All the unsafe conditions, unsafe acts identified by contractors, reported by SBI/ to be corrected on priority basis.
30. 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.
31. All the pressure gauges used in gas cutting apparatus shall be in good working condition and in case of any leakages, the same shall not be used. Those engaged in welding works shall be provided with welders' protective eye shield and gloves. Connectors and hose clamps are used for making welding hose connections.
32. (i) No paint containing lead or lead products shall be used except in the form of paste readymade paint.  
(ii) Suitable face masks 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.
33. 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.
34. Hoisting machines and tackle used in the works including their attachments anchor and supports shall be in perfect condition.
35. 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.
- 36.
37. 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.
38. No floor, roof or other part of the structure shall be so overloaded with debris or material as to render it unsafe.
39. 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.
40. Those engaged in welding works shall be provided with welders' protective eye shield and gloves.
41. (i) No paint containing lead or lead products shall be used except in the form of paste readymade paint.  
(ii) Suitable face masks 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.

42. 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.
43. Hoisting machines and tackle used in the works including their attachments anchor and supports shall be in perfect condition.
44. 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.
45. Suitable scaffolds should be provided for workmen for all works that cannot safely be done from the ground, or from solid construction except such short period work as can be done safely from ladders. When a ladder is used an extra Mazdoor shall be engaged for holding the ladder and if the ladder is used for carrying materials as well as suitable footholds and handholds shall be provided on the ladder and the ladder shall be given an inclination not steeper than  $\frac{1}{4}$  to 1 ( $\frac{1}{4}$  horizontal and 1 vertical).
46. Scaffolding or staging more than 3.5 meters above the ground or floors, swung or suspended from an overhead support or erected with stationary support shall have a guard rail properly attached, bolted, braced and otherwise secured at least 1 meter high above the floor or platform of such scaffolding or staging and extending along the entire length of the outside and ends thereof with only such openings as may be necessary for the delivery of materials. Such scaffolding or staging shall be so fastened as to prevent it from swaying from the building or structure.
47. Working platforms, Gangways, and Stairways should be so constructed that they do not sag unduly or unequally, and if the height of the platform or the Gangway or the Stairway is more than 3-5 meters above ground level or floor level they should be closely boarded, should have adequate width and should be suitably fenced, as described.
48. 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 1 meter.
49. Safe means of access shall be provided to all working platform and other working places. Every ladder shall be securely fixed. No portable single ladder shall be over 9 Meters in length while the width between side rails in rung ladder shall in no case be less than 30cms for ladder upto and including 9 Meters in length. For longer ladders this width should be increased at least 6mm for each additional 30cms. Uniform step spacing shall not exceed 30cms.
50. Adequate precautions shall be taken to prevent danger from electrical equipments. For electrical on line work gloves, rubber mats, and rubber shoes shall be used.
51. All trenches 1.2 Meters or more in depth shall at all times be supplied with at least one ladder for each 30 meters length or fraction thereof. Ladder shall be extended from bottom of the trench to at least 1 Meter above the surface of the ground. The sides of the trenches, which are 1.5 meters or more in depth shall be stepped back to give suitable slope, or securely held

by timber bracing, so as to avoid the danger of sides collapsing. The excavated materials shall not be placed within 1.5 Meters of the edge of the trench or half of the depth of the trench whichever is more cuttings shall be done from top to bottom. Under no circumstances undermining or under cutting shall be done.

52. Before any demolition work is commenced and also during the process of the work:-
- (a) All roads and open areas adjacent to the work site shall either be closed or suitably protected;
  - (b) No electrical cable or apparatus which is liable to be a source of danger over a cable or apparatus used by the operator shall remain electrically charged.
  - (c) All practical steps shall be taken to prevent danger to persons employed from risk of fire or explosion or flooding. No floor, roof or other part of the building shall be so over-loaded with debris or materials as to render it unsafe.
  - (d) All necessary personal safety equipment as considered adequate by the site Engineer should be kept available for the use of the persons employed on the site and maintained in a condition suitable for immediate use; and the contractor should take adequate steps to ensure proper use of equipment by those concerned.
  - (e) Workers employed on mixing Asphaltic materials, Cement and lime mortars shall be provided with protective footwear and protective goggles.
  - (f) Those engaged in white washing and mixing or stacking of cement bags or any material which is injurious to the eyes shall be provided with protective goggles.
  - (g) Those engaged in welding works shall be provided with Welder's protective eye-shields.
  - (h) Stone breakers shall be provided with protective goggles and protective clothing and seated at sufficiently safe intervals.
  - (i) When workers are employed in sewers and manholes, which are in use, the contractor shall ensure that the manhole covers are opened and are ventilated at least for an hour before the workers are allowed to get into the manholes so opened shall be cordoned off with suitable railing and provided with warning signals and boards to prevent accident to the public.
53. Use of hoisting machines and tackle including their attachments, anchorage and support shall conform to the following standard or conditions:-
- (a) These shall be of good mechanical construction, sound material and adequate strength and free from patent defect and shall be kept in good repairs and in good working order.
  - (b) Every rope used in hoisting or lowering materials or as a means of suspension shall be of durable quality and adequate strength, and free from patent defects.
  - (c) Every crane driver or hoisting appliance operator shall be properly qualified and no person under the age of 21 years should be in-charge of any hoisting machine including any scaffold, winch or give signals to the operator.
  - (d) In case of every hoisting machine and of every chain ring hook, shackle swivel and pulley block used in hoisting or lowering or as means of suspension the safe working load shall be ascertained by adequate means.

- (e) Every hoisting machine and all gear referred to above shall be plainly marked with the safe working load. In case of hoisting machine having a variable safe working load, each safe working load of the conditions under which it is applicable shall be clearly indicated. No part of any machine or of any gear referred to above in this paragraph shall be loaded beyond the safe working load except for the purpose of testing.
  - (f) Motor, gearing, Transmission, Electric wiring and other dangerous parts of hoisting appliances should be provided with efficient safeguards, hoisting appliances should be provided with such means as will reduce to the minimum the risk of accidental descent of the load, adequate precautions should be taken to reduce to the minimum the risk of any part of a suspended load becoming accidentally displaced.
  - (g) When workers are employed on electrical installation, which are already energized, insulating mats, wearing apparel such as gloves, sleeves, and boots as may be necessary should be provided. The workers should not wear any rings, watches and carry keys or other materials, which are good conductors of electricity.
54. All scaffolds, ladders and other safety devices, mentioned or described herein shall be maintained in safe condition and no scaffold, ladder or equipment shall be altered or removed while it is in use. Adequate washing facilities shall be provided at or near places of work.
55. (i) These and all other necessary safety provisions should be brought to the notice of all concerned by display on a notice board at a prominent place at work spot. The person responsible for compliance of the safety code shall be named therein by the contractor.
- (i) To ensure effective enforcement of the rules and regulations relating to safety precautions the arrangements made by the contractor shall be open to inspection by the labor officer, Engineers of the Department or their representatives.
  - (ii) Notwithstanding the above clauses, there is nothing in these to exempt the contractor from the operations of any other Act or rule in force in the Republic of India.

### **SCAFFOLDS**

- i) Suitable double type steel H frame scaffolds or suitable alternative arrangements shall be provided for workmen for all works that cannot be done safely from the ground, or from solid construction except in the case of short duration work which can be done safely from ladders. When a ladder is used, it shall be of rigid construction made either of good quality wood or steel. The steps shall have a minimum width of 450 mm and a maximum rise of 300mm. Suitable hand holds of good quality wood or steel shall be provided and the ladder shall be given an inclination not steeper than  $\frac{1}{4}$  to  $1\frac{1}{4}$  horizontal and 1 vertical).
- ii) Scaffolding or staging more than 4 m above the ground floor, swung or suspended from an overhead support or erected with a stationary support shall have a guard rail properly bolted, braced or otherwise secured, at least 1 m above the floor or platform of such scaffolding or staging and extending along the entire length of the outside and ends thereof with only such

openings as may be necessary for the delivery of materials. Such scaffolding or staging shall be so fastened so as to prevent it from swaying from the building or structure.

- iii) Moving or Suspended type scaffolding specifications: Instead of Double type H frame steel scaffolding, if any Contractor desires to use suspended type of scaffolding or any other type of arrangement, they may do so but it should be supported by the full specifications, methodology and other relevant details in order to study and approve the same by the Consultant. No such arrangement of scaffolding will be altered unless the same is approved by the Consultant / Bank.
- iv) Working platforms, gangways and stairways shall be so constructed that they do not sag unduly or unequally and if the height of the platform, gangway or stairway is more than 4 m above ground level or floor level, they shall be closely boarded and shall have adequate width and be suitably fenced as described in (ii) above.
- v) Every opening in the floor of a building or in a working platform shall be provided with suitable means to prevent the fall of persons or materials by providing suitable fencing or railing whose minimum height shall be 1m.

Wherever there are open excavations in ground, they shall be fenced off by suitable railing and danger signals installed at night so as prevent persons slipping into the excavations.

- vi) Safe means of access shall be provided to all working places. Every ladder shall be securely fixed. No portable single ladder shall be over 9m in length while the width between side rails in rung ladder shall in no case, be less than 290mm or for ladder up to and including 3m in length. For longer ladders the width shall be increases at least 20mm for each additional meter of length.

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### **OTHER SAFETY MEASURES**

- i) All personnel of the contractor working within the plant site shall be provided with safety helmets. The welder's goggles while welding works and all metal workers shall be provided with safety gloves. Persons employed in metal cutting and grinding shall wear safety glasses. For polymer application suitable hand gloves and other safety equipment / devices shall be provided.
- ii) Adequate precautions shall be taken to prevent danger from electrical equipment. No materials on any of the sites of work shall be so stacked or placed as to cause danger or inconvenience to any person or the public.

### **EXCAVATIONS & TRENCHING**

- i) All trenches, 1.25 m or more in depth shall at all times be supplied with at least one ladder each 3 m in length or fraction thereof. The ladder shall be extended from bottom of the trench to at least 1 m above the surface of the Ground, Sides of trenches which are 1.5 m or more in depth shall be stepped back to give suitable slope or securely held by timber bracing so as to avoid the danger of sides collapsing. The excavated materials shall not be placed

within 1.5m of the edges of the trench or half of the depth of the trench whichever is more. Undercutting shall be done.

- ii) The Contractor shall take all measures on the site of the work to protect the public from accidents and shall be bound to bear the expenses of defense of every suit, action or other proceedings at law that may be brought by any persons for injury sustained owing to neglect of the above precautions and to any such persons or which may with the consent of the contractor, be paid to compromise any claim by any such person.

#### **DEMOLITION.**

- i) Before any demolitions / chiseling / breaking work is commenced and also During the process of the work:
  - a) All roads, open areas adjacent to the work site shall be suitably protected as directed by providing covered sturdy shed for thoroughfare of the staff, customers and public.
  - b) No electric cable or apparatus which is liable to be a source of danger over a cable or apparatus used by the operator shall remain electrically charged.
  - c) All practical steps shall be taken to prevent danger to persons employed from the risk of fire or explosion or flooding. No floor, roof or other part of the building shall be so overloaded with debris or materials as to render it unsafe.

#### **PERSONNEL SAFETY EQUIPMENTS.**

- i) All necessary personal safety equipment as considered adequate by the Engineer should be kept available for the use of the person employed on the site and maintain in a condition suitable for immediate use and the contractor should take adequate steps to ensure proper use of equipment by those concerned.
- a) Workers employed on mixing asphaltic materials, Cement and Chemicals/ Polymer shall be provided with protective footwear, goggles and hand groves as per the requirements etc.
- b) Those engaged in white washing and mixing or stacking of cement Bags or any materials shall be provided with protective goggles.
- c) Those engaged in welding works shall be provided with welder's Protective eyesight lids.
- d) Stone breakers shall be provided with protective goggles and protective clothing and seated at sufficiently safe intervals.
- e) When workers are employed in sewers and manholes, which are in use, the contractor shall ensure that the manhole covers are opened and are ventilated at least for an hour before the workers are allowed to get into manholes and the manholes so opened shall be cordoned off with suitable railing and provided with warning signals or boards to prevent accident to the public.
- f) The contractor shall not employ men below the age of 18 years and women on the work of painting with products containing lead in any form, Where ever men above the age of 18 are employed, on the work of lead painting the following precautions should be taken:
  - i. No paint containing lead or lead products shall be used except in the form of paste or readymade paint.
  - ii. Suitable face masks should be supplied for use by the workers when paint is applied in the form of spray or a surface having lead paint dry rubbed and scraped.
  - iii. Overalls shall be supplied by the contractor to the workmen and adequate facilities shall be provided to enable the working painters to wash during the cessation of work.

- iv. When the work is done near any public place where is risk of drawings all necessary equipments should be provided and kept ready for use and all necessary steps taken for prompt rescue of any person in danger and adequate provision should be made for prompt first aid treatment of all injuries likely to be sustained during the course of the work.

**(G) INJURY TO OR DEATH OF A PERSON**

The Contractor shall be liable for and shall, indemnify the Employer against any expense, liability, loss, claim or proceedings whatsoever arising under any statute or at Common Law in respect of personal injury to or death of any person whomsoever arising out of or in the course of or caused by the carrying out of the Works.

**(H) HOISTING MACHINES**

Use of hoisting machines and tackle including their attachments, anchorages and supports shall conform to the following standards or conditions:

- 1 a) These shall be of good mechanical constructions sound material and adequate strength and free from patent defect and shall be kept in good repair and in good working order.  
b) Every rope used in hoisting or lowering materials or as means of suspensions shall be of durable quality and adequate strength and free from patent defects.
  - 2 Every crane driver or hoisting appliance operator shall be properly qualified and no person under the age of 21 years shall be in charge of any hoisting machine including scaffolding which or give signals to operators.
  - 3 In case of every hoisting machine and of every chain ring hook, shackle Shovel and pulley block used in hoisting or as means of suspension the safe working load shall be ascertained by adequate means. Every hoisting machine and all gear referred to above shall be plainly marked with the safe working load. In case of a hoisting machine having a variable safe working load, each safe working load and the conditions under which it is applicable shall be clearly indicated. No part of any machine or any gear referred to above in this paragraph shall be loaded beyond the safe working load except for the purpose of testing.
  - 4 In case of departmental machines, the safe working load shall be notified by the Engineer. As regards contractor's machine, the contractor shall notify the safe working load of the machine to he Engineer whenever he brings any machinery to site of work and get it verified by the Engineer concerned.
- ii) Motors, gearing, transmission, electric wiring and other hoisting appliances Should be provided with such efficient safeguards, hoisting appliances should be provided as will reduce to the minimum of the risk of a suspended load becoming accidentally displaced. When workers are employed on FACADE & FALSE CEILINGs which are already energized, insulating mats, wearing apparel, such as gloves, sleeves and boots as may be necessary, should be provided. The workers should not wear any rings, watches and carry keys or other materials, which are good conductors of electricity.
- iii) All scaffolds, ladders and other safety devices mentioned or described herein shall be maintained in safe condition and no scaffold, ladder or equipment shall be altered or removed while it is in use.
- iv) Adequate washing facilities should be provided at or near places of work.
- v) These safety provisions should be brought to the notice of all concerned by display on a notice board at a prominent place at work spot. The person responsible for compliance of the safety code shall be named therein by the contractor.
- vi) To ensure effective enforcement of the rules and regulations relating to safety precautions the arrangements made by the contractor shall be open to inspection by the Labour Officer, Engineers of the Department or their representatives.

- vii) Notwithstanding the above clause from (i) to (x vii), there is nothing in these to exempt the contractor from the operations of any other Act or Rule in force in the Republic of India.

### **ADDITIONAL CONDITIONS OF CONTRACT**

Notwithstanding anything contained herein above the following ADDITIONAL CONDITIONS shall be applicable for this contract / work.

#### **1.0 PRICE VARIATION ADJUSTMENT (PVA):**

The rates quoted by the bidder shall remain firm throughout the contract / construction period. PVA & PVA Clause mentioned elsewhere in these documents shall not be applicable.

#### **2.0 WORKING SCHEDULE / BAR CHART:**

Detailed working date schedule and bar chart for the work shall be prepared by the contractor and got approved from the Bank / Architect. A detailed flow chart of activities highlighting curing, setting time / period, pot life period / predecessor, successor & critical activities etc. shall also be prepared by the contractor for effective management of work and also to make a realistic bar chart / working date schedule.

#### **3.0 RATES:**

It may be noted that it is an item rate contract. Rates accepted by the bank shall be for all levels/height and lead unless otherwise specified in the schedule of quantities and shall be inclusive of all man, labour, supervision, materials, tools, equipment, scaffoldings, water, electricity, taxes, insurances, arrangements, temporary works, over heads, collection & carting away & final disposal of rubbish & debris, regular cleaning of site etc. required to complete the works in all respect to the satisfaction of the architects / Bank and nothing additional or extra shall be paid on these accounts and / or on account of variation in rates / taxes and / or imposition of new tax / levy during currency of contract / work, except for the items, taxes, works etc. for which there is a specific mention for additional payment in these tender documents. The rates shall remain firm throughout the contract period.

#### **4.0 BASIC RATE:**

Wherever for any item of work basic rate of materials are specified, the materials of that basic rates as selected by the Bank/Architect at any commercial establishment/ seller of Ahmadabad or nearby centre, if such materials are not available at Ahmadabad, shall be procured and used by the contractor.

Basic rate of any material (Without processing) is the rate offered by seller against Bill and credit period not exceeding 15 days, including any applicable taxes ex-godown. Payments for procurement of materials shall be made by the contractor themselves.

If the basic rate of any material actually used for the work is more or less than the basic rate given in schedule of quantities, in that case adjustments in the rate admissible to the contractor shall be modified by adding or subtracting, as the case is, from the accepted tender rates an amount equivalent to difference in the basic rates plus 15 % of difference of the basic rate.

#### **5.0 BRANDED / FINISHING ITEMS:**

Branded items such as tiles, construction chemicals, hardware, sanitary wares and other finishing items shall be used as per the samples selected and approved by the architects / Bank from the brands/makes mentioned in the tender document. If the contractor intend to use an equivalent substitute than, they have to produce necessary documentary evidences establishing the equivalency to the satisfaction of the architect/Bank and shall use the same only after approval of the architect.

## 6.0 INSURANCE

The contractor shall keep the Bank indemnify from all the claims arising out of damage to workman/person & property of Bank and/or third party and the SBI shall have right to recover the cost of such damages /claim from any amount due to the contractor. If the claim amount exceeds the amount due to be paid to the contractor, the contractor shall immediately pay such excess amount to the Bank. Decision of the Bank regarding determination of the amount of claim /damage shall be final & binding to the contractor. Being a short period work, the Bank may not be able to check or verify the various insurance policies required to be taken by the contractor and trust that the contractor has obtained all such policies.

## 7.0 SITE CONDITION & WORKING HOURS.

The tenderer must visit the site and acquaint themselves with the site conditions. It must be noted that the work is to be carried out in the functional branch without hindering the normal functioning of the Branch. The work shall generally be carried out on holidays or after Banking hours only.

The contractor has to work in coordination with the other contractors and daily/weekly schedule of working shall be prepared in consultation with the Architects/Banks. Regular updating / modification of such schedule shall be required.

For normal functioning of the Bank/Branch the contractor shall be required to shift the FURNITURE etc and/or relocate the existing and/or new loose and/or fix FURNITURE and/or any other item of works and/or any such materials at new location at times. The contractor shall carry out all such activities with utmost priority and without any additional/extra cost to the bank. The tenderer shall quote the rates inclusive of all such activities/works as may be required as per site conditions. The rates quoted by the tenderer shall be inclusive of all such temporary/semi-permanent works/activities.

## 8.0 GENERAL:

- (i) Source of materials / samples / brands / makes etc. shall be got approved from the Architects /Bank before using. In case of deviations, decision of the Bank shall be final and binding and shall not be open for arbitration.
- (ii) The Architects have their specific role/duties/rights as defined in these tender documents However in the event of any dispute arising out of differences between the opinions of the Architects and also their role/duties/rights, the Banks' decision shall be final & binding on the Architects and the Contractor and shall not be open to arbitration.
- (vi) Any item mentioned in the BOQ with "TO THE SHAPE" will have measurement of onsite executed to the shape area only.
- (vii) The contractor's qualified & authorized representative shall remain on site during the entire execution process for coordination with various agencies/ Architect/Bank & execution of work
- (viii) Hidden measurement. It is contractor's responsibility to get the measurement checked immediately on completion of such items. This shall be done before finishing the same & before ceiling boarding done. The Architect shall be provided with such details well in advance so that the other work is not held up due to last moment action.
- (ix) MTC (Manufacturer Test certificate) Where ever applicable shall be arranged & submitted by the contractor.
- (x) Water & Electricity, if available, shall be provided by the Bank at one point without any charges. However, if the water & electricity could not be provided by the Bank, the same shall be arranged by the contractor at their own cost within the quoted/accepted rate. Nothing extra shall be paid by the Bank on account of not providing the water & Electricity.
- (XI) Wherever the specifications are not specified in details the work shall be carried out as per CPWD specifications or Manufacturer's instructions or architects instructions depending upon the site conditions as directed by the Bank/ Architects

(XII) The contractor shall produce the bills / challans / documentary evidences and proof in respect of genuineness of materials used by him when so ever asked/demanded by the Architects/Bank.



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**APPENDIX HEREIN BEFORE REFERRED TO**

- 1 Name of the organization Offering Contract : Assistant General Manager, State bank of India, Regional business office (RBO - 5), First floor, Shourya apartment, Opp Lunsikui ground, Navsari. 396 445
- 2 Consultants : **Nirmaan Architects & Interior Designer , Surat.**
- 3 Site Address : OF SBI SATKASHI BRANCH, SAO - 5, NAVSARI at , TALUKA : SONGADH, DIST : TAPI. PIN - 394365 (GUJARAT).
- 4 Scope of Work: : Proposed Civil works for SBI SATKASHI BRANCH .
- 5 Name of the Contractor :  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- 6 Address of the Contractor :  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- 7 Period of Completion : 45 days from the date of Issue of work order.
- 8 Earnest Money Deposit : **Rs. 25,500/- (OR Valid MSME UDHYAM certificate)**
- 9 Retention Money : As per clause no.1d. 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 (Contractor's all risk policy) : 125% of Contract Value
- 12 Liquidated damages : 0.5% of the Contract amount shown in the tender per week subject to max. 5% of the contract value or actual final bill value
- 13 Value of Interim Bill (Min.) : No Interim payment will be paid
- 14 Date of Commencement : From the date of work order 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 : 2 Months from the date of Virtual completion.
- 16 Initial Security Deposit : 2% of the Accepted Value of the Tender.
- 17 Total Security Deposit : 5% of the final bill amount including ISD
- 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 Honoring Certificate : One Month for R. A. Bills
- 20 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 3 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.

|| **Signature of Tenderers.** ARCHITECTS - INTERIOR DESIGNER - PROJECT CONSULTANT

**Date:**

## LETTER OF DECLARATION

To,

**Assistant General Manager,  
State bank of India, Regional business office (RBO - 5),  
First floor, Shourya apartment, Opp Lunsikui ground,  
Navsari. 396 445**

**PROPOSED CIVIL WORKS FOR OF SBI SATKASHI BRANCH, SAO - 5, NAVSARI at SONGADH, DIST : TAPI. PIN - 394365 (GUJARAT)**

Having examined the terms & conditions, drawings, specifications, design 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 and affecting the quotation, I/We hereby offer to execute the works specified in the said memorandum within the time specified in the said memorandum on the item rate basis mentioned in the attached schedule and in accordance in all respect with the specifications, design, drawings and instructions in writing referred to in conditions of Tender, the articles of agreement, conditions of contract and with such conditions so far as they may be applicable.

### MEMORANDUM

(a)	Description of work	Proposed CIVIL works at SBI SATKASHI BRANCH, SAO - 5, NAVSARI at SONGADH, DIST : TAPI. PIN - 394365 (GUJARAT)
(b)	Earnest Money	Rs. 25,500/- 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 Nationalized Bank drawn in favour of <b>State Bank of India, payable at NAVSARI. [Those registered with MSME-UDYAM need not submitted EMD. Instead DD, Valid MSME UDHYAM certificate shall be uploaded]</b>
(c)	Time allowed for completion of work from the date of issue of work order.	45 days from the date of commencement as per tender.

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

Should I / We fail to execute the Contract when called upon to do so I/ We do hereby agree that suitable action shall be initiated against us by SBI. This may also include debarring of my empanelment for three years or as directed by JPC (1.1.12)

I/we have deposited Demand Draft / Banker's Cheque / FDR for a sum of **Rs.25,500/- (Rupees Twenty five Thousand five hundred only)** as Earnest money deposit with the SBI. Should I/we do fail to execute the contract when called upon to do so, I/we hereby agree that this sum shall be forfeited by me/us to SBI.

We understand that as per terms of this tender, the SBI may consider accepting our tender in part or whole or may entrust the work of various buildings proposed (i.e. Institute Building, Staff Qtrs. And Director's Bungalow/Interior work) in phases. We, therefore, undertake that we shall not raise any claim/compensation in the eventuality of Bank deciding to drop any of the building/buildings 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 rates and within the stipulated time limit without any extra claim for price escalation as provided for in Clause 9.0.1 "Instructions to Tenderers" of this tender.

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.

**Yours faithfully,**



**Signature of contractor With Seal**

॥ निर्माण ॥

॥ निर्माण ॥

ARCHITECTS - INTERIOR DESIGNER - PROJECT CONSULTANT

**PROFORMA OF HINDRANCE REGISTER**

Name of Work:-

Date of Start of Work:-

Name of Contractor:-

Period of Completion:-

Agreement No. :-

Date of Completion:-

Sr. No.	Nature of Hindrance	Date of Occurrence of Hindrance	Date of Which Hindrance was removed	Period of Hindrance	Signature Architect / Bank	Remarks
1	2	3	4	5	6	7
						
						
						
					ARCHITECTS - INTERIOR DESIGNER - PROJECT CONSULTANT	

## GENERAL SPECIFICATION FOR CIVIL WORKS

- 1.0 Wherever the specifications are not specified in details the work shall be carried out as per PWD/CPWD specifications or Manufacturer's instructions or architects instructions depending upon the site conditions as directed by the Bank/ Architects
- 1.0 The contractor has read and understood the General & Special condition of The contract including safety codes and has a copy of the same with them. Unless and otherwise mentioned in these terms and conditions the said General & Special condition of the contract will be binding on the contractor
- 2.0 The tenderer must visit the site and acquaint themselves with the site conditions. It must be noted that the work is to be carried out in the functional branch without hindering the normal functioning of the Branch. The work shall generally be carried out on holidays or after Banking hours only
- 3.0 Unless otherwise mentioned in the BOQ or in the terms and conditions, all the Items of the works shall be measured and paid as per the BIS codes
- 4.0 All the items of the works shall be executed as per the latest Indian Standard Specifications unless mentioned in the BOQ/ terms and conditions/ instructed by the engineer in charge.
- 5.0 The contractor has to work in coordination with the other contractors and daily/ weekly schedule of working shall be prepared in consultation with the Architects/ Banks. Regular updating / modification of such schedule shall be required.
- 6.0 Leads, inclusive of cantering and shuttering, Scaffolding, curing , making Holes/ opening in the wall & floor, materials, removal of lines, flooring, bedding Required, stacking and storing of removed materials having scrap value, Carting, tools, machinery, equipments, consumable, materials, labours, Overheads, taxes, octroi, Govt duties and fees, insurance, testing, profits, etc. And shall be for completely finished items of work. Nothing extra shall be paid on above account. The rates shall be inclusive of all present and future taxes (excluding SERVICE TAX) VAT and no PVA shall be applicable in this Contract.
- 7.0 For normal functioning of the Bank/Branch the contractor shall be required to shift the furniture etc and/or relocate the existing and/or new loose and/or fix furniture and/or any other item of works and/or any such materials at new location at times. The contractor shall carry out all such activities with utmost priority and without any additional/extra cost to the bank. The tenderer shall quote the rates inclusive of all such activities/works as may be required as per site conditions. The rates quoted by the Tenderer shall be inclusive of all such temporary/semi-permanent works/activities
- 8.0 For the purpose of measurement and the payment the visible and exposed area will be measured and paid.
- 9.0 All the items of the work shall be done in true line and level, slope. Only Electric cutter/ drilling machine etc shall be used for making zari, holes, cutting Etc.

- 10.0 The contractor should take all the safety aspect during the execution of the work and he is fully responsible for the safety of their workers
- 11.0 As the work is of partly renovation nature, the rates quoted by the contractors shall be Inclusive of removal of existing items, finishes, bedding, lines etc and their Disposal or stacking as required.
- 12.0 As the work is in existing commercial building area, the Tenderer have to make an own arrangement of portable water as required on site without any extra cost. The Tenderer can used storage water tank. The capacity of storage tank is not more than 1000 lt. The Tenderer shall use only one storage tank / flat to avoid any structural problem to the building. The Tenderer can used a bigger tank on ground floor without harassing the parking / common area.
- 13.0 As the work is in existing residential area, availability of lift for workers / material transportation is subjected to societies by laws. The Tenderer shall not claim any extra cost if the lift is not available for it.
- 14.0 The contractor shall be required to obtain satisfactory execution and/or application certificate from the manufacturer and/or authorized dealer/s in respect of specialized items of work such as water proofing etc as decided by the Bank/ Architects. The contractor shall arrange for the visit and inspection of the work in respect of the representatives of such firms/manufacturers within the rates quoted/accepted by the bank.
- 15.0 The contractor shall produce the bills / challans / documentary evidences and proof in respect of genuineness of materials used by him when so ever asked/ demanded by the Architects/Bank
- 16.0 Please note that in case of a percentage rate tender and individual item rates are not to be filled and/or tempered with and/or altered and/or changed. Only the percentage & amount above (+) or below (-) the estimated rates & amount are to be filled and the Net Tender Amount is to be worked out.
- 17.0 No running bill payments shall be made. The contractor has to submit the Final Bill on satisfactory Completion of the Work. However the contractor shall ensure that the measurements are recorded by them and got checked from the Architects from time to time particularly for hidden/concealed item of works.
- 18.0 The Bank will be absolutely authorized and entitled to recover the amount on account of loss to third party and / or Bank and / or workmen and / or any statutory recovery etc. from the contractors bill and / or any amount due to be paid to the contractor, in case contractor fails to settle such claims and or fails to pay against such claims/recoveries promptly to the satisfaction of the bank/architects.

## **TECHNICAL SPECIFICATIONS (CIVIL WORK)**

Unless otherwise mentioned in item description / bill of quantities/drawings and / or instructed by architects/Engineer following specifications shall be adopted All works to be carried as per detail drawing and instructions of Architect/Engineer in-charge.

Renovation and Rehabilitation work does not mean plaster paint and forget. Contractors are advised to treat this part of tender / Contract with an understanding that is more serious than new works. It is advisable that the work when carried out by the contractor is done with full knowledge of the material used, its high points and its shortcomings. Every additive used should be properly dealt with prior approval from the consultants about the methodology of repair and mixing proportions are ascertained by the contractor from the consultants.

All repairs to structural members must be preceded with a proper support system. This structural support system must be worked out for each structural member. Structural significance and safety of the whole building is of paramount importance. Necessary suitable propping is required to be provided to ensure release of loads on the treated member. It is mandatory for the contractor to seek consultant's approval of the support system. The ultimate responsibility of the support system rests with the contractor. The safety of the building is paramount importance.

The support system shall be designed by the contractor and proper calculation submitted to the consultant prior to installation for approval. All slab sections shall be assumed to carry a total minimum load 500 kg/sq cm. The load distribution shall be as per IS 456 clause no 11 and the load per prop / support shall be taken as total load acting on the section to be supported divided by the number of props.

Transportation, loading, Unloading & storage of props should be in safe manner without disturbing safety of structure. It is mandatory to support every column undergoing sectional repairs.

### **DEMOLITION / DISMANTLING WORK:**

- 1.) Before any demolition / dismantling work is commenced and also during the progress of work.
  - a) All roads and open areas adjacent to the work site shall be closed or suitably protected.
  - b) No electric cable or apparatus which is liable to be a source of danger over a cable or apparatus used by the operator shall be remaining electrically charged.
  - c) All practical steps shall be taken to prevent danger to person employed from the risk of fire / explosion / flooding no floor, or roof / other part of building shall be so overloaded with debris or materials as to tender it unsafe.
  - d) As the building is a high rise building, safety of workers is also done before any dismantling work start.
  - e) Mechanical machines / heavy breaker machines should not be used to removing existing flooring materials.

### **1.1 SCOPE OF WORK :**

- a) The work envisaged under this sub-head is for dismantling and demolition of brick masonry in cement/lime mortar, reinforced cement concrete works, flooring, kitchen platform, bathroom tiles, dado, etc

### 1.1.2 GENERAL :

- The term Dismantling implies carefully taking up or down and removing without damage. This shall consist of dismantling one or more parts of the building as specified or shown on the drawings.
- The term Demolition implies taking up or down or breaking up. This shall consist of demolishing whole or part of work including all relevant items as specified or shown on drawings.

### 1.1.3 PRECAUTIONS :

- Necessary propping, shoring and/or underpinning shall be provided for the safety of the adjoining work or property, which is to be left intact, before dismantling and demolishing is taken up and the work shall be carried out in such a way that no damage is caused to the adjoining work or property.
  - Wherever required, temporary enclosures or partitions shall also be provided. Necessary precautions shall be taken to keep the dust- nuisance down as and when necessary. Dismantling shall be commenced in a systematic manner. All materials which are likely to be damaged by dropping from a height or demolishing roofs, masonry etc., shall be carefully dismantled first. The dismantled articles shall be passed by hand where necessary and lowered to the ground and not thrown. The materials then are properly stacked as directed by the Engineer-in-charge.
  - All materials obtained from dismantling or demolition shall be the property of the Bank unless otherwise specified and shall be kept in safe custody until handed over to the Engineer-in-charge.
- 1.) Any serviceable material, obtained during dismantling or demolition shall be separated out and stacked properly as indicated by the Engineer-in-charge within a lead of 150 m. or as specified in the item. All under serviceable materials, rubbish etc. shall be disposed off as directed by the Engineer-in-charge.
  - 2.) All necessary personal safety equipment as considered adequate by the engineer in charge shall be available for use of person employed on the site and maintained in a condition suitable of immediate use and the contractor shall take adequate steps to ensure proper use of equipments by these concerned.
    - a) Workers employed on missing materials cement and aggregates / sand shall be providing with protective footwear and protective gloves.
    - b) Those engaged in handling any material which is injurious to the eye shall be provided protective goggles.
    - c) Those engaged in welding work shall be provided with welder's protective eye shields.
    - d) Stone breaker shall be protective goggles and protective clothing and seated at sufficiently safe intervals.
    - e) The contractor shall not employ men / women below the age of 18.
    - f) When work is done near any place where is risk of drowning, all necessary equipment shall be provided and kept ready for use and all necessary steps taken for prompt reuse of any person in danger and adequate provision made for prompt first aid treatment of all injuries likely to be sustained during the course of the work.

### 1.1.4 USEFUL MATERIALS:

Any material obtained from the dismantling which in the opinion of the Engineer-in-Charge is useful, shall be stacked separately in regular stacks as directed by the Engineer-in-Charge and shall be the property of the Bank.

Materials suitable and useful for reuse use shall be stacked in convenient place but not in such a way as to obstruct free movement of materials, workers and vehicles or encroach on the area required for constructional purposes. It shall be used to the extent required to other elevation shown on the plan or as directed by the Engineer-in-Charge.

**Materials not useful in anyway shall be disposed off, levelled and compacted as directed by the Engineer-in-charge within a specified lead. The site shall be left clean of all debris and levelled on completion.**

1. The Contractor shall carefully protect and preserve all bench marks, site details, pegs and other things used in the setting out of the building for construction. All preliminary works such as establishment of a set of bench marks, permanent the odolite stations, centre line pillars, etc. including required materials, tools, plants, equipment, labour, etc. for performing such functions necessary and ancillary there to for the commencement and during the progress of the work and till physical completion of the work shall be carried out by the Contractor at his own cost. Nothing extra shall be payable on this account.
2. The contractor shall take instructions from the Engineer-in-Charge for stacking of materials in any place. No excavated earth or building materials shall be stacked on areas where other buildings, roads, services of compound walls are to be constructed.
3. The structural drawings for the work shall be issued in stages taking into consideration the approved programmed as well as the actual progress.
4. The contractor shall be responsible for any leakage that takes place through the roof for full monsoon season after the date of completion and on being intimated of any such defect shall take immediate necessary action for rectification of the defect to the satisfaction of the Engineer-in-Charge failing which the Engineer-in-charge will have the authority to get the defects repaired at the risk and cost of the contractor.
5. In case of materials for which no manufacture has been licensed to manufacture, the materials with ISI marking, the material shall conform to the provision of the CPWD specifications. In the case of non-ISI marked materials, tests shall be conducted to ensure that they conform to the specifications or codes mentioned above. BIS marked materials may also be got tested if felt necessary by the Engineer-in-Charge.
6. All materials for which testing is mandatory before being allowed for incorporation in the work shall be purchased well in advance of their actual requirement in the work at site, so as to afford enough availability of time for getting the material tested and obtaining the approval of the Engineer-in-Charge.
7. The contractor shall give a performance test of the water supply / sanitary / drainage installations in accordance with the provision of the CPWD Specifications before the work is finally accepted and the completion certificate recorded. The rates quoted by the contractor are deemed to include for such testing and no claim for payment over and above the rates quoted will be entertained.
8. Other agencies doing works related with this project will also simultaneously execute the works and the contractor shall afford necessary facilities for the same. The contractor shall leave such necessary holes, openings etc. for laying / burying in the work of pipes, cables, conduits, clamps, boxes and hooks for fan clamps etc. as may be required for other agencies, conduits for electrical wiring / cables will be laid in a way that they leave enough space for concreting and do not adversely affect the structural members. Nothing extra over the agreement rates shall be paid for the same.
9. The rates quoted shall include all taxes, royalty, seignior age charges that are applicable from time to time as per statutory rules of State / Central Government.
10. The work shall be carried out in a manner complying in all respects with the requirements

of relevant byelaws of the Municipal Committee / Municipal Corporation / local Authority / Improvement Trust under the jurisdiction of which the work is to be executed or as directed by the Engineer-in-Charge and nothing extra shall be paid on this account

11. No compensation / payment shall be payable to the contractor for any damage caused by rains, snow fall, lightning, wind, storm, floods tornadoes, earthquakes or other natural calamities during execution of work. He will make good all such damages at his own cost and no claim on this account will be entertained.

12. All cement bags and all other similar perishable items shall be stored by the contractor in a separate godown which shall be exclusively constructed by the contractor for this purpose at his own cost as per general guidelines given in the tender documents. The contractor shall be bound to construct the storage godown of sufficient size so as to properly store the appropriate quantity of cement required for consumption for not less than ONE MONTH. Such godown shall have weather proof roof and walls. The godown shall be provided with a single door with arrangement for locking it simultaneously with two locks. The contractor shall be fully responsible for the safe custody of all the materials even if the materials are kept and stored under double lock system. The account of daily receipts and issues of the cement bags shall be maintained in the said register which shall be signed daily by the contractor or by his authorized agent in token of correctness of the entries.

13. The Contractor shall be responsible for satisfactory execution of all the specialized services of the works, including those executed by specialized agencies. In so far as relationship between Contractor and specialized agencies, the SBI shall have no role to play. The Contractor shall indemnify the SBI, arising out of any dispute between Contractor & specialized agencies.

14. Necessary barricading with warning red lights and all safety precautions shall be taken by the Contractor along the boundary of the site of work as per the directions of Engineer in Charge. Nothing extra shall be payable on this account.

15. Plumbing drawings are schematic but shall be followed as closely as actual construction permits. Any deviations made shall be in conformity with the architectural and other services drawings. Architectural drawings shall take precedence over plumbing or other services drawings in respect of overall dimensions.

16. On completion of plumbing, sanitary, drainage on any other services, Contractor shall submit two prints of completion drawings for complete system as well as soft copy of the same to the Engineer-in-Charge without extra payment on this account. These drawings shall have the following information. a) Run of all piping along with diameters on all floors, vertical stacks and location of external services. b) Ground and invert levels of all drainage pipes together with location of all manholes and connections upto outfall. c) Layout of all water supply lines with diameters, locations of controls valves, access panels etc. d) Location of all mechanical equipment with layout and piping connections.

17. The Contractor shall be responsible for the watch and ward of the building, safety of all fittings and fixtures including sanitary and water supply fittings and fixtures provided by him against pilferage and breakage during the period of installation till handing over of the entire building to SBI. Nothing extra shall be payable on this account.

18. In case of natural products such as Kota stone, Marble, Granite etc., such products should be procured from same query/ lot and approval for best match for uniformity in colour, shade, texture etc. of the product will be necessary from Engineer – in – Charge before put to use. If in opinion of the Engineer-in-Charge there is significant variation in properties, he can direct the contractor to remove the same from the site and can ask for matching replacement. The decision of Engineer-in-Charge shall be final and binding. Nothing extra shall be paid on this account.

19. If sufficient space is not available at site of work, the Contractor shall make his own arrangements for transporting and stacking the excavated earth at a suitable place elsewhere and bring it back for filling in plinth, trenches and side of foundations whenever required at his own risk & cost. Nothing extra shall be paid on this account.

20. Disposal of surplus excavated earth including mud, liquid mud, unserviceable materials resulting from dismantling of RCC work, brick work or other building work or services etc., asked by the Engineer in Charge, shall be made only in the dumping yard approved by local authority, at his own cost. It will be the responsibility of the contractor to get necessary permission from local authority regarding disposal of aforesaid material. If any royalty/fees is payable to local authority, such royalty/fees shall also be borne by the contractor. Disposal shall be carried out strictly as per the regulations of local authority. If, any levy/ fine is imposed by the local authorities on account of violation of bye-laws, the same shall be recovered from the contractor.

21. The concrete surface shall be free from honey combing, offsets, superfluous mortar, cement slurry and foreign matter. Any honey-combed or poorly formed concrete may be required to be dismantled and redone at the risk and cost of the agency. However, if in the opinion of Engineer in Charge, the concrete is sound and the honey comb is on surface only, such honey combing shall be required to be repaired with suitable polymer concrete as approved by the Engineer-in-Charge. Nothing extra shall be payable to the Contractor on account of such repair.

22. The project being time bound, delay in its execution is totally unacceptable whereas its early completion is highly appreciable. For this reason, it is desirable that the agency may suggest alternative to traditional methods of execution to cut short the execution period. The suggestion will be examined by Engineer in Charge in consultation to higher authority and if approved, the agency may be allowed to adopt the method as approved.

23. Guarantee for Services.

23.1 For all plumbing and sanitary work, internal drainage and water supply, the Contractor shall give a guarantee to the effect that the work shall remain structurally stable and shall guarantee against faulty workmanship, finishing, manufacturing defects of materials and leakages etc. The Contractor shall furnish a Guarantee Bond, as per prescribed format. The Guarantee Period shall be for 10(Ten) years after completion of defects liability period.

24. Specification for wall lining, skirting, dado and flooring etc. using granite stone will be the same as stated for wall lining, skirting, dado and flooring etc. using marble stone explained in CPWD Specification except for thickness and other details specified in nomenclature of items of Granite Stone.

## **ANTI TERMITE TREATMENT**

Pest Control By appointing a specialized agency as per the specifications mentioned by the Bureau of Indian Standards or Pest Control India (whichever is higher), for External walls, General Civil, Plumbing/Drainage and Timber/ Carpentry works, Gypsum/Bison Board related work with chemical emulsion shall be done including drilling and plugging holes etc. with Chloropyriphos / Lindane E.C. 20% with 1% concentration, including a one-year guarantee under suitable undertaking on stamp paper etc, complete as directed. Anti termite treatment under existing cavity floors shall be done using chemical emulsion @ 1 lt. Per hole 300 mm apart including drilling 12 mm dia holes & plugging with Cement mortar (1:2) with Chloropyriphos / Lindane E.C. 20% with 1% concentration

### **2.1 Treatment at Junction of the Wall and the Floor**

**Remedial or Slab-Injection** treatment should be carried out to prevent further re-infestation. The treatment is by injecting termiticide solutions underneath the building substructure. The injected termiticide solutions impregnate the foundations to form chemically unbroken barriers. This involves in the injecting termiticide solution beneath the concrete slab through holes drilled at measured interval. The holes are drilled (core) in the flooring at all wall floor interface and doorpost on the lowest ground level. Ascertains that the applied termiticide is distributed underneath the slab at equilibrium manners. Any termite left behind in the building is unlikely to survive long after treatment because they would have been cut off from the nest and supply of water.

The objective of the treatment is to create chemically unbroken barrier to building foundation to provide lasting residual against subterranean termite infestation.

Special care shall be taken to establish continuity of the vertical chemical barrier on inner wall surfaces from ground level up to the level of the filled earth surface.

A small channel 30 x 30 mm shall be made at all the junctions of wall and columns with the floor. Rod holes made in the channel up to the ground level 150 mm apart and the chemical emulsion poured along the channel at the rate of 7.5 litres per square meter of the vertical wall or column surface. The soil should be tamped back into place after this operation.

- Indoor Area: The holes are drilled (Core) in the flooring at all wall floor interface and doorposts on the lowest ground level. Drilling might break floor tile or marble, but we will take a very good care on this section, and will also check the piping line first to prevent drilling on the pipe.
  - Size of each hole is equal to one baht coin, and each hole is 400mm deep under concrete lay out.
  - The treatment is by injecting termticide solutions underneath the building substructure. The injected solutions impregnate the foundations to form chemically unbroken barriers.
- Outdoor Area: injected chemical to all area for preventing termite problem nest outside the building.
- Finally, each hole is patched with cement and the color is matched.
- Remark: Outside chemical which inject into the ground will not last very long as many factors effect such as climate, rain, sunshine cause in deteriorate chemical quality.

### **2.2 ACCEPTANCE CRITERIA**

The Contractor shall give a 10-year service guarantee in writing supplemented by a separate and unilateral guarantee from the specialized agency for the job to keep the building free of termites for the specified period at no extra cost to the owner.

### **2.3 RATES**

Rates shall be of complete work per unit area as stated in the Schedule.

## 2.4 METHOD OF MEASUREMENT

Complete work of anti-termite treatment shall be measured for plinth area treated. This includes treatment, to foundations, walls, trenches, basements, plinth, buried pipes, conduits etc. The extended portions of foundation and like beyond plinth limit shall be the part of complete work and no extra payment shall be made.

### Civil Works

#### 2.2 Precast Concrete

2.2.1 Shuttering for precast concrete shall not be measured and paid for separately.

2.2.2 Effort for placement of precast concrete at the final locations shall not be measured unless a specific item is provided in the Bill of Quantities.

2.2.3 The precast concrete units shall be measured as shown on the detailed drawings.

#### 2.3 In-situ Concrete

2.3.1 Shuttering for In-situ concrete shall not be measured and paid for separately.

2.3.2 No deduction will be made for chamfers smaller than 50 sq.cm. sectional area, reinforcement bolts and other embedded parts unless larger than 0.1 sq.m. sectional area and 0.03 cu. m. in volume. No extra volume will be measured for splays or fillets smaller than 50 sq.cm. sectional area.

2.3.3 The rates for reinforced concrete shall include for all batching, mixing, transporting, hoisting or lowering to any height / depth, placing in position and compaction in work of any sectional area or thickness including shuttering, forming necessary construction joints, shear keys and stop ends, and for curing and protecting etc. all as specified.

2.3.4 The rates shall include for preparing construction joints, shear keys and surfaces against which next stage concrete is to be cast and building in fittings including pipes and bolts except where specifically billed separately. No separate payment will be made for making openings/pockets/pits of any size and shape. Where surfaces are to receive finishes the rates shall include for leaving the surface rough or for hacking and roughening the surface to form a key.

2.3.5 Unless otherwise noted, rates shall include for inserting pipes and other inserts in position accurately, concreting while they are in position and also for protecting the same as the work proceeds.

2.3.6 Unless otherwise noted, the rates for concrete items shall include for finishing the top surface to levels and slopes and surface finish as specified. Rates for concrete shall include for finishing the slab to specified slope towards drains, etc.

#### 2.4 Reinforcement

2.4.1 Steel reinforcement will be measured by weight and fixed in accordance with Drawings and Specifications. The weight of reinforcement bars -whether plain, deformed or ribbed etc., -of various diameters will be calculated in accordance with Table 1 of IS:1732 'Dimensions for Round and Square Steel Bars for Structural and General Engineering Purposes'.

2.4.2 The rates shall include for cutting, welding laps, and waste, straightening short and long lengths, bending, fixing, rolling margin and the provision of spacer bars or support, chairs, binding wire, saddles, forks and all dense concrete spacer blocks, etc., including preparing bending schedules from the Drawings.

2.4.3 The rates shall include for all necessary decaling, wire brushing and cleaning to remove all rust and mill scale, dirt, grease and other deleterious matter before fixing and whilst still exposed during construction.

## 2.5 Structural and Miscellaneous Steel work

2.5.1 Rates for structural steel work and iron work shall include supply, fabrication, delivery and erection/embedment in concrete at Site and all charges for welding, cutting, bending, bolting, site connections, fixing to foundations.

2.5.2 The rates for Structural Steelwork shall include: i) Supply, fabrication, delivery and erection ii) Rolling margin, cutting and waste, weld metal, bolts, fixings and fittings iii) Hoisting, drilling, bolting or welding and fixing in the manner specified or indicated in the drawing iv) Fabrication drawings v) Welding trials and tests vi) Erection trials vii) Protective treatment (painting, hot dip galvanizing etc), including making good any damage if provided in the BOQ item.

2.5.3 Metalwork items are described in the Bills of Quantities and the Tenderer is to include for all the fittings, etc., described. All items shall include the necessary fabrication, joints, angles, intersections and ends, all bolts or fixing lugs, all hoisting and scaffolding required and casting in fixings or later cutting out or forming pockets for same, grouting, supporting and making good.

2.5.4 Rates are to include for all necessary scaffolding, working over water and at any height staging and hoisting and tarpaulin or other protective covers and the cleaning and removal of paint stains and spots, etc.

3.4.1 The Contractor's unit rates and prices shall include all equipment, apparatus, material indicated in the Drawings, and/or Specifications in connection with the item in question and also associated labour as well as all additional equipment, apparatus, material, consumables usually necessary to complete the system even though not specifically shown, described or otherwise referred to and also associated labour.

3.4.2 The rate for providing and fixing above items shall include all fittings, fixtures, base and sole plates, anchor bolts, including epoxy grouting, etc. all complete as specified, including the necessary additional supervision to ensure accurate alignment

## **PLASTERING**

Joints of brickwork shall be raked out to a depth of 18mm and the surface of the wall shall be washed and kept wet for two days before plastering. The cement, plaster shall be of 1:4 (1 cement: 4 coarse sand) proportion of 12mm thickness to be applied in three coats finished to true smooth and uniform surface by float and trowel. The work shall be tested frequently with a straight edge and plumb. Curing shall be started as soon as the plaster has hardened sufficiently not to be damaged when watered. The plaster shall be kept wet for at least 10 days. Any defective plaster shall be cut out in rectangular shape and replaced

### **2.0 Workmanship :**

Surface on which plaster is to be applied is completely wet before 12/16 hrs, so that water cannot absorb by the dry surface. Just before plastering, all the ceilings, walls etc shall be marked with plaster buttons indicating the thickness of plaster required. First coat is to be applied in 1 :3 cement mortar on any type (RCC/MASONRY) & any side of wall. Applying Tancha (Hacking) on smooth surface for the bonding of Plaster. For the application of 2nd coat, 1st coat is to be roughened with wire brush & after the interval of 3 to 4 days with daily curing, 2nd coat is to be applied in 1 : 2 Cement Mortar with Trowel Finish. Plaster should be In Line

Level & Plumb as required. 1st coat thickness should be 12/15 mm & 2nd coat thickness should be 8-10 mm. The Finished Plaster shall be free from cracks, fissures, crevices, hair cracks, blistering, flaking etc. The grooves, pattas, drip mould etc shall be as per drawing and dimensions. Contractor has to co ordinate with the other agencies for fixing switch boxes / pipe etc at specified locations and finished the same in good condition without any extra cost.

**2.1 Scaffolding :** All the scaffolding arrangement is included in this item up to 15 meter height from the Finished Level. Wooden bellies, bamboos, planks, treads and other scaffolding shall be sound. These shall be properly examined before erection and use Stage scaffolding shall be provided for ceiling plaster, which shall be independent of the walls.

**2.2 Preparation of background:**

- The surface shall be cleaned of all dust, loose mortar droppings, traces of algae, efflorescence and other foreign matter by water or by brushing. Smooth surface shall be roughened by wire brushing if it is not hard and by racking if it is hard. In case of concrete surface, if a chemical retarded has been applied to the form work, the surface shall be roughened by wire brushing and all the resulting dust and loose particles cleaned off and care shall be taken that none of the retarded is left on the surface. Trimming of projections on brick/concrete surface where necessary shall be carried out to get an even surface.
- Raking of joints in case of masonry where necessary shall be allowed to dry out for sufficient period before carrying out the plaster work.
- The work shall not be soaked but only damped evenly before applying the plaster. If the surface becomes dry such area shall be moistened again.
- For external plaster, the plastering operation shall be started from top floor and carried downwards. For internal plaster, the plastering operations may be started wherever the building frame and cladding work are ready and the temporary supporting ceiling resting on the wall of the floor have been removed; Ceiling plaster shall be completed before starting plaster to walls.

**2.3 Applications of Plaster :**

- The plaster about 15 x 15 cms. Shall be first applied horizontally and vertically at not more than 2 meter intervals over the entire surface to serve as gauge. The surfaces of these gauges shall be truly in plane of the finished plastered surface. The mortar shall then be applied in uniform surface slightly more than the specified thickness, and then brought to a true surface by working a wooden straight edge reaching across the gauges with small upward and sideways movement at a time. Finally, the surface shall be finished off true with a trowel or wooden float according as a smooth or a sandy granular texture is required. Excessive troweling or overworking the float shall be avoided. All corners, arrises, angles and junctions be truly vertical or horizontal as the case may be and shall be carefully finished. Rounding or chamfering corners, arrises junctions etc. shall be carried out with proper templates to the size required.
- Cement plaster shall be used within half an hour after addition of water. Any mortar or plaster which is partially set shall be rejected and removed forthwith from the site :
- In suspending the work at the end of the day, the plaster shall be left out clean to the line both horizontally and vertically. When recommencing the plaster, the edges of the old work shall be scraped clean and wetted with cement putty before plaster is applied to the adjacent area to enable the two to properly joint together. Plastering work shall be closed at the end of the day on the body of the wall and nearer than 15 cm. To any corners or arrises. Horizontal joints in plasterwork shall not also occur on parapet tops and copings as these invariably lead to leakage. No portion of the surface shall be left out initially to be packed up later on.
- Each coat shall be kept damp continuously till the next coat is applied or for a minimum period of 7 days. Moistening shall commence as soon as plaster is hardened sufficiently. Soaking of walls shall be avoided and only as much water as can be readily absorbed shall be used excessive evaporation on the sunny or windward side of building in hot air or dry weather shall be prevented by handling matting or gunny bags on the outside of the plaster and keeping them wet.

- **Curing** : Curing should be attended up to 10 days after complete the plaster with jute bags or sprinkling of water 3 to 4 times per day as required and directed by engineer In charge.

### 3.0 Mode of measurement & payment :

Measurement: Measurement shall be on the net area of plaster done, opening for doors, window etc shall be deducted as per the relevant IS code.

- All plastering shall be measured in square meters unless, otherwise specified length, breadth or height shall be measured correct to a centimeter.
- Thickness of the plaster shall be exclusive of the thickness of the key i.e. grooves or open joints in brick work, stone work etc. or space between laths. Thickness of plaster shall be average thickness with minimum 10 mm. at any point on this surface.
- This item includes plastering up to floor two levels.
- The measurement of wall plastering shall be taken between the walls or partition (dimensions before plastering being taken) for length and from the top of floor or skirting to ceiling for height. Depth of cover of cornices if any shall be deducted.
- Soffits of stairs shall be measured as plastering on ceilings, flowing soffits shall be measured separately.
- For jambs, soffits, sills etc. for openings not exceeding 0.5 sq. mt each in area for ends of joints, beams, posts, girders, steps etc. not exceeding 0.5 sq. mt each in area and for openings exceeding 0.5 sq. mt and not exceeding 3.0 sq. mt in each area deductions and additions shall be made in the following manner :
  - (a) No deductions shall be made for ends joints, beams posts etc. and openings not exceeding 0.5 sq. mt. each and no addition shall be made for reveals, jambs, soffits, sills etc. of these opening for finish to plaster around ends of joints, beams, posts etc.
  - (b) Deduction for openings exceeding 0.5 sq. mt. but not exceeding 3 sq. mt. each shall be made as follows and no addition shall be made for reveals, jambs, soffits etc. sills etc. of these openings.
    - (i) When both faces of all walls are plastered with same plaster, deduction shall be made for one face only.
    - (ii) When two faces of wall are plastered with different types of plasters or if one faces is plastered and the other pointed, deductions shall be made from the plaster or pointing on the side of frame for door, window etc. on which width or reveals is less than that on the other side but no deductions shall be made on the other side. Where widths of reveals on both faces of all are equal, deductions of 50% of area of opening on each face shall be made from area of plaster and/or pointing as the case may be.
- For openings having door frames equal to projecting beyond the thickness of wall, full deduction for opening shall be made from each plastered face of the wall.
- In case of openings of area above 3 sq. mt. each, deduction shall be made for opening but jambs, soffits and sills shall be measured.

## **WATER PROOFING - WITH CHEMICALS**

### 4.1 Preparing the Surface

The surface of the slab should be roughened by scrapping when the slab concrete is still green, however, the surface need not be hacked. In case the slab is already cast and surface fairly finished, the same shall be cleaned neatly of all mortar droppings, loose materials etc with brooms/cloth.

### 4.2 Providing and Laying of Slurry under Base Coat

The quantity of water required to prepare the slurry with 2.75 kg. of blended cement to be painted over an area of 1 sq m shall be calculated exactly as described in clause 22.5.3.of cpwd manual. Depending upon the area of surface that has to be covered, the required quantity of slurry should be prepared using 2.75 kg. Blended cement + water per sq m area to be covered, taking particular care to see that only that much quantity of slurry shall be prepared which can be used within half an hour of preparation i.e. before the initial setting time of cement. The prepared slurry shall be applied over the dampened surface with brushes very carefully, including the joints between the floor slab and the parapet wall, holes on the surfaces, joints of

pipes, masonry/concrete etc. The application of the slurry should continue up to a height of 300 mm on the parapet wall and also the groove. The slurry should also be applied up to a height of 150 mm over pipe projections etc.

**4.3 Laying Base Coat 20 mm thick** Immediately after the application of slurry and when the application is still green, 20 mm thick cement plaster as base coat with cement mortar 1:5 (1 blended cement: 5 coarse sand) shall be evenly applied over the concrete surface taking particular care to see that all the corners and joints are properly packed and the application of the base coat shall be continued up to a height of 300 mm over the parapet wall.

**4.4 Curing and Testing the Treatment** The entire surface thus treated shall be flooded with water by making ponding arrangement with weak cement mortar, for a minimum period of two weeks.

**4.5 Measurement :** The measurement shall be taken along the finished surface of treatment including the rounded and tapered portion at junction of parapet wall. Length and breadth shall be measured correct to a cm and area shall be worked out to nearest 0.01 sq m. No deduction in measurement shall be made for openings or recesses or chimney stacks, roof lights or khurras of area up to 0.40 sq m., nor anything extra shall be paid for making such openings, recesses etc. For areas exceeding 0.40 sq m., deduction will be made in the measurements for the full openings and nothing extra shall be paid for making such openings.

## **WATER PROOFING - WITH BRICK BAT COBA**

### **1.0 Preparing the Surface**

The surface of the slab should be roughened by scrapping when the slab concrete is still green, however, the surface need not be hacked. In case the slab is already cast and surface fairly finished, the same shall be cleaned neatly of all mortar droppings, loose materials etc with brooms/cloth.

### **2.0 Providing and Laying of Slurry under Base Coat**

The quantity of water required to prepare the slurry with 2.75 kg. of blended cement to be painted over an area of 1 sq m shall be calculated exactly as described in clause 22.5.3. of cpwd manual. Depending upon the area of surface that has to be covered, the required quantity of slurry should be prepared using 2.75 kg. Blended cement + water per sq m area to be covered, taking particular care to see that only that much quantity of slurry shall be prepared which can be used within half an hour of preparation i.e. before the initial setting time of cement. The prepared slurry shall be applied over the dampened surface with brushes very carefully, including the joints between the floor slab and the parapet wall, holes on the surfaces, joints of pipes, masonry/concrete etc. The application of the slurry should continue up to a height of 300 mm on the parapet wall and also the groove as shown in Fig. 22.6. The slurry should also be applied up to a height of 150 mm over pipe projections etc.

**2.1 Laying Base Coat 20 mm thick** Immediately after the application of slurry and when the application is still green, 20 mm thick cement plaster as base coat with cement mortar 1:5 (1 blended cement: 5 coarse sand) shall be evenly applied over the concrete surface taking particular care to see that all the corners and joints are properly packed and the application of the base coat shall be continued up to a height of 300 mm over the parapet wall.

**2.2 Laying Brick Bat Coba :** Brick bat of size 25 mm to 115 mm out of well burnt bricks shall be used for the purpose of brick bat coba. The brick bats shall be properly dampened for six hours before laying. Brick bats shall be laid to required slope/gradient over the base coat of mortar leaving 15 / 25 mm gap between two bats. Cement mortar 1:5 (1 blended cement: 5 coarse sand) shall be poured over the brick bats and joints filled properly. Under no circumstances dry brick bats should be laid over the base coat. The haunches/ gola at the junction of parapet wall and the roof shall be formed only with brick bat coba as shown in drawings. In case the

brick bat coba is laid on the base coat immediately on initial set there will be no necessity of applying cement slurry over the base coat before laying the brick bat coba. However, if the brick bat coba is to be laid on the subsequent day, cement slurry prepared as described in clause 22.7.3 shall be applied over the top surface of the base coat, and then only the brick bat coba shall be laid.

**2.3 Application of Slurry over Brick Bat Coba** After two days of curing of brick bat coba cement slurry prepared as per clause 22.7.3 shall be applied on the surface of brick bat coba The application of slurry shall be the same as described in clause 22.5.3 which should cover the haunches/gola, and the remaining small portion of parapet wall and also inside the groove as shown in the figure.

**2.4 Curing and Testing the Treatment** The entire surface thus treated shall be flooded with water by making ponding arrangement with weak cement mortar, for a minimum period of two weeks.

**3.0 Measurement** The measurement shall be taken along the finished surface of treatment including the rounded and tapered portion at junction of parapet wall. Length and breadth shall be measured correct to a cm and area shall be worked out to nearest 0.01 sq m. No deduction in measurement shall be made for openings or recesses or chimney stacks, roof lights or khurras of area up to 0.40 sq m., nor anything extra shall be paid for making such openings, recesses etc. For areas exceeding 0.40 sq m., deduction will be made in the measurements for the full openings and nothing extra shall be paid for making such openings.

#### **ITEM NO. 5 - Kitchen platform with granite Stone Slab.**

- Granite shall be of approved colour and quality. The stone shall be hard, even, sound regular in shape and generally uniform in colour. It shall be without any soft veins, cracks or flaws. The thickness of the stone shall be as specified in items.
- All exposed face shall be double polished to tender truly smooth and the even reflecting surface. The exposed edges and corners shall be rounded off as directed. The exposed edges shall be machine cut and shall have uniform thickness. Polishing shall be done in 3 coat with mirror finish, round edges, mopping washing, wax polishing etc. No extra for making holes for any fittings or fixtures shall be entitled for payment. Granite Stone shade and color shall be got approved before use.
- Providing & laying 18mm thick Granite sandwich Kitchen platform (sandwich type of required Granite Top pattern stone of approved shade and sample on top and 25 mm thk kota in bottom with 30 mm thk screed of (1:2:4) in between) with sandwich supports of 25 mm thk two kota on sides and screed in between and 75 mm raised platform with kota on top as per design and approved sample for all floors / all levels / all heights. The rate includes cutting for sink, rounding, champhering and mirror polishing of edges, facias of granite, including necessary bonding adhesive like Araldite or equivalent. (Only plan area shall be measured and paid for).

**2.0 Preparation of surface :** In case of brick masonry wall, the joints shall be raked out to a depth of at least 15 mm. while the masonry is being laid. In case of concrete wall, the surface shall be chiseled and roughened with wire brushes. The surface shall be cleaned and wetted thoroughly before commencing the laying work.

**3.0 Workmanship for kitchen platform.** Each slab shall be cut to the required size and shape and fine chisel dressed at all the edges. The sides thus dressed shall have a full contact if a straight edge is laid along. The sides shall be table rubbed with coarse sand before paving. All angles and edges of the slabs shall be true square and free from chippings and giving plain surface. The thickness shall be 25 mm. (Average) as specified in the item but not less than 20 mm. at any place of the slab.

**3.1** For vertical support kotah stone should be used at the end of platform and for center support two 'L' angle joined and penetrated into wall upto required strength. The top layer of platform is in sandwich manner,

first put the kotah stone on support and the use 1:6 cement mortar and put mirror polished granite stone on the top. It shall be laid on top pressed, tapped gently to bring it in level with the other slabs. It shall be lifted and laid a side.

**3.2** Bedding for the kota stone slabs shall be cement mortar 1:6 (1 cement : 6 coarse sand) or L.M. 1:1.5 of average thickness 20 mm. as given in the description of the item. Sub grade shall be cleaned, wetted and mopped. Mortar of the specified mix and thickness shall be then be spread on an area sufficient to receive one granite stone slab. The slab shall be washed clean before laying. It shall be laid on top pressed, tapped gently to bring it in level with the other slabs. It shall be lifted and laid a side. Top surface of the mortar shall then be corrected by adding fresh mortar at hollows or depressions. The mortar shall then be allowed to harden bit. Over this surface, cement slurry of honey like consistency shall be applied. The slab shall then be gently place in position and tapped with wooden mallet till it is properly padded in level with and close to the adjoining slab. The joint shall be as fine as possible. The slabs fixed in the floor adjoining the wall shall enter not less then 10 mm. under the plaster skirting or dado. The junction between the wall floor shall be finished neatly. The finished surface shall be true to levels and slopes as directed.

**3.3** The holes required for sink, traps, pipes or any other fittings shall be made without any extra cost.

#### **4.2 Laying :**

- The wall surface shall be covered 10 mm. thick plaster of cement mortar 1:3 mix and allowed to harden. The plaster shall be roughened with wire brushes both way. The back of granite stone shall be floated with gray cement slurry and edges with white cement slurry set in bedding mortar. The Green marble / Granite stone shall be gently tapped in position one after the other keeping the joints as this as possible. Top f skirting or dado shall be truly horizontal and the joints vertical or as per required pattern.
- Risers of steps, skirting and dado shall rest on top of treads or flooring. Where the Green marble / Granite stone shall be cut to the required size and the edges be smoothened. Surface shall be washed clean.
- The joints shall be cleaned and flush pointed with white cement. The surface shall be kept wet for seven days. After curing the surface shall be washed clean.

**5.0 Mode of measurement & payment:** The rate shall include the cost of all materials and labour required for various operations described above. Risers of steps, skirting and dado shall be measured in square meters. Length and height shall be measured along the finished face of the skirting or dado including curves, where special such as covers, internal and external angles, etc. used. The length and height shall be measured correct to the centimeter except in cast of riser and skirting where height shall be measured correct to 3 mm. Rate to include for cutting, Polishing, edge moulding, joining with adhesives, white cement, wastages of any etc at any level. Measurement shall be on the basis of net area of laid.

#### **Green marble / Granite / granite sill & lintel frame**

- Green marble / Granite stone shall be of approved colour and quality. The stone shall be hard, even, sound regular in shape and generally uniform in colour. It shall be without any soft veins, cracks of flows. The thickness of the stone shall be as specified in items.
- All exposed face shall be double polished to tender truly smooth and the even reflecting surface. The exposed edges and corners shall be rounded off as directed. The exposed edges shall be machine cut and shall have uniform thickness. Polishing shall be done in 3 coats with mirror finish, round edges, morphing washing, wax polishing etc. No extra for making holes for any fittings or fixtures shall be entitled for payment. All other Specifications of Workmanship, mode of measurement will remain same as Item no 5 except Basic Material is to be adopted as Green marble / Granite Stone. Green marble / Granite Stone shade and color shall be got approved before use.

**6.1 Preparation of surface :** In case of brick masonry wall, the joints shall be raked out to a depth of at least 15 mm. while the masonry is being laid. In case of concrete wall, the surface shall be chiseled and roughened with wire brushes. The surface shall be cleaned and wetted thoroughly before commencing the laying work.

**6.2 Preparation of Green marble / Granite Patti for window sill & frame (150 / 250 mm).** The Green marble / Granite patti of 150 / 250 mm wide at window all four sides with overlapped (at least 50 mm overlapped) sandwiched manner in a single piece for each side with full round moulding inside and champher outside. Cut both the Patti in best workmanship manner, the first bottom Patti is of size 120 / 200 mm and top Patti of 60 / 100 mm. edge moulding of full round shape on one side of 60 / 100 mm Patti and chamfer of other side at polished stone. For 120 mm wide granite chamfer and mirror polish on exterior side. Use araldite/ bond tight for sticking small marble gravels of approved size, minimum 20 mm in size, joining the 60 / 100mm patti on 140mm patti with approved adhesives as per the design by the architect, make all the patties in this manner. No cracked / braking patti use in this part.

**6.3 Laying :**

- The wall surface shall be covered 20 mm. thick plaster of cement mortar 1:4 mix and allowed to harden. The plaster shall be roughened with wire brushes both ways. The back of stone shall be floated with gray cement slurry and edges with white cement slurry set in bedding mortar. The Green marble / Granite stone shall be gently tapped in position one after the other keeping the joints as this as possible. Top f skirting or dado shall be truly horizontal and the joints vertical or as per required pattern.
- Risers of steps, skirting and dado shall rest on top of treads or flooring. Where the Green marble / Granite stone shall be cut to the required size and the edges be smoothed. Surface shall be washed clean.
- The joints shall be cleaned and flush pointed with white cement. The surface shall be kept wet for seven days. After curing the surface shall be washed clean.
- All joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing moulding and polishing to edge to give high gloss finish etc. complete at all levels.

**6.4 Mode of measurement & payment :** The rate shall include the cost of all materials and labour required for various operations described above. Risers of steps, skirting and dado shall be measured in square meters. Length and height shall be measured along the finished face of the skirting or dado including curves, where special such as covers, internal and external angles, etc. used. The length and height shall be measured correct to the centimeter except in cast of riser and skirting where height shall be measured correct to 3 mm. Rate to include for cutting, Polishing, edge moulding, joining with adhesives, white cement, wastages of any etc at any level. Measurement shall be on the basis of net area of laid.

**FLOORING MATERIALS:**

Vitrified Tiles: The tiles shall be of approved make like Asian / Somani / RAK / city / asian / Euro / Nitco or equivalent and shall generally conform to the approved standards. They shall be flat and true to shape, free from cracks, crazing spots, chipped edges and corners. Unless otherwise specified, the nominal sizes of tiles shall be as under:

The tiles shall be square or rectangular of nominal sizes such as: 600 x 600 mm or as per tender schedule / drawings or as directed by the engineer-in-Charge. Thickness shall be as per mentioned in specification. Technical specifications of the tiles shall be generally conforming to the Following standards

**TECHNICAL SPECIFICATION FOR VITRIFIED TILES**

NO	PROPERTY	EXPECTED STANDARDS
1	Deviation in length	(+/-) 0.6 %

2	Straightness of sides	(+/-) 0.5 %
3	Rectangularity	(+/-) 0.6 %
4	Surface flatness	(+/-) 0.5 %
5	Water absorption	< 0.5 %
6	Mohs. Hardness	> 6
7	Flexural strength	> 27 N/sq mm
8	Abrasion resistance	< 204 sq mm
9	Skid resistance (friction coefficient)	> 0.4
10	Glossiness	Min. 85 % reflection

## 2.0 PREPARATION OF SURFACE FOR FLOORING:

Following procedure shall be followed:

Sub grade concrete or RCC slab or side brick wall / or plastered surfaces on which tiles are to be laid shall be cleaned, wetted and mopped as specified for terrazzo tile flooring.

Mortar & bedding: Cement mortar for bedding shall be prepared of mix 1:4 or as specified in the schedule of items, to a consistent paste and shall conform to the specification of material, Preparation etc. as specified under cement mortar. The amount of water added while preparing mortar shall be then minimum necessary to give sufficient plasticity for laying. The mortar of specified proportion and thickness shall then be evenly and smoothly spread over the base by use of screed battens to proper level or slope. Apply on an average of 20 mm thick bedding of mortar over an area of 1 sq m at a time over surface of the area for laying of tiles, in proper level and allowed to harden sufficiently to offer a fairly good cushion for the tiles to set.

## 3.0 LAYING OF TILES FOR FLOORING:

The tiling work shall be done as per the pattern shown in the drawing or as directed by the Engineer in-charge. As a general practice laying of tiles shall be commenced from the centre of the area and advanced towards the walls. Cut tiles, if any, shall be laid along wall with necessary border pattern as shown / directed by Engineer in charge. Tiling work shall be completed by pressing tiles firmly into place along the wall / floor. White cement slurry to the back of the tile to the applied to ensure the proper and full bedding. The edges of the tiles shall be smeared with neat white cement slurry and fixed in this grout one after the other, each tile being well pressed and gently tapped with a wooden mallet till it is properly bedded and in the level with the adjoining tiles. There shall be no hollows in bed or joints. The joints shall be kept as close as possible and in straight line. Unless otherwise specified, joint less tiling shall be done butting the tiles with each other. If joint is specified, the same shall not be exceeding 1 mm in width. The joint shall be grouted with white / matching color cement slurry. After fixing the tiles, finally in an even plane or slope, the flooring shall be covered with wet sand and allowed undisturbed for 14 days.

**4.0 GROUTING OF JOINTS IN FLOOR / SKIRTING / DADO:** The joints, if specified, shall be cleaned off and dust and loose particles removed. Joints shall then be filled with approved adhesive like kera koll / letter Crete / BAL / ENDURA or equivalent grouts. After finishing the grouting process, after 15 minutes, wipe off excess grout with a damp sponge and polish the tiles with a soft & dry a clean surface. The finished work shall not sound hollow when tapped with a wooden mallet.

**5.0 MODE OF MEASUREMENT AND RATE:** Dado / flooring / skirting shall be measured in sq m correct to two places of decimal. Length and breadth shall be measured correct to a cm. and its area shall be calculated

in sq. mt. up to two places of decimal. Length and breadth shall be measured correct to 1 cm. between the exposed surfaces of skirting or dado. No deductions shall be made or extra paid for any opening of area up to 0.1 sq m. The rate shall be including all the cost of labour and materials involved.

**6.0 PROTECTING THE FLOOR TILL THE WORK IS COMPLETE :** Vitrified tiles flooring shall be covered with wet sand / protecting sheets / plaster of Paris sheets and allowed undisturbed for 14 days. It should be covered until the all the civil work is complete.

**7.0 CLEANING AGENTS FOR VITRIFIED TILES:** Vitrified tiles are resistant to all chemicals (except hydrofluoric acid and its derivatives), hence commercially available detergents and cleaning agents can also be used for regular maintenance. Any spills and stains must be removed immediately. If left dry they may leave stains, which may be difficult to remove completely.

### **M. S. GRILL**

M.S. bars and M.S. grills with round, / square bright bars and with flat shall be cut and/or fabricated and fixed as per drawing and/or welded all as directed by EIC. All structural steel shall conform to I.S. 226 -1963 sections for grills and shall be free from loose mill scales, rusts, pitting or any other defects affecting its strength and durability. Polyester powder coated ms bright bars (minimum thickness of polyester powder coating 50 micron)

**A) M.S. PIPE RAILING :** The M.S. pipe railing shall be fabricated as per drawings and instructions of EIC, out of 40 mm dia. or 50 mm dia. nominal bore. Unless otherwise shown on the drawings or as directed, the top horizontal or inclined pipe shall be at a height of 0.5 meter. The top pipes will be bent at ends and form into vertical support. The vertical supports shall consist of 40mm to 50mm pipe as shown on the drawing or as directed/ specified, at not more than 1.5 metre centers. All vertical pipes shall be embedded in floor to a depth of 250 mm in foundation block of 300mm x 300mm x 300 mm in cement concrete 1:2:4 (nominal mix) (1 cement: 2 sand: 4 stone aggregate 20mm nominal size). Alternatively, if directed, the pipes shall be welded to M.S. plate 225 mm x 150mm x 6mm fixed flush in cement concrete block as above with holdfasts welded to the three sides of M.S. plate anchored in cement concrete. The floor shall be cut to required size and depth and after casting the foundation blocks, made good to match with the rest of the floor. The vertical pipes shall be full from foundation to the top horizontal, which shall be continuous without any break. The middle horizontal pipe shall be continuous between vertical supports. The joints shall be properly made and welded and the welding finished giving a smooth surface. The railing shall be fixed truly vertical and shall have a neat appearance. The railing shall be powder coated.

**B) workmanship :** M.S. round bright bars of 12 mm shall be fixed in 35 mm x 6mm frames by providing through hole on one side of the frame and a hole 50mm deep in other and the bars should be exact length to reach 50mm in one and flush with outside of the frame on the other side of the frame. On steel windows, the round or square bars shall be welded on the frame with good workmanship. M.S. grills shall be fabricated and fixed to frames by screws. The welding, cutting holes through flats, bending etc. shall be carried out to required length and design and precision and the complete work shall give neat appearance. All the excess welding sports, etc. shall be properly ground and finished smooth. All the steel concealed or exposed shall receive one coat of red oxide zinc chromate primer. All exposed steel work shall be powder coated of approved quality, colour and shade. The grill when directed shall be fixed in the masonry, jambs with screws fixed on wooden gutties embedded in masonry all as directed. The grill shall be true to pattern in form and dimensions. Gills shall not be painted until they have been inspected and approved by the EIC.

### **FABRICATION :**

The grill shall be fabricated to the design and pattern shown in the drawings. All joints shall be made in best workman like manner with slotting and welding as required to the specified size and shape. The edge of

the M.S. flats shall be suitably mitred before welding to get the desired shape. The joints shall be filled to remove excess stay after welding. Screws, nuts, washers, bolts, rivets and any other miscellaneous fastenings, devices shall be of steel and shall be provided by the contractor. Manufactured M.S. grills then are fixed in between the posts, balusters, M.S. frame work etc. to correct alignment. Any undulations, bends etc. found shall be rectified by the contractor at his own cost. The complete assembly of grill/railing so fixed shall be firm and there shall not be any lateral movements.

**Welding :** Where welding is adopted, it shall be done as per relevant I.S. 820.

#### **INSTALLATION :**

The approved grills shall be fixed in position where specified and shown in drawings including in masonry walls, teakwood frames, hand railings etc. Any damages to walls, frames etc. caused during fixing the grills shall be made good by grouting with cement mortar/ packing/ repairing properly at the contractors cost.

**Painting :** Painting shall be done as per the specification specified under painting.

**Mode of measurement & payment :** : M.S. bars and M.S. grills shall be measured in kgs. Grill work, the complete length of M.S. bars and flats as fixed as per drawing shall be measured separately correct to a cm. The exact weight in kg. Correct to two places of decimals shall be calculated from standard tables. No allowance shall be made of pipes which are inside the wall area for fitting. No allowance shall be made for wastage, welding, nuts, bolts, screws, holdfasts, if any. No deduction shall be made for holes in flats, etc.

#### **WATER SUPPLY & SANITARY (PLUMBING WORKS)**

The form of Contract shall be according to the "Conditions of Contract". The following clauses shall be considered as an extension and not in limitation of the obligation of the Contractor.

1.1 Work under this Contract shall consist of furnishing all labour, materials, equipment and appliances necessary and required to completely install the water supply systems required by the drawings. The Contractor is required to completely furnish all the plumbing and other specialized services as described hereinafter and as specified in the Bill of Quantities and/or shown on the plumbing drawings.

1.2 Without restricting to the generality of the foregoing, the sanitary installations, the water supply system shall include the following:-

- i. Pipe protection & painting.
- ii. Connections to all plumbing fixtures, tanks, pump etc.
- iii. Providing hot water pipe lines and supply point with isolation valves, wherever required.
- iv. Control valves, masonry chambers and other appurtenances.
- v. Connections to all plumbing fixtures, tanks and appliances.
- vi. Excavation and refilling of pipe trenches, wherever necessary.
- Vii. Internal galvanized water supply piping inside the toilets shaft/plant room/terrace
- viii. Testing all line and fixtures as specified.

#### 1.3 Plumbing Works

- Sanitary Fixtures
- Soil, Waste, Vent, Pipes & Fittings
- Water Supply System
- Sewerage & Drainage

1.4 Services rendered under this section shall be done without any extra charge.

#### **GENERAL REQUIREMENTS**

- All materials shall be new of the best quality and shall be furnished, delivered, erected, connected and finished in every detail conforming to specifications and subject to the approval of Client's Representative.
- Pipes and fittings shall be fixed truly vertical, horizontal or in slopes as required in a neat workmanlike manner.
- Short or long bends shall be used on all main pipe lines as far as possible. Use of elbows shall be restricted for short connections.
- Pipes shall be fixed in a manner as to provide easy accessibility for repair and maintenance and shall not cause obstruction in shafts, passages etc. and shall be selected and arranged so as to fit properly into the allocated building space
- Pipes shall be securely fixed to walls by suitable clamps at intervals specified
- Valves and other appurtenances shall be located to provide easy accessibility for operation, maintenance and repairs.
- Connection between dissimilar materials

### **Specifications**

2.1 Work under this Contract shall be carried out strictly in accordance with specifications attached with the tender.

2.2 Items not covered under these specifications due to any ambiguity or misprints, or additional works, the work shall be carried out as per specifications of the latest Central Public Works Department with upto date amendments as applicable in the Contract.

2.3 Works not covered under Para 2.1 and 2.2 shall be carried out as per relevant Codes & Bureau of Indian Standards and in case of its absence as per British Standard Code of Practice.

### **CPVC PIPES & FITTINGS:**

The pipes and fittings chemically known as Chlorinated Poly Vinyl Chloride [CPVC] shall be produced in Copper Tube Size [CTS] from ½" to 2" with two different standard dimensional ratios— SDR 11 and 13.5. The fittings shall be produced as per SDR 11. All the CPVC pipes and fittings in SDR 11 and SDR 13.5 shall be made from the identical CPVC compound having the same physical properties. Pipes and fitting shall be produced as per SDR 11& shall meet the requirement of ASTM D 2846 where as the pipes produced with SDR 13.5 shall meet the requirement derived from ASTM F 442,specific to CPVC in Iron Pipe Size[IPS] dimension, which also shall be applied to CPVC pipes in Copper Tube Size[CTS] dimension.

### **CUTTING AND JOINTING AND INSTALLATION OF CPVC PIPES &FITTINGS:**

i. **CUTTING:** In order to make a proper and neat joint, the pipe length shall be measured accurately and make a small mark. Ensure that the pipe and fittings are size compatible. It shall be easily cut with a wheel type plastic pipe cutter or hacksaw blade. Cutting tubing as squarely as possible shall provide optimal bonding area within a joint.

ii. **DEBURRING / BEVELING:** Burrs and filings shall prevent proper contact between tube and fitting during assembly and should be removed from the outside and inside of the pipe. A pocket knife or file shall be used for this purpose. A slight bevel on the end of the tubing shall ease the entry of the tubing into the fitting socket.

iii. **FITTING PREPARATION:** Using a clean, dry rag, wipe dirt and moisture from the fitting sockets and tubing end. The tubing should make contact with the socket wall 1/3 to 2/3 of the way into the fitting socket

**iv. SOLVENT CEMENT APPLICATION:** Use only CPVC cement or an all– purpose cement conforming to ASTM-493 or joint failure may result. When making a joint, apply a heavy, even coat of cement to the pipe end. Use the same applicator without additional cement to apply a thin coat inside the fitting socket. Too much cement can cause clogged water ways.

**v. ASSEMBLY:** Immediately insert the tubing into the fitting socket, rotate the tube  $\frac{1}{4}$  to  $\frac{1}{2}$  turn while inserting. This motion will ensure an even distribution of cement within the joint. Properly align the fittings. Hold the assembly for approximately 10 seconds, allowing the joint to set-up

**vi. SET AND CURE TIMES:** Solvent cement set and cure times are a function of pipe size, temperature and relative humidity. Curing time is shorter for drier environments, smaller sizes and higher temperatures. It requires 10 to 20 minutes for perfect joint.

**vii. CEMENTING:**

- 1) Verify the cement is the same as the pipes and fittings being used.
- 2) Check the temperature where the cementing will take place.
  - a) Cement takes longer time to set up in cold weather. Be sure to allow extra time for curing. Do not try to speed up the cure by artificial means– this could cause porosity and blisters in the cement film.
  - b) Solvents evaporate faster in warm weather. Work quickly to avoid the cement setting up before the joint is assembled. Keep the cement as cool as possible. Try to stay out of direct sunlight.
- 3) Keep the lid on cements, cleaner and primers when not in use. Evaporation of the solvent will affect the cement
- 4) Stir or shake cement before using.
- 5) Use  $\frac{3}{4}$ " dauber on small diameter pipes, 1  $\frac{1}{2}$ " dauber up through 3" pipe, and a natural bristle brush, swab or roller  $\frac{1}{2}$  the pipe diameter on pipes 4" and up.
- 6) Do not mix cleaner or primer with cement.
- 7) Do not use thickened or lumpy cement. It should be like the consistency of syrup or honey.
- 8) Do not handle joints immediately after assembly.
- 9) Do not allow dauber to dry out.
- 10) Maximum temperature allowable for CPVC pipe is 180o F.
- 11) All colored cements, primers and cleaners will have a permanent stain. There is no known cleaning agent.
- 12) Use according to the step outline in ASTM D – 2846, joining of pipe and fittings.

**(B) UPVC PIPES & FITTINGS:**

**MATERIALS:**

- (1) Approved Quality 8Kg/cm<sup>2</sup> ISI mark, SCH-40 UV Stabilized Rigid PVC Pipes
- (2) Matching specials.                      (3) Sealant                      (4) Fixtures & Fastenings

Follow specifications for laying as described in above item of CPVC pipes, except that words "CPVC Pipe" is replaced by 'UPVC Pipes'. Cost of all materials and labour is included, wherever possible the joints are made water tight by welding or using appropriate sealant and measurements are recorded in meters.

**(C) INTERNAL DRAINAGE (SOIL, WASTE, VENT AND RAIN WATER PIPES) :**

**SCOPE :** Work under this section shall consist of furnishing all labour, materials, equipment and appliances necessary and required to completely install all soil, waste, vent and rainwater pipes as required by the drawings, specified hereinafter and given in the Bill of Quantities.

Work under this section shall consist of furnishing all labour, materials, equipment and appliances necessary and required to completely install all soil, waste, vent and rainwater pipes as required by the drawings, specified hereinafter and given in the Bill of Quantities

Without restricting to the generality of the foregoing, the soil, waste, vent and rainwater pipes system shall include the followings:-

1. SWR / UPVC vertical and horizontal soil waste and vent pipes, rainwater pipes and fittings, joints clamps and connections to fixtures.
2. Floor traps, floor drain clean out plugs, inlet fittings and rainwater roof drain, area/local drains, trench drain.
3. Waste pipes connections from all fixtures e.g. wash basins, sinks, kitchen equipment
4. Testing of all pipes & Connection to the main.

### GENERAL REQUIREMENTS

- a) All materials shall be new of the best quality conforming to specifications and subject to the approval of Client's Representative.
- b) Pipes and fittings shall be fixed truly vertical, horizontal or in slopes as required in a neat workmanlike manner.
- c) Pipes shall be fixed in a manner as to provide easy accessibility for repair and maintenance and shall not cause obstruction in shafts, passages etc.
- d) Pipes shall be securely fixed to walls by suitable clamps at intervals specified
- e) Access doors for fittings and cleanouts shall be so located that they are easily accessible for repair and maintenance.
- f) All works shall be executed as directed by Client's Representative

### **(D) SWR PIPES AND FITTINGS:**

Soil, waste, vent SWR Ring Fit pipes with socket and spigot. All pipes shall be straight and smooth and inside free from irregular bore, blow holes, cracks and other manufacturing defects. These pipes conform to Indian Standard IS : 4985 –2000 and are designed to withstand continuous internal hydraulic pressure of 6Kgf/cm so as to ensure life-long trouble free working. The pipes are provided with an integral rubber ring type socket at one end while the other end is kept plain, smooth and free from burrs. Rubber ring type socket ends provide easy push– fit type jointing. Simultaneously, allowance for thermal expansion can also be provided during installation. Pipes shall be centrifugally spun iron soil pipes conforming to sand cast I.S. 1729-1967.

### **FITTINGS:**

Fittings shall conform to the corresponding Indian Standard as for pipes. Contractor shall use pipes and fittings of matching specification. Access door shall be secured air and water tight with 3mm thick insertion rubber washer and white lead. The bolts shall be lubricated with grease or white lead for easy removal.

### **JOINTING:**

Rubber Seal Rings for Joints & Access Doors: Manufactured in accordance with IS : 5382 for 75 mm / 90 mm / 110 mm sizes. These are made out of natural rubber with a shore 'A' hardness of 40 × 5. Provide superior resistance to biological attack. Special design of cross section ensures perfect sealing.

**Lubricant:** Available in 100 gms, 250 gms & 500 gms packing. It is specially formulated for compatibility with rubber seal as well as PVC. It does not support the growth of bacteria or fungi.

**IPE, HANGERS, SUPPORT, CLAMP, BRACKE ETC.:**

Support : UPVC pipes require supports at close intervals. Recommended support spacing for un plasticized PVC pipes is 1400 mm for pipes 50 mm dia and above. Pipes shall be aligned properly before fixing them on the wooden plugs with clamps. Even if the wooden plugs are fixed using a plumb line, pipe shall also be checked for its alignment before clamping, piping shall be properly supported on, or suspended from clamps, hangers as specified and as required. The Contractor shall adequately design all the brackets, saddles, anchors, clamps and hangers and be responsible for their structural sufficiency. Pipe supports shall be primer coated with rust preventive paint.

**TESTING:** Before the system is put into use, it should be tested for leakages by air test, hydraulic test or smoke test.

**(E) WASTE PIPE FROM APPLIANCES:**

Waste pipe from appliances e.g. wash basins, sinks, urinals, chrome plate where seen water coolers shall be of galvanized steel (heavy class) conforming to IS:1239-1979

All pipes shall be fixed in gradient towards the outfalls of drains. Pipes inside toilet room shall be in chase unless otherwise shown on drawings. Where required pipes may be run at ceiling level in suitable gradient and supported on structural clamps. Spacing for clamps for such pipes shall be as follows the general practice.

**TRAPS**

**NAHANI TRAP OR FLOOR TRAPS:**

Nahani traps or floor traps shall be cast iron, deep seal with an effective seal of 50 mm. The trap and waste pipes shall be set in cement concrete blocks firmly supported on the structural floor. The blocks shall be in 1:2:3 mix (1 cement: 2 coarse sand: 4 stone aggregate 20 mm nominal size) mixed with water proof compound and extended to 40 mm below finished floor level. Contractor shall provide all necessary shuttering and centering for the blocks. Size of the block shall be 30 x 30 cms of the required depth. The trap shall be installed at lowest point ensure no pending occurs at perimeters of the drain.

**FLOOR TRAP INLET**

Bath room traps and connections shall ensure free and silent flow of discharging water. Where specified, the Contractor shall provide a special type galvanized iron inlet fitting without or with one, two or three inlet sockets to receive the waste pipe. Joint between waste and fitting shall be connected to a C.I. 'P' or 'S' trap with at least 50mm seal (Hopper and traps shall be paid for separately). Floor trap inlet fittings and the trap shall be set in cement concrete blocks

**C.P./STAINLESS STEEL GRATINGS**

Floor and Urinal traps shall be provided with 100-150mm square or round C.P./Stainless steel grating as approved by Client's Representative with rim, of approved design and shape. Minimum thickness shall be 4-5mm or as specified in the Bill of Quantities.

**Execution of work**

- The Contractor should visit and examine the site of work and satisfy himself as to the nature of the existing roads and other means of communication and other details pertaining to the work and local conditions and facilities for obtaining his own information on all matters affecting the execution of

work. No extra charge made in consequence of any misunderstanding, incorrect information on any of these points or on ground of insufficient description will be allowed.

- The work shall be carried out in conformity with the Plumbing drawings and within the requirements of architectural, HVAC, electrical, structural and other specialized services drawings.

### **Drawings**

- Contract drawings are diagrammatic but shall be followed as closely as actual construction permits. Any deviations made shall be in conformity with the architectural and other services drawings.
- Architectural drawings shall take precedence over plumbing or other services drawings as to all dimensions.
- Contractor shall verify all dimensions at site and bring to the notice of the Architect all discrepancies or deviations noticed. Decision of the Architect shall be final.
- Large size details and manufacturers dimensions for materials to be incorporated shall take precedence over small scale drawings.
- Any drawings issued by the Architects/Consultant for the work are the property of the Architects/Consultant and shall not be lent, reproduced or used on any works other than intended without the written permission of the Architects/Consultant

### **SANITARY SUPPLIES**

All items in this category are of best quality manufactured by an approved firm and sizes as specified in the Bill of Quantities.

#### **(A) EUROPEAN W.C.**

- European W.C. of glazed vitreous china shall be wash down, single or double symphonic type, floor or wall mounted set, flushed by means of flush valve as specified in Bill of Quantities. Flush pipe / bend shall be connected to the W.C. by means of suitable rubber adopter. Wall hung W.C. shall be supported by C.I. floor mounted chair, concealed cistern flush tank etc.
- Each W.C. seat cover shall be so fixed that it remains absolutely stationary in vertical position without falling down on the W.C. Seat cover shall be of white solid plastic, elongated open front with heavy duty hinges. Exposed fixture trims shall be Chrome plated, and trims of similar function shall be by the same manufacturer.
- Flush valves shall be of the best approved quality procurable with C.P. control valve and C.P. flush pipe. The flush pipe/bend shall be connected to the WC by means of a suitable rubber adopter.
- The levels of the WC should be checked by placing spirit level on the W.C. W.C. should be tested on completion of fixing by putting small paper balls and flushing out. If all the paper balls are not flushed out, the fixing will have to be rectified / re-aligned.

#### **(B) KITCHEN / PANTRY SINKS**

- Sinks shall be of stainless steel material as specified in the Bill of Quantities / Drawings.
- Each sink shall be provided with R. S. brackets and clips and securely fixed. Counter top sinks shall be fixed with suitable angle iron clips or brackets as recommended by the manufacturer.
- Each sink shall be provided with 40 mm dia Chromium Plated waste with chain and plug or P.V.C. waste with Escutcheon plates Fixing shall be done as directed by Client's Representative
- Supply fittings for sinks shall be mixing fittings or C.P. taps, angle cocks etc. all as specified in the Bill of Quantities/Drawings.

#### **(C) WASH BASINS**

- Wash basin shall be of white / colored vitreous china of best quality manufactured by an approved firm and sizes as specified in the Bill of Quantities.
- Wash basin shall be of under counter drop in type shall be supported on a pair of rolled steel brackets of approved design and shall be mounted on a countertop. So that rim and basin bowl is exposed from top.
- Wash basin shall be provided with single lever mixer with chain and rubber plug, chromium plated brass bottle trap of approved quality, design and make where hot water required. Single tap where hot water is not required.
- Wash basin shall be fixed at proper location and height and truly horizontal as shown on drawing or as directed by Client's Representative

#### **PAINTING:**

Supplying and applying wall & ceiling painting (three coats = 1 coat of primer & 2 – coats) of approved make Acrylic emulsion paint of Berger paints / Asian Paint / ISI brand or equivalent in any shades and colors as directed including cleaning and preparation of the surface at any height with all labour and material etc including removal / scraping of existing paint / thoroughly brushing the surface free from mortar dropping & other foreign matter & sand, prepared smooth surface preparation, application of one coat of putty and primer and minimum 2 coats of paint complete. (Minimum 2 coats to be applied but if needed more coats to be applied). Cost of primer putty included. Materials: 1) approved quality acrylic emulsion paint 2) approved make primer 3) birla white putty.

**PROCEDURE:** Work of Acrylic Emulsion Paint should be carried out in dry season. Before applying the paint, clean the surfaces by scrapping off old paint, scrapping with sand paper and cleaning the dust with soft cloth. Check up whether appropriate primer has been applied.

Before starting work of painting, window panes and other places where the particular colour is to be avoided should be covered with protective membranes like paper, plastic, masking tapes etc. When a particular pattern is required, stencils should be cut and pasted on the surfaces. Floors immediately below the doors & windows be covered with paper or cloth to prevent staining the same with paint.

Scrap off any excess primer; apply putty (Lapi) for even and smooth finish of the surface. After drying the coat of Lapi, apply with brush a coat of Acrylic Emulsion Paint, of approved make and colour, as per manufacturer's directions. In each coat applied with brush, crossing of direction of brush operations should be done for even spread of paint.

Second coat shall be applied in a similar way after complete drying off the first coat and after making the first coat smooth by rubbing with sand paper. After drying of the second coat, clean the surfaces by wiping or thinner. Final touching of paint should be do neat the time of handing over.

#### **INCLUSIONS:**

Cost of Acrylic Emulsion Paint of approved company & shade, all labour for scrapping, cleaning, applying colour coats, arranging and shifting scaffolds, ladders, sprayer pump and hose pipes with jets etc. are included.

**MODE OF MEASUREMENT:** Dimensions of total painted areas are recorded and area is computed in square meters as per relevant part of IS: 1200 (Mode of Measurement), rounded to two places of decimal.

#### **M S WORK.**

For all the MS grill / gate work the contractor must attach the copy of weight bridge showing the weight of various materials. The weight of the work must be attached in a sheet showing length of the section / pipe with weight as per IS standards with total executed work quantity to clarify the weight of the Grill / Gate work.

Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 m openable length ( total length 90 m), having 50 nos rounds per 6 m length, upto 2 m height of wall with existing angle iron 'Y' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/mm<sup>2</sup> with tape (0.52 mm thick) and weight 43.478 g/m .

punched type concertina coil (PTCC) is to be provided and fixed in position on top of the boundary wall (approx 63 m long). concertina coil have to be provided and fixed as running coils above the column height as per given drawings. Concertina coil shall be fixed to MS angles with the help of U nails / split pin with minimum 1'0" inside the column. approximately 28 sets of angles will be required - 2 angles per section of the wall as per the drawing.

The MS angle will be welded to the existing column steel bars(where ever possible) & will be painted with 2 coats of appropriate coats with primer coat. Supporting punched tape wire (With same specifications of core wire and blade strip as in concertina coils) in straight wires is required to be fixed on angles in 3 rows each side of the angle.

S.No.	Parameter	Specifications
1.	Coil Diameter	600mm when placed in position
2.	Weight	Each coil with 50 turns/loops should be around 9-10kgs $\pm$ 5%. If the turns/loops are less, the weight shall be correspondingly less.
3.	Steel Strip	The Punched Tape should be CR3 grade cold reduced low carbon steel with pre-painted aluminium zinc alloy 120.
	<b>Spring Core Wire</b>	
4.	Material	Should be high carbon steel, high tensile steel min tensile strength of 1600 mpa
5.	Diameter	2.6mm – 3mm
6.	Zinc Coating	The core wire should have thickness of hot dipped galvanized zinc to 240g/m <sup>2</sup> (as per specification BS EN ISO 1461)
7.	Expandability	About 6 meters
	<b>Razor Barb</b>	
8.	Length	7-8 mm
9.	Spacing	18-20 mm
10.	Blade Thickness	0.5 mm – 0.7 mm, hardness 137 to 185 viakers (penetration number)
11.	Strip Width	14 - 15 mm
12.	Centre Width	22 - 23 mm
13.	<b>MS Angles size</b>	40x40x5 mm

### List of Approved make materials

The following are approved brand makes/manufacture's makes listed below. In case It is established that material as listed below is not available in the market, approved equivalent material and finished of any other specialized brand names/ manufacturer's makes may be used as per approval of BANK/ Architect/Consultant.

SR	ITEM	APPROVED MAKE
A	<b>CEMENT</b>	
1	GREY CEMENT	AMBUJA, ACC, GRASIM ULTRATECH (L & T ) As per latest approved list from R&B Dept
2	WHITE CEMENT	JK, BIRLA
B	<b>STEEL BARS AND SECTIONS</b>	AS PER R & B APPROVED LIST
1	TMT"Fe-415 i 500D" Ribbed bars	Tata, RINL.(VIZAG).SAIL, GALLANT
2	Structural Rolled Steel sections-beams	Tata, SAIL, RINL. tee, flats, angles, bars (round, square, hexagonal)
3	Structural Hollow steel sections	(Square & Tata, Asian, Jindal, Surya, Apollo. Rectangular)
4	Structural tubular sections	Tata, Asian, Jindal, Surya, Apollo.
C	Coarse Aggregates(machine cut)	6mm to 40mm sizes Approved quarry from Sevalia. (Hard black trap stone)
D	Stone Rubbles & Gravels	Approved quarry from Sevalia. (Hard black trap stone)
E	Shuttering plywood	Anchor, Green, Century, EURO
1	Waterproof/Marine grade plywood	as per -IS-710(BWP) Anchor, Green, Century
F	<b>BRICKS</b>	Jay Jalaram Bricks / EQUIVANT GOOD QUALITYAPPROVED BY EIC
G	<b>TILES (GLAZED/CERAMIC/VITRIFIED)</b>	
1	GLAZED TILE S	NITCO, SOMANI, JOHNSON, KAJARIA
2	CERAMIC TILES	NITCO, SOMANI, JOHNSON, KAJARIA
3	VITRIFIED TILES	SOMANI, NITCO, EURO, JOHNSON, KAJARIA, SIMPOLO
4	Paver block	Vyara, Supereq
H	<b>PAINTS</b>	
	<b>PAINTS</b>	ICI, ASIAN, BERGER, NEROLAC, JOHNSON & NICOLSAN
1	ANTI CORROSIVE PAINT	TIKITAR, FINCOAT
2	RED OXIDE	ASIAN, NEROLAC
3	POLISH	ASIAN MELAMINE
4	EXTERIOR PAINTS	AEP- APEX, ULTIMA
5	ENAMEL PAINT	ICI,NEROLAC
I	<b>SANITARYWARE</b>	
1	WASH BASIN, URINALS, W.C.	HINDWARE, JAQUAR
J	<b>S.S. SINK</b>	NIRALI OR EQUIVALENT
K	<b>SANITARY FITTINGS</b>	
1	BIB / STOP / ANGLE COCK & OTHER C.P.	JAQUAR (CONTINENTAL/FLORENTINE)

	BRASS FITTINGS	
I	<b>PIPE / PIPE FITTINGS</b>	
1	C.I. PIPES	NECO
2	G.I. PIPES	SURYA, TATA OR EQUIVALENT
3	PVC PIPES & FITTINGS	PRINCE, SUPREME, FINOLEX
4	GULLY TRAP	APPROVED BY EIC
5	C.I. GULLY TRAP COVER	NECO
6	INSPECTION COVER	NECO
L	<b>GLASS / MIRROR</b>	SAINT GOBIN, MODI FLOAT
M	<b>WATER PROOFING</b>	
1	WATER PROOFING COMPOUND/ CHEMICAL	PIDILITE, CHEMBOND, FAIRMATE
2	HARDENERS	IRONITE, FERROK, HARDONITE
3	TILE FIXING ADHESIVE	FAIRMATE, PIDILITE, LATIGRATE, OR EQUIVALENT
4	SEALENT	FOSROC, GE SILICONES
N	CONSTRUCTION CHEMICALS	
1	Plasticizers, Bonding agents, SBR micro concrete	BASF, Fosroc
2	Water proofing chemicals, Chemical Water proofing & Integral water proofing compound Crystalline water proofing	Cicoor Pidilite Penetron or Kryton
3	Silicon sealant/Silicon paint	Wacker, Dowcorning, GE, Soudal, Bostik
4	Poly-sulphide sealant P.U sealant	Pidilite, Chawksey, Sika (Exterior Grade-UV resistant)

#### PAINT

Providing and applying 2 or more coats (using roller) of approved quality synthetic enamel/acrylic emulsion paint of approved color as per manufacturers specification at all levels and -heights, including removing existing paint, previous dust, oil, grease or loose particles, complete surface treatment of approved primer, adequate coats of enamel putty to make the surface uniform and free of undulations etc. complete, and finished as directed and to the satisfaction of the architect.

A	<u>INTERIORWORK</u>	
1	Vitrified floor tiles(600mmx600mm )	Johnson/Somani /AGL
2	Adhesive	FavicolSH /Bluecoat /Royel bond /
	Sealant	Pidilite / Roaper
3	Paint on Wall & Ceiling	Asian Paint / Nerolac
4	Paint on Wood: Polyurethane systems(PU )	SircaPaint/Asianpaint
5	Plywood(IS 303MR)/waterproof ply IS 701 / Block Board IS 1659 /Flush Door IS 2202	Green / Century / Anchor / Archid / Mayur /Kit[IS 303 BWR]/Samrat
6	Laminate IS 2046	Green / Formica / Sunmica / Marino / Bloom

		/Century/Archid
7	MDF Exterior Grade ISI Mark	Nuwood / Action tesla / Dura turff /Century/Green
8	Bison board	NCL Industries
9	Timber for lipping, moulding & when Furniture is to be finished in polish	Superior quality seasoned Ghana teak.
10	Timber for all other type of furniture work	First class seasoned C. P. Teak.
11	Decorative laminate(1.0mm)	Marino/Green/Sunmica/Formica
12	Exterior Grade Compact Laminate(5mm,6mm)	Clads(Greenlam)/Staylam
13	Veneer	Green ply nature max/Century/Lignin
14	Hardware	
	a)Latches	Ebco /Hafele /Hettich / ENOX / OZONE
	b)Locks	Ebco/Hafele /Hettich /Godrej / ENOX / OZONE
	c)Screw	Nettle fold /GKW /Hafele
	d)Floor Spring	Doorset /Dorma /Ozone/Godrej
	e)Patch Fitting	Dorma/Haffle /Ozone
	f)Handles	Doorset/Ozone /Godrej
	g)Drawer slides telescopic	Ebco/Hafele /Hettich
	h)Keyboard tray	Ebco/Hettich/Innofit
	i)CPU trolley	Ebco/Hettich/Innofit
	j)Door Closer	Ozone/Dorma /Hafele/Godrej
	k)Cable Manger	Ebco/Easy
	l)Glass Bracket	Flora/Riddhi
	m)Magnet	Suprime/Bentex/Honda
	n)Tower Bolt	Rolex/Flora/Riddhi
	o)Hinge	Suzumatt/ Garypremium
	p)Nails	Mehta/chakra/Sun
	q)L & key	Riddhi/Prince
15	Glazing, Lacquered glass	Tata/Modi guard/Saint gobain
16	Vinyl & Glass film	3MIndia /Avery Dennison
17	Roller Blinds	Vistawall fashion/Mac
18	Fabric	Masper/D Decor
19	Calcium silicate board	Saint Gobain/Usgboral /Hilux
20	Mineral fiber ceiling tiles tabulated profile	Armstrong/USG/Usgboral/AMF
21	Fire proof pvc sheet	Vardhman wonder boards /Hilux
22	Corian(Solid Surfaces)	DUPONT/LG/SAMSUNG
23	Solid hard wood floor	Vista/Armstrong/Squarfoot
24	ACP	Aludecore/Armstrong/Urobond/Timex
25	Aluminum skirting	Ozone
26	Aluminum Section	Jindal/Hindustan/Hindalco
27	Modular items like chairs, storageunits, drawer units	Featherlite/godrej/wipro
28	Wall Putty	Birla white/J. K. white
29	Texture paint	Asian/Nerolac
30	Sanitary Fixture	Hindware/Jaquare/Grohe/Kohler

31	Sanitary Fittings	Hindware/Jaquare/Grohe/Kohler
32	Wallpaper	Green/Asian
33	Float Glass/wired Glass, Mirror	Modi guard, Saint Gobain, Asai, HNG.
34	Reflective Glass	Modi guard, Saint Gobain, Asai, HNG.

**Note:**

[a] Where other Material are proposed to be used these should be got approved from the Architect/Bank's Engineer before execution of particular item. In case of Non- Availability of any material of specified make, the Alternative equivalent make should be used only after it is Approved in writing by the Employer or the Architect. The Material shall be used in preferential Order only.

[b] Before starting of work, contractor must get all samples/make approved from Architect/ Bank's authorities before using at site. The samples must be arrange on site before the site visit & site visit must be arranged with prior appointment with architect and SBI officials.

[c] Consultants/Bank's authorities reserve the right to add or delete name of any manufactures and when required. The contractor have no rights to claim any extra charges for this deviations.

[d] Consultants/Bank's authorities reserve rights to select any of the specified brands mentioned above.



**BILL OF QUANTITY**  
**(NOT TO BE FILLED)**

Sr. No.	Description	Quantity	Unit
<p>Note : Rate should be inclusive of material, labour, tools, machinery, scaffolding, final disposal of debris, cleaning, cutting, wastage etc. all taxes, transportation, VAT ,Excise, Octroi etc. Excluding GST complete. [GST Will be paid as per Applicable at the time of payment of bills] <b>Basic Rate of Items are Excluding GST</b></p>			
	<b>Basic Rate of Items are Excluding GST</b>		
<b>1.0</b>	<b>EARTH WORK</b>		
1.1	<b>EXCAVATION WORK</b>	110.00	Cu m
	Excavation in all types of soil, including murum, for foundations of wall, columns, plinth beams etc. including shoring strutting, bailing out water/pumping off water if required, refilling the trenches, foundation pits, ramming, watering consolidating in 15 cms to 20 cms layers, removing and stacking simultaneously the excavated stuff as directed within the site area upto a lead of 300 m and/or spreading soils in layers for site development and consolidating as directed etc. complete.		
1.2	Filling in foundation and plinth with murrum or selected soil in layers of 20 cm thickness including watering, ramming and consolidating etc. complete	12.00	C m
1.3	Filling available excavated earth (excluding rock) in trenches plinth, sides of foundation, etc. in layers not exceeding 20 cm in depth consolidating each deposited layer by ramming and watering.	72.00	C m
1.4	Filling in footing / plinth with sand under floors including watering ramming, consolidating and dressing etc. complete.	8.00	C m
<b>2.0</b>	<b>CONCRETE WORK</b>		
	<b>RCC work includes providing form work of ordinary timber planking's so as to give a rough finish including centering shuttering strutting &amp; propping etc. Height of propping &amp; centering below supporting floor to ceiling not exceeding 4 m &amp; removal of the same for cast in situ reinforced con. &amp; plain conc. work in</b>		
2.1	P/L PCC 1:4:8 FOR WALL FOUNDATION AND FLOOR ETC.	10.50	C m
	Providing and laying machine mixed Plain Cement Concrete 1:4:8 (1 part cement: 4 parts coarse sand : 8 parts of stone aggregate of size 40 mm and down.) for specified thickness, for foundations below walls, column footings, below floor ,Raft etc. including centering and shuttering if required, laying spreading, ramming, consolidating as per requirement and curing etc. complete as directed.		
2.2	Providing & laying controlled cement concrete M 250 & curing complete including the cost of formwork & without reinforcement of reinforced concrete work for foundation & footing	9.00	C m

2.3	Providing & Laying controlled cement concrete M - 250 exposed work with curing etc complete including cost of form work but excluding cost of reinforcement for RCC work etc complete. Providing TMT Bar FE 500D reinforcement for R.C.C. work including bending, binding and placing in position complete.		
	<b>for slab &amp; beam</b>	5.00	C m
	<b>for column from footing to top level</b>	6.00	C m
2.4	Providing CRS steel TATA / electro thermal / reinforcement for RCC work including Bending, binding & placing in position complete. The contractor must arrange the supply bill with weight certificate in details With the bill. The steel bill must be in the format of thickness of the steel bar, length of the bar used at the particular item with kg / m in detailed format as directed by architect in charge.	1,700.0	kg
2.5	P/L 230 X 150 MM / THICK RCC COPPING	70.00	R m
	Providing and laying 230mm x 150 mm thick RCC Copping in position plain cement concrete of controlled grades for reinforced cement concrete structural elements, as per structural design and as directed in using 20 mm or as specified size of blacks aggregates including design of concrete mixes, weigh batched proportioning, necessary lift and lead as specified finishing concrete surfaces, curing etc. complete including centering / shuttering and reinforcement. 3 nos 10 mm dia bars bottom and 2 nos 10 mm dia bars at top with 8 mm dia bars at 150 mm C/C Ring , with M 20 concrete at all levels.		
2.6	P/L 115 x 150 THICK RCC COPPING	5.00	R m
	Providing and laying 115mm x 120 mm thick RCC Copping in position plain cement concrete of controlled grades for reinforced cement concrete structural elements, as per structural design and as directed in using 20 mm or as specified size of blacks aggregates including design of concrete mixes, weigh batched proportioning, necessary lift and lead as specified finishing concrete surfaces, curing etc. complete including centering / shuttering and reinforcement. 1 nos 10 mm dia bars bottom and 2 nos 10 mm dia bars at top with 8 mm dia bars at 150 mm C/C Ring , with M 20 concrete at all levels.		
2.7	P/L 115X150MM THICK RCC LINTEL	1.50	R m
	Providing and laying 115 mm x 150 mm thick RCC Lintel in position plain cement concrete of controlled grades for reinforced cement concrete structural elements as per structural design and as directed in using 20 mm or as specified size of black aggregates including design of concrete mixes, weigh batched proportioning, necessary lift and lead as specified finishing concrete surfaces, curing etc. complete including centering / shuttering and reinforcement. 2 nos 10 mm dia bars bottom and 2 nos 10 mm dia bars at top with 8 mm dia bars at 150 mm C/C Ring , with M 20 concrete at all levels.		
2.8	Same as above but Providing and laying <b>450 x 150</b> mm thick RCC Lintel reinforcement. 8 nos 10 mm dia bars bottom and 4 nos 10 mm dia bars at top with 8 mm dia bars at 150 mm C/C Ring , with M 20	3.00	R m

	concrete at all levels. (for 18" thick wall)		
3.0	P/F REINFORCEMENT BARS FOR DAMAGED BARS (FE 500GRADE )	10.00	KG
	Providing and fixing reinforcement bars where were required in place of damaged reinforcement bars in RCC slab reinforcement bars shall be welded with existing reinforcement bars as per instructions complete at all levels..		
4.0	Cleaning as directed & specified all corrosion / rust / scales from reinforcement bars using rust remover Reebaklens RR of Fosroc make or Rust clean of BASF or equivalent of leaving to dry for 30 mins & washing surface with fresh water as required to exposed reinforcement bars complete as specified (cleaning and removing rust from corroded reinforcement with the help of wire brush & treating it with rust remover of approved make including thoroughly cleaning, washing, air blowing, brushing etc. complete) also providing & applying inhibition coats/system to exposed reinforcement bars after drying & also new bars after cleaning & removing scales and rust completely as specified. Two component inhibitor Concrete ZRI equivalent material of BASF make as approved by engineer shall be used as per manufacturers specification in two coats including all labour tools tackles, necessary surface preparation & necessary protection after & during repair work. . (Quantity of zinc based epoxy rust preventer only consumed shall be accounted for payment purpose. at any height - patch work)	10.00	liter
<b>5.0</b>	<b>MASONRY WORK</b>		
5.1	P/C BRICK WALLS (230 mm Thick / 450 mm thick)	100.00	Cu m
	Providing and constructing brick masonry in CM 1:6 ( 1 cement & 6 coarse sand ) with approved first class bricks having minimum crushing strength of 35 kg/sq.cm including scaffolding, racking out the joints, curing etc. Complete as directed by Engineer - in charge. For Wall at all levels below and upto plinth level. and above plinth level all heights. The work also includes to fix existing or new wooden frames in position as directed by architect in charge.		
5.2	P/C 115 MM THICK BRICK PARTITION WALLS	11.00	Sq m
	Providing and constructing 115 mm thick brick masonry in partition walls with approved good quality bricks having a crushing strength of 35 kg/sq.cm for super structure in CM 1:4 (1 cement : 4 coarse sand ) including scaffolding, racking out joints, reinforcement of 2 nos. 8 mm dia MS bars at every fourth layer , curing etc. complete as directed at all heights as follows. (Rate includes the cost of MS bars or Iron hoop) The work also includes to fixed existing or new wooden frames in position as directed by architect in charge.		
<b>6.0</b>	<b>FINISHING WORK</b>		
6.1	P/A 12 MM THICK CEMENT PLASTER ON OLD WALL AND CEILING	57.00	Sq m
	Providing and applying 12mm thick finish cement plaster at all heights and below plinth in 1:4 cement mortar to the walls, beams, ceiling,		

	stair, column, pattias, patch work grooves including scaffolding, curing & finishing smooth. The plaster surface shall be rubbed with 'Iron plate". till the surface shows cement paste in line and level complete as directed. Including dismantling existing plaster. cleaning the site and carting away debris at all levels. Its disposal also Rates includes removing switch board plates and re-fixing same after plastering.		
6.2	P/A 12MM THICK FINISH CEMENT PLASTER ON NEW WALL AND CEILING	55.00	Sq m
	Providing and applying 12mm thick finish cement plaster at all heights and below plinth in 1:4 cement mortar to the walls, beams, ceiling, stair, column, pattias, grooves including scaffolding, curing & finishing smooth. The plaster surface shall be rubbed with 'Iron plate". till the surface shows cement paste in line and level complete as directed. <b>Plaster on New walls and ceiling</b>		
6.3	P/A 19MM THICK SAND FACED CEMENT PLASTER	300.00	Sq m
	Providing and applying 19 mm thick sand faced cement plaster in two coats at all heights with first coat of 12 mm with cement mortar 1:4 (1 part cement : 4 parts of sand) and second coat of 7 mm with cement mortar 1:3 , rough finish with using sponge/ " Tipani ", on all types of concrete/brick surfaces making grooves, plaster pattas, projecting pattas patches work as per detail, including scaffolding, curing etc. complete as directed. Including dismantling existing plaster. cleaning the site and carting away debris at all levels. Its disposal		
6.4	P/A 18MM THICK CEMENT PLASTER WITH WATER PROOF COMPOUND FOR PARAPET WALL	5.00	Sq m
	Removing existing cement plaster from parapet walls and laying new 18 mm thick cement plaster in 1:4 proportion admixed with water proof compound Conplast X421 IC of Fosroc or equivalent incl. curing complete as directed. Including dismantling existing plaster. cleaning the site and carting away debris at all levels.		
6.5	FILLING CRACK IN WALL AND PLASTER	25.00	R m
	Filling crack in wall & plaster by making V shape joint with high strength non shrink free flow cement of Fosroc ( Chemical Rendroc CF ) or equivalent. Finishing the joint with Polymer cement mortar. Rate also includes cleaning the site and carting away debris at all levels.		
	<b>FALSE CEILING WORK</b>		
7.0	<b>P/F GYPSUM BOARD FALSE CEILING</b>	1.00	Sq m
	Providing and fixing Gypsum board 12.50 mm thick false ceiling in steps and design using Original Indian Gypsum board with original GI sheet section of <b>Gypsteel ULTRA ( Gypsteel Ultra shall be used)</b> supporting system in line and level. Finishing the surface and <b>applying 3 coats of Plastic emulsion paint</b> as directed complete. Entire work to be done as per standard specifications of Saint Gobin Gyproc India.		

	After completion of work, certificate from Saint Gobain Gyproc Company shall be submitted along with bill stating that work is satisfactorily completed as per their specification.		
	Note : (1) Rate includes making necessary cut-outs for lighting fixtures (2) Pattas if any shall be measured in Sq m and not in R m and paid in Sq m (3) Only finished visible surface area shall be measured for payment.		
	The item also includes Dismantling of existing gypsum/POP false ceiling including stacking of serviceable materials and disposal of unserviceable material.		
8.0	<b>PAINTING WORK</b>		
[a]	P/A ACRYLIC EMULSION PAINT (PLASTIC PAINT)	340.00	Sq m
	Providing and applying (with rollers only) Acrylic emulsion paint of required shed and approved make on new/old work in two or more coats to give an even shed including the preparation of surface for painting, applying FULL primer and putty, at all heights complete as per manufacturer's specification and as directed.		
[b]	P/A DISTEMPER PAINT	10.00	Sq m
	Providing and applying distemper paint water base of approved make & shade on old work including scrapping/cleaning and preparation of surface for painting, applying cement based primer & FULL putty of approved make. Applying distemper paint in two or more coats to give uniform covering, all heights as directed by Engineer.		
[c]	P/A SYNTHETIC ENAMEL PAINT	100.00	Sq m
	Providing and applying synthetic enamel paint, at all heights of required shade and approved make on old work including the scrapping/ cleaning and preparation of surfaces for painting, applying primer and putty, with two or more coats of approved first quality enamel.		
[d]	P/A APEX PAINT	210.00	Sq m
	Providing and applying Apex paint (Asian Paint Advanced Anti Algal whether proof emulsion) on New/Old surface at all heights and levels. Work including preparation of surface cleaning and scraping by wire brush. Filling cracks with "Rendroc cs"( fosroc) and applying coat of Hydroproof liquid mixed with white cement. Applying primer coat as per company specifications and apply 2 or more coats of paint to give uniform shed at all levels complete.		
[f]	P/A Dr. Fixit Roof seal Ultra / similar paints on terrace area on slab as per company guidelines. The work includes to clean the surface with water pressure, cleaning the creaks, filling the crakes and applying required coats of waterproofing materials as per guidelines of company. The work includes 10 years of warranty by contractor for waterproofing.	140.00	Sq m
9.0	<b>FLOORING WORK</b>		

9.1	<b>P/F VITRIFIED TILES FLOORING (Dismantling old flooring and providing new) [800 mm x 800 mm]</b>	1.00	Sq m
	Providing & fixing 800 x 800 Vitrified tiles flooring of approved make and shade for flooring as per design. in CM 1:4 over a cement mortar bedding, .Leveling the existing underneath CM bedding & providing cement slurry including light compaction as directed. The rate includes filling the joints of tiles using adhesive & pigments. The task includes fixing tiles in cement slurry with required slope & filling the joints with appropriate colour joint filler (Kera koll / lette-crete make), curing the tiles, providing the holes/cuts for the pipe lines and traps covers, protecting the floor till the work is complete and cleaning with acid etc. complete as directed by architect in charge. The rate includes curing acid cleaning, cutting etc. complete. Rate shall be same for all levels. <b>Basic price of Tiles shall be Rs. 600=00 per Sq. Mt (Excluding GST).</b> etc. complete as directed. <b>The rates include removal of existing Flooring up to bedding mortar. Removing the malba on day to day basis form the site (bank's premises) as per banks. instruction Its disposal .No additional sand bedding charges shall be paid for Electric trenches filling.</b>		
	Providing and laying 3 mm thick bubble guard of Cello make or equiv. for flooring protection and after completion of other furniture removing the same and carrying away as buy back etc		
9.2	<b>P/F VITRIFIED TILES FLOORING [600mmx600mm]</b>	90.00	Sq m
	Same as above Item No 9.1 but Providing & fixing 600 x 600mm Vitrified tiles flooring of approved make first quality vitrified tiles. Basic price of Tiles shall be Rs. 400=00 per Sq. Mt (Excluding GST)		
9.3	<b>P/F 75MM HEIGHT SKIRTING</b>	1.00	R m
	Providing & laying 75 mm height skirting and the length as shown in the drawing or as instructed. To be fixed to the wall using neat cement paste and in such a way that only 6 mm of its edge will be exposed off by the plastered surface. the rate is all inclusive of making the chaise in plastered surface, removing the existing skirting if any, fixing the skirting, filling the residual plastered surface first with cement mortar and then with plaster of Paris to evenly surface with existing surface. cut out of vitrified tiles 800mm x 800mm of Approved make over cement paste after making necessary cutting / hacking in walls, surface preparation as directed complete with joint filling etc. <b>Rate also includes, filling of Zaries in skirting complete as directed. The rates include removal of existing skirting . Its disposal. Basic price of Tiles shall be Rs. 600=00 per Sq. m</b>		
9.4	<b>P/F 75MM HEIGHT SKIRTING</b>	90.00	R m
	Same as above but Providing & laying 75 mm height skirting cut out of vitrified tiles 600 mm x 600 mm		
9.5	<b>P/F Telephone black GRANITE FLOORING in tread and riser of entrance area after removing existing flooring</b>	7.50	Sq m
	same as above item 11.3 but Providing and fixing selected black jet		

	granite, mirror polish, 18mm to 19 mm thick with machine cut edges, in required length and width as per architects detail, including cutting holes for railing, filling joints with black colour pigment mixed in white black colour pigment in white cement, using araldite for borders for trade and risers. Basic price of Granite shall be Rs. 1700=00 per Sq. m (Excluding GST)		
	The work include demolition of existing any flooring, providing and fixing black granite with full round moulding in tread edge with grooves and granite in riser as per design by the architect. The work also includes to finish the joints with joint filler and finished the surface.		
9.6	<b>P/F GRANITE PATTA FOR RAMP</b>	2.00	SMT
	Providing and fixing selected black granite, Rough polish, 18mm to 19 mm thick with machine cut edges in required length and 75mm to 100mm width as per architects detail for Ramp etc. for measurement shall be Sq m and paid in square meter only. <b>(Basic price of tiles shall be Rs.1200=00 Per Sq m) only elevation area to be measured for payment purpose.</b>		
9.7	<b>P/F GRANITE DOOR SILL</b>	2.00	SMT
	Providing and fixing selected black jet granite, mirror polish, 18mm to 19 mm thick with machine cut edges, in required length and width as per architects detail for Door sill and Tread & Risers etc. providing mirror polish round moulded edges in tread ,filling joints with black colour pigment mixed in white cement, for measurement shall be Sq m and paid in square meter only. The rates include removal of existing Flooring & its disposal <b>(Basic price of granite shall be Rs.1700=00 Per Sq m)</b>		
9.8	Granite door frames in sandwich manner for 9" thick brick wall		
	Providing and fixing 19 mm thick Granite Door frame 230 mm visible surface with 50 mm overlapped [jams] with two members all edges shall be full round moulded mirror polished as per design and instruction complete as directed. making drilling hole for fixing hinges and aldrop. The granite shall be black jet granite, mirror polish, 18 to 19mm thick with machine cut edges in required length and width in single piece and size for 9" wide brick wall at door at all three sides / window all four sides with overlapped (at least 50 mm overlapped (230 + 50 = 280 mm total wide) sandwiched manner in a single piece for each side with full round moulding inside and champher outside in window and full round at outside and chamfer inside in door jams. The work includes sticking of small marble gravels on one side of each granite piece with araldite - and cement & stainer added to match the stone colour after installing the granite on door / window sill and others for 9" wide patti etc. complete as per the design by architect. <b>only visible elevation area inside will be measured in R. meter.</b> (Basic price of Granite shall be Rs. 1450=00 per Sq. Mt (Excluding GST)	46.00	R m
9.9	Same as above but for 4.5" thick brick wall. (the size of granite is (120 + 50) mm. all other details are same as item no. above	11.00	R m

10.0	<b>P/F POLISHED GREEN KOTAH STONE FLOORING IN LOCKER ROOM / ANY SPECIFIED AREA</b>	10.00	Sq m
	Providing and laying polished green kotah stone flooring using one side pre polished chiesel dressed green kotah stone in uniform shade of size 17"x17" / 17"x23" / 23"x23" (thickness of the stone 30 mm to 35 mm) over 37 mm thick cement mortar 1:6 with flush pointing of joints with cement paste mixed with green pigment colour, machine and hand polishing, daily moping with water and kerosene as directed for at least 15 days etc. complete as directed. (The items also includes to level the flooring as per existing level)		
10.1	<b>P/L MATT VITRIFIED TILES (600 mm x 600 mm) anti-skid feature TILES FLOORING IN TOILET</b>	5.00	Sq m
	Providing & fixing 600 x 600 mm coloured vitrified Tiles Flooring of <b>approved make</b> premium quality vitrified tiles matt finish (anti skid) for flooring as per design in toilet area, Laying Tiles in CM in 1:4 over cement mortar beading laid to proper slope, line & level as specified. The rate includes curing acid cleaning, cutting etc. complete. Rate shall be same for all levels ( <b>Toilet</b> ) The task includes fixing tiles in cement slurry with required slope & filling the joints with appropriate coloured joint filler (Kera koll / lette-crete make), curing the tiles, providing the holes/cuts for the pipe lines and traps covers, protecting the floor till the work is complete and cleaning with acid etc. complete as directed. Price including all the dismantling, removing, transportation, fixing of new tiles, joint filling etc. <b>.Sample of the tiles must be got approved from Architect/Bank. Rate includes dismantling of existing tiles flooring and disposal complete as directed. (Basic price of tiles shall be Rs.450=00 Per Sq m) Only visible surface area shall be measured and paid.</b>		
10.2	<b>P/F VITRIFIED TILES (600 mm x 600 mm) DADO ON WALL</b>	47.00	Sq m
	Providing & laying wall dado of approved vitrified tiles (600 mm x 600 mm) of 2 or more colours as selected of approved make premium quality fixed cover 13mm thick plaster in CM 1:3, including providing groove upto 3mm wide if directed to do so and using grey cement in pointing of joints and applying neat cement paste about 3 Kg/Sq. m. The rate shall be inclusive of centre point fittings i.e. extra labour, material etc. to be considered so as to get outlet of plumbing/sanitary fittings at the junction. Rate shall be same for all levels. The task includes fixing tiles in cement slurry with required slope & filling the joints with appropriate coloured joint filler (Kera koll / lette-crete make), curing the tiles, providing the holes/cuts for the pipe lines and traps covers, protecting the floor till the work is complete and cleaning with acid etc. complete as directed. Price including all the dismantling, removing, transportation, fixing of new tiles, joint filling etc. <b>Sample of the tiles must be got approved from Architect/Bank. Rate all so includes backing coat of rough cement plaster. Rate includes dismantling of existing tiles and disposal complete as directed. (Basic price of tiles shall be Rs.450=00 Per Sq m) Only visible surface area shall be measured and paid.</b>		
10.3	<b>P/F GRANITE FOR PANTRY PLATFORM</b>	2.00	sq m
	Providing and fixing selected black jet granite, mirror polish, 18mm to		

	19 mm thick with machine cut edges, in required length and width as per architects detail for sandwich platform etc. including cutting holes etc. for sink etc. providing & fixing borders, fascia at platform with machine cut & mirror polish edges filling joints with black colour pigment mixed in white black colour pigment in white cement, using araldite for borders & fascias will be paid in square meter only. Fascia Patti also will be measured. For Pantry Platform <b>Basic price of Granite shall be Rs. 1700=00 per Sq. m (Excluding GST)</b>		
10.4	P/F POLISHED KOTA STONE SUPPORT FOR PANTRY PLATFORM.	2.00	SMT
	Providing and laying single piece one side polished green kotah stone with machine out edges for pantry platform verticals & horizontal support. Rate includes hand and wax polishing as directed. Including cutting holes etc. complete.		
10.5	<b>P/L RUBBER MOULD GLOSSY FINISH PAVER BLOCK</b>	60.00	Sq m
	Providing, laying and fixing in line, level, two coloured pattern as directed by Architect and slope as per requirement inter locking colored C.C paver block fixing in pattern as per details and design having block <b>thickness 60mm</b> with compressive strength 40 N/nM <sup>2</sup> and water absorption less than 3% and wear resistance of under 2mm including laying and fixing paver block on good quality river sand layer of approx. 25mm to 40mm thick over prepared base and filling the joints and edges at ends in C.M. (1:2), curing, all tools and tackles etc. complete as directed. <b>[For Front side Entrance &amp; Margin ] Paver Block of Alcock Cement Pipe &amp; Concrete Works or Equivalents Make to be used</b>		
10.6	P/L ROUND SHAPE CEMENT CONCRETE VATTA	100.00	R m
	Removing old fillets (Vatas) and making new Vatas in round shape up to 150 mm height using cement concrete 1:2:4 admixed with water proof compound Conplast X421 IC of Fosroc or equivalent company, curing etc. complete as directed.		
10.7	WATER PROOFING IN SUNK AT TOILET / terrace area	0.00	Sq m
	1. Clean surface with wire brush, blower and water.		
	2. Open the cracks & cut a rectangular groove ( approx 4 mm wide & 8 mm deep) and Filling the groove with PU sealant of 5000% elongation.		
	3. Apply neat coat of BASF SBR 131 (35 Sq ft /Liters) Then apply 6 mm thick plaster in 1:2 C.M with integrated water proofing compound of BASF 141 then apply 3 coat of 1cement:2 Kg Cement: 4 Liters water subsequently. Then do brick bat coba concrete to cover the drainage pipe and finish the top surface in 1:2 cement mortar finally apply a coat of 1 SBR: 1 water and again repeat 1:2:4 as above and pond testing to be done		
	4. Curing for 3 to 5 days		
	The contractor should give 5 year Guarantee to any leakage on stamp paper		
11.0	Ant termite treatment as per IS - 8944 (2011) with 5 years guarantee.	95.00	Sq m

	Work shall be carried out by specialized agency. Complete as directed. Chemical to be used shall be chlorpyriphos emulsifiable concentrate 1% by Volume <b>(For Payment floor area on each floor shall be considered)</b>		
	<b>For all the MS grill / gate work the contractor must attach the copy of weight bridge showing the weight of various materials. The weight of the work must be attached in a sheet showing length of the section / pipe with weight as per IS standards with total executed work quantity to clarify the weight of the Grill / Gate work.</b>		
12.0	<b>P/F MS GRILL IN WINDOWS</b>	150.00	KG
	Supplying Providing & Fixing M.S grill as per following description ,using Hollow pipe/ Angle section for vertical and horizontal section with providing 12 sq. mm M.S bars on both side at 4" C/C in between properly weld to steel section complete as directed including painting of synthetic enamel paint over a coat of primer etc. complete as directed.		
13.0	<b>P/F MS GATE /SAFE ROOM DOOR</b>	200.00	KG
	Providing, fabricating and fixing in position MS gate, of MS sections as per architect's details including cutting welding grinding to smooth surface of all works, anchor bolts, with rail track if required, hinges as per details, fixing and locking arrangements, including painting with two coat of first quality synthetic enamel paint of make J & N ? Shalimar / British / Asian, over a coat of primer etc. complete as directed.		
	1. PROVIDE FOUR NUMBERS OF LOCKING ARRANGEMENT FOR OUT SIDE LOCKING AND ONE ALDROP FOR INSIDE. i.e. (i) TWO NOS OF ALDROPS FOR PAD LOCKS. (ii) ONE GORDIAN LOCK (DUAL LOCKING ARRANGEMENT.) (iii) ONE KADAKA LOCK (JALARAM) 2. DOOR MAY OPEN OUT SIDE OR INSIDE AS / LOCAL REQUIREMENTS.		
14.0	Providing and fixing main gate with SBI Logo at periphery wall with proper welding techniques for a strong and durable gate with appropriate hinges and locks for the gate's functionality and security as per design by architect in charge.	300.0	Kg
	The work includes main gate of 14'0" x 6'6" / as directed in MS pipes with fixed with column in proper way with using required heavy hinges, aldrops, locking systems and painting works as directed by architect in charge. Steel work welded in built up sections/framed work including cutting hoisting, fixing in position and using structural steel etc. as required. In frames, guard bar, brackets & Gates.		
	Painting two coats (excluding priming coat of approved steel primer) on new steel and other metal surface with enamel paint, brushing, interior to give an even shade including cleaning the surface an even shade including cleaning the surface of all dirt, dust and other foreign matter. metal surface with synthetic enamel paint, brushing to give an even shade including cleaning the surface of all dirt, dust and other foreign matter		
	The contractor must arrange the weigh scale bill with used pipe size in length and weight format as per IS standards for the payment purpose.		

15.0	Removing very carefully the existing windows with frame and shutter etc complete including stacking debris and reusable material as directed including carting away debris all levels.	10.00	Sq m
15.1	P/F MS ROLLING SHUTTER	7.50	Sq m
	Providing and fixing pull and push type rolling shutter made out of 18 gauge MS 7.50 cms. Mild steel lathes of convex corrugation complete with side guides and bottom rails with interlocking arrangements for steel lathes by means of alternate and clips, supervision shaft with high tension coil tupe springs, locking arrangements, pulling hooks, handles, Center locking arrangement with all fittings accessories and painted with two coats of red oxide factory finish and including synthetic enamel paint etc. complete. as directed.		
16.0	P/F COLLAPSIBLE GATE	3.00	Sq m
	Supplying providing & fixing collapsible gate in M.S channel section complete with bottom and top guiding rails locking arrangement and painted with synthetic enamel paint over a coat of primer etc. complete as directed.		
16.1	Removing and re fixing of existing COLLAPSIBLE GATE with minor repairs with required materials and colour work complete	5.00	Sq m
	Removing and re -fixing of existing collapsible gate, after providing granite frames as instructed. The work includes minor repair works of existing collapsible gate with required size of ms frames. the track of the collapsible gate must be hidden in granite frames, also arranging the repairing work of M.S channel section complete with bottom and top guiding rails locking arrangement and painted with synthetic enamel paint over a coat of primer etc. complete as directed. only final executed area in elevation is measured for payment purpose.		
28.0	P/F FIBRE GLASS SHED	28.00	Sq m
	Providing and fixing 3 mm thick coloured Fibers glass weather shed and M.S hollow section supports for providing roof shed to verandah as per the drawing and instruction. 25 x 25 x 2 mm thick hollow section , 25 x 6 mm thick MS flat, MS bolts etc. shall be providing as per the drawing complete. Joints of fiber glass sheet and wall shall be sealed with approved sealant to make it water proof. MS section shall have 3 coats of synthetic enamel paint. Rate includes installation and fixing at all levels ( Measurement shall be in Sq m in plan area for payment purpose.		
	The roof must be 1" to 2" deep inside the wall on building side after making jari on wall and fill it with waterproof compound plaster and arranging round wata with wall to roof.		
28.0	P/F ALUMINIUM VENTILATORS	1.00	Sq m
	Providing and fixing in position powder coated aluminium frame size 63.50x38.10 x 1.28 mm thick with adjustable 100 mm wide and 4 mm thick glass louvers with mechanism ventilators Sample of one ventilator with adjustable mechanism shall be got approved from		

	Consultant/Bank.		
29.0	Providing and fixing 2 way anodized 16 gauge sliding window	9.50	Sq m
	Providing and fixing anodized aluminium Two track sliding shutter glass windows using alluminium sections of following sizes outer frame of 63.50 x 38.10 x 1.41 mm thick wt. 0..818 kg. R m. Top and sides frame 61.85 x 18 x 1.30 mm thick Wt. 0..659 Kg/R m bottom frame 61.85 mm x 31.75 x 1.20 mm thick Wt. 0..695 Kg/R m Shutter Top & Bottom 40.00 x 18.00 mm x 1.29 mm thick Wt. 0..456 Kg/R m Shutter Interlock 40.00x18.00+8.34 x 1.29 mm thick Wt. 0..547 Kg/R m Shutter Side (Handle) 40.00x18.00x1.29mm thick Wt.0..456 Kg/R m 5mm thick glass shall be framed in Alluminium section of 40.0 x 18.0 mm with necessary sliding channel and locking arrangement size of the shutter shall be as directed. Alluminium sections shall be of anodized.		
	Rate includes all necessary fixing arrangements, Neoprine lining, filling the gaps the between AL. section and wall with sealant as directed. (Aluminium sections to be used shall be of Jindal make of Series 18 mm or equivalent section of Hindalco etc. as approved by the Architect in charge).There can be variation of plus or minus 5% in the thickness and weight of aluminum sections.		
	<b>MISCELLANEOUS WORK</b>		
30.0	Charges for dismantling work including stacking debris and reusable material as directed including carting away debris all levels.		
[a]	Dismantling 9" / 16" Brick wall/ Brick partition wall with or without plaster etc.	2.00	C m
[b]	Dismantling very carefully the RCC Weather shade /slab/beam/ lintel etc with or without plaster Rate including cutting of existing reinforcement bars etc complete	1.00	C m
[c]	Removing of Existing Plaster and carting away debris	5.00	Sq m
[d]	Dismantling tile work in floors and roofs laid in cement mortar including stacking material	20.00	Sq m
[e]	Dismantling of sunken portion of toilet floor which include BBCC, PCC, Filling, Water Proofing up to slab top complete as directed. and carting away debris	5.00	Sq m
30.1	Changing of broken glass in existing steel windows panel & louvers by 4mm thick glass matching with existing glass fixing same with putty etc. complete. Including Removing broken glasses	2.00	Sq m
30.2	<b>Repairing of existing wooden windows with required materials for finishes, fixing and smooth operation.</b>	10.00	Sq m
	Removing existing wooden windows, from the frames, changes the existing hinges with 6" new brass hinges, removing old painting / polishing from the window shutters with required finishes, arranging the crack and joint filling in the window shutters, fixing it again in the		

	existing iron / wooden frames very carefully, painting it again as per directed by architect in charge.		
	The work includes to arrange proper fixing of shutter with handle, stoppers, metal stopper (ankdi) for shutters, paint & polishing etc complete. This items also includes to arrange the window shutters from another windows as required. Only front elevation area to be measured for payment purpose. no extra payment for any of required hardware, like hinges, stoppers, handles etc paid. No extra payment for oil paint / polishing work given.		
	<b>WATER SUPPLY WORK</b>		
24.0	Providing and fixing concealed SCH-80 <b>UPVC</b> water supply line ISI approved mark, including all necessary specials, making zaries, making holes, cutting floors and making good after work is complete etc. complete as directed for. <b>Pipe shall be Astral/Supreme make. at all levels</b>		
[a]	- Do - for 15 mm dia line.	25.00	R m
[b]	- Do - for 25 mm dia line.	20.00	R m
[c]	- Do - for 38 mm dia line.	15.00	R m
25.0	Providing and fixing Open/concealed in structure SCH-80 <b>CPVC</b> water supply line ISI approved mark, including all necessary specials, making zaries, making holes, cutting floors and making good after work is complete etc. complete as directed for. <b>Pipe shall be Astral/Supreme make. at all levels</b>		
[a]	- Do - for 20 mm dia line.	5.00	R m
25.1	<b>Providing and fixing following fixtures of Jaquar make or its equivalent with chromium plated disc etc. complete for concealed pipe lines. as directed by Architect</b>		
	<b>Jaquar CP continental ISI Marked or equivalent make</b>		
[a]	Providing and fixing FLP-5037PM Bib Cock with Wall Flange	1.00	no
[b]	Providing and fixing COP-347PM Sink Cock with Pipe Swinging Spout (Wall Mounted Model) with Wall Flange	1.00	no
[c]	Providing and fixing bib cock FLR-5037N Bib Cock (Angular Shape) With Wall Flange in wash basin area	2.00	no
[d]	Providing and fixing 2 in 1 bib cock FLP-5041PM - 2 Way Bib Cock with Wall Flange for WC.	2.00	no
[e]	Providing and fixing <b>FLP-5083KPM</b> Exposed Part Kit of Concealed Stop Cock & Flush Cock with Fitting Sleeve, Operating Lever & Adjustable Wall Flange with Seal (compatible with ALD-083, ALD-089 & ALD-081) with concealed part	2.00	no
[f]	Providing and fixing <b>ALD-081</b> Concealed Body of Flush Cock Suitable for 25mm Pipe Line with Protection Cap (without Exposed Parts)	2.00	no

[g]	Providing and fixing 25 mm, chromium plated brass Flush valve Catalogue No -1081A [Continental Range]. [Control Valve]	1.00	NO
[h]	Providing and fixing the health faucet ALD-CHR-573 with Shower Hose SHA-CHR-549D8 all complete with wall stand.	2.00	no
[i]	Providing and fixing FLP-5053PM Angular Stop Cock with Wall Flange	1.00	NO
[g]	Providing and fixing 25 mm dia handle valve of approved Zoloto quality, for pipe lines etc complete as directed.	1.00	NO
[h]	Providing and fixing brass chromium plated Napkin Ring of approved make etc. complete as directed.	2.00	NO
[i]	Providing and Fixing Over head PVC Water tank 350/500/1000 Lit Cap. Of Sintex brand or equivalent making 120mm thick Brick masonry base with IPS on Top & side plastering including pipe connection complete as per the instruction the Engineer in charge at all levels.	1,000.0	LITRE
	<b>SANITARY WORK</b>		
26.0	Providing & laying & fixing UPVC SWR drainage line concealed/open in the structure as per details and requirement with necessary specials such as Y-2, T-2, offset, plugs, bends and filling the joints with approved adhesive including cutting of wall floor and making good after the work is cover etc. all as above. Pipe <b>shall be Prince/Supreme / Astral make</b> at all levels.		
[a]	For 75 mm dia 6 Kg/Cm2	10.00	RMT
[b]	For 100 m dia pipe 6 Kg/Cm2	10.00	RMT
[c]	Providing laying & fixing concealed 38 mm dia P.V.C. waste water pipe line complete as directed.	5.00	RMT
27.0	P/F UPVC NAHNI TRAP with Tiles jali of SS approved make.	3.00	NO
	Providing and fixing UPVC Nahni Trap of Astral or Supreme. Rate includes cutting of floor/wall, necessary outlet pipe with necessary adhesive. Upto down take pipe, Fixing PVC Jali of approved make complete as directed.		
28.0	P/F EWC	2.00	NO
	Providing and fixing EWC first quality hindware / Cera / jaquar or equivalent type snow white glazed vitrous china, EWC M Cera [CHANTER PRO] of with heavy type black or white plastic seat, lead with CP brass hinges, rubber buffers with fittings, brackets, etc complete as directed. The scope include following items: a) EWC-P:- WALL MOUNTED Rimless Wall hung EWC with slim soft close seat cover 515 x 360 x 350 mm Cera <b>Cat No. : S1043174</b> P Trap & Cat. No. B1520112 Croft soft close seat cover) / HINDWARE CAT NO: 20040 OR Equivalent Make of CERA / JAQUAR b) SEAT COVER WITH COMPLETE		

	SET c) CAST IRON CHAIR BRACKET FOR WALL HUNG TYPE WITH C.P BOLT & NUT		
33.0	P/F WASH BASIN Providing and fixing first quality Snow white wash basin of 550 mm x 400 mm size, M Cera <b>CALIBRE (580 x 430 x 200 mm)</b> with half pedestal height 480 mm, (Cat. No. S2040109 Wash basin + Cat. No. S2090102 Half Pedestal)) approved shape as per detail of approved make and quality such <b>Cera/hindware/ jagura</b> or equivalent with necessary specials, connecting PVC pipes with nuts and all fittings, 32 mm dia CP waste coupling of Waste coupling with ceramic pop-up push type (full thread) 32 mm Cat. No. F8050351 [ALLIED] and rubber plug heavy brackets RAG BOLTS for Wall Hung Wash Basin Cat. No. B2040104 with necessary connection pipe wall flange etc. complete as directed	2.00	NO
34.0	P/F MIRROR Providing and fixing 1'-6"x2'-0" Mirror above wash basin 6 mm thick Mirror of approved make shall be fixed with 2" long S.S. Studs, 4 Nos. complete as directed.	2.00	NO
35.0	P/F S.S SINK Providing and fixing stainless steel sink of Nirali make or approved equivalent make Standard rangers of overall size 17" x 17" ( Bowl size 14"x14" x 7" depth in to in) including all necessary fittings such as CI brackets, overflow, rubber plugs, Cp brass chain, PVC connection and PVC waste pipe applying two coats of aluminium paint to the brackets etc. complete as directed.	1.00	NO
<b>SS RAILING AND TACTILES INDICATORS</b>			
36.0	<b>P/F S. S. RAILING</b> Providing Fabricating and installing in position S.S. railing (304 grade min. wall thickness 2mm) on entrance step/Ramp etc. as per the given design. The height of the railing shall be 1000 mm from the respective finished floor level. a) 40 mm dia S.S. (medium) pipe as main vertical & top hand rails members as per the given design . Incl tint, welding, grinding, finishing, hydraulically bending etc <b>Rate including M 20 Concrete embedding 250x250x 600 mm Height for SS Pipe</b> b) 3 Nos 19mm dia S.S. pipes (medium) at Horizontal as intermediate supports vertical at given distances and as intermediate vertical members at a distance not more than 0.92 m Note: Some changes in drawing may be necessary as per available chain and pipes which shall be got approved from Bank/Architect before execution	5.5	R m
37	Providing and fixing - construction of concertina coil fencing over boundary wall coal chain with required angle in 'Y shape as directed by architect in charge. The work also includes to provide required 'Y' angle of 50 x 50 x 6 mm in positioning on column with grouting plate welded in bottom with 2 coat of paints on angle etc complete.	63.0	R m

	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 meter openable length ( total length 90 m), having 50 nos rounds per 6 meter length, upto 1 m height of wall with existing angle iron 'Y' shaped placed 2.4m or 3.00 m apart as per column placement on boundary wall and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ meter		
	Central Core Wire - Made from High Tensile Spring Steel - High Carbon Wire conforming to IS 4454/ Part -1 /Grade –SM duly Hot dipped galvanized with diameter starting from 2.50 mm, UTS 1670 N/mm <sup>2</sup> , Heavy zinc coating with minimum 230 gms per sq m. Concertina wire consists of a single smooth wire diameter of 2.5 mm ± 0.2 mm. Tensile strength of the wire 60 ± 5 kg/mm <sup>2</sup> . Galvanized wire thickness not less than 120 g/m <sup>2</sup> . Provides wire blades of galvanized sheet installed on it well and with a thickness of 0.5 mm and spacing (4 cm ± 2 mm spacing axes).		
	Providing and fixing Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in Charge.		
	The height of the coil from wall is 2'3" to 2'6". The spacing of the coil is not more than 2.5" to 3" in round shapes. only running meter is counted on periphery wall in plan area for payment purpose.		
	Note : Rate includes Dismantling of existing toilet accessories like Urinal, Wash basin, W.C pan, EWC, NT, Flush Cock, Bib Cock, Stop cock, GI/CI pipe, PVC Pipe line of any dia. and Removing door and windows etc. as directed by Bank nothing extra shall be paid for them		
<b>1</b>	<b>BUY BACK OF OLD MATERIAL: Buy back of Construction materials removed / Dismantled</b>		
a	Toilet accessories, Washbasins, water closet or urinal etc. sanitary ware - not required by Banks	1.00	Lot
b	buy back of MS sections at water space with carefully removing and filled the wall gap properly as directed by architect in charge.	10.00	kg
c	Buy back of existing installed CP fitting like bib cock, angle cock etc.	1.00	lot
d	old windows, old grill or any other old materials which is not in used by bank and should be removed from the site	1.00	lot

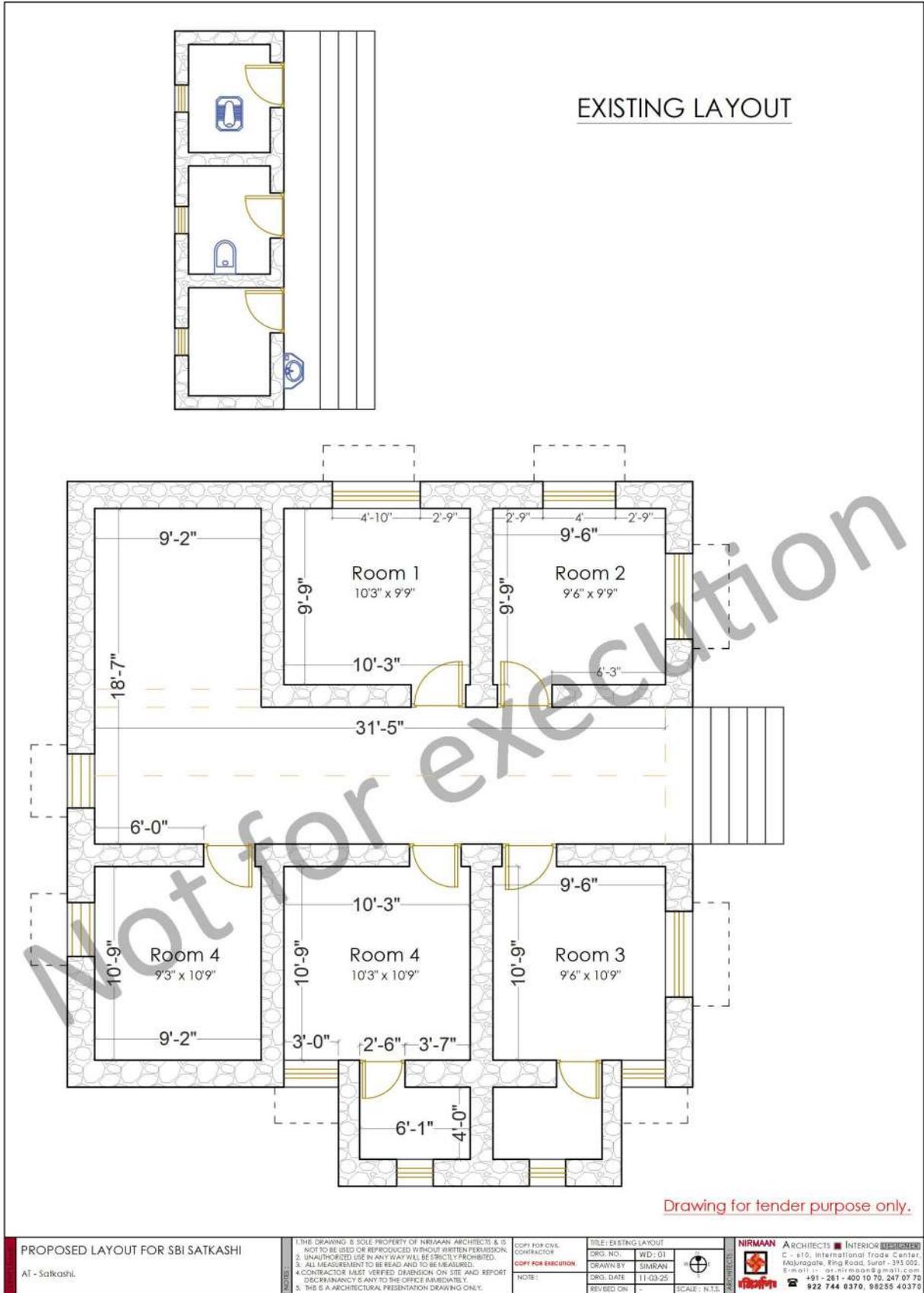


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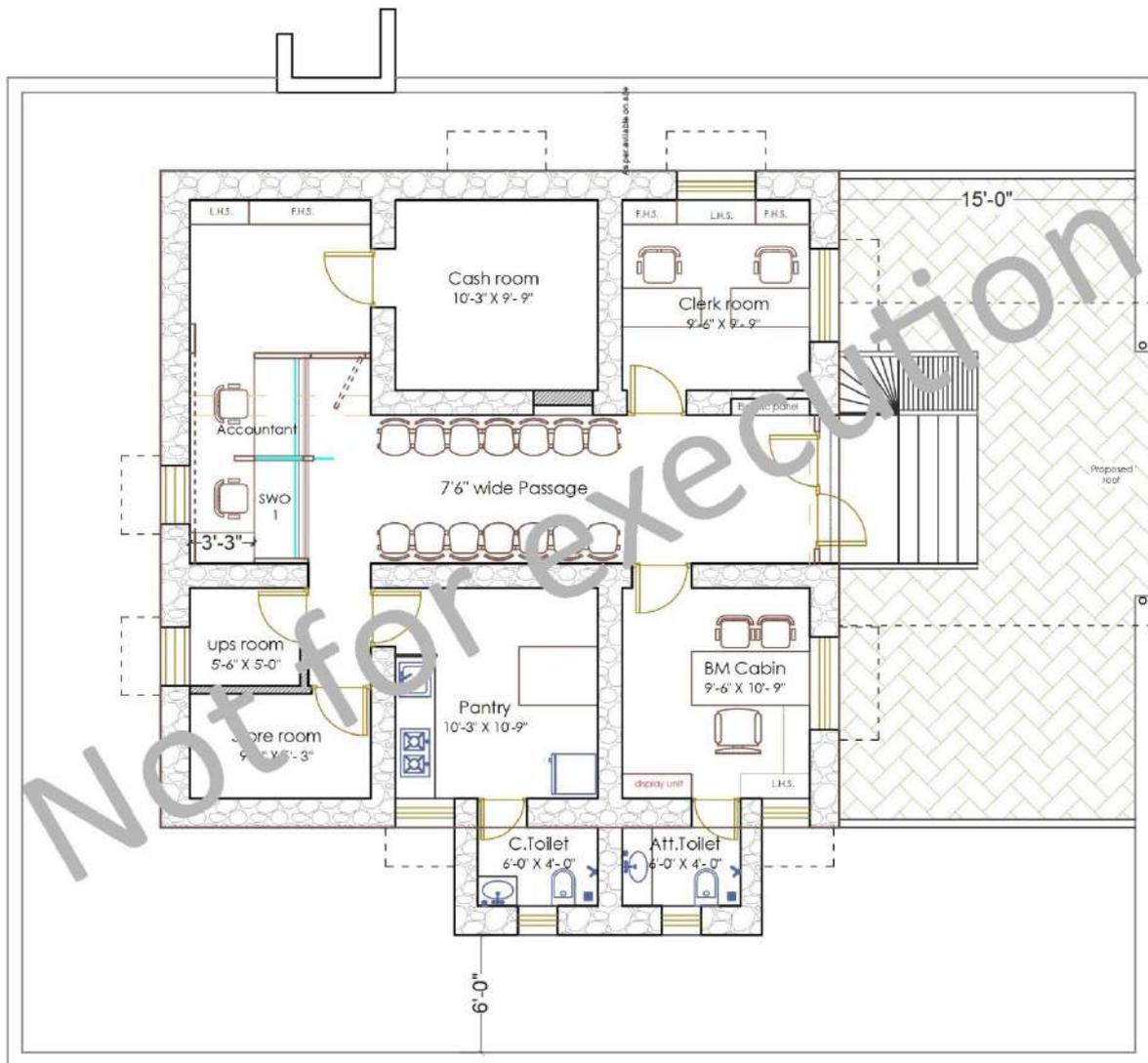
|| निर्माण ||

ARCHITECTS - INTERIOR DESIGNER - PROJECT CONSULTANT

**DRAWINGS**



# PROPOSED LAYOUT



Main Road

Drawing for tender purpose only.

PROPOSED LAYOUT FOR SBI SATKASHI BRANCH

AT - Satkoshi Dist: Tapi

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2. UNAUTHORIZED USE IN ANY WAY WILL BE STRICTLY PROHIBITED.
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4. CONTRACTOR MUST VERIFY DIMENSION ON SITE AND REPORT DISCREPANCY IF ANY TO THE OFFICE IMMEDIATELY.
5. THIS IS A ARCHITECTURAL PRESENTATION DRAWING ONLY.

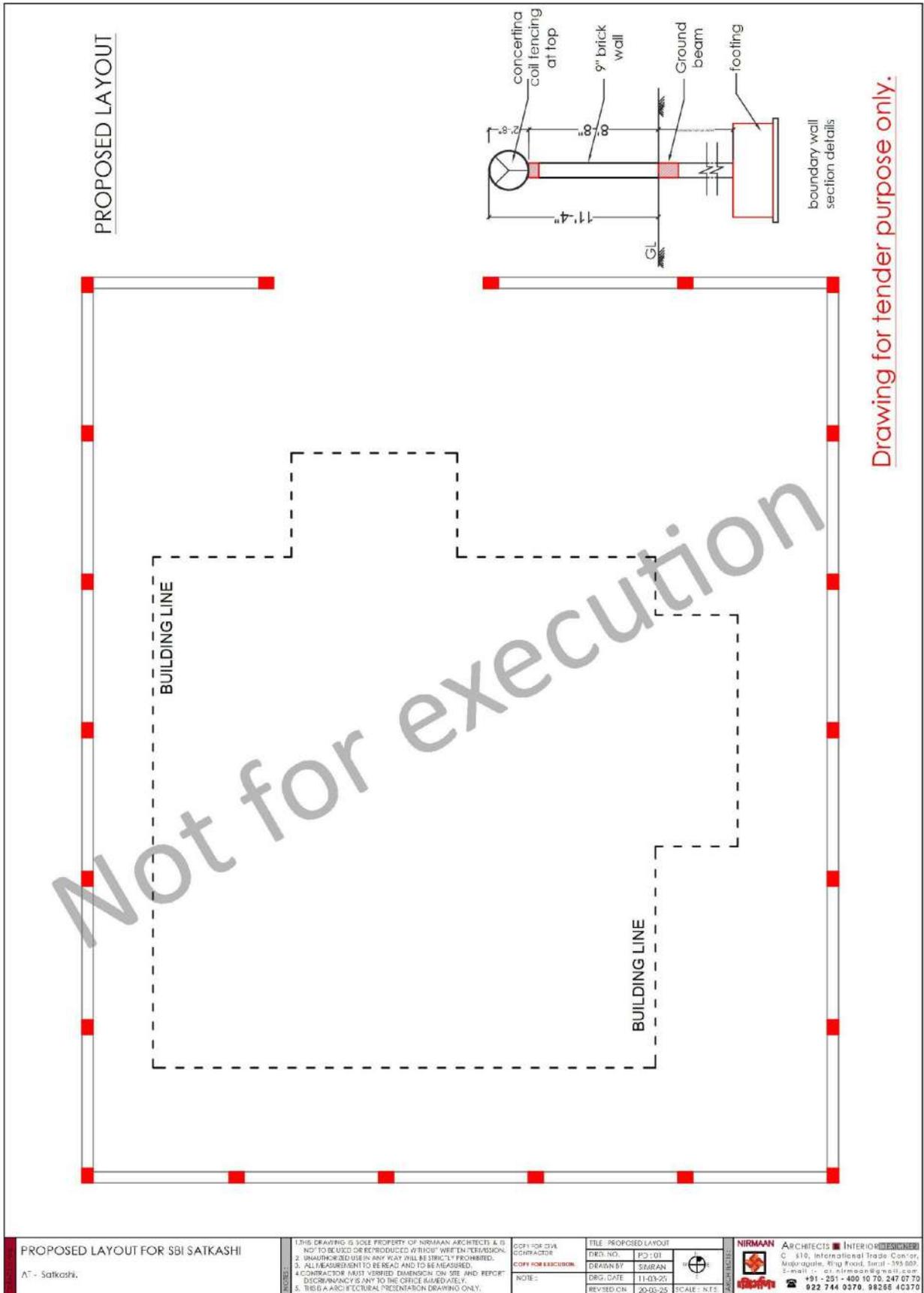
COFF FOR CIVIL CONTRACTOR

NOTE:

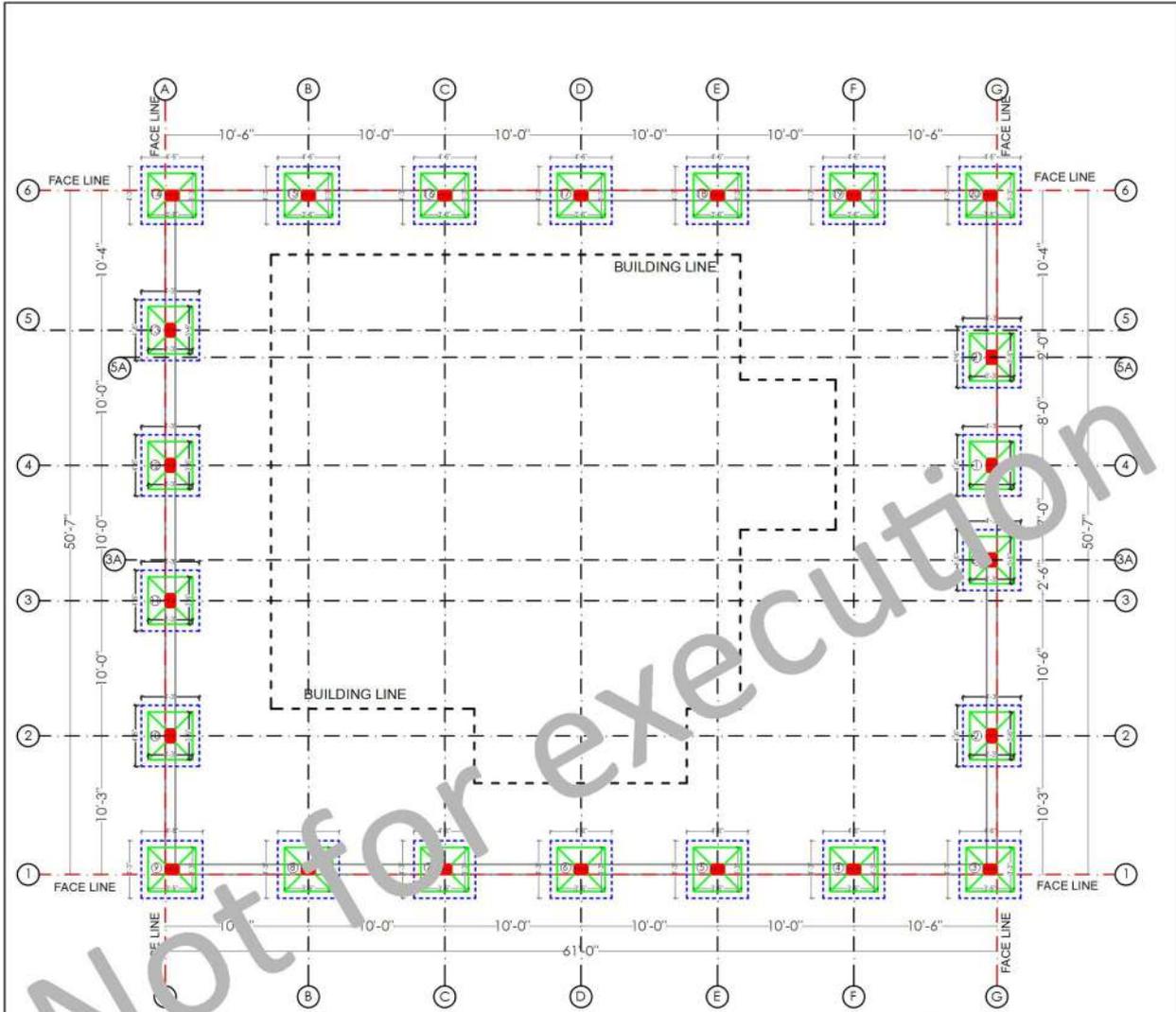
TITLE: CIVIL LAYOUT	
DWG. NO.	WD: 01
DRAWN BY	SANBAN
DWG. DATE	04/04/25
REVISED ON	-
SCALE: N.T.S.	

**NIRMAAN ARCHITECTS** ■ INTERIOR DESIGNERS

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 922 744 6370, 98265 40370



Drawing for tender purpose only.



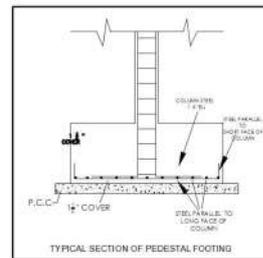
Drawing for tender purpose only.

**SCHEDULE OF COLUMNS AT GROUND FLOOR LEVEL.**

SR. NO.	COLUMN NOS.	SIZE	VERTICAL BARS	STIRRUPS C/C SPACINGS			STIRRUP DETAILS	REMARKS
				DIA.	ABOVE BEAM TOP/BELLOW BEAM BOTTOM	JT. MODELS		
1.	1 to 21	9" x 12"	12 TOR - 6 NOS.	8 tor	4"/c	6"/c		M-250 (1:1.2)

**SCHEDULE OF REGULAR FOOTINGS:-**

MIX.	COLUMN NOS.	COLUMN SIZE	8" THICK P.C.C. (1:2.4)	FOOTING SIZE	FOOTING DEPTH		FOOTING BARS		REMARKS
					ii BOX	i TOTAL DEPTH	i TO SHORT SIDE OF FOOTING	j TO LONG SIDE OF FOOTING	
M-250 (1:1.2)	1 to 21	9" x 12"	4'-6" x 4'-3"	3'-3" x 3'-6"	15" Pedestal		10 TOR - 8 NOS.	10 TOR - 7 NOS.	Pedestal footing



**SCHEDULE OF BEAMS AT GROUND LVL. [USE M 250 CONCRETE MIX- (1:1.2)]**

SR NOS.	BEAM NOS.	SIZE B X D	BOTTOM BARS				EXTRA BARS		TOP BARS	SIDE FACE BARS	STIRRUPS			REMARKS
			STRAIGHT	BENT UP		SHAPE & LENGTH		DIA.			LEFT	WEDGE	RIGHT	
				NO. DIA.	AT	NO. / DIA.	AT							
1	B1	9" x 12"	10 TOR - 2 nos.	12 TOR - 1 nos.	L/4			10 TOR - 2 nos.	8 TOR	4"	6"	4"		

**NOTES :-**

- 1) FOOTING SHALL REST 2' - 0" DEEP INSIDE YELLOW SOIL
- 2) MINIMUM DEPTH OF FOOTING SHALL REMAIN 8' - 00"
- 3) POTABLE WATER SHALL BE USED IN CONCRETING .
- 4) VIBRATOR SHALL BE USED FOR COMPACTION.
- 5) GIVEN GRADE OF CONCRETE SHALL BE FOLLOWED .
- 6) STRIPPING TIME OF FOOTING SHALL BE 24 HOUR .
- 7) CURING SHALL BE DONE FOR 10 DAYS .
- 8) COVERING BELOW / SIDES OF FOOTING = 1 1/2" = 4 CM .
- 9) FOOTINGS ARE DESIGNED FOR GROUND FLOOR ONLY

DRG NO. - 01		N	
FOOTING DETAIL		SCALE: N.T.S.	
PROJECT : SBI SATKASHI, TA : SONGARH, DIST : TAPR			
OWNERS : STATE BANK OF INDIA		ARCHITECT : NIRUPAM ARCHITECTS & INTERIOR DESIGNER	
LOADING: AS GIVEN. (GROUND ONLY)			
DATE : 05-04-2025	DRAWN BY : SEHRAN	CHECK BY : BIPIN	DESIGN BY : BIPIN
ER. BIPINHAI A. GAJJAR B. E. ( CIVIL ) S.M.C. & SUDA APPROVED STRUCTURAL ENGINEER 7/ 2422, CHOWKI SHERI, SAIYADPURA, SURAT. MOBILE NO : 94268 25237 LIC. NO. S.M.C. - TDO/ST. DR./161, SUDA - SUDA - L - STR - 87			