



P&E/2026-27/Tender/43 dated 16.07.2026

TENDER DOCUMENT

STATE BANK OF INDIA LOCAL HEAD OFFICE GUWAHATI

INVITES ON-LINE TENDERS
THROUGH SBI SERVICE PROVIDER
M/S ANTARES SYSTEMS LIMITED, BANGALORE
e-Tender Portal: <https://www.tenderwizard.com/SBIETENDER>

Sl. No.	Description	
(a)	Tender ID	P&E/2026-27/Tender/43
(b)	Tender Name	RENOVATION OF G-BLOCK AT STAFF QUARTER, SIX MILE FOR ESTABLISHMENT OF STAFF TRANSIT CAMP
(c)	Ending Date of Tender	30.07.2026 UP TO 02:00 PM

The Contractors/Vendors who are in the list of approved empanelled contractors/vendors finalised in March, 2026 by SBI, Local Head Office, Guwahati (Guwahati Circle) for the respective category of work i.e., Category- VI (Up to Rs.15.00 Lakh) and above, for Civil works including Plumbing & Sanitary.

Note: i) Firm should possess valid digital signature for this e-tendering process.

ASSISTANT GENERAL MANAGER
Premises & Estate Department
3rd Floor, SBI Guwahati LHO Building,
P.O. Assam Sachivalaya,
Dispur-781006



P&E/2026-27/Tender/43 dated 16.07.2026

NOTICE INVITING TENDER

SBI LHO Guwahati invites e-Tenders from the empaneled Contractors/Vendors for Civil and sanitary works of category IV and above as mentioned in Tender document attached herewith. Details of the tender are as follows :-

1.	Name & location of Work	:	RENOVATION OF G-BLOCK AT STAFF QUARTER, SIX MILE FOR ESTABLISHMENT OF STAFF TRANSIT CAMP
2.	Availability of tender documents	:	Tender documents will be issued to the eligible contractors by the service provider M/S Antares Systems Limited, Bangalore and can be downloaded from the Bank's website www.sbi.co.in under section ' Procurement news '.
3.	Estimated Cost	:	Rs. 13,59,315.00 (Rupees Thirteen Lakh Fifty Nine Thousand Three Hundred and fifteen Only) + GST
4.	Technical Bid (ONLINE)	:	The following Documents (scan copy) should be submitted in the Technical Bids to M/S ANTARES SYSTEM LIMITED on or before 30.07.2026 upto 02:00 PM :- i) <u>Earnest Money Deposit (EMD)</u> amounting to Rs. 13,500.00 (Rupees Thirteen Thousand Five Hundred Only) to be deposited through M/s Antares Systems Ltd. The Firms registered under Micro, Small and Medium Enterprises (MSME) are exempted from payment of EMD as per criteria mentioned in https://msmeregistration.org/benefits, subject to submission of valid MSME registration certificate under the relevant category of work with the technical bid. ii) <u>The Process Compliance Form as at Annexure-I</u> Duly filled, signed and stamped by the Bidder as token of acceptance of all the terms & conditions stipulated in this tender. The Bidder, who failed to submit any of the above-mentioned documents, will be disqualified in Technical Bid and will not be allowed to participate in the Price Bid. Moreover, the conditional tenders are liable for rejection and will not be allowed to participate in e-Tendering Process.
6.	Price Bid	:	The Lowest Bidder will be finalized from the Price Bid submitted by the Contractors through on-line Price Bid on Item rate system (The

			details of the tendering process are indicated in “ BUSINESS RULES FOR e-TENDERING ”. The Details of the events is as under:- i) Submission of On-Line Price Bid: On 30.07.2026 upto 02:00 PM.
7.	Opening of Price Bid	:	30.07.2026 after completion of the time period of e-Tender.
8.	Validity of Tenders	:	For a period of 90 days from the date of opening of Price Bid.
9.	Initial security deposit (ISD)	:	2% of the awarded value of work including EMD.
10.	Retention money	:	5% (Including EMD+ISD) of the awarded value of work.
11.	Commencement of the work	:	The date of commencement of the work will be reckoned as the date of handing over site or 15 days from the date of issue of Work Order of the tender whichever is later.
12.	Time allowed for completion	:	30 days from the date of handing over site or 10 days from the date of issue of letter of acceptance of Bank whichever is later.
13.	Deduction of Income Tax and GST	:	A) TDS on Income Tax/GST will be deducted at source as per Govt. Guidelines. B) The contractor should comply with the following. i. Contractor should have GST Registration Number ii. Invoice should specifically/separately disclose the amount of GST levied at applicable rate as per GST provision iii. In case of Correction in the bills after scrutiny, contractor should submit fresh invoice for payment iv. Contractor should timely file his GST return in accordance with GST provisions to enable the bank to claim the credit of GST paid to the contractor.
14.	Terms & mode of payment	:	<u>i) No advance is payable.</u> ii) After successful completion of entire work, 100% payment will

			be released against submission of GST invoice and work completion Certificate from the user dept. iii) Security deposit and statutory deductions will be made as applicable. iv) The contractor should furnish details of the Bank, A/c no, IFSC code etc.
15.	Liquidated Damages	:	If the bidder is not able to complete the work within the stipulated completion period as per tender, liquidated Damages will be imposed at the rate of 0.5% of the contract value per week subject to a maximum of 5% of the contract value.
16.	Defects Liability Period	:	12 Months (Twelve months) from the date of completion of the work and handing over to the Bank.
17.	Contact details for any clarification	:	Premises & Estate Department, 3rd Floor, SBI, LHO Building, Guwahati, Dispur-781006, Contact: 0361-2237533/ 8822739897
18.	Contact details for any e-Tender related queries	:	Service provider Service Provider: M/s. Antares Systems Limited, Registered Office:#24, Sudha Complex, 3rd Stage, 4th Block, Bangalore – 560079, Karnataka. Ph.:080-49352000/40482000 Fax:080-49352034 Help Desk: 9073677150/9073677151/9073677152/033 46046611 Contact Persons: (On working days 9AM to 6PM) 1.Mr.KushalBose Mobile No.:+917686913157 e-Mail:kushal.b@antaressystems.com You are requested to contact the agency for further guidance on e-tendering process
19	Any additional Information	:	The estimated rates as per the Break-up of Quantities (BOQ) uploaded in this tender are inclusive of materials, labour, wages, fixtures, transportation, installation, all taxes & charges, cost of the insurances as specified in the tender, cost towards testing of materials supplied, wastages, Octroi, machinery, temporary works

			such as scaffolding, cleaning, overheads, profit, statutory expenses, incidental charges and all related expenses to complete the work. However, GST on work contract will be extra as applicable.
20	Performance Guarantee:	:	Additional Security Deposit (ASD) / Additional Performance guarantee (APG) shall be applicable if the bid price is below 10% of the estimated cost put for tender. The amount of such ASD/APG shall be the difference between 90% of estimated cost put for tender and the quoted price. The ASD/APG shall cover till virtual completion of work and the amount of such ASD/APG to be deposited in the form of bank Guarantee issued by a schedule commercial bank other than SBI or SBI STDR lien to the Assistant General Manager (P&E), SBI LHO Guwahati or SBI bank draft in favour of Assistant General Manager (P&E), SBI LHO Guwahati in addition to the normal security deposit of 2% of quoted amount which will be released after defect liability period is over subjected to satisfactory performance.
	Notes:		
a)	All Bidders are informed that, price bidding for the work will be through e-tendering method. The bill of quantity of tender i.e. "Price Bid" is to be submitted online on e-tendering portal. Orders will be placed on the basis of closing price by bidders in the "Price Bid".		
b)	The Bidders are expected to examine all instructions, forms, terms and specifications in the tender documents. Failure to furnish all information required as per the Tender Documents or submission of bids not substantially responsive to the Tender Documents in every respect will be at the Bidders risk and shall result in rejection of the Tender.		
c)	In case the date of submission of Tender Processing Fee, EMD, Online Price Bid is declared as a holiday, the respective date will be considered on the next working day at the same time. The bidder, who is the authorized representative and participating on behalf of company/ Dealer/vendor, should have a valid digital signature certificate (DSC) for this tender.		
d)	SBI reserves the right to cancel or postpone or modify the tenders at any stage without assigning any reason.		
e)	The Bidders are strongly advised to visit the site before submitting their Price Bid to make the work complete		



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	in all respects within the stipulated completion time.
f)	Corrigendum: (If any) is to be followed as published in https://sbi.co.in portal.
	(For and on behalf of State Bank of India) Assistant General Manager Premises & Estate Department 3rd Floor,A Block, Local Head Office,Guwahati

BUSINESS RULES FOR e-TENDERING

Name of Work / Project: - RENOVATION OF G-BLOCK AT STAFF QUARTER, SIX MILE FOR ESTABLISHMENT OF STAFF TRANSIT CAMP

BUYER NAME	State Bank of India
E-TENDERING TO BE CONDUCTED BY	Service provider M/s. Antares Systems Limited Registered Office: # 137/3, 'Honganasu' Kengeri, Bangalore Mysore Road, Bangalore – 560 060, India Ph: - 080- 45982100 Help Desk: 9073677150 / 9073677151 / 9073677152 / 033 4604 6611 Contact Persons: (On working days 9 AM to 6 PM) 1. Mr. Biswajit Chakraborty Mobile No.: +91 967460 8723 e-Mail: helpline1tenderwizard@gmail.com

	2. Mr. Kushal Bose Mobile No.: +91 9674758719 e-Mail: helpdesk857@etenderwizard.com You are requested to contact the agency for further guidance one-tendering process
DATE & TIME OF ON-LINE PRICE BID	30.07.2026 upto 02:00 PM. in e-Tendering Website: https://tenderwizard.com/SBITENDER
DOCUMENTS ATTACHED	i) Notice Inviting Tenders (NIT) ii) Business rule for finalization of tender iii) Terms& conditions of E-Tendering iv) Process Compliance Statement (Annexure I) v) TERMS & CONDITIONS OF THE CONTRACT vi) SPECIAL CONDITIONS OF THE CONTRACT vii) Bid Confirmation (Annexure –II) viii) BOQ- Break-up-of Quantity with detailed estimate (Annexure-III) ix) installation work terms & conditions x) Contact Information.

Type of On-line Price Bid: -

The On-line Price Bid e-tendering will be conducted on the basis of "**Item Rate System**" by adopting the following broad process flow as under: -

1. For the proposed e-tendering process, already empanelled vendors for the said purpose who fulfill all terms and conditions including deposit of Earnest money amount only shall be eligible to participate.
2. SBI will engage the services of a service provider who will provide all necessary training and assistance before commencement of online bidding on Internet.
3. SBI will inform the service provider to enable them to contact and get trained.
4. Business rules like event date, time, etc. also will be communicated through service provider for compliance.
5. Vendors have to e-mail the compliance form in the prescribed format (provided by service provider) before start of e-tendering process. Without this the vendor will not be eligible to participate in the event.



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6. E-tendering process will be conducted on schedule date & time.
7. The lowest bidder has to e-mail the duly signed filled-in prescribed format as provided on case-to-case basis to SBI through service provider within 24 hours of completion of auction without fail.
8. Any variation between the on-line bid value and signed document will be considered as sabotaging the tender process and will invite disqualification of vender to conduct business with SBI as per prevailing procedure.

Procedure of "E-TENDERING PROCESS" :-

9. For the proposed e-Tendering Process, already empanelled vendors for the said purpose who qualified in Technical Bids only shall be eligible to participate.
10. SBI will engage the services of a service provider **M/s Antares Systems Limited, Bangalore** who will provide all necessary training and assistance before commencement of online bidding on Internet.
11. SBI will inform the vendor in writing, the details of service provider to enable them to contact and get trained.
12. Business rules, tender details, event date, time etc. will be communicated through service provider for compliance in addition to uploading the same in Bank's website.
13. Bidders have to send the duly signed Process compliance form in the prescribed format (provided by service provider), On-line Payment details for Tender Fee and Earnest Money Deposit within the stipulated date & Time as Technical Bid, failing which, the vendor/contractor will not be eligible to participate in the price bid event.
14. E-Tendering Process will be conducted on schedule date & time.
15. The lowest bidder has to send e-mail the duly signed filled-in prescribed formats as provided on case-to-case basis to SBI within 24 hours of completion of E-Tendering without fail.
16. Any variation between the on-line bid value and signed document will be considered as sabotaging the tender process and will invite disqualification of vender to conduct business with SBI as per prevailing procedure.

Terms & Conditions of E-Tendering Process

1. LOG IN NAME & PASSWORD: Each Bidder is assigned a Unique Username& Password by ASL. The Bidders are requested to change the Password after the receipt of initial Password from ASL. All bids made from the Login ID given to the bidder will be deemed to have been made by the bidder.



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2. BIDS PLACED BY BIDDER: The bid of the bidder will be taken to be an offer to execute the work. Bids once made by the bidder cannot be cancelled. The bidder is bound to execute the work as mentioned above at the price that they bid. Should any bidder back out and not executed the work, SBI and / or ASL shall take action as appropriate.

3. E-TENDERING TYPE: Online Sealed Price Bid.

4. E-TENDERING WINNER: At the end of the Price Bid, who quoted the lowest Grand Total Price (L1 Price) as mentioned above in "**Type of On-line Price Bid**" will be the winner.

5. GENERAL TERMS & CONDITIONS: Bidders are required to read the "Terms and Conditions" section of the e-Tendering site using the Login Ids and passwords given to them.

6. 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 bidders.
- The Bidder shall not divulge either his Bids or any other exclusive details of SBI to any other party.
- SBI's decision on award of Contract shall be final and binding on all the Bidders.
- SBI along with ASL can decide to extend, reschedule or cancel any E-Tender. Any changes made by SBI and / or ASL, after the first posting will have to be accepted if the Bidder continues to access the site after that time.
- ASL shall not have any liability to Bidders for any interruption or delay in access to the site irrespective of the cause.
- ASL is not responsible for any damages, including 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 requested to ensure that they have a valid digital signature certificate well in advance to participate in the online event.**



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Process Compliance Form

Annexure- I

(The bidders are required to print this on their company's letter head and sign, stamp and send the scanned copy to Premises & Estate Department, LHO Guwahati through e-mail or upload the same in the tender portal)

To

Date:

M/s. Antares Systems Limited,
Registered Office: #24, Sudha Complex,
3rd Stage, 4th Block, Bangalore-560079,
Karnataka.
Ph: 9674758719
e-Mail: kushal.b@antaressystems.com

Sub: Agreement to the Process related Terms and Conditions for the e-Tender for RENOVATION OF G-BLOCK AT STAFF QUARTER, SIX MILE FOR ESTABLISHMENT OF STAFF TRANSIT CAMP

Dear Sir,

This has reference to the Terms & Conditions for "e-Tendering"

This letter is to confirm that:

1. The undersigned is authorized representative of the company.
2. We have studied the all the terms & conditions specified in the tender, Commercial Terms and the Business rules governing the e-Tendering Process and the RFP as mentioned in your letter 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 and ASL shall not be liable & responsible in any manner whatsoever for my/our failure to access & bid on the 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 also confirm that we have a valid digital certificate issued by a valid Certifying Authority.
6. We also confirm that we will send the e-mail the price confirmation of our quoted price as per Annexure II and the format as requested by SBI/ ASL.
7. We, hereby confirm that we will honour the Bids placed by us during the e-Tendering process.
8. **I/We have inspected the site of works and have made me/us fully acquainted with the local conditions in and around the sites of works. I/We hereby declare that I/We have gone through the conditions laid down in the Notice Inviting Tender, General Conditions of Contract, Special Conditions of Contract, Technical Specifications and understood the same and on the basis of the same I/We will quote our price in the E-Tendering.**

With regards

Signature with company seal

Date:



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Name:

Company / Organization:

Designation within Company / Organization:

Address of Company / Organization:

Scan it and sent this document on agmpne.lhoguw@sbi.co.in

TERMS & CONDITIONS OF THE CONTRACT

GENERAL INSTRUCTIONS TO THE TENDERERS

1.0 Scope of Work

The scope of the work under this tender is limited to **RENOVATION OF G-BLOCK AT STAFF QUARTER, SIX MILE FOR ESTABLISHMENT OF STAFF TRANSIT CAMP** as per BOQ and specifications of the tender.

1.1 Site and Its Location: The proposed work is to be carried out at Guwahati, Assam.

2.0 Tender Documents

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

- a) Instructions to tenderers
- b) General Conditions of Contract
- c) Special Conditions of Contract
- d) Technical Specifications
- e) Drawings
- f) Price Bid

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) Drawings
- c) Technical Specifications
- d) Special Conditions of Contract
- e) General Conditions of Contract
- f) Instructions to Tenderer

2.3 The tender documents are not transferable.

3.0 Site Visit

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 satisfy himself regarding the availability of water, power, transport and communication facilities, the character quality and quantity of the materials, labour, the law and order situation, climatic conditions local authorities requirement, traffic regulations etc; The tenderer will be fully responsible for considering the financial effect of any or all the factors while submitting his tender.



4.0 Earnest Money Deposit (EMD) :-

4.1 The tenderers are requested to submit the Earnest Money AS SPECIFIED to be deposited through M/S Antares System Ltd.

4.2 The enterprises registered under Micro, Small and Medium Enterprises (MSME) are exempted from payment of EMD as per criteria mentioned in <https://msmeregistration.org/benefits>.

4.3 No interest will be paid on the EMD.

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

4.5 EMD of successful tenderer will be retained as a part of security deposit.

4.6 The EMD shall stand absolutely forfeited if the tenderer revokes his tender at any time during 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.

5.0 Initial Security Deposit (ISD): -

The successful tenderer will have to submit a sum equivalent to 2% of contract value less EMD to be deposited to A/C No. 10242804581 (SBI, LHO, PREMISES & ESTATE Department Misc. Deposit account) maintained at SBI, Dispur Branch (IFSC code-SBIN0003030) through Bank draft or Bankers Cheque in favour of The Assistant General Manager (premises & Estate) within a period of 15 days of acceptance of tender.

6.0 Security Deposit: -

6.1 Total security deposit shall be 5% of contract value. Out of this 2% of contract value is in the form of initial security deposit, which includes the EMD. Balance 3% shall be deducted from the final bill. 50% of the total security shall be paid to the contractors without interest on the basis of certifying the virtual completion. The balance 50% would be paid to the contractors without interest within 15 days after the end of the defect liability period provided the contractor has satisfactorily attended to all defects in accordance with the conditions of contract including site clearance

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

7.0 Signing of Contract Documents

The successful tenderer shall be bound to implement the contract by signing an agreement and conditions of contract (draft agreement attached herewith) within 7 days from the receipt of intimation of acceptance of his tender by SBI. However, the written acceptance of the tender by the Bank will constitute a binding agreement between SBI and successful tenderer whether such formal agreement is subsequently entered into or not.

8.0 Completion Period

Time is essence of the contract. The work should be completed in all respects in accordance with the terms of contract within a period of **30 days** from the date of handing over site or 10 days from the date of issue of letter of acceptance of Bank whichever is later.

9.0 Validity of Tender

Tenders shall remain valid and open for acceptance for a period of three months from the date of E-Tendering Process. 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.



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10.0 Liquidated Damages

The liquidated damages shall be 0.5% of the accepted tendered cost per week subject to a maximum of 5% of contract value.

11.0 Tendered Rates and Prices

11.1 The tenderers shall quote their rates for individual items through online submission in the Price Bid as per the attached BOQ of this tender. The rate quoted shall be firm and shall include all costs of labour, material, allowances, taxes if any (other than GST) as may be applicable. No extra claims/PVA by any means due to increase rates etc. will be entertained. Bank will only pay GST in addition to quoted rates.

11.2 Rates as bid in the "Price Bid" will be the basis of final order placement.

Form of Tender

To

**ASSISTANT GENERAL MANAGER
PREMISES & ESTATE DEPARTMENT
3rd Floor, SBI Guwahati LHO Building,
P.O. Assam Sachivalaya,
Dispur-781006.**

Dear Sir,

Re:

1. I/We refer to the tender notice issued by the Bank for above workat CAPTIONED SITE in connection with the above.
2. I/We do hereby offer to perform, provide, execute, complete and maintain the works in conformity with the drawings, conditions of contract, specifications, percentage offered price in the bill of quantities applicable for all the items uniformly.
3. I/We have satisfied myself/ourselves as to the site conditions, examined the drawings and all aspects of the tender conditions. Subject to above, I/We do hereby agree, should this tender be accepted in whole or in part, to:
 - a) Abide by and fulfil all the terms and provisions of the said conditions annexed hereto.
 - b) Complete the works within 30 days as stipulated in two or three shifts if considered necessary by the Bank/Consultant at no extra cost to the Bank.
4. I/We have deposited the Earnest money deposit in the specified A/Cs and also submitted Process Compliance form confirming our acceptance of all the tender terms & conditions stipulated in the tender. I/We note, the Earnest Money Deposit will not bear any interest and is liable for forfeiture:
 - i) If our offer is withdrawn within the validity period of acceptance.
Or
 - ii) If the Contract is not executed within 10 days from the date of receipt of the letter of acceptance.
Or
 - iii) If the work is not commenced within 10 days after issue of work order or handing over of site whichever is later.
5. I/We understand that you are not bound to accept the lowest or any tender you receive.



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6. Name of Partners/Directors of our Firm:

- i)
- ii)
- iii)

Yours faithfully

Signature:

Designation:

Name of Partner/Director of the firm authorized to
Sign or Name of person having power of attorney to
sign the contract (Certified true copy of Power of
Attorney should be attached)
Signature and address of witness

a) Signature:

Name:

Address:

b) Signature:

Name:

Address:

ARTICLES OF AGREEMENT

ARTICLES OF AGREEMENT This agreement made theday of between AGM/ DGM ,State Bank of India, -----(hereinafter called the Bank or SBI) which expression shall include the successors and assigns) of the one part and M/s. company / partnership for registered under the Indian Companies Act/ Partnership Act having its registered office..... (hereinafter called 'the Contractors' which expression shall include the present directors / partners and also the directors / partners from time to time as also their respective heirs, legal representatives, administrators and assigns) of the other part. WHEREAS the employer is desirous of execution of _____(Name of work)_____ and has caused drawings and specifications describing the works to be done prepared by Project Architects M/s _____ having their offices at _____ (hereinafter called "the Architect") AND WHEREAS THE SAID Drawings numbered as mentioned in the tender documents hereinafter mentioned and to be issued from time to time, the specifications and the Schedule of items and quantities have been signed by or on behalf of the parties hereto. AND whereas the contractors have agreed to execute upon and subject to the condition set forth herein and Schedule of items and quantities, General & special Conditions of Contract, specification etc. contained in the tendered documents including all correspondences exchanged by or between the parties from the submission of tender till the award of work, both letters inclusive, (all of which are collectively hereinafter referred to as "the said conditions"). The works shown upon the said drawing and /or described in the said specification and included in the schedule of Items and Quantities at the respective rates therein set forth amounting to the sum of Rs_____ (Rupees _____in words_____) as there in arrived at or such other sum as shall become payable there under (hereinafter referred to as " the said Contract Amount". NOW IT IS HEREBY

AGREED AS FOLLOWS:

1. In consideration of the said Contract amount to be paid at the times and the manner set forth in the said Conditions, the Contractors shall upon and subject to the said conditions execute and complete the work shown upon the said drawings and described in the said specifications and the schedule of items and quantities.
2. The employer shall pay the Contractors the amount or such other sum as shall become payable, at the times and in the manner specified in the said conditions.



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3. The term "the Architect" in the said condition shall mean the said "M/s ____" or in the event of their ceasing to be the Architect 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 Architect under this contract shall be entitled to disregard or over rule any previous decisions or approval or direction given or expressed in writing by the architect for the time being.
4. The said conditions and appendix thereto shall be read and construed as forming part of this agreement, and the parties hereto shall respectively abide by / submit themselves to the said conditions and perform the agreements on their part respectively in the said conditions contained.
5. The plans, agreement and documents mentioned herein shall form the basis of this contract.
6. This contract is neither a fixed Lump sum contract nor a piece work contract but is a contract to carry out the work in respect of the entire project on item rate basis to be paid for according to actual measured quantities at the rates contained in the schedule of quantities and rates or as provided in the said conditions.
7. The Bank / Employer reserves to itself the rights of altering the specifications and nature of work by adding to or omitting any item of work or having portions of the same carried out without prejudice to the contract.
8. Time shall be considered as the essence of this contract and the contractor here by agrees to commence the work soon after the site is handed over to him or from the 14th day after date of issue of formal work order as provided for in the said conditions of contractor whichever is later and to complete the entire work within ____ (period of contract) months subject never the less to the provisions for extension of time.
9. All payments by the Employer under this contract will be made only at _____.
10. Any dispute arising under this Agreement shall be referred to arbitration in accordance with the stipulations laid down in the tender.
11. That all the parts of this contract have been read by the contractor and fully understood by the contractor. They further agree to complete the said work to fullest satisfaction of architect / Employer.
12. IN WITNESS WHEREOF the Employer and the contractors have set their respective hands to these presents through their duly authorized official and the said two duplicates hereof to be executed on its behalf of the day and year first herein above written.

Signed on behalf of the

STATE BANK OF INDIA

In the presence of :

1. Signature :
Name :
Address :
In the presence of :
2. Signature :
Name :
Address:

Signed-on behalf of the

CONTRACTORS

In the presence of:

1. Signature :
Name :
Address :
In the presence of :
2. Signature :
Name :
Address :

GENERAL CONDITIONS OF CONTRACT



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1.0 Definitions

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

- 1.1 In the contract the following expressions shall, unless the context otherwise requires, have the meaning hereby respectively assigned to them.
- 1.2 "Employer" shall mean State Bank of India (client) having its Corporate Centre at State Bank Bhavan, Madame Cama Road, Mumbai 400 021 and includes the client's representatives, successors and assigns.
- 1.3 'The Contractor' shall mean the ----- (name of the contractor) undertaking the works and shall include legal personal representative of such individual or the composing the firm or company and the permitted assignees of such individual or firms of company.
- 1.4 The expression 'works' or 'work' shall mean the permanent or temporary work described in the 'Scope of Work' and/or to be executed in accordance with the contract and includes materials, apparatus, equipment, temporary supports, fittings and things of all kinds to be provided, the obligations of the contractor hereunder and work to be done by the contractor under the contract.
- 1.5 'Engineer' shall mean the representative of the SBI.
- 1.6 'Drawings' shall mean the drawings prepared by the employer and issued by the Engineer and referred to in the specifications and any modifications of such drawings as may be issued by the Engineer from time to time
- 1.7 'Contract value' shall mean the value of the entire work as stipulated in the letter of acceptance of tender subject to such additions thereto or deductions there from as may be made under the provision herein after contained.
- 1.8 'Specifications' shall mean the specifications referred to in the tender and any modifications thereof as may time to time be furnished or approved by the employer.



1.9 "Month" means calendar month.

1.10 "Week" means seven consecutive days.

1.11 "Day" means a calendar day beginning and ending at 00 Hrs and 24 hrs respectively.

2.0 Language

The language in which the contract documents shall be drawn shall be in English. All communications by employer & Contractor will 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 latter shall be adopted.
- iv) In case of difference between rates written in figures and words, the rate in words shall prevail.
- v) 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 in accordance with this contract and with the directions of and to the satisfaction of the Employer

5.0 Letter of Acceptance

Within the validity period of the tender the Employer will issue a letter of acceptance by registered post or otherwise depositing at the address 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 binding contract between the Employer and the contractor.

5.1 Contract Agreement: On receipt of intimation of the acceptance of tender from the Employer the successful tenderer shall be bound to implement the contract and within seven days thereof he shall sign an agreement in a non judicial stamp paper of appropriate value.

6.0 Ownership of drawings:



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All drawings, specifications and copies thereof furnished by Architects/ Consultants (if engaged) are the properties of the SBI. They are not to be used on other work.

6.1 Detailed drawings and instructions: The Architects/ Consultants (if engaged) shall furnish with responsible promptness additional instructions by means of drawings or otherwise necessary for the proper execution of the work. All such drawings and instructions shall be consistent with the contract documents, true developments thereof and reasonably inferable there from.

The work shall be executed in conformity therewith and the contractor is to prepare a detailed program schedule including therein the date of start and completion of various activities on receipt of the work order and submit the same to SBI through the Architect/ Consultant (if engaged).

7.0 Copies of Agreement

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

8.0 Liquidated Damages

If the contractor fails to 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 0.5% of the contract value per week subject to a maximum of 5% of the contract value.

9.0 Materials, Appliances and Employees

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

10.0 Permits, Laws and Regulations

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

11.0 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 bank 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 bank the contractor shall be responsible for the same and shall at his own expenses rectify such error, if so, required to satisfaction of the SBI.

12.0 Protection of works and property



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

13.0 Inspection of work:

The SBI/ Architect /Consultant or their representative shall at all times have 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 and their representatives necessary for inspection and examination and test of the materials and workmanship. No person unless authorized by the SBI/architect/consultant except the representative of public authorities shall be allowed on the work at any time. The proposed work either during its construction stage or its completion can also be inspected by the Chief Technical Examiner's organization, a wing of central Vigilance commission.

14.0 Assignment and subletting

The whole of work included in the contract shall be executed by the contractor and he shall not directly entrust and engage or indirectly transfer assign or underlet the contract or any part or share thereof or interest therein without the written consent of the Employer and no undertaking shall relieve the contractor from the responsibility of the contractor from active superintendence of the work during its progress.

15.0 Quality of Materials, Workmanship & Test

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

i) Samples: All samples of adequate number, 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 the 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 satisfaction. 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 sign 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.



ii) Cost of tests: Test provided for in the specifications or BOQ :

- a) The cost of making any test shall be borne by the contractor
- b) Test not provided for in the Specifications of BOQ: If any test is ordered by the Architect/ consultant /SBI which is either to be carried out by an independent person at any place other than the site or the place of manufacture or fabrication of the materials tested or any Government/ approved laboratory, then the cost of such test shall be borne by the contractor.

16.0 Obtaining Information related to execution of work

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

17.0 Contractor's superintendence

The contractor shall give necessary personal superintendence during the execution of the works and as long, thereafter, as the Employer may consider necessary until the expiry of the defects liability period, stated hereto.

18.0 Quantities

i) The bill of quantities (BOQ) unless or otherwise stated shall be deemed to have been prepared in accordance with the Indian Standard Method of Measurements and quantities. The rate quoted shall remain valid for variation of quantity against individual item to any extent subject to maximum variation of the contract value by 25%. The entire amount paid under Clause 20 hereof as well as amounts of prime cost and provisional sums, if any, shall be excluded.

ii) Variation exceeding 25%: The items of work executed in relation to variation exceeding 25% shall be paid on the basis of provisions of clause 21 (e) hereof.

19.0 Works to be measured

The Employer may from time to time intimate to the contractor that he required the work to be measured and the contractor shall forthwith attend or send a qualified representative to assist the Employer in taking such measurements and calculation and to furnish all particulars or to give all assistance required by any of them. The representative of the Employer shall take joint 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 authorized extra work, omissions and all variations made shall be included in such measurements.

20.0 Variations

No alteration, omission or variation ordered in writing by the Employer shall vitiate the contract. In case the Employer thinks proper at any time 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 Employer shall give notice thereof in writing to the contractor or shall confirm in writing within seven days of giving such oral instructions the contractor shall alter to, add to, or omit from as the case may be in accordance with such notice but the contractor shall not do any work extra to or make any alteration 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 Employer and the value of such extras, alterations, additions or omissions shall in all cases be determined by the Employer and the same shall be added to or deducted from the contract value, as the case may be.

21.0 Valuation of Variations

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

- a)
 - i) The net rates or prices in the contract shall determine the valuation of the extra work where such extra work is of similar character and executed under similar conditions as the work priced herein.
 - ii) Rates for all items, wherever possible should be derived out of the rates given in the priced BOQ.
- b) The net prices of the original tender shall determine the value of the items omitted, provided if omissions do not vary the conditions under which any remaining items of works are carried out, otherwise the prices for the same shall be valued under sub clause (c) hereunder.
- c) Where the extra works are not of similar character and/or executed under similar conditions as aforesaid or where the omissions vary the conditions under which any remaining items or works are carried out, then the contractor shall within 7 days of the receipt of the letter of acceptance inform the Employer 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 Employer shall fix such rate or prices as in the circumstances in his opinion are reasonable and proper, based on the market rate.
- d) Where extra work cannot be properly measured or valued the contractor shall be allowed day work prices at the net rates stated in the tender of the BOQ or, if not, so stated then in accordance with the local day work rates and wages for the district; provided that in either case, vouchers specifying the daily time (and if required by the Employer) the workman's name and materials employed be delivered for verifications to the Employer at or before the end of the week following that in which the work has been executed.
- e) It is further clarified that for all such authorized extra items where rates cannot be derived from the tender, the contractor shall submit rates duly supported by rate analysis worked on the "market rate basis" for material, labor, hire/running charges of equipment and wastages etc plus 15% towards establishment charges, contractor's overheads and profit. Such items shall not be eligible for escalation.

22.0 Final Measurement



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

23.0 Virtual Completion Certificate (VCC)

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

- a) Clear the site of all scaffolding, wiring, pipes, surplus materials, contractor's labour, equipment and machinery.
- b) Demolish, dismantle and remove the contractor's site office, temporary works, structures including labor 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 and not incorporated in the permanent works.
- c) Remove all rubbish, debris etc from the site and the land allotted to the contractor by the Employer and shall clear, level and dress, compact the site as required by the Employer.
- d) Shall put the Employer in undisputed custody and possession of the site and all land allotted by the Employer.
- e) Shall hand over the work in a peaceful manner to the Employer.
- f) All defects/imperfections have been attended and rectified as pointed out by the Employer to the full satisfaction of Employer.

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

23.2 This issuance of a VCC shall be without prejudice to the SBI's rights and contractor's liabilities under the contract including the contractor's liability for defects liability period nor shall the issuance of VCC in respect of the works or work at any site be construed as a waiver of any right or claim of the SBI against the contractor in respect of works or work at the site and in respect of which the VCC has been issued.

24.0 Work by other agencies

The SBI/ Architect consultant reserves the rights to use premises and any portion of 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 allow but also extend reasonable facilities for the execution of such work. The contractor however shall not be provided any plant or material for the execution of such work except



by special arrangement with the SBI. Such work shall be carried out in such manner as not to impede the progress of the works included in the contract

25.0 Insurance of Works

Contractor will have to obtain the following insurance covers for the full tenure of the work to cover risks detailed in the following clauses:

- i) Contractor's All Risk Policy including third party compensation as detailed below.
- ii) Workmen Compensation Policy.

25.1 Without limiting his obligations and responsibilities under the contract the contractor shall insure in the joint names of the Employer and the contractor against all loss or 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 Employer and contractor are covered for the period stipulated in clause 28 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.

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

25.2 Damage to persons and property: The contractor shall, except if and so far as the contract provides otherwise indemnify the Employer 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 Employer 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 Employer, their agents, employees or other contractors not being employed by the contractor 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 Employer, their employees, or agents or other employees, or agents or other contractors for the damage or injury.

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

25.4 The contractor shall fully indemnify and keep indemnified the Employer against any action, claim, or proceeding relating to infringement or use of any patent or design or any alleged patent or design rights and shall pay any royalties which may be payable in respect of any article or part thereof included in the contract. In the event of any claim made under or action brought against Employer 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 Employer 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 Consultant in this behalf.

25.5 Third Party Insurance

25.5.1 Before commencing the execution of the work the contractor but without limiting his obligations and responsibilities under clause 26.0 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 26.0 thereof.

25.5.2 Minimum Amount of Third Party Insurance

Such insurance shall be affected 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 SBI/Consultant the policy or policies of insurance cover and receipts for payment of the current premiums

25.5.3 The minimum insurance cover for physical property, injury, and death is Rs.5.0 lacs per occurrence with the number of occurrences limited to four. After each occurrence contractor will pay additional premium necessary to make insurance valid for four occurrences always.

25.6 Accident or Injury to Workmen

25.6.1 The Employer shall not be liable for or in respect of any damages or compensation payable at law in respect or in consequence of any accident or injury to any workmen or other person in the employment of the contractor or any sub-contractor, save and except an accident or injury resulting from any act or default of the Employer or their agents, or employees. The contractor shall indemnify and keep indemnified Employer against all such damages and compensation, save and except as aforesaid and

against all claims, proceedings, costs, charges and expenses whatsoever in respect thereof or in relation thereto

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

25.6.3 Remedy on Contractor's failure to insure: If the contractor fails to effect and keep in force the insurance referred to above or any other insurance which he may be required to effect under the terms of contract, then and in any such case the Employer 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 Employer as aforesaid from any amount due or which may become due to the contractor, or recover the same as debt from the contractor.

25.6.4. Without prejudice to the other rights of the Employer against contractors, in respect of such default, the employer shall be entitled to deduct from any sums payable to the contractor the amount of any damages costs, charges, and other expenses paid by the Employer and which are payable by the contractors under this clause. The contractor shall upon settlement by the insurer of any claim made against the insurer pursuant to a policy taken under this clause, proceed with due diligence to rebuild or repair the works destroyed or damaged. In this event all the monies received from the insurer in respect of such damage shall be paid to the contractor and the contractor shall not be entitled to any further payment in respect of the expenditure incurred for rebuilding or repairing of the materials or goods destroyed or damaged.

26.0 Commencement of Works

The date of commencement of the work will be reckoned as the recorded date of handing over site or 10 days from the date of issue of letter of acceptance of the tender by the Employer whichever is later.

27.0 Time for completion

Time is the 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 Employer, 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.

28.0 Extension of Time

If, in the opinion of the Employer, the work be delayed for reasons beyond the control of the contractor, Bank 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 Employer in writing immediately and while applying for extension of time he shall furnish the reasons in detail and his justification if any, for the delays. 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 Employer the provision of liquidated damages as stated under clause 8 of GCC shall become applicable.

29.0 Rate of progress

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

30.0 Work during night 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 holidays without the permission in writing of Architect/ consultant /SBI, save when the work is unavoidable or absolutely necessary for the saving of life of property or for the safety of the work in which case the contractor shall immediately advice 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/SBI at no extra cost to the SBI.

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

31.0 No compensation for 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 work to be carried out. The Architect/consultant shall give notice in writing to that effect to the contractor and the contractor shall act accordingly. In the matter, the Contractor shall have no claim to any payment of compensation or otherwise whatsoever, on account of any profit or advantage which he might have derived from the execution of the work fully but which he did not derive in consequence of the foreclosure of the whole or part of the work.

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

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

32.0 Suspension of work

i)The contractor shall, on receipt of the order in writing of the SBI (whose decision shall be final and binding on the contractor) suspend the progress of works or any part thereof for such time and in such manner as SBI may consider necessary so as not cause any damage or injury to the work already done or endanger the safety thereof for any of following reasons.



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- 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 of the contractor, or
- c) For safety of the works or part thereof.

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

ii) If the suspension is ordered for reasons (b) and (c) in sub-para (i) above:

The contractor shall be entitled to an extension of time equal to the period of every such suspension. No compensation whatsoever shall be paid on this account.

33.0 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 Employer shall have the power to adopt any of the following course as they may deem best suited to the interest of the SBI.

- a) To rescind the contract (of which rescission notice in writing to the contractor by the Employer shall be conclusive evidence) and in which case the security deposit of the contractor shall be forfeited and be absolutely at the disposal of Employer.
- b) To employ labor paid by the Employer and to supply materials to carry out the work, or any part of the work, debiting the contractor with the cost of the labor and materials (the cost of such labor and materials as worked out by the Employer shall be 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 the certificate of Employer as to the value of work done shall be final and conclusive against the contractor.
- c) To measure up the work of the contractor, and to take such part thereof as shall be 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 (of the amount of which excess the certificates in writing of the Employer shall be final and conclusive) shall be borne by original contractor and may be deducted from any money due to him by Employer 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 Employer the contractor shall have no claim to compensation for any loss sustained by him by reasons of his having purchased or procured any material or entered into any engagements or make any advances on account of, or with a view to the execution of the work or the performance of the contract and in case the contract shall be rescinded 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 Employer 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.



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34.0 Bank'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 Employer that he is able to carry out and fulfill the contract, and to give security therefore if so required by the Employer.

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 Employer through the Consultant or shall charge or encumber this contract or any payment due to which may become due to the contractor there under.

- a) Has abandoned the contract; or
- b) Has failed to commence the works, or has without any lawful excuse under these conditions suspended the progress of the works for 14 days after receiving from the Employer written notice to proceed, or
- c) Has failed to proceed with the works with such diligence and failed to make such due progress as would enable the works to be completed within the time agreed upon, or has failed to remove the materials from the site or to pull down and replace work within seven days after written notice from the Employer that the said materials were condemned and rejected by the Employer 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 Employer instructions to the contrary subject any part of the contract. Then and in any of said cases the Employer 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 Employer 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 so determined and as if the works subsequently had been executed by or on behalf of the contractor. And, further the Employer, 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 complete 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 completing and finishing or using the materials and plant for the works.

When the works shall be completed or as soon thereafter as convenient the Employer 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 receipt thereof by him the Employer sell the same by public auction 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 Employer incidental to the sale of the materials etc.

35.0 Settlement of Disputes and Arbitration

Except where otherwise provided in the contract all questions and disputes relating 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 considers that he is entitled to any extra payment or compensation in respect of the works over and above the amounts admitted as payable by the Architect(if engaged) or in case the contractor wants to dispute the validity of any deductions or recoveries made or proposed to be made from the contract or raise any dispute, the Contractor shall forthwith give notice in writing of his claim, or dispute to the Assistant General Manager (Premises& Estate) and endorse a copy of the same to the Architect(if engaged), 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 (Premises& Estate) in the manner and within the time as aforesaid. The contractor shall be deemed to have waived and extinguished all his rights in respect of any claim not notified to the Assistant General Manager (Premises& Estate) in writing in the manner and within the time aforesaid.

ii) The Assistant General Manager (Premises& Estate) shall give his decision in writing on the claims notified by the contractor. The contractor may within 30 days of the receipt of the decision of the Assistant General Manager (Premises& Estate) submit his claims to the conciliating authority namely the Circle Development Officer for conciliation along with all details and copies of correspondence exchanged between him and the Assistant General Manager (Premises& Estate)

iii) If the conciliation proceedings are terminated without settlement of the disputes, the contractor shall, within a period of 30 days of termination thereof shall give a notice to the concerned Chief General Manager of the Bank for appointment of an arbitrator to adjudicate the notified claims 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 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 re-enactment thereof and the rules made there under. It is also a term of the contract that if any fees are payable to the arbitrator these shall be paid equally by both the parties. However, no fees will be payable to the arbitrator if he is a Bank Officer. It is also a term of the contract that the arbitrator shall be deemed to



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

36.0 Certificate of Payment

The contractor shall be entitled under the certificates to be issued by the Architect/ Consultant/SBI to the contractor within 10 working days from the date of certificate to the payment from SBI from time to time. The SBI shall recover the statutory recoveries and other dues including the retention amount from the certificate of payment. Provided always that the issue of any certificate by the Architect/Consultant during the progress of works or completion shall not have effect as certificate of satisfaction or relieve the contractor from his liability under clause. The Architect/Consultant shall have power to withhold the certificate if the work or any part thereof is not carried out to their satisfaction. The Architect/Consultant may by any certificate make any corrections required in 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 final bills only after taking actual measurements and properly recorded in the Measurement book (M.B). 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.

37.0 Water Supply

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

- i) That the water used by the contractor shall be fit for construction purpose to satisfaction of the Architect/ consultant.
- 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) The contractor shall construct temporary well /tube in SBI land for taking water for construction purpose 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 his original condition after well are dismantled on the completion of work or hand over the well to the SBI without any compensation as directed by the Architect /consultant.

38.0 Power Supply

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

39.0 Treasure trove etc.



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

40.0 Method of Measurement

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

41.0 Maintenance of registers

The contractor shall maintain the following registers as per the enclosed proforma 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 labour

42.0 Price Variation

No price variation shall be applicable in this contract.

43.0 Force Majeure

43.1 Neither contractor nor SBI/Employer shall be considered in default in performance of their obligations if such performance is prevented or delayed by events such as war, hostilities revolution, riots, civil commotion, strikes, lockout, conflagrations, epidemics, accidents, fire, storms, floods, droughts, earthquakes or ordinances or any act of God or for any other cause beyond the reasonable control of the party affected or prevented 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.

43.2 As soon as the cause of force majeure has been removed the party whose ability to 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.

43.3 From the date of occurrence of a case of force majeure obligations of the party affected shall be suspended during the continuance of any inability so caused. With the cause itself 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.

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

44.0 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 regulations. 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 Labour Regulation and Abolition Act 1970 and Central Rules 1971 (Amended)
- v) Apprentice Act 1961 (Amended)
- vi) Industrial Employment (Standing Order) Act 1946 (Amended)
- vii) Personal Injuries (Compensation Insurance) Act 1963 and any other modifications
- viii) Employees' Provident Fund and Miscellaneous Provisions Act 1952 and amendment thereof
- ix) Shop and Establishment Act
- x) Any other Act or enactment relating thereto and rules framed there under from time to time.
- xi) Indian Electricity Act
- xii) Tariff Advisory Committee Manual

45.0 Accidents

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

SPECIAL CONDITIONS OF CONTRACT**1.0 Notice of operation**

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

2.0 Temporary works

Before any temporary works are commenced the contractor shall submit at least 2 days in advance to the architect/ consultant for approval complete drawings of all temporary works he may require for the executions of the works. The contractor shall carry out the modifications relating to strength, if required by the architect / consultant in accordance with the conditions of the 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 quality of the permanent works resulting from the arrangement eventually adopted for their execution.

3.0 Office Accommodation

- a) The contractor shall provide and maintain all necessary offices, workshops, stores, shelters, sanitary facilities, canteens and other temporary structures for themselves in connection 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/ architect/ consultant shall be provided by the contractor 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 architect/ consultant.
- d) 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.

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



5.0 Lighting of works

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

6.0 Fire fighting arrangements

- a) The contractor shall provide suitable arrangement for fire fighting at his own cost. For this purpose he shall provide requisite number of fire extinguisher and adequate number of buckets. Some of which are to be always kept filled with sand and some water. These equipments shall be provided at suitable prominent and easily accessible places and shall be properly maintained.
- b) Any deficiency in the fire safety or conditions shall be corrected by 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:
 - i) Proper handling, storage and disposal of combustible materials and waste.
 - ii) Work operations which can create fire hazards.
 - iii) Access for firefighting equipments.
 - iv) Type, number and location of containers for the removal of surplus materials and rubbish.
 - v) Type, size, number and location of fire extinguishers or fire fighting equipment.
 - vi) General housekeeping.

7.0 Site order book

A site order book shall be maintained at site for the purpose of quick communication between the Architect/ consultant/ SBI. Any communication from one party to the other shall be deemed to be in the site order book. Such a communication from one party to the other shall be deemed to have been adequately served in terms of contract. Each site order book shall have machine numbered pages in triplicate and shall be carefully maintained and preserved by the contractor and shall be made available to the architect/ consultant/ SBI as and when demanded. Any instruction which the architect/ consultant/ SBI may like to issue to the contractor or the contractor may like to bring to the architect/ consultant two copies of such instructions shall be taken from the site order book and one copy will be handed over to the party against proper acknowledgement and the second copy will be retained for their record.

8.0 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 /SBI.

9.0 Disposal of refuse

The contractor shall cart away all debris, refuse etc. arising from the work from the site and deposit the same as directed by the construction site or any other off-site activities borrow pits has been properly disposed off.

10.0 Contractor to verify site measurement

The contractor shall check and verify all site measurements whenever requested by other specialists 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.

11.0 Displaying the name of the work



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

12.0 As built drawings:

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

13.0 Approved make

The contractor shall provide all materials from the list of approved makes. The architect/ consultant may approve any make /agency within the approved list as given in the tender.

14.0 Procurement of materials

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

15.0 Tendered Rates / Amount

- a) **Price Bid : The Bidder has to submit online item wise rates and Total Amount as per BOQ at annexure-III of this tender inclusive of all overhead, contractor's profit, the cost of materials/labours including all other costs, taxes, charges etc. and exclusive of GST only on work contract. GST on work contract will be paid extra as applicable. Item wise rates bid in "Price Bid" will be the basis of final order placement.**

16.0 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.

17.0 Government and Local Rules:

The Contractor shall conform to the provisions of all local byelaws and Acts relating to the work and to the Regulations etc. of the Government and Local Authorities and of any company with whose system the structure is proposed to be connected. The contractor shall give all notices required by the said Act, Rules, Regulations and byelaws etc. and pay fees payable to such authority/ authorities for execution of the work involved. The cost, if any, shall be deemed to have been included in his quoted rates, taking encroachment and restorations etc. and shall indemnify the Employer against such liabilities and shall defend all action arising from such claims of liabilities.

18.0 Possession Prior to Completion



The Owner shall have the right to take possession of or use any complete or partially completed part of the work. Such possession or use shall not be an acceptance of any work not completed in accordance with the contract Agreement.

19.0 Tools, Storage of Materials, protective Works and Site Office Requirements

- a) The contractor shall provide, fix up and maintain in an approved position proper office accommodation for the Contractor's representative and staff which office shall be open at all reasonable hours to receive instruction notices or communications and clear away on completion of the work and make good all work disturbed.
- b) All drawings maintained on the site are to be carefully mounted on boards of appropriate size and covered with a coat of approved varnish. They are to be protected from ravages of termites, ants, and other insects and made available to the Owner /architects for inspection or such other purposes they may require.
- c) The contractor shall provide at his own cost all artificial light required to complete the work within the specified time.
- d) The contractor shall provide a suitable temporary hut for the watchmen and clear away the same when no longer required and to provide all necessary attendance, lights etc. required.
- e) The contractor shall arrange for temporary latrines for the use of workers and field staff and keep the same in a clean and sanitary condition to the satisfaction of the public Health Authorities and shall cause such latrines and soil to be cleared away whenever necessary and shall make good all the work disturbed by the conveniences.
- f) Every precaution shall be taken by the Contractor to prevent the breeding of mosquitoes on the work during the construction and all receptacles, cisterns, water tank etc. used for storage of water must be suitably protected against breeding of mosquitoes. The contractor shall indemnify the owner against any breach of rules in respect of anti-malarial measures.
- g) The contractor shall not fix or place any placards or advertisement of any description or permit the same to be fixed or placed in or upon any boarding gantry, building structure other than those approved by the SBI.

20.0 Protective Measures

The contractor from the time of being placed at the site must make suitable arrangements for watching lighting and protecting the work, the site and surrounding property by day, by night, on Sundays and other holidays.

The contractor shall indemnify the SBI against any possible damage to the building, roads, or member of the public in course of execution of the work.

The contractor shall provide necessary temporary enclosures etc. for the protection of the work and materials and for altering and adopting the same as may be required and removing on completion of the work and making good all work disturbed.

21.0 Storage of Materials:

The contractor shall provide and maintain proper sheds for the proper storage and adequate protection of the materials etc. and other work that may be executed on the site including the tools and materials of nominated sub-contractors and remove same on completion.

22.0 Tools



All measuring tapes shall be of steel and suitable scaffolding and ladders that may be required for taking measurement shall be supplied by the Contractor.

The Mistries and the supervisor on the work shall carry with them always a one meter or two meter steel tapes and a measuring tape of 30 meters, a spirit level, a plumb bob and a square check the work to see that the work is being done according to the drawing and specifications. The site engineer will use any or all measuring instruments or tools belonging to the contractors as he chooses for checking the work executed or being executed on the contract.

The contractor should cover in his rates for making provisions for all reasonable facilities for the use of his scaffolding, tools and plant etc. by nominated sub-contractors for their work.

23.0 Removal of Improper Work

The SBI/ Consultant shall during the progress of the work have power to order in writing from time to time the removal from the work within such reasonable time or times as may be specified in the order of any materials which in the opinion of the SBI/ Consultant are not in accordance with specifications or instructions, the substitution or proper re-executed with materials or workmanships not in accordance with the drawings and specifications or instructions. In case the Contractor refuses to comply with the order the SBI/ consultant shall have the power to employ and pay other agencies to carry out the work and all expenses consequent thereon or incidental thereto as certified by the SBI/ consultant shall be borne by the Contractor or may be deducted from any money to or that may become due to the contractor. No certificate which may be given by the consultant shall relieve the contractor from his liability in respect of unsound work or bad materials.

24.0 Dismissal of Workmen

The Contractor shall on the request of the SBI/ Consultant immediately dismiss from work any person employed thereon by him, who may in the opinion of the SBI/ Consultant be unsuitable or incompetent or who may misconduct himself. Such discharge shall not be the basis of any claim for compensation or damages against the SBI/ Consultant or any of their officer or employee.

25.0 Concealed Work

The Contractor shall give not less than 5 days notice of the SBI/ Architects whenever any work is to be buried in the earth, concrete or in the bodies of walls or otherwise becoming inaccessible later on in order that the work may be inspected and correct dimensions taken before such burial. In default whereof the same shall at opinion of the SBI/ Architect be either opened up for measurement at the Contractor's expense or no payment may be made for such materials. Should any dispute or difference arise after the execution of any work as to measurements etc or other matters which cannot be conveniently tested or checked, the notes of the SBI/ Architects shall be accepted as correct and binding on the contractor.

26.0 Substitution

Should the contractor desire to substitute any materials and workmanship, he/they must obtain the approval of the SBI/Architects in writing for any such substitution well in advance. For materials designed in these specifications by such term as "Equal" or "other approved" etc. specific approval of the SBI/ Architects has to be obtained in writing.

27.0 Preparation of Building Works for Occupation and Use of Completion

The whole of the work will be thoroughly inspected by the contractor and deficiencies and defects put right. On completion of such inspection, he shall inform the SBI that he has completed the work and it is ready for inspection.

On completion, the contractor shall clean all windows and doors including cleaning and oiling, if necessary, of all hardware, inside and outside, all floors, staircases every part of the building. He will leave the entire building neat and clean and ready for immediate occupation and to the satisfaction of the SBI.



28.0 Defects after Completion

The Contractor shall make good at his own cost and to the satisfaction of the SBI all defects and other faults which may appear within 12 months after completion of the work. In default the SBI may employ other persons to amend and make good such damages, defects etc. Expenses consequent thereon or incidental thereto shall be recoverable from the contractor by the SBI from any money due to the contractor. In the event of the amount being insufficient the SBI may recover the balance from the contractor, from the amount retained under Clause No. 1 (total security deposit) of General Conditions of Contract together with any expenses the SBI may have incurred in connection therewith.

29.0 Idle Labour

Whatever the reasons may be, no claim for the labour, additional establishment cost of hire and labour charges of tools and plants would be entertained under any circumstances.

30.0 Guarantee for the Specialized Works

Wherever provision for submission of a guarantee has been advised, the same shall be submitted from the specialized agency along with a counter guarantee by the main contractor engaged for the work. The guarantee shall be furnished on a non-judicial stamp paper of appropriate value. If the contractor is required to submit guarantee/ guarantees for any items for a period of more than 12 months, the guarantee/ guarantees in case of those items shall remain valid even expiry of the defects liability period of 12 months as stipulated in the contract.

31.0 Safety Measures at Site

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.

1. First Aid Box should be kept at site with all requisite materials.
2. No one should be allowed to inspect / work at a height without Safety Belt.
3. 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).
4. 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.
5. 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.
6. Every opening in the floor of a building or in a working platform be provided with suitable means to prevent the fall of persons or materials by providing suitable fencing or railing whose minimum height shall be 1 Meter.

7. Safe means of access shall be provided to all working platforms 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 Meters in length. For longer ladders this width should be increased at least 6mm for each additional 30 cms. Uniform step spacing shall not exceed 30cms.
8. Adequate precautions shall be taken to prevent danger from electrical equipments. For electrical on line works gloves, rubber mats, and rubber shoes shall be used.
9. 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.
10. 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 materials which are 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 and the manholes so opened shall be cordoned off with suitable railing and provided with warning signals and boards to prevent accident to the Public.
11. 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.
12. 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.

32.0 Fire Safety Measure

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

- 1. Only ISI marked 3 pin plug and other appliances and equipment shall be used.
- 2. Electrical power cables/wires used shall not have any joints and shall be properly rated.
- 3. All electrical appliances i.e. welding, drilling, cutting machine etc. shall be safely and securely earthed to prevent leakage current while in operation.
- 4. Before commencing the welding work, fire section shall be informed and required precautions should be taken.
- 5. Two buckets of water, sand and a fire cloth of suitable size shall be kept in an easily accessible area on the site.
- 6. Fire extinguishers recommended by fire officers shall be kept on the site.
- 7. Used paint drums shall be stored in specified store only after closing them properly.
- 8. Personal protective equipment such as safety shoes, hand gloves, welder's mask, ear plug etc. depending upon the requirement of the work shall be provided by the contractor to the workmen to prevent occupational health hazards.
- 9. The safety belt shall be provided by the contractor and used by the workmen while working from height for more than 10 Mtr. from Ground level.
- 10. None of the passages near lift lobby and staircases shall be used for stacking / dumping any kind of materials/waste.



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11. Any debris/ waste generated from the work shall be collected on daily basis, removed from site and stored at the designated place in proper manner.
12. Battery operated emergency light/torches shall be provided by the contractor to the workmen while working beyond office hours.

III. CERTIFICATE

The measurements on the basis of which the above entries for the Bill No..... made have been taken jointly on and are recorded at pagesto Of measurement book no./Sheets

Signature and date of
Contractor

Signature and date of
Engineer of SBI

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

Architect
Engineer

Site Engineer/Bank's

IV – MEMORANDUM FOR PAYMENT

R. BILL NO

1. Total amount due since previous bill (D) (A+B) Rs.....

2. PVA on account of escalation in price of steel
cement and other materials and labour as detailed

in separate statement enclose Rs.....

3. Deductions:

a. Secured Advance paid in the previous R.A. Rs..

b. Retention money on value of works as per



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accepted tenders: up to date amount

Less: Already recovered (-) Rs.....

Balance to be recovered Rs.....

c. Mobilization advance, if any

i. Outstanding amount (Principal + Interest)

as on date Rs.....

ii. To be recovered in this bill Rs.....

iii. Any other departmental material cost

to be recovered as per contract, if any Rs.....

iv. Any other departmental service charges to be

recovered if any, as per contract (Water, power etc.)

Enclose statement Rs.....

4. Total deduction as per contractor Rs.....

5. Net amount payable as per Contract (E-F) Rs.....

(Rupees.....) in words.

This bill amounting to(both figures and words) has been scrutinized by me after due test check of the measurement of works as required and as recommended for payment.

Dated Signature of Bank's Engineer

In charge of the project

STATUTORY DEDUCTIONS:

1. Total amount due (E) Rs.....

2. Less: Income Tax Payable Rs.....

3. Net Payable Rs.....

The figure in the Memorandum for Payment has been verified and the bill passed for payment Rs..... (Words and figures)

Date:

Signature of Premises office

DETAILS OF INSURANCE POLICIES



P&E/2026-27/Tender/43 dated 16.07.2026

Type of Policies	Name of Insurance	Amount (Rs.)	Policy No.	Validity
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Workmen's Compensation

Remarks:

- 1.This only an 'on -account' payment and is not interpreted either as approval of work, materials brought or affixed at site or for that matter approval of any sort.
2. The quantum of work done and materials delivered at site have been certified by
3. Should you wish to audit such work, kindly contract the undersigned and oblige.

Architects

PROFORMA OF HINDRANCE REGISTER

Name of Work : Date of state 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 SE/PE	Remarks
1	2	3	4	5	6	7

SE = Site Engineer

PE = Project Engineer



MAINTENANCE OF RECORDS

A) Registers at the site office of the Bank's Engineer:

1. Measurement Books
2. Drawing register
3. Materials and site register
4. Hindrance Register
5. Site visit & instructions Register.

PROFORMA FOR APPLICATION BY CONTRACTOR FOR EXTENSION OF TIME

1. Name of Contractor:
2. Name of the work as given in the Agreement
3. Agreement WO
4. Tender amount
5. Date of commencement of work
6. Period allowed for completion as per agreement
7. Date of completion as per agreement
8. Period for which extension of time has been given

Date Month Year

- a) 1st extension vide Bank's letter no.
- b) 2nd extension vide Bank's letter no.
- c) 3rd extension vide Bank's letter no.

9. Reasons for which extension have been previously given (copies of the previous applications should be attached)
10. Period for which extension is applied for and the reasons thereof including hindrances, time for extra work assigned if any etc.

Signature of Contractor

TECHNICAL SPECIFICATION / LIST OF APPROVED MAKE**1.0 CEMENT PLASTER (INTERNAL & EXTERNAL)****a) Preparation of Surface**

The walls to be plastered to have all joints raked out to a depth of 10 mm, if not already done. R.C.C surface shall be properly hacked to get good key to the plaster. All dust and oily matter, if any, shall be brushed and cleaned and surface to be plastered shall be kept wet for 6 hours before plastering is commenced.

b) Proportion of Mortar :

The plaster in walls, lintels, columns, ceiling, ceiling beams, projected slabs, rails, chajja, marquise, domes etc. shall be done with sand cement mortar in the proportion as described in the Schedule of Quantities). No more cement mortar shall be prepared than that can be used within half an hours.

c) Application of Plaster :

The mortar shall be applied evenly with force on the surface to be plastered. The mortar surface shall be finished at once by being rubbed over with a trowel till the cement appears on the surface. All corners, angles and junctions shall be truly vertical and horizontal as the case may be, carefully and neatly finished. Rounding of corners and junctions where required shall be done without extra charge. The mortar shall adhere to the surface intimately when set and there should be no hollow sound when struck.

d) When neat cement finish is specified over the plaster surface, a coat of pure portland cement slurry, 1.5 mm thick shall be applied and well rubbed to the plaster surface while the plaster surface is still fresh.**e) When no finish is specified, the plastered surface shall be rubbed well to an even plane with a wooden float for external surface and finished smooth with a steel trowel for internal surface.****f) Rates to include**

Apart from other factors mentioned elsewhere in the contract rates for the item of plaster shall include for the following :-

- i) Erecting, dismantling and removing the scaffolding.
- ii) Preparing the surface to receive the plaster.
- iii) Providing cement plaster of the specified average thickness.
- iv) All labour, materials, use of tools and equipment to complete the plastering as per specification.

- v) Curing for 7 days
- vi) Any moulding work if shown on the drawings or as specified unless separately provided in the tender.
- vii) Labour for plastering the surface in two operations when thickness of plaster is more than 12 mm thick.
- viii) Plaster work in bends, arises, rounded angles, fair edges, narrow returns, quirks 'V' joints, splays, drip mouldings, making good to metal frame junctions with skirting of dados narrow width and small quantities, making good round pipes, conduits, timbers, sills, brackets, railings, etc and making good after all the sub-contractors or nominated sub-contractors have done their work.
- ix) Neat cement finish when specified in the item.

g) Mode of Measurement

Plaster shall be measured in square metre.

Walls : The measurement of wall plastering shall be taken between the walls or partitions (the dimensions before plastering shall be taken) for the length and from the top of floor or skirting depending upon the situation to the ceiling for the height.

Deductions : For jambs soffits, sills, etc. for openings not exceeding 0.5 sq.m each in area, ends of joists, beams, posts, girders, steps etc. not exceeding 0.5 sqm each in area, and opening not exceeding 3 sqm each, deductions and additions shall be made in the following manners :-

- a) No deductions shall be made for ends of joists, beams, posts, etc. and openings not exceeding 0.5 sqm and no additions shall be made for reveals, jambs, soffits sills etc. of these openings nor for finishing the plaster around ends of joists, beams, posts, etc.
- b) Deductions for openings exceeding 0.5 sqm but not exceeding three sqm each shall be made as follows and no addition shall be made for reveals, jambs, soffits, sills etc. of these openings :-
 - i) When both faces of wall are plastered with the same type of plaster, deduction shall be made for one face only.
 - ii) When two faces of wall are plastered with different type of plasters or if one face is plastered and other pointed, deductions shall be made in the plaster or pointing on the side on which the width of reveals is less than that on the other side but no deduction shall be made from plaster or pointing on the other side. Where widths of reveals on both faces of wall are equal, deduction of 50 per cent of area of opening on each face shall be made from areas of plastering and/or pointing as the case may be.
 - iii) When width of door frame is equal to thickness of wall or is projecting beyond thickness of wall, full deduction for opening shall be made from each plastered/pointed face of the wall.

- iv) In case of openings of area above 3 sqm each deductions shall be made for the openings but jambs, soffits and sills shall be measured.
- c) Ceiling
 - i) Ceiling shall be measured between the walls or partitions and the dimensions before plastering shall be taken.
 - ii) Ceiling with projected beams shall be measured over beam and the plastered sides of beams shall be measured and added to plastering on ceilings.

2.0 RULE POINTING

The external brick work to be pointed, as shown on drawings is to be executed with specially selected bricks uniform in size and colour and with true and undamaged faces and arises. The joints are to be raked out at least 12 mm (1/2") deep and pointed with line gauge in cement. No cutting of bricks or facing up with coloured plaster will be allowed.

3.0 PLASTER OF PARIS PUNNING

If the plastered surface is to be finished with plaster of paris punning, the surface shall be combed slightly with the wire brushes or nails before it is completely set to form key for plaster of paris punning. The surface shall be only damped but not soaked before the application of Plaster of Paris punning. The Gypsum for preparing punning shall be approved quality. It shall be dry and free from lumps and shall be suitably packed in water tight bags or containers.

Paste shall be prepared by adding required quantum of water and same shall be used before it sets. No dropping paste shall be used in the work.

Punning shall be applied to the prepared surface with steel trowel to a thickness required to make the surface produce perfectly smooth and even surface, working from top to bottom.

The finished surface shall not show any sign of disintegration, topping or pilling. The surface shall be protected from injury and damage.

3.1 RATES TO INCLUDE

Apart from other factors mentioned elsewhere in this contract, rates for the item of plaster of paris punning shall include the following

- i) Erecting, dismantling and removing the scaffolding.
- ii) Preparing the surface to receive the said finish.
- iii) Providing plaster of paris punning of the required thickness to make the surface perfect smooth and even including cost of materials.
- iv) Any moulding work if shown in the drawings or as specified.
- v) Finishing in bends, arises, rounded angles, fair edges, narrow returns, quirk, 'V' joints, splays, drip mouldings, making good to metal frames, junctions with skirting or dados, narrow widths and small quantities, making good round pipes, conduits, timbers, sills, brackets, railings etc.

and making good after all the sub-contractors or nominated sub-contractors have done their works.

3.2 MODE OF MEASUREMENTS

The measurement shall be in square metre. The mode of measurement shall be as applicable to that for plaster.

4.0 WHITE WASHING COLOUR WASHING & DISTEMPERING

4.1 i) White Washing

- a) **Materials** : White wash shall be prepared from 5 parts of stone lime and 1 part of shell lime. The lime shall be dissolved in tub with sufficient quantity of water (about 4/5 litres/kg of lime) and the whole thoroughly mixed and stirred until it attains the consistency of thin cream. The wash shall be taken out in small quantities and screened thorough a clean coarse cloth. Clean gum dissolved in hot water shall then be added in suitable proportion of 4 Kg of gum arabic per cum of lime to prevent the white wash coming off easily when rubbed. Indigo as necessary (upto 3 gm per kg of lime) shall be mixed as per standard practice.
- b) **Scaffolding** : This shall be double or single according to requirements and as directed. If ladders are used, pieces of old gunny bags or cloth rags shall be tied on their tops to avoid damage or scratches to the plastered surfaces, etc. Proper stage scaffolding shall be erected when white washing the ceilings.
- c) **Preparation of Surface** : The surface shall be prepared by removing all mortar droppings and foreign matter and thoroughly cleaned with hair or fibre brush or other means as may be ordered by the Bank/Consultants to produce an approved clean and even surface. All loose pieces and scales shall be scrapped off and holes, cracks etc stopped with mortar to match with the surrounding finish. The mortar should be cured sufficiently.
- d) **Application of White Wash** : On the surface so prepared the white wash shall be laid on with a brush. The first stroke of the brush shall be from top downwards, another from bottom upwards over the first stroke, and similarly one stroke from the right and another from the left over the first brush before it dries. This will form one coat, each coat must be allowed to dry and shall be subject to inspection and approval before the next coats applied.

When dry, the surface shall show no signs of cracking. It shall present a smooth and uniform finish free from brush marks and it should not come off easily when rubbed with a finger. Minimum 3 coats of white wash shall be applied.

No portions in the surface shall be left out initially to be patched up later on.

For new work, the white washed surface shall present a smooth and uniform finish.

Doors, windows floors and other articles of furniture etc. shall be protected from being splashed upon. Splashing and droppings, if any, shall be removed and the surfaces

cleaned.

- e) **Rates to Include** : Apart from other factors mentioned elsewhere in this contract, the rates for white wash include for the following :-
 - i) All labour, materials, equipment required for white washing.
 - ii) Scaffolding including erection and removal.
 - iii) Providing and preparing the white wash.
 - iv) Preparing the surface for white wash including the scaffolding.
 - v) Applying the white wash in three coats minimum. If a proper even surface is not obtained to the satisfaction of the Bank/ Consultants in 3 coats, contractors shall carry out additional coats of white wash to approval, at contractor's expense.
- f) Mode of measurement : The measurement shall be in square metre. The mode of measurement shall be as applicable to that for plaster.

4.2 DISTEMPERING

Providing Oil bound Distemper :

- a) Material

The oil bound distemper shall be of approved quality color shade manufactured by ICI, Berger Paints (India) Ltd, M/s. Asian Paints Ltd.

- b) Scaffolding

This shall be double or single as required and directed.

- c) Preparing the surface

The surface to be distempered shall be cleaned and all cracks, holes and surface defects shall be repaired by applying putty, made of plaster of paris mixed with water. All irregularities shall be sand papered smooth and wiped clean. The surface so prepared must be completely dry and free from dust before distempering is commenced. In the case of walls newly plastered, special care shall be taken to see that it is completely dry before any treatment is attempted.

- d) Priming Coat

The priming coat shall be applied over the complete dry surface in the manner recommended by the manufacturer.

- e) Application of Distemper

The instruction of the makers shall be followed regarding the preparation of the surface and application of priming and finishing coats. Distemper shall not be mixed in a larger quantity than is actually required for a day's work. Distempers shall be applied in dry weather with

broad stiff brush in long parallel strokes. The treated surface shall be allowed to dry and harden. Second or succeeding coats shall not be applied until the preceeding coat has been passed by the Bank/ Consultants. Two more coats of distemper shall be given in exactly the same manner as the first one but only after the earlier coat laid has thoroughly dried.

f) Rates to include

The rates shall include all labour, materials equipment and tools for carrying out the following operations :-

- i) Providing the primer and distemper and mixing the distemper.
- ii) Scaffolding.
- iii) Preparing the surface to receive the priming and finishing coats.
- iv) Applying the priming coats.
- v) Applying the distemper in 2 coats minimum, if a proper even surface is not obtained to the satisfaction of the Bank/Consultants in 2 coat, contractor shall carry out additional coats of distemper to approval, at contractor's expense.

g) Mode of Measurements : Similar to that for white washing.

5.0 PLASTIC EMULSION PAINT

5.1 MATERIAL

The emulsion paint and primers shall be of approved quality colour and shade manufactured by ICI/Berger Paints (India) Ltd/Asian Paints Ltd.

5.2 SCAFFOLDING

This shall be double or single as required and directed. If ladders are used, pieces of gunny bags or cloth bags shall be tied on their tops to avoid damage or scratches to the plastered surfaces etc. proper stage scaffolding shall be erected when painting the ceiling.

5.3 PREPARATION OF THE SURFACE

The surface to be painted shall be cleaned and all cracks, holes and surface defects shall be repaired with plaster of paris for spot filling, and with filler prepared with whiting, water and a little quantity paint for filling and levelling the wider areas.

5.4 PRIMING COAT

The priming coat of the cement primer of approved quality make shall be applied over the completely dry surface in the manner as recommended by the paint manufacturers.

5.5 APPLICATION OF EMULSION PAINT

The recommendation of approved paint manufacturer, whose product is used, shall be followed regarding the preparation of the surface and the application of the priming and finishing coats. The contractor shall arrange for technical assistance and supervision from the paint manufacturer, during the execution of the painting work. After the priming coat has been applied and perfectly dried, all holes, scratches, if any, shall be repaired as mentioned in 'preparation of surface' and then the second coat of approved shade and manufacturer shall be evenly applied and allowed to dry.

The third coat shall be carefully applied to achieve smooth and even surface after the previous coat has dried up. Minimum 3 coats of paint shall be applied inclusive of primer coat. If a proper and even surface is not obtained to the satisfaction of the Bank/Consultants in 3 coats, Contractor shall carry out additional coats of painting to approval, at contractor's expenses. Care shall be taken that dust or other foreign materials do not settle or disfigure the various coats.

5.6 RATES TO INCLUDE

Apart from other factors mentioned elsewhere in this contract, the rates for the item of plastic emulsion paint shall include for the following :-

- i) All labour, materials and equipment necessary to carry out the work.
- ii) Supplying the approved emulsion paint for priming and finishing coats.
- iii) Preparing the surface for receiving the primer and finishing coats.
- iv) Scaffolding including its erections and dismantling.
- v) Application of one primer coat and minimum two coats of finishing. If a proper and even surface is not obtained to the satisfaction of Bank/Consultants in 3 coats mentioned above, the contractor shall carry out additional coats of painting to approval at contractor's expense.
- vi) Protection to painted surface till dried and handed over.
- vii) Expense, if any, for supervision and technical assistance supplied by the approved paint manufacturers.

5.7 MODE OF MEASUREMENT

The measurement shall be in square metre. The mode of measurement shall as applicable to that for white washing.

6.0 CEMENT BASED PAINTING :

- a) Material

External waterproofing cement based paints shall be of approved quality and shall be manufactured by Killick Nickshon, Berger Paints (India) Ltd.

- b) Preparation of surface

Before painting is commenced on surface, all dirt, oil, grease, efflorescence and organic material shall be completely removed. The surface shall be wetted by sprinkling of water

with fine spray. The surface shall be sprayed several times with a few minutes intervals between each spraying to allow the moisture to soak into the surface.

c) Application

Cement based paint solution shall be applied to the surface with hair brush to get uniform finish. After the first coat of paint has dried it shall be cured with water at least for 24 hours, before the application of the second coat should be elapsed between the two coats. The meaning of one coat shall be as described for white washing.

d) Curing

Cement based paint work shall be kept damp at least for 7 days.

e) Rates to include

Apart from other factors mentioned elsewhere in this contract, the rate of providing cement paint shall include for the following :-

- i) All labour, materials and equipment to provide cement paint.
- ii) Scaffolding, including erecting and removing.
- iii) Preparing the surface as stated above.
- iv) Applying 2 coats of approved cement based paint. If a proper and even surface is not obtained to the satisfaction of the Bank/Consultants in the coats applied, the contractor shall provide additional coats of painting to approval, at contractor's expense.
- v) Curing as stated above.
- vi) Mode of Measurement :

Measurement shall be in square metre and as applicable to white wash. Nothing extra shall be allowed for painting on rough surface, for example, external sand faced plaster, rough cast plaster etc.

7.0 PAINTING, FRENCH POLISHING

7.1 PAINTING :

a) Material

Ready mixed oil paints and primer, in general shall be of approved quality, colour and shall manufactured by ICI, Berger Paints (India) Ltd, Asian Paints Ltd. These materials shall be in sealed tins and shall be opened in the presence of the Bank/Consultants at site.

b) Preparation of Surface

i) Iron and Steel works :

Surface to be painted shall be thoroughly cleaned, sand papered and/or rubbed with emery cloth, if necessary, to remove grease, mortar or any other foreign materials. In case of rusted surface, it shall be first cleaned with wire brushes till the corroded rust is removed. the prepared surface shall be shiny and free from brush marks, patches, blisters and other irregularities. The surface thus finished shall be got approved for painting.

ii) Wood work :

All surface to be painted shall be thoroughly cleaned sand papered and removed of all foreign materials. In case of surfaces having knot and nail holes, this shall be filled with knotting and stopping materials. The knotting materials shall consist of pure shellac dissolved in methylated spirit. Stopping materials shall consist of putty. The surface thus treated shall be allowed to dry and then sand papered smooth.

c) Application

After preparing the surface, a primer coat shall be applied. The primer coat shall be ready mix of approved make and manufacturer. After the primer coat is applied and perfectly dried, all holes, cracks, etc. which shall remain, shall be filled in with putty and the surface sand papered smooth. Then a second coat of paint of approved shade and manufacturers shall be evenly applied and allowed to dry.

The third coat shall be carefully applied to achieve smooth and even surface after the previous coat has dried up. Minimum 3 coats of paint shall be applied inclusive of a primer coat. If a proper and even surface is not obtained to the satisfaction of the Bank/Consultants in 3 coats, contractor shall carry out additional coats of painting to approval, at contractor's expenses. Care shall be taken that dust or other foreign materials do not settle or otherwise disfigure the various coats.

d) Rates to include :

Apart from other factors mentioned elsewhere in this contract, the rate for the item of painting shall include for the following :-

- i) All labour, materials equipment necessary to carry out the work.
- ii) Supplying the approved paint for priming and finishing coats.
- iii) Preparing the surface including knotting and stopping for receiving the priming and finishing coats.
- iv) Scaffolding including its erection and dismantling.
- v) Application of atleast one primer coat and two coats of finishing for wood work and atleast two finishing coats for steel work unless otherwise specified. If a proper and even surface is not obtained to the satisfaction of the Bank/Consultants, contractor shall carryout additional coats of painting to approval at contractor's

expense.

- vi) Protection to painted surface till dried and handed over.

Mode of Measurement

Painting to wood work and steel shall be measured separately, as per I.S. 1200 (Part XV) of latest edition.

7.2 FRENCH POLISHING

French polish to be used shall comply with I.S. 348 of latest edition in the requirements of quality. Before french polish is applied, the surface of wood work shall be prepared in the same manner as for painting. The wood to be polished should be first painted with a filler composed of 1 part of whiting mixed with 0.53 part of methylated spirit. After drying, it should be finely sand papered.

On the wood work thus treated a thin coat of french polish shall be applied and allowed to dry. After drying, the surface shall be lightly rubbed with a fine sand paper prior to the second and third coats. The surface shall show an even polished surface and be approved by the

Bank/Consultants.

- i) Rates to Include : Similar to that of painting.
- ii) Mode of measurement : Similar to that of painting.

8.0 ROOF TREATMENT

8.1 WATER PROOFING TREATMENT TO ROOFS

8.1.1 Material

Water proofing compound conforming to IS 2645 of latest edition, cement, brick bats, sand etc of approved quality.

8.1.2 Preparation of Surface

The roof and sunken floor surface and vertical wall surfaces shall be thoroughly cleaned with wire brushes. All loose scales shall be removed and chipped off to receive cement plaster and cement slurry.

8.1.3 Laying of Treatments

8.1.3.1 Horizontal Surface

- a) One layer cement slurry with admixture of water proofing compound conforming to IS 2645 of required quantity to be spread on the prepared surface.
- b) Cement mortar (1:4) of required thickness as specified in the Schedule of Quantities shall be laid with admixture of water proofing compound conforming to IS 2645 of latest edition as per manufacturer's specification.

- c) A layer of brick bats (coba) of required thickness as specified in the Schedule of Quantities is to be laid over the mortar layer to get the required gradient for drainage. The joints between the brick bats shall be kept between 15 to 25 mm wide. Joints are to be filled with cement slurry/cement mortar (1:4) with admixture of water proofing compound of required proportion as per manufacturers' specification. Thereafter curing shall be done for two days.
- d) The top surface is to be finished smooth with cement plaster (1:4) of required thickness with admixture of waterproofing compound as per manufacturers' specifications. Thereafter curing shall be done for two weeks.

8.1.3.2 Vertical Surface/Side Wall

- a) One coat cement slurry with admixture of water proofing compound conforming to IS 2645 of required quantity to be applied on the prepared surface upto required height or as shown in drawing.
- b) One layer of cement plaster (1:4) with admixture of water proofing compound as per manufacturer's specifications. Curing shall be done for two weeks.

8.1.3.3 Junction of Horizontal and Vertical Surface

- a) A vatta (Gola) of specified design as shown in drawing shall be made with brick bats & cement mortar (1:4) with admixture of water proofing compound as per manufacturers' specifications.
- b) One layer of cement plaster (1:4) with admixture of water proofing compound as per manufacturers' specification. Curing shall be done for two weeks.

Note :

- i) The proportion of waterproofing compound to be used in respect of Ordinary Portland Cement shall be minimum one percent by weight of cement.
- ii) The above specifications are for general guidance any additional treatment is required to provide 10 (ten) years guarantee shall be provided at no extra cost.
- iii) Work shall be executed through specialised firm viz. M/s. Overseas Waterproofing Corporation, M/s. India Waterproofing Co, Bombay.
- iv) Treatment to vertical surface for the sunken floor shall be provided on completion of plumbing work.

8.1.4 Rates to Include

- a) All labour, materials, equipment and different methods of operation necessary to complete the work including preparation of surface.
- b) All necessary measure/additional treatment if required for 10 years guarantee as per specifications of the specialised firm.

8.1.5 Mode of Measurement

The measurement shall be in square metre for actual area treated.

8.1.6 Guarantee

10 (Ten) years guarantee shall be provided on non-judicial stamp paper of Rs.100.00 only at the approved proforma enclosed with the tender, duly signed by the Main Contractor and the specialised firm who have executed the work.

In the unlikely event of treatment becoming necessary subsequently during the guarantee period, required inspection and treatment shall be carried out free of cost by the contractor.

9.2 WATER PROOFING TREATMENT TO SUNKEN FLOOR, COVERED TERRAC ETC WITH POLYURETHANE COATINGS**Water Proofing Treatment to Roofs with Polyurethane Coatings****9.2.1. Material**

Clean the surface, wet the RCC surface. Apply one coat of polyurethane coating over the RCC surface by means of brush over the wet surface. This is followed by applications of two coats of polyurethane coatings over the epoxy coating by means of brush at an interval of 12 hours each. Cure the above coatings for 72 hours (self curing). The rates quoted with necessary tools and tackles with materials and labour.

9.2.2 Preparation of Surface

level shall be thoroughly cleaned with wire brushes. All loose scales shall be removed and chipped off to receive cement concreting screeding.

9.2.3 Rates to Include

- a) All labour, materials, equipment and different methods of operation necessary to complete the work including preparation of surface.
- b) All necessary side and end laps as per manufacturer's specification.

9.2.4 Mode of Measurement

The measurement shall be in square metre for actual exposed area covered by the paint.

9.2.5 Guarantee

10 (Ten) years guarantee shall be provided on non-judicial stamp paper of Rs. 100.00 only at the approved proforma enclosed with the tender, duly signed by the Main Contractor and the specialized firm who execute the work.

In the unlikely event of treatment becoming necessary subsequently during the guarantee period, required inspection and treatment shall be carried out free of cost by the contractor.

10.0 ALUMINIUM DOOR, WINDOW ETC.

- 10.1** All aluminium doors, windows, jallies, curtain wall, structural glazing etc shall be procured from A class manufacturer subject to the approval of Bank/Consultants. Aluminium

sections for fabricating framework of doors, windows, jallies, etc. shall be of extruded sections as manufactured by Zindal or approved equivalent make conforming to IS Code of latest edition.

Extruded section shall have a wall thickness as specified in the Schedule of Quantities or detail drawings. All sections shall be approved by the Bank/Consultants before fabrication is taken up, Doors, frames and mullions, transoms shall be anodised to required thickness in a bath of sulphuric acid to provide a uniform casting. A protective transparent coating shall be applied to the Sections before shipment from the Factory. All works for doors, windows, and frames etc. shall be fitted and shop assembled to a first class job, and ready for erection. Shop joints shall be made to hair lines and than welded or braced. Work on the above, other than described shall be carefully fitted and assembled with neat joints with concealed fasteners. Wherever possible, joint shall be made in concealed location and on edges of doors field connections of all work may be made with concealed screws or other approved type of fasteners. All fasteners connecting between aluminium members or between aluminium and concrete shall be either high strength aluminium or of stainless steel. Glazing beads shall be shop fit type without visible screw and shall be of sizes to accommodate various thickness of glazing as specified in the Schedule of Quantities. All works shall be adequately braced and reinforced as necessary for strength and rigidity. The members of the frame work shall be of one piece and no joint shall be allowed unless the same has prior approval of Bank/Consultants. Fabrication drawings for the aluminium curtain wall, jallies etc shall be prepared by the contractors based on the design of the Consultants indicating the detailed of frame work, fixing arrangement and other necessary details well in advance of the actual fabrication work and casting of structural element supporting the jallies, curtain wall etc and to be approved by the Bank/Consultants. A sample of the jalli, curtain wall etc unit fabricated as per approved drawing shall be produced for approval of Bank/ Consultants before commencement of bulk fabrication of jalli units curtain wall etc at shop.

10.2 HANDLING & STORAGE OF FABRICATING MATERIALS

All aluminium doors, windows, curtain wall, jallies etc shall be packed and crated properly before despatch, to ensure that there will be no damage to the fabricated materials. Loading in to 'Wagons/ Truck' shall be done with all care to ensure safe arrival of materials at site in undamaged condition.

All the fabricated materials at site shall be stored under cover in such a way to prevent damage or distortion. Special care shall be taken to prevent staining of aluminium products by mortar etc. after erection at site.

10.3 ACCEPTANCE CRITERIA :

10.3.1 For Fabricated Items :

- a) Overall dimensions shall be within + 1.5 mm of the size shown on drawings.
- b) Mullions, transoms etc. shall be in one length and permissible deviations from straightness shall be limited to + 1.5 mm from the axis of the member.
- c) Door and window shutters shall operate without jamming. The clearance at head and jamb for door shutters shall not exceed 1.5 mm. For double leaf doors, the gap at the meeting

stiles shall not be more than 1.5 mm.

- d) Door leaves shall be undercut where shown on drawings.
- e) Doors, windows, frames and curtain wall frame work etc. shall be on a true plane, free from warp or buckle.
- f) All welds shall be dressed flush on exposed and contact surfaces.
- g) Correctness of location and smoothness of operations of all shop installed hardware and fixtures.
- h) Provision for hardware and fixtures like floor spring etc as directed to be installed at site.
- i) Glazing beads shall be cut with mitred corners.,
- j) Glazing clips, fixing devices etc. shall be supplied in adequate numbers.
- k) Shop coats shall be properly applied.
- l) Exposed aluminium surfaces shall be free from scratches, stains and discolouration. Anodised surfaces shall be present a uniform and pleasing look.
- m) Anodising thickness shall be minimum 15 micron.

10.3.2 For Installed Items :

- a) Installations shall be at correct location, elevation and in general, on a true vertical plane.
- b) Fixing details shall be strictly as shown on drawings.
- c) Assembly of composite units shall be strictly as per drawings with mastic caulking at transoms and mullions, gaskets, weather strips etc. complete.
- d) All openable sections shall operate smoothly without jamming.
- e) All frames on external walls shall be mastic caulked to prevent leakage through joint between frames and masonry.
- f) Locks, fasteners, floor spring etc. shall be fitted in position properly. Keys shall be non-interchangeable.
- g) Cutting to concrete or masonry shall be made good and all abrasions to shop paint shall be touched up with paint of same quality as shop paint.

10.4 METHOD OF MEASUREMENT

- a) Supply and installation of doors shall be measured in number of each type used or in sqm as specified in the Schedule of Quantities. The types shall be as shown on drawings and described in Schedule of Items.

- b) Supply of windows shall be measured in square metres correct to two places of decimal. The width and height shall be measured overall from out to out of the frame. The height and width shall be measured correct to 0.5 cm. The Jalli & curtain wall shall be measured in sqm. The height and width shall be measured correct to 0.5 cm.

11.0 IRON MONGERY

11.1 RAIN WATER PIPES AND SPOUTS :

The rain water pipes where shown on the drawings shall be cast iron pipes (heavy)/Cast Iron spun pipes (LA Class), of the diameter as specified in the schedule of quantities, of approved manufacturer with socketed ends jointed as follows :-

- a) For heavy cast iron pipes with spun yarn upto half the socket depth and the balance packed with cement mortar (1:2).

Where required these are to be run in the chase left or cut in walls, columns slabs. For exposed lengths of pipes those are to be neatly secured clear from the finished wall face with clip or bracket, nailed or screwed to hard wood tapering plugs embedded in walls.

All cast iron rain water pipes must have shop coat of anticorrosive paint. The exposed cast iron pipes shall be painted to outside with two coats of synthetic enamel paint of approved shade, colour and manufacture over a coat of yellow zinc chromate primer.

The mouth of the rainwater pipe shall be fixed with C.I. grating and the pipe jammed in position in 1:2:4 cement concrete with stone chips and neat finish on the surface.

The rate for the work shall include supplying and fixing of materials, cutting, making chases, mending, 2 coats of painting over a coat of yellow zinc chromate primer, jointing, etc and is for the complete work in all respects. Unless otherwise specified in the schedule of quantities, the rate shall also include supplying, fixing and jointing etc all the specials required for the complete work.

Rain water spouts shall be G.I. pipes (medium) cut to exact lengths as per drawing or direction of the Bank/Consultants and fixed in position in 1:2:4 cement concrete the adjoining surface being finished in neat cement. The exposed faces shall be painted with 2 coats of painting over a coat of yellow zinc chromate primer.

11.2 CAST IRON SPUN RAIN WATER PIPES (A CLASS)

11.2.1 Pipes

The rain water pipes where shown on the drawings shall be cast iron spun pipes (A Class), of the diameter as specified in the Schedule of Quantities, of approved manufacturer with socket and spigot ends and shall conform to I.S. 1536 of latest edition in all respects. The pipes and specials shall be suitable for jointing with lead unless otherwise specified and only one standard specials shall be used.

11.2.2 Joints

Jointing of the pipes and specials shall be lead caulked joint. The spigot shall be carefully centered in the socket by two or three laps of treated spun yarn (soaked into hot tar or bitumen and dried) twisted into ropes of uniform thickness, well caulked into the back of the socket, leaving the requisite depth for the lead. Lead shall be rendered thoroughly fluid and each joint shall be filled in by pouring.

Unless otherwise stated the quantity of lead and spun yarn for each joint in cast iron pipes & fittings shall be as under :-

Diameter of pipe in mm	Weight of lead in kg per joint	Weight of spun yarn in kg per joint
150 mm	3.4	0.2
200 mm	5.0	0.30
300 mm	7.2	0.48

The above quantity of lead and spun yarn given above are provisional and a variation as permissible as per I.S. 3114 of latest edition.

11.2.3 Testing of Joints

All joints shall be made leak proof. Test shall be carried out by filling the system with water by plugging the outlets suitably. Any defects visible shall be cut and made good as per direction.

11.2.4 Laying/Fixing of Pipes

Vertical stack of the pipe line including specials shall be secured by fixed to wall by providing special type of clamps made for the purpose with 40 x 6 mm m.s. flat as per drawing and the clamps shall be fixed to wall by cement concrete (1:2:4), including cutting wall and mending good to damages to match with the adjacent surface.

11.2.4 Painting

All the exposed pipe lines shall be painted with two coats of synthetic enamel paint of approved shade and quality over a coat of yellow zinc chromate primer. Inside face of pipes & fittings shall be painted with two coats of anticorrosive paint having tar or other suitable base.

11.2.5 Rates to Include

Apart from other factors mentioned elsewhere in this contract, the contractors' quoted rate shall include for the following :

- a) All cutting to length, labour, hoisting and fixing in position.
- b) Cost of all materials including wastage, cast iron gratings, clamps, cast iron grating,

jointing materials.

- c) Cutting wall, mending good to damages and jamming materials.
- d) Tools & Plants, equipment.
- e) Scaffolding and work at all levels.
- f) Testing of joints
- g) Painting as specified.

11.3 M.S. GRILLS, RAILING & GATES :

M.S. grills, railings and gates shall be fabricated and fixed in position strictly as per design and drawings. All intersections or meetings of all members shall be welded and the workmanship shall be high grade quality to the entire satisfaction of the Bank/Consultants. After fixing in position, these shall be cleaned off dust, dirt, rust or scales and rubbed with emery and an anticorrosive priming coat with yellow zinc chromate shall be applied.

The rate for M.S. grills to window shall also include the cost of wood screws to be used for fixing, for M.S. railing the cost of 1:2:4 cement concrete for jamming the hold fasts of the railing. The rate is for the complete work in all respects.

12.0 COLLAPSIBLE GATE

The components of the collapsible steel shutters shall be of mild steel. Shutters shall be manufactured as per the following specifications.

Top and bottom guide rails shall be 40 x 40 x 12 mm Tee, vertical channels of size 20 mm x 10 mm x 2 mm (@ 3.50 kg/m) at 100 mm apart in fully stretched position and 20 mm x 5 mm M.S flat as collapsible bracings properly rivetted & washered including 38 mm steel rollers including locking arrangements.

Collapsible gate will be of approved manufacturer. The rate should include the cost of rails, runners, channels including locking and hanging arrangements. It will be fitted and fixed in position with lugs set in cement concrete and including cutting necessary holes, chasing etc. in wall floors etc. and making good damages including one coat of yellow zinc chromate primer complete. The rate shall be inclusive of all these operations unless otherwise mentioned in the schedule of quantities.

13.0 ROLLING SHUTTERS :

GENERAL

Rolling shutters shall be supplied in the following alternative types or as specified in Schedule of Quantities. The shutters shall be complete with accessories. The fixing arrangement shall be as per the drawing with regard to whether it shall be fixed on the inside or outside between jumbs of opening, on or below the lintel, etc.

- a) Self coiling type (Push and Pull type or Manually operated type It shall be used upto a maximum of about 8 sqm. clear area without ball bearings and upto area of about 12 sqm with ball bearings.
- b) Gear operated type (Mechanical type : It shall be fitted with ball bearings. It shall be used upto a maximum of about 25 sqm clear area, if the rolling shutter is operated by a bevel gear box and crank handle and upto a maximum of about 35 sqm. clear area, if the rolling shutter is operated by chain wheel and hand chain mounted directly on the work sheft.

Shutter shall be constructed with interlocking lath sections formed from cold rolled steel strips not less than 0.9 mm thick and 80 mm wide for shutters upto 3.5 m width and not less than 1.25 mm thick and 80 mm wide for shutters 3.5 m in width and above unless otherwise specified.

The guide channels shall be of mild steel deep channel section and of rolled pressed or built up (fabricated) joint less construction. The thickness of sheet used shall not be less than 3.15 mm.

Hood covers shall be made of mild steel sheets not less than 0.90 mm thick. For shutters having width 3.5 m and above, the thickness of m.s. sheet for the hood cover shall be not less than 1.25 mm.

14.0 STANDARD SPECIFICATIONS

Unless otherwise specified elsewhere in this contract, all work under this contract shall be carried out in accordance with the technical specification and the latest issue of the Indian Standard Specification applicable to the particular class of work. If Indian Standards are not formulated for any particular material of work, the relevant British Standard Specification shall apply. Relevant issue of I.S. specifications applicable to the particular work have been described along with the specification for the respective works. In case of any confusion or dispute regarding the meaning and interpretation of any specification for the respective works, the decision of the Bank/Consultants shall be final and binding on the contractor.

TECHNICAL SPECIFICATION FOR SANITARY AND PLUMBING WORKS

The following specifications are to be read in conjunction with the details given in the Schedule of Quantities

1.0 STANDARD SPECIFICATIONS

All works under this contract shall carry out in accordance with the technical specifications & the latest issue of the Indian Standard Specifications applicable to the particular class of work. If Indian Standards are not formulated for any particular material or method of execution of work, the relevant British Standards shall apply. Relevant issues of I.S. Specifications applicable to the particular work have been described along with the specification for the respective works. In case of any confusion or dispute regarding the meaning & interpretation of any specification for the respective works, the decision of the Bank/Consultants shall be final and binding on the contractor.

2.0 GENERAL SPECIFICATIONS FOR WATER SUPPLY, SANITARY INSTALLATIONS, SEWERAGE & DRAINAGE

WORKS

- a) Execution through reputed Sanitary Contractors Firm

All water supply, sanitary installations, sewerage & drainage works shall be executed through reputed sanitary contractors. Particulars of the firm viz. Name & address of the firm, registration & licence number etc (issued by the authorities) shall be furnished along with the tender.

- b) Complying with by-laws etc of local Authorities

All water supply, sanitary installations, sewerage & drainage works shall be carried out by skilled and licensed plumbers/technicians in a workman like manner complying in all respects with the relevant by-laws of the Municipal or of the local Authorities under whose jurisdiction the work has to be executed.

- c) Contractor's responsibility for sanction from local authorities

For the works undertaken by him & works dependent on his work, the contractor shall prepare plans/drawings as required, including H D Plan and get it sanctioned from the Municipal or other Government authorities as may be required by rules & regulations and law concerned. The contractor shall include the cost for the same in his tender rates unless otherwise specified in the Tender Items.

- d) Contractor's responsibility to ensure continuance of existing services

During execution of the new works, the contractor shall ensure that the existing services (viz. water supply, sewer, drain accidentally the services shall be restored immediately at contractor's cost.

However, when in the opinion of the Consultants/Bank, it is imperative to locally divert/disconnect for a short time/reconnect the existing lines, it shall be done by the contractor as directed the Consultants/Bank. Payment for the necessary pipe lines would be made as per tender items, however all other costs including temporary measures shall be borne by the contractor.

3.0 **Documents to be enclosed along with the final bill**

3.1 **Completion Drawings**

On completion of all works under this contract, the contractor shall prepare & submit (at his own cost), 3 sets (1 Blue print or drawing on tracing cloth, & 2 Ammonia prints of each drawing) of completion drawings, showing the entire system of water supply, sanitary installations, drainage & sewerage disposal incorporating up to date changes (if any) at site in all the works mentioned above & permanent structures, roads, pathways, boundary lines etc.

The following drawings (in scales as instructed by the Consultants) shall be prepared and submitted to the Consultants along with the contractor's final bill :

- a) Site Layout (Water Supply lines)
- b) Site Layout (Sewerage & Drainage & Lines)
- c) Floor Plans (Water supply, sanitary installations, sewerage & drainage lines)
- d) Toilet & kitchen details & Schematic line diagrams of pipelines.
- e) Any other drawings as required and instructed to be done by the Consultants.

3.2 **List of materials/installations handed over**

On completion of works in all respects and satisfactory testing, the contractor shall prepare & submit a list, along with the final bill, of all materials/installations handed over to the authorized representative of the Bank.

3.3 **Transfer of manufacturer's guarantee**

When manufacturer's guarantee period for any material/installation expires at a later date than the expiry date of the defect liability period of the contractor, the contractor shall transfer the guarantee in the name of the Bank. This transfer should be made at the time of submitting the contractor's bill for release of retention money.

4.0 **CEMENT**

The cement must be kept in a dry place under cover. Samples of cement may be taken by the Consultants/Bank from time to time for testing at any approved laboratory whose reports shall be accepted by both parties.

5.0 **SAND**

Sand is to be clean, coarse and sharp and is to be washed, if so directed.

6.0 **AGGREGATE**

The aggregate for the reinforced cement concrete work shall be stone chips or broken gravel of approved quality which will pass through 12 mm mesh but will be retained on 6 mm mesh. The aggregates for the base/foundation etc of drain pipes, manhole chambers etc. shall be of stone chips of 20 mm & down size.

7.0 **CONCRETE**

For reinforced cement concrete work the cement, sand and aggregate shall be in the proportion of 1:2:4. For foundation work, the mix will be in the proportion of (1:3:6) or (1:4:8) as stated in schedule of quantities. Wherever reinforced cement concrete (RCC) is mentioned in schedule of quantities, it shall mean inclusive of cost of required steel reinforcement bars, providing & removing shuttering etc. all complete.

BRICKS

8.0

Bricks shall be of the best quality well burnt sound, hard and giving clear ringing tone of sound when struck against each other and well shaped bricks having crushing strength 50 kg/sq. cm unless stated otherwise in the respective schedule of items, of standard dimensions and to be soaked for atleast six hours in water before use.

9.0

BRICK WORK

The brick work shall be in English bond, and shall be laid in cement sand mortar in the proportion stated in schedule of quantities, if not mentioned otherwise. Where corbelling is necessary, projection in each course shall not exceed (2 1/4") 57 mm. All brick work must be kept wet till the mortar has fully set.

10.0

SOLING

For soling, the bricks shall be having crushing strength 50 kg/sq. cm, bricks laid flat, the joints being well packed with loose sand.

11.0

a) **Excavation, General**

Excavation shall form part of the item under the schedule and shall not be paid for separately unless otherwise specified in the schedule of quantities. It shall include excavation in all kinds of soil including shoring and bailing out water where necessary and refilling the excavated materials trenches, in 15 cms layers properly rammed and watered and neatly dressed at top. If the excavation is done to dimensions greater than those shown on the drawings or as directed by the Consultants/Bank, the excess depth shall be made good at the cost of the contractor. The excavation work shall be done in a manner that does not in any way endanger the stability of the adjacent buildings or other structures or services. Where any road, pavement or crossing are cut these shall be restored to their original conditions at no extra cost. Moreover, after completion of the work, the contractor shall have to dress the site including disposal of the surplus earth at their own cost as directed by the Consultants/Bank.

b) **Trenches General**

The width of the bed of trenches shall be the exact width as shown on the drawings or as specified.

In the firm soil, the sides of trenches shall be kept vertical upto a depth of 1.82 metre; and for a greater depth, the trench shall be widened by allowing steps of 46 cm (1'-6") on either side after every 1.82 M depth from the bottom so as to give side slopes of (1/4" to 1") 6 mm to 25 mm. Where the soil is soft, loose or slushy the width of steps shall be suitably increased as directed by the Consultants/Bank. It shall be the responsibility of the contractor to take complete instructions in writing from Consultants/Bank regarding the stepping, sloping or shoring to be done for excavation in trenches deeper than 1.82 M for firm soil or any depth for soft, loose or slushy soil.

The bed of the trenches shall be made level and firm by watering and ramming. Any soft or defective spots that are found shall be filled with concrete of the same proportion as

specified or as may be directed by the Consultants/Bank.

12.0 **SANITARY INSTALLATION**

a) **Indian Type W.C Pan**

The W.C. pan shall be of white vitreous china of specified size and pattern long pan with a pair of separate footrests or Orissa pattern with integrated footrests etc wash down type unless otherwise specified. It shall be of back flush inlet type. The pan shall be of 1st quality materials of approved brand and shall bear the mark of the manufacturer as well as shall have ISI mark. The pan shall be provided with a 100 mm HCl 'P' or 'S' trap as specified with minimum 50 mm seal.

b) **Fixing**

The WC Pan shall be sunk or raised from the general floor as specified, but its surrounding floor shall be sloped towards the pan. Care shall be taken so that the pan is not damaged in the process of fixing; if damaged in any way, it shall be replaced immediately. It shall be fixed in a proper cement concrete base of 1:3:6 proportion (with a wire netting where required) taking care that the cushion is uniform and even without having any hollows between the concrete base and pan.

The joint between the pan and the trap shall be made with cement mortar 1:1 with jute hessian gasket soaked in coal tar and shall be leak proof.

13.0 **EUROPEAN TYPE W C AND BIDET**

a) **European type W C Pan**

Shall be of 1st quality material of approved brand, readily flushed, of wash down type & shall bear ISI mark. The closet shall be of vitreous china ware having integrated trap 'P' or 'S' type with or without vent hole right or left as per drawing or as directed.

b) **Seat**

The Seat with lid shall be of solid (white, black or of other colour as specified in schedule of quantities) plastic of approved make with ISI mark, with rubber buffers and shall be fixed in position by using chromium plated (C.P.) brass hinges and screws.

14.0 **URINAL**

a) **Lipped Front Urinal**

The urinal shall be of flat back lipped front basin of required dimensions of White vitreous chinaware of 1st quality of an approved make as specified. It shall be fixed in position by using rawl plugs embedded in the wall with screws of proper size or fixed as per the approved manufacturer's specifications. Each urinal shall be connected to a 32 mm N.B. PVC waste pipe with clamps, which shall discharge into a channel or floor trap, or C.P. bottle trap shall be provided instead of PVC waste etc, if specified in schedule of quantities.

b) **Flushing system for Urinals**

As specified in item no. 15(g) of this T S.

c) **Painting**

The inside of the invisible portions of the fittings and brackets connected with urinal basin shall be painted with approved bituminous paint and outside of the brackets, etc shall be painted with a priming coat of red oxide and finished with two or more coats of enamel painting to give an even shade to match the colour of surrounding walls. The cost of such painting shall be included in the rate quoted for the concerned tender items.

15.0 FLUSHING SYSTEM

a) **With CP Flush Valve**

Unless otherwise specified, flushing of European pattern water closet and Orissa type with integrated footrests, shall be done by CP flush valve with controlling cock & operating lever suitable for fitting on surface of wall or within wall as specified in schedule of quantities. Concealed portion of flush pipe & fittings shall be GI and exposed portion of flush pipe with fittings shall be of brass CP.

- b) Only where specifically instructed for EPWCs and Orissa type IPWCs, low level type flushing cistern to be provided and shall be of white vitreous china ware of approved make. 10 litres capacity with internal fittings, brackets and CP 40 mm flush pipe & bend with rubber packing, brass CP handle etc. The low level type flushing cistern shall be connected with the WC pan by means of 40 mm dia CP flush bend with rubber packing. The inlet pipe to cistern shall be connected with brass CP heavy connector of required length with both ends CP nuts & washers.

c) **Flushing cistern for Orissa pattern WC with a pair of integrated foot rests**

Unless otherwise specified, pull and letgo type CI flushing cistern high level type of approved make of best quality cast iron, mosquito proof of 10 litres capacity shall be provided together with cover, lever, shell, overflow, GI fancy chain and pulley of specified quality, brass ball valve with polythene float and necessary unions etc for connection with inlet, outlet and overflow pipes. The flushing of the WC pan shall be done through suitable GI (medium quality) flush pipe coupling etc complete.

Brackets

The cistern shall be fixed on cast iron or rolled steel brackets, painted to match surrounding walls which shall be firmly embedded in the wall or fixed by using lugs and screws, phill plug, rawl plug to the satisfaction of the Consultants.

d) **Overflow**

The cisterns shall be provided with 15 mm polythene overflow pipe with fittings which shall terminate into mosquito proof coupling of the approved municipal design with 0.05 mm dia perforations.

e) **Flush Pipe**

The outlet or flush pipe from the high level cistern shall be of 32 mm dia GI medium quality pipe. The flush pipe shall be 2.1 Mtrs high approx, which shall be connected to the WC pan

by means of an approved type of joint. The flush pipe shall be fixed to wall by using holder bat clamps or embedded as required. The bends and offsets of GI flush pipes shall be made cold.

f) Painting

Inside of CI cistern and fittings shall be painted with approved bitumastic paint and outside of the CI cistern, brackets, overflow and flush pipe etc shall be painted with a primary coat of red oxide and finishing two or more coats of white zinc or any other colour and shade to match with the painting of the surrounding walls. The cost of such painting shall be included in the rate quoted for CI cistern, brackets, overflow and flush pipe etc shall be painted with a primary coat of red oxide and finishing two or more coats of white zinc or any other colour and shade to match with the painting of the surrounding walls. The cost of such painting shall be included in the rate quoted for the flushing cistern.

g) Flushing for Urinals

The flushing of urinals shall be done by individual CP control cock with CP connector and CP spreader or by auto cistern of specified capacity with internal fittings, required size CP flush pipes and fittings etc complete as stated in the schedule of items.

16.0 **WASH HAND BASIN**

a) **Wash Hand Basin**

The basins of approved pattern & shall be of white vitreous china of 1st quality of approved brand with ISI mark. The size of the basin shall be as specified. The basins shall be of approved quality and make.

b) Fittings

Each wash hand basin shall be provided with pillar tap as specified, having a centered tap hole with brass C P pillar cock heavy type. The basin must also be provided with 32 mm dia C.P. basin waste, heavy PVC waste pipe of required length with both end CP brass couplings connected to concealed GI waste pipe or CP bottle trap connected to concealed galvanised waste pipe, as stated in the respective schedule of items.

c) **Fixing**

Basins shall be supported on a pair of CI concealed type brackets embedded in wall or fixed in position by means of wooden cleats and screws as required.

d) The GI waste pipes shall discharge into the floor trap inlet or one way or two way extension pieces as per drawings/directions.

17.0 **SINKS**

a) **Sinks**

The sink with or without drain board shall be of best quality stainless steel, of approved make,

quality & brand. The size of the sink shall be as specified.

b) Fittings

Each sink shall be provided with CP brass bib cock, CP brass waste or integrated stainless steel waste, etc. The fittings shall be of approved quality.

c) Fixing

The sink shall be supported on M S fabricated and galvanised or C I cantilever bracket to match with sink profile, embedded or fixed into position by means of wooden cleats and screws or embedded in wall with concrete as per site condition. The brackets shall be painted with approved shade and colour to match with the surrounding finish.

d) The G I waste pipe shall discharge into floor trap inlet or one way or two way extension pieces as per drawings/directions.

18.0 TOILET REQUISITES

a) Mirrors

The piece glass mirrors shall be of approved make glass as specified. The size and shape of the mirror shall be as specified. It shall be mounted on the asbestos sheet and shall be fixed in position by means of C.P brass dome shaped screws over rubber washers and rawl plug firmly embedded in wall.

b) Water Connection

Water connection to flushing cistern, wash hand basins shall be by means of white PVC connector or CP connector with angular stop cock as specified in the respective schedule of items.

c) Shelf

Unless otherwise specified the shelf shall be of glass or porcelain of approved quality & design. The size of the shelf shall be as specified. The brackets (for glass shelf) or porcelain shelf shall be fixed to the wall with CP brass screws to wooden plug firmly embedded in the wall.

d) Urinal Partition

Unless otherwise specified, partition for urinal shall be shaped out of 900 mm x 600 mm white marble slab of finished thickness of 20 to 22 mm. Fixing shall be done by inserting a portion (approx 75 mm) inside wall & grouting the same in cement concrete 1:3:6. All the exposed surfaces & edges shall be properly ground to shape and polished. Joint with wall to be finished with white cement.

e) Channels

Where channels are to be provided, these must be half-rounded (4") 100 mm dia as specified in the schedule of quantities, open end or block end type floor channel, with discharge outlet where required, all made of porcelain white glazed inside and top edges shall be

fixed on raised platform as per drawings and instructions.

f) **Towel Rail**

The towel rail with bracket (of brass CP or anodised aluminium as stated in Schedule of items) shall be of approved shape and design. The size of the rail shall be as specified. The brackets shall be fixed by means of CP brass screws or Rawl Plug firmly embedded in wall.

g) **Paper Holder**

The paper holder shall be of white vitreous chinaware of recessed type & the rate shall include wooden spindle, chase cutting of walls, setting in cement sand mortar & making good the all round joint with white cement.

19.0

HCI SOIL, WASTE AND VENT (ANTISYPHONAGE) PIPES AND FITTINGS

a) **HCI Pipes and fittings**

The heavy cast iron pipe and fittings should be centrifugally cast/sand cast with ISI marked conforming to IS 3989 & IS 1729 of latest editions of approved make and quality. The pipes shall be free from cracks and other flaws. The interior of pipes and fittings shall be clean and smooth and painted inside with approved anticorrosive paint.

Nominal Mass

The nominal mass of socket and spigot of pipes and thickness conforming to IS 1729 are given below.

Nominal Dia of Pipe	Minimum MM	Nominal Net Weight Exclusive of Ears for	
		1.5 M Long Pipe Kg	1.8 M Long Pipe Kg
50	5	9.56	11.41
75	5	13.83	16.52
100	5	18.14	21.67
150	5	26.70	31.92

The nominal mass of socket and spigot of pipes and thickness conforming to IS 3989 are given below.

Nominal Diameter (DN)	Thickness	Approx. Mass including Mass of Socket					
		3.00 M (kg)	2.50 M (kg)	2.00 M (kg)	1.80 M (kg)	1.50 M (kg)	1.00 M (kg)
75	3.50	20.00	16.80	13.80	12.50	10.60	7.40
100	4.00	30.00	25.50	21.00	18.80	16.00	11.20
150	5.00	56.00	47.00	38.50	34.90	29.50	21.00
200	6.00	90.00	70.90	56.70	51.00	42.50	33.00

b) **Fixing**

The pipes and fittings shall be fixed to walls by using proper clamps. The pipes shall be fixed perfectly vertical or in a line as directed. All soil pipes shall be carried up above the roof and shall have HCI vent cowl. Where pipes are laid along walls, the cast iron pipes are to be fixed 25mm away from the wall surface. Cast iron bobbins with nails & clamps etc are to be used for this purpose. Cost of these items shall be included in the item for pipes and specials.

Fabricated M.S clamps/hangers may be used only on specific instructions of Consultants/Banks, where diversions or free suspended horizontal stretches of pipelines are to be provided. Payment for such fabricated MS clamps/hangers shall be made separately as per schedule of items. The access door fittings shall be of proper design so as not to form any cavities in which filth may accumulate. Doors shall be provided with **brass bolts** and rubber insertions.

Connections between main pipe and the branch pipes shall be made by using trenches and bends invariably with access doors for cleaning.

c) **Jointing**

The annular space between the sockets and spigots will be first well packed in with spun yarn leaving a depth of half the depth of the sockets as measured from the lip of the socket for lead.

The joint may be leaded by using proper leading rings or by wrapping a ring of lamp rope covered with clay round the pipe at the end of the socket leaving a hole through, which lead shall be poured in. For pipes with sockets facing upwards 15 mm high clay round the socket edge may be used as guide for leading.

The spigot shall be carefully centered in the socket by two or three laps of treated (soaked in hot coal tar & dried) spun yarn, twisted into ropes of uniform thickness, well caulked, into the back of the socket, leaving the requisite depth of the lead. The

lumps of the yarn must be longer than the circumference of the pipe. No making up of the pieces of pipe at the end of the socket leaving a hole through which lead shall be poured in. For pipes with sockets facing upwards 15 mm high clay round the socket edge may be used as guide for leading.

The spigot shall be carefully centered in the socket by two or three laps of treated (soaked in hot coal tar and dried) spun yarn, twisted into ropes of uniform thickness, well caulked, into the back of the socket, leaving the requisite depth of the lead. The lumps of the yarn must be longer than the circumference of the pipe. No making up of the pieces of yarns shall be allowed.

The lead shall be rendered thoroughly fluid and each joint shall be filled in one pouring.

d) **Lead for Joints**

It shall be bluish grey in colour very soft and malleable, readily melted, free from mixture of zinc or tin conforming to IS 782 of latest edition.

e) **Spun Yarn for Joints**

This shall be of best quality preferably white. It shall be free from dust etc. It shall be soaked into hot coal tar or bitumen and dried before use.

f) **Route Markers**

Shall have to be provided, if directly (without extra cost), for underground portion of pipeline (pl. ref. item no. 33).

g) **Caulking**

After the joints have been run they must be thoroughly caulked until they are perfectly water tight. Caulking of joints will be done after convenient length of pipe has been laid and leaded. The leading ring shall first be removed with a flat chisel but leaving enough so that the joint can be finished 3 mm beyond the socket face and then the joint caulked round three times with caulking tools of increasing thickness and hammer of 4 to 6 lbs weights. Lead joints shall not be covered till the pipe line has been tested under pressure but the rest of the pipe line may be covered up to prevent expansion and contraction due to variation in temperature, and any lead outside the socket shall be removed.

- h) When it is inconvenient or dangerous to use molten lead for joints, they may be made with lead wool inserted in the sockets not less than 6 mm thick and thoroughly caulked. When working with lead wool, it is very important to use caulking tools of appropriate thickness to fill the joint space and to thoroughly consolidate the materials from the back to the front of the socket.

i) **Testing**

In addition to testing of horizontal stretches of pipe lines by filling water, all HCl pipes and fittings including joints will be tested by smoke test and left in working order after

completion. The smoke test shall be carried out as stated under.

Smoke shall be pumped into the drainage at the lowest end from smoke machine, which consists of blower and burner. The materials usually burnt are greasy cotton waste, which form clear pungent smoke, which is usually detectable by sight as well as by smell if leaking occurs at any point of the drain. The contractor will have to rectify all defects traced in such tests at his own expense to the complete satisfaction of the Consultants/Bank. The traps and soil fittings should be of heavy cast iron and should have water seal at least (2") 50 mm deep.

j) **Anti-syphonage pipes**

HCI Antisyphonage pipes shall conform to I.S. 3989 & IS 1729 of latest editions with lead caulked joints. The main antisyphonage pipes shall be of 3" (75 mm dia) or (2") 50 mm dia internal as specified.

k) **Paintings**

All the exposed HCI pipes and fittings shall be painted with two coats of synthetic enamel paint of approved quality, manufacture, colour and shade to match with the surroundings. Unless stated otherwise all concealed pipes & fittings shall be painted with 3 coats of anticorrosive bitumastic paint. The cost of such painting shall be included in the contractor's rates.

- l) The surface of the pipes and fittings to be painted shall be cleaned thoroughly. Red oxide or other metal primer shall be painted and allowed to dry. The finishing shall be done by applied two (2) or more coats with paint of an approved colour to give an even shade.

20.0 WATER SUPPLY (FERRULES)

a) **Ferrule**

Unless otherwise stipulated by KMC's Water Supply Departments, it shall conform to IS 2692. The ferrule shall be connected with 450 mm long GI pipe of appropriate diameter & union socket, and the cost of these items shall be included in the quoted rate of the composite tender item with ferrule.

Nominal size of the ferrule shall be as approved by KMC's Water Supply Departments.

21.0 GALVANISED IRON PIPES & FITTINGS

- a) The pipes shall be of galvanised (as per I.S :4736 of latest edition steel), screwed and socketed and shall conform to I.S. 1239 (Part-I) of latest edition. The fittings shall be of malleable cast iron (galvanised) with ISI mark upto 100 mm nominal bore. For pipes above 100 mm N.B, welded steel fittings (galvanised) may be used. Unless otherwise specified thread shall be screws taper thread and sockets parallel thread and each tube shall be laid beveled sufficiently to prevent damage to the leading thread.

Nominal Bore	Weight in Pipe in kg/mtr (Screwed and Socketed)
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(mm)	Light	Medium	Heavy
15	0.96	1.23	1.46
20	1.42	1.59	1.91
25	2.03	2.46	2.99
32	2.61	3.17	3.87
40	3.29	3.65	4.47
50	4.18	5.17	6.24
65	5.92	6.63	8.02
80	6.98	8.64	10.30
100	10.20	12.40	14.70
125	-	16.70	18.30
150	-	19.80	21.80

Tolerance : Tolerance in nominal weight shall be as follows for all sizes of pipes.

1. Single Tube (light series) : + 10%
- 8%
2. Single tube (Medium & heavy series) : $\pm 10\%$
3. For quantities per load of 10 tonnes (minimum) light series : $\pm 5\%$
4. For quantities per load of 10 tonnes (minimum) Medium & Heavy : $\pm 7.5\%$

b) **Laying and Fixing**

Where pipes have to be cut or re-threaded, ends shall be carefully filed out so that no obstruction to bore is offered.

In jointing the pipes, the inside of the socket and the screws end of the pipes shall be rubbed over with white lead and few turns of hemp yarn wrapped round the screwed end of the pipe which shall then be screwed home to the socket with a pipe wrench. Care must be taken that all pipes and fittings are kept at all times free from dust and dirt during fixing. Any threads exposed after jointing shall be painted.

- c) All cutting holes, chases, trenches etc at any place necessary in connection with the work as per items of this tender and subsequent mending damages are to be included in the rates and

not paid extra unless other-wise specified.

Internal works

Internal GI pipes and fittings inside the duct walls shall be generally fixed on walls by means of standard pattern holder bat clamps keeping the pipe 20 mm clear of the wall every where or concealed where required as directed. If GI pipes and fittings of inside wall are to be concealed, it shall be by chasing floors and walls as directed. Where it is imperative to fix the pipe inside toilets, kitchen, pantries, in front of a house or any conspicuous position, where it looks unsightly, chasing to be adopted. The holder bat clamps shall be fixed at a distance not exceeding 3.00 metre apart for

vertical pipes & 1.50 metres for horizontal pipes, which are to be secured to walls by hooks. The valves shall be fitted with a union. In long length run of a pipe at least in every 3.00 metres apart there shall be a long screw/union.

All pipes and fittings shall be fixed truly vertical and horizontal or as directed by the Consultants/Bank.

For pipes carrying hot water, the pipes shall be insulated. The thickness of the insulating materials shall be 12 mm in the case of glass in fibre form, compressed felt and felted slag or mineral wool and 20 mm in the case of asbestos. Cost of the same shall be included in the rate.

d) **External Work**

For external work GI pipes and fittings shall be laid in trenches. The width of the trench shall be of minimum width required for the work. The pipes laid underground shall not be less than 60 cm from the ground level. They shall be surrounded on all sides by sand of approved quality. The work of excavation and refilling shall be done in accordance with the general specification for earth work.

e) **Painting**

All internal GI pipes and fittings shall be painted with 2 coats of oil paint of approved quality manufacture, colour and shade. The cost of such paintings shall be included in the contractor's rate. All pipes and fittings in external work shall be painted with 3 coats of anti-corrosive Bitumastic paint. Unless otherwise specified all concealed pipes and fittings shall be painted with 3 coats of Bitumastic anticorrosive paint.

f)

Testing

After installation (but before covering up where needed), all GI pipes and fittings shall be tested by hydraulic pressure machine to a pressure of 7 Kg per sq cm. All leaky joints must be made leak proof by tightening or re-doing at contractor's expense and the pipeline must be retested to the above pressure.

g) **Route markers**

Shall have to be provided (without extra cost) for underground pipelines (Pl. ref item 33).

22.0 BRASS OR CP ON BRASS WATER FITTINGS (AS SPECIFIED IN RESPECTIVE SCHEDULE OF ITEMS)

All fittings shall be of standard manufacture and shall in all respect comply with the Indian Standard Specifications. The brass fittings shall be fixed in pipeline in a workman like manner. Care must be taken to see that joints between fittings are made leak proof. The fittings and joints shall be tested to a pressure of 7 Kg per sq cm unless otherwise specified. The defective fittings and the joints shall be repaired, redone or replaced at the contractors expense.

22.1 Bib Cock

The bib cock shall be of horizontal inlet and free outlet of specified quality of screw down pattern of the size as specified. The closing device shall work by means of disc carrying a renewable non-metallic washer, which shuts against water pressure on a seating at right angles to the axis of threaded spindle, which operates it. The handle (head) shall be of approved design & shape. The cock shall open in anti-clockwise direction. The cock shall be polished bright (for brass) and chrome plated on brass (for CP). Minimum weight shall be 0.40 kg for 15 mm size brass/CP bib cock.

22.2 Stop Cock

The stop cock shall be plain or angular type as per its place of installation and of specified quality opening anticlockwise and of screw down pattern of the size as specified. Other specifications shall be as per the specification of Bib cock above.

23.0 VALVES**23.1 Ball Valves**

Ball cock shall be of approved quality and manufactured in brass, with copper ball float or polythene ball float (as mentioned in schedule of quantities) and shall operate freely & efficiently in water.

23.2 Gun Metal Gate, Globe and Check Valve

These shall conform to IS 778 of latest edition and shall have ISI marking on it.

Manufacturer's test certificate specifying test pressure at their works shall be submitted.

23.3 Sluice Valve for Water Works

It shall conform to IS 780 of latest edition and shall bear ISI mark on it.

Manufacturer's test certificate specifying test pressure at their works shall be submitted.

24.0 STONEWARE PIPE DRAIN**a) Salt Glazed stoneware pipes & fittings**

This shall conform to Indian Standard Specification No. 651 of latest edition and shall be of the size & type as indicated in the schedule. SW pipes and fittings shall be of Grade 'A' or 'AA' as specified in the schedule and manufacturer's test certificate and identification mark shall be submitted. The rate shall be inclusive of jointing materials and making holes/chases (if required) through masonry and concrete and making good the same, and shall be inclusive of

the cost of concrete bed with side haunch and earth works etc complete.

The earthwork and concreting etc shall be done as per directions and drawings of Consultants/Bank.

Pipes shall be laid in straight lines and to even gradients as shown in the drawings or as instructed. Adequate care shall be exercised in setting out and determining the levels of the pipes and the contractor shall provide suitable instruments, templates and equipment necessary for the purpose. All pipes shall be kept free from earth, debris, superfluous mortar and other obstructions during laying and until the completion of the contract when the work shall be handed over in a clean condition.

b) **Buried Services**

All pipes, ducts, cables, mains as other services exposed by the excavations shall be effectively supported by timbering or other means. The contractor shall be responsible for any damage occurring to the buried existing services and make good the same at his own cost to the satisfaction of the Consultants/Bank.

c) **Laying and jointing stone ware pipes**

Stoneware spigot and socket pipes and fittings as specified shall be thoroughly bedded on the solid ground, throughout the length between joint holes laid to true invert, straight lines and falls, each pipe being separately bonded between sight rails. The spigot to each pipe shall be placed in the socket of the one previously laid. The pipes shall then be adjusted and fixed in its correct position but it shall not be jointed until the earth has been partly refilled over the portion of pipe between joint holes. A ring of rope yarn dipped in tar and liquid mortar or neat cement slurry shall next be inserted in the socket of the pipe previously laid and driven home with a wooden mallet. Such yarn, when in position, shall not occupy more than one fourth of the total depth of socket. The socket shall then be completely filled with stiff mixture of cement mortar (1:1) and a fillet of the same worked around the outside. The fillet shall be beveled off at an angle of forty five degrees to the barrel of the pipes. The cost of such jointing shall be included in the concerned schedule item of pipelines.

Special care shall be taken to see that any excess of cement etc. is neatly cleaned off while each joint is being made. Any earth, cement or other materials shall be thoroughly cleaned out of the pipe as the work proceeds. A properly fitting plug is to be well secured to the end of the last laid pipe, and shall only be removed when pipe laying is proceeding. The refilling of trenches shall not be done until the joints of the pipes are thoroughly set and have been inspected and approved and the finest of the excavated soil shall be used immediately under and around the pipes.

No pipes shall be laid until a distance of approx 9 metres along the trench has been prepared and bottomed to receive the pipes, unless otherwise required in special circumstances of which the Consultants shall be the final judge. No greater length of trench shall be opened at one time than the pipe laying can keep pace with, and the filling in of the trench shall be proceeded with to complete the water test.

The trench and joint holes and shall be kept free from water until the pipes are laid and the joints thoroughly set.

The contractor shall exercise every possible care to prevent the accumulation of sand, silt or any deposit during the construction of the drain and will be held responsible for any damage or expense arising from such causes or any costs or charges in connection with the removal of any such accumulation.

Unless otherwise specified by the Statutory Administrative Authority the width at bottom of trenches for different diameters of pipes laid at different depths shall be as given below.

- i) For all diameters upto an average depth of 120 cm, width of trench in cm=barrel dia of pipe + 30 cms.
- ii) For all diameters above 120 cm depth, width of trench in cm = barrel dia of pipe + 40 cm.
- iii) Nevertheless, the total width of trench should not be less than 75 cm for depths exceeding 120 cm.
- iv) In special site conditions, Consultants/Bank may instruct width more than stated above.

On completion, all drains are to be flushed from end to end with clean water and left perfectly clear.

d) **Testing**

Comprehensive tests of all appliances shall be made by simulating conditions of use. The pipes shall be subjected to a test pressure of at least 1.5 m head of water at the highest point of the section under test. The tolerance figure of 2 liters per centimeter of diameter per kilometer may be allowed during a period of ten minutes.

The test shall be carried out by suitably plugging the lower end of the drain and the ends of connections, if any & filling the system with water. A knuckle bend shall be temporarily jointed in at the top end and a sufficient length of vertical pipe joined to it so as to provide the required test head. Or the top end may be plugged with a connection to hose ending in a funnel, which could be raised or lowered till the required head is obtained and fixed suitably for observation. Subsidence of water may be due to one or more of the following causes.

- i) Absorption by pipes & joints
- ii) Sweating of pipes & joints
- iii) Leakage at joints or from defective pipes
- iv) Trapped Air.

Allowance for cause no. (i) above shall be made by adding water until absorption has ceased after which the test proper should commence. Any leakage will be visible and the defective part of the work shall be cut and made good. A slight amount of sweating which is uniform may be overlooked, but excessive sweating from particular pipe or joint shall be watched for and taken as indicating a defect to be made good.

- e) Route markers shall be provided (without extra cost) for underground pipelines (pl. ref item no.

33).

25.0 **S W YARD GULLY TRAPS**a) **Yard Gully Trap**

This must be new, perfectly sound, free from fire cracks and other imperfections of glazing of standard nominal diameter and other dimensions. It shall be made of hard burnt stoneware of dark grey colour and thoroughly salt glazed inside and outside. Rate to include supply and installation of gully trap, gratings concrete, masonry, plaster, earth works etc as given in schedule of quantities and testing the assembly.

- b) Each gully trap shall have one CI grating 30 cm x 30 cm cover with frame with machined seating faces or as specified.

c) **Excavation**

The excavation for gully traps shall be done true to dimensions and levels as indicated on plans or directed by the Consultants.

d) **Fixing**

The gully trap shall be fixed on cement concrete foundation 60 cm square and not less than 100 mm thick. The mix for the concrete will be 1:3:6 (1 cement, 3 sand and 6 stone ballast 20 mm down) or as specified. The jointing of gully outlet to the branch drain shall be done similar to jointing of SW Pipes.

e) **Masonry Chamber**

After fixing and testing the gully and branch drain a brick masonry chamber as directed/specified inside in bricks (having crushing strength of 50 kg/sq. cm) in cement mortar shall be built with 125 mm/250 mm thick all round the trap from the top of the bed concrete upto ground level. The upper portion of the chamber i.e. above the top level of the trap shall be plastered inside with cement mortar (1:4) (1 cement, 4 sand) finished with a floating coat of neat cement. The corners and bottoms of the chamber shall be rounded off so as to slope towards the grating.

f) **CI Cover/Grating**

CI cover with frame and grating, approx 30 cm x 30 cm or as specified with machined seating faces shall then be fixed on the top of the brick masonry with cement concrete 1:2:4 and rendered smooth. The finished top of cover shall be as specified in drawings and painted with two or more coats of bituminous paint.

26.0 **R C C PIPE DRAIN**

RCC pipes shall conform to Indian Standard Specification No. 458 of latest edition and shall be of the size and type as indicated in the Schedule. All pipes and fittings must be new and perfectly sound, free from cracks and be cylindrical. They shall be made of reinforced cement concrete, manufactured by centrifugal or spun process and shall have an even texture. Each pipe shall have one collar with it. The pipes shall be of 'NP2' class unless otherwise specified. The rate shall be including the cost of making hole/chase in concrete or masonry (if required) and making good the same, and

shall also be inclusive of the cost of earth works & concrete works. The rate shall include jointing with materials also.

26A. **Excavation of trenches for RCC Pipes Drains**

Excavation of trenches and connected works such as road crossing, protection of existing services, lighting and watch etc shall generally be carried out in accordance with procedure described for stoneware pipes.

26B. **Concrete Support**

Bed cement concrete shall be provided unless otherwise specified for supporting pipes. These shall be provided throughout. In case the soil is made up or is very soft, other forms of concrete supports may be resorted to form the bed of the trench below the pipe, as directed by the Consultants/Bank.

26C. **Laying of RCC Pipes**

a) **Laying**

The pipes shall be carefully laid to level and gradients as shown in the plans and sections. Great care shall be taken to prevent sand etc. from entering the pipes. The pipes between two manholes shall be laid truly in straight lines without vertical or horizontal undulations.

b) The body of the pipe shall for its entire length rest on an even bed in the trench and at places it shall be excavated to receive the collar for the purpose of jointing.

26D. **Jointing of Pipes (cost to be included in schedule item rate for piping)**

a) **Jointing**

A few skeins of spun yarn soaked in neat cement wash shall be inserted in the groove at the end of the pipe and the two adjoining pipes butted against each other. The collar shall then be slipped over the joints covering equally both the pipes. Spun yarn soaked in neat cement wash shall be passed round the pipes and inserted in the joint by means of caulking tools from both ends of the collar. More skeins of yarn shall be added and well rammed in.

b) The object of the yarn is to centre the two ends of the pipes within the collar, and to prevent the cement mortar of the joint from penetrating into the pipes.

c) Cement mortar 1:1 (1 cement : 1 sand) shall be slightly moistened, and must on no account be soft or sloppy and shall be carefully inserted by hand into the joint. The mortar shall then be caulked into the joint and more cement mortar added until the space of the joint has been filled completely with tightly caulked mortar. The joint shall be finished off neatly outside the collar on both sides at an angle of 45 Degree.

d) Any surplus mortar projecting inside the joint shall be removed and to guard against any such projections, sack or gunny bags shall be drawn past each joint after completion.

e) **Curing**

The cement mortar joints shall be cured at least for seven days.

26E. Testing

Same as mentioned in item no. 24 (d).

26F. Route Markers

Shall be provided (without extra cost) for underground pipes (pl. ref. item 33).

27.0 MANHOLES, GULLY CHAMBERS ETC**a) Size of Manhole**

The size specified shall be the internal size of the manhole. The work shall be done strictly as per drawing and specification. The following specifications shall be adopted.

b) Excavation

The manhole shall be excavated true to dimensions and levels shown on the plan or as directed by the Consultants/Bank.

c) Brick Work

The brick works shall be with bricks having crushing strength 50 kg/sq. cm brick in cement mortar 1:6 as specified. It shall be 250 mm thick or as instructed by the Consultants/Bank. Brick work in arches shall be with above quality brick in cement mortar 1:3. The joints shall be made thoroughly leak proof.

d) All angles shall be rounded to 7.5 cm radius and all rendered internal surfaces should have hard impervious finish obtained by using a steel trowel. The external trowel joints of the masonry shall be finished smooth.

e) In wet ground cement plaster shall be done on the outside surface of the walls also. This plaster shall be water proofed with addition of 1 kilogram of Accoproof to 50 kilograms (or 1 bag) of cement or with addition to any other equal and approved waterproofing compound. The plastering shall be done upto 30 cm above the wet soil line.

f) Channel and Benching

Channels shall be semi-circular in the bottom half and of diameter equal to the sewer. Above the horizontal axis of the pipes, the sides shall be extended vertically to the level of the crown of the outgoing pipe and the top edge shall be suitably rounded off. The branch channels shall also be similarly constructed with respect to the benching but at their junction with the main channel on appropriate angle suitably rounded off in the direction of flow in the main channel.

The channel and benching shall be done in cement concrete (1:2:4) rising at a slope of 1 in 6 from the edges of channel. The channels at the bottom of the chamber shall be plastered with cement mortar 1:6 (1 cement : 6 coarse sand) and steel trowelled smooth.

g) RCC Work

RCC work for slabs etc. shall be in Cement concrete 1:2:4 with steel reinforcement as per detail

drawings.

h) **Plain Concrete**

If used for fixing manhole covers, shall be of the above specifications.

i) **Foot Rests**

These shall be of MS square rods 22 mm or as specified and shall be galvanised or painted with coal tar.

These shall be embedded in cement concrete (1:2:4) at least (9") 23 cm, while the brick work is in progress. These shall be fixed 30 cm apart vertically and staggered laterally and shall not project more than 11 cm from the wall.

Note: This work shall not be taken up without prior directions of Bank/Consultants.

j) **Manhole Covers and Frames**

All covers shall be of heavy type. These shall be non-locking or locking type as specified and capable of easy opening and closing. These shall ordinarily be gas and water tight. These shall be double water seal type manhole cover and frame. The covers including frames shall be of cast iron and conform to weight as specified in Schedule of Quantities. CI surface box for air valves sluice valves, peet valve etc shall be of sufficient dimensions to suit the sizes of these fittings and shall be of heavy pattern when fitted in level to heavy traffic and shall be of standard design or as directed by the Consultants/Bank.

k) The frame of manhole cover shall be embedded firmly in the RCC slab or plain concrete as the case may be on the top of the masonry.

l) When the manhole is built on the footpath, this shall be provided with 45 cm internal diameter or as specified heavy type CI cover, of 56 cm internal dia as specified. When it is built within the metalled width of the road under traffic, it shall be provided with approx 22" (560 mm) internal diameter heavy type CI cover.

m) **Painting**

All CI/MS fittings like Manhole covers and frames, gratings, footrests etc. shall be painted with two or more coats of bitumastic paint & its rate shall be included in the rate of the Manholes, Gully chambers etc.

28.0 **TYPES OF MANHOLES**

28.1 **Manhole upto 0.75 Metre Depth**

This shall be 0.6 M x 0.6 M size (internal dimension) unless otherwise shown in drawings/or instructed per site conditions.

a) Thickness of brick wall - 250 mm

b) Cement brick work - (1:6) as specified.

- c) Plaster

Plaster on inside surface of walls, bottom & part of outside surface of walls and on RCC cover slabs shall be done as per drawings and directions.

- d) Bed concrete (1:4:8) - 150 mm thick with 20 mm down jhama khoa.

- e) Brick flat soling - 75 mm thick.

28.2 **Depth of Manhole above 0.75 M up to 1.5 M**

This shall be of 0.8 M x 0.8 M (internal) size unless otherwise shown in drawings or instructed as per site conditions.

Details same as that in item no. 28.1 above.

28.3 **Depth of Manhole above 1.5 M**

This shall be of 1.2 M x 0.9 M (internal) size or as specified.

- a) Thickness of brick wall

- i) 250 mm upto 1.5 M from finished G.L.

- ii) 375 mm below 1.5 M from finished G.L.

Cement brick work plastering and Brick Flat Soling same as in item 28.1 above.

Thickness of bed concrete (1:4:8) - 225 mm with 20 mm down jhama khoa.

- 28.4 The payment shall be made for complete unit of Inspection Pit as per schedule of quantities. However, if any other size of inspection pit is instructed to be done as per site conditions, the difference would be adjusted as per the concerned civil item rates concerned.

29.0 **PRIOR APPROVAL OF SAMPLE MATERIALS/WORKS**

Samples of all materials and works shall be approved by the Consultants/Bank before the contractor undertakes any major procurement of materials or proceeds with the works concerned. The quantum of materials/works for approval of sample shall be decided by the Consultants/Bank & no extra payment shall be made to the contractor for sample material procurement/or works & replacement of materials altering or redoing of works as required & instructed by the Consultants/Bank.

The typical approved sample material for each work shall be kept in the office of the Bank/Consultants at site until the satisfactory completion of the works. The materials supplied & installed at site shall be of the same quality & size as of the approved sample, otherwise they shall be rejected.

30.0 **CLEANING & DISINFECTION OF THE WATER SUPPLY SYSTEM, WATER STORAGE TANKS AND DOWN TAKE DISTRIBUTION PIPES**

All water mains, communication pipes, service and distribution pipes used for water for domestic purposes should be thoroughly and efficiently disinfected before being taken into use and also after every major repair. The method of disinfection shall be subject to the approval of the Bank/Consultants.

The water storage tanks (underground & overhead) & pipes shall first be filled with water & thoroughly flushed out. The storage tanks shall then be filled with water again and disinfecting chemical containing chlorine added gradually while the tanks are being filled, to ensure thorough mixing. Sufficient chemical shall be used to give water a dose of 50 parts of chlorine to one million parts of water. If ordinary bleaching powder is used, the proportions will be 150 gms of powder to 1000 ltrs of water. The powder shall be mixed with water to a creamy consistency before being added to the water in the storage tank. If a proprietary brand of chemical is used, the proportions shall be as specified by the makers. When the storage tank is full, the supply shall be stopped, and all the taps on the distribution pipes opened successively, working progressively away from the storage tank. Each tap shall be closed when the water discharge begins to smell of chlorine. The storage tank shall then be topped up with water from the supply pipe and with more disinfecting chemical in the recommended proportions. The storage tank & pipes shall then remain charged at least for three hours. Finally, the tank and pipes shall be thoroughly flushed out before any water is used for domestic purposes.

31.0 SEPTIC TANKS, SOAK WELL & CHLORINATION CHAMBER

As per instruction of Engineer in charge.

32.0 **METHOD OF MEASUREMENTS**

32.1. GENERAL

a) Unless otherwise stated in the schedule of quantities for the concerned items, the method of measurement as given here in Technical Specifications shall be followed.

b) Measurement shall be taken of the installed lengths for pipe lines & no extra payment for cuttings or wastages etc shall be allowed.

c) Lengths shall be measured in Running Metres to the nearest 0.01 metre & fittings shall be enumerated.

d) All pipes, fittings shall be classified according to their nominal diameter, quality & method of jointing.

33.0 **Underground Sewerage & Drainage Pipe Line (Glazed Stone Ware Piping)**

The piping shall be measured in running metres including joints, along the centre line of pipe faces in fitted condition.

The length shall be measured between the inside faces of walls of the inspection pits at both ends of that stretch of piping.

The item rates for the piping shall also be inclusive of the costs of the following works.

- a) Jointing arrangement with all materials and labours.
- b) Thorough cleaning of the entire pipe line after laying & before commissioning as directed by

Consultants/Bank.

c) Concrete bed, earth works etc as per schedule of quantities and drawings

LIST OF MATERIALS OF APPROVED BRAND AND/OR MANUFACTURER – CIVIL & SANITARY

SL No.	Description	Type/ Manufacturer/ Brand
1	Ordinary Portland/Blast Furnace Slag Cement of 53 grade	Lafarge, Ultratech, ACC & Birla White (for white cement)
2	Steel	TATA, SAIL, RINL make
3	Floor Hardening Compound	Kironite, Ironite, Feronite, Floronite.
4	Waterproofing Compound	M/s. Structural Water Proofing Co Pvt Ltd, M/s. Sika India Pvt Ltd, M/s. Pidilite Industries Ltd.
5	Aluminium Doors, Windows, Curtain Wall, Structural Glazing	Indalco, Hindal, Jindal
6	Synthetic Enamel Paints, Distemper, Plastic Emulsion Paints	ICI, Asian Paints Ltd., Berzer make
7	Kiln Seasoned & Chemically Treated Timber and Factory made panel door shutter	Approved manufacturer
8	Water proofing treatment to roof	Approved manufacturer
9	Waterproofing treatment to sunken floor	M/s. Pidilite Industries M/s. Sika India Pvt Ltd
10	Waterproof Adhesive for tile fixing	M/s. Pidilite Industries Tile Fixing Ltd - Fevimate XL. M/s. Laticrete India Pvt Ltd – Laticrete 307
11	Cement based paint	Super Snowcem, Durocem
12	Exterior grade acrylic emulsion paint	ICI, Asian Paints Ltd, Berzer
13	Sanitary Wares (Porcelain)	1 st Class approved quality of Hindustan Sanitary Ware Industries or EID-Parryware Hindware Brand of approved design.
14	EPWC seat with lid and CP hinges	ISI marked products of EMCO, Commander Brand.
15	Stainless steel Sink	Nirali/Metalcraft Brand/Hindware
16	Mirror	Saint Gobain, Modi Guard/ Hindustan Pilkington or as approved make.
17	C P stop cock/bib cock/pillar cock/towel rail/towel rack/mixer/curtain rail, robe hook/bottle trap etc all types of CP fittings	Jaquar Ess-Ess Hind-ware

LIST OF MATERIALS OF APPROVED BRAND AND/OR MANUFACTURER – INTERIOR FURNITURE

SN	ITEM	BRAND/ MANUFACTURE/TYPE
1	Plywood/Block board	MR Grade of Century/ Green /Archidply or equivalent.
2	Laminate	Greenlam/Centurylam/Archidlam or equivalent
3	Door lock	Ebco/ Hafele / Hettich/ Godrej or equivalent
4	Auto (self) latch Lock for SWO counters	Ebco/ Hafele / Hettich/ Godrej or equivalent
5	Night latch lock	Godrej
6	Handle	Acme / Corel / Ebco / Godrej / Korsa / Orchid
7	Tower bolt, Door stoper	S.S. brush / matt finish
8	Telescopic slider for drawer	Godrej / Hafele / Hettich/ Ebco or equivalent
9	ACP	Alubond, Eurobond, Fujibond, Alcobond or equivalent ISO certified
10	Float Glass	Saintgobi/ Modiguard or equivalent
11	Toughened glass	Saintgobi/ Modiguard or equivalent
12	Bidding/Lipping	Teak wood bidding
13	Wooden Door frame	1 st class local wood
14	Aluminum section	Indal/ Hindalco/ Jindal/ Tata or equivalent
15	Vertical Blinds	D'decor / Hunter Douglass / Mac / Marvel / Vista
16	Paint (Enamel/ oil bound/ Plastic paint)	Asian paint/ Deluxe/ Berger paint
17	Wall paper	Asian (Nilaya) / Excel - Streamline or equivalent
18	Veneer	Green/Century or equivalent
19	Floor tiles	Johnson/ Kajaria or equivalent
20	Door closer, floor spring	Godrej/ Droma/ Ebco/ Ozone or equivalent
21	Glass Flim	3M or equivalent
22	CPU Trolley	M.S. black powder coated with castor / wall mounted as required
23	False ceiling	All components including all hardware items of the false ceiling systems shall be used of the same make of the false ceiling system. Any local material shall not be used for any part of the ceiling system.
24	Mineral fiber ceiling tiles	12 mm thick Armstrong dune or equivalent

NOTE:-

- The tenderer shall use all the material strictly as per the list of approved make as stated above or as per instruction of EIC, it is mandatory to take the written confirmation well in advance if the material as stated above is not available and / or the same is not suitable (colour, size, shape, texture) as per the site condition.
- Contractor has to submit purchases voucher of items from authorized vendor of respective brand on demand by EIC.
- Whether a product is equivalent or not will be decided by the Engineer-in-Charge.
- The rates in BOQ includes demolition (if required) and shifting to a suitable place as per instruction of Engineer in charge.

Annexure II

To



P&E/2026-27/Tender/43 dated 16.07.2026

M/s. Antares Systems Limited,
Registered Office: #24, Sudha Complex,
3rd Stage, 4th Block, Bangalore-560079,
Karnataka.
Ph: 9674758719
e-Mail: kushal.b@antaressystems.com

Sub: E- Tendering FOR vide NIT No..... dated.....

Ref : 1 _____

2. e-tendering dt.

3. Our Offer No. _____ dt.

Dear Sir,

We confirm that we have quoted.

1. _____

as our final lump sum prices during the e-tendering process conducted today.

The item wise detail rates are worked out as per the Price bid (Annexure-III) appended herewith.

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

Yours sincerely,

For _____

Name:

Company:

Date:

Seal:

BILL OF QUANTITIES (BOQ)

(SEE ANNEXURE-III IN SEPARATE ATTACHMENT FILE)