

TENDER ID: LHO/BHO/P&E/2025-26/81



**STATE BANK OF INDIA
PREMISES & ESTATE DEPARTMENT**

**TENDER DOCUMENT FOR FIRE FIGHTING SPRINKLER
WORK AT SBI, 5TH FLOOR, LOCAL HEAD OFFICE
BUILDING BHOPAL M.P.**

ISSUED TO: All Empanelled contractors under category FA (Project cost upto Rs. 30 lakh) for supply, installation, testing, commissioning and annual maintenance contract of fire hydrant, wet riser, hose reel, down comer, fire pumps (electric & diesel), sprinkler system etc. in State Bank of India buildings/premises in the State of Madhya Pradesh & Chhattisgarh.

CLIENT:

STATE BANK OF INDIA
PREMISES & ESTATE DEPARTMENT
KAILESH-II
LOCAL HEAD OFFICE,
HOSHANGABAD ROAD BHOPAL,
M.P. 462011

ARCHITECT:

THE GRID
E-326, GREATER

NEW DELHI -110048
+91-9810135852

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Notice Inviting Tender

State Bank of India invites online Tenders **FOR FIRE FIGHTING SPRINKLER WORK AT SBI, 5TH FLOOR, LOCAL HEAD OFFICE BUILDING BHOPAL M.P.**

Details of tenders are as under:

1	Name of Work	:	TENDER DOCUMENT FOR FIRE FIGHTING SPRINKLER WORK AT SBI, 5TH FLOOR, LOCAL HEAD OFFICE BUILDING BHOPAL M.P.
2	Time allowed for completion	:	<i>6 months from date of handing over of the site.</i>
3	Estimate Cost	:	Rs. 5,64,250.00/-
4	Earnest Money Deposit	:	Rs. 5600/- (Rupees Five thousand Six Hundred only) in the form of Demand draft/ Banker Cheque of schedule Bank drawn in favour of State Bank of India, LHO, Bhopal to be submitted at AGM (P&E), SBI, LHO, Bhopal latest by 28.10.2025 up to 03:00 PM. EMD exempted, in case of submission of MSE Govt. of India letter. (to be enclosed in sealed envelope as a part of Technical Bid).
5	Initial Security Deposit	:	<i>2% of the total value of the contract including Earnest Money.</i>
6	Processing Fee of Tender Documents.	:	NIL
8	Last date and time of receipt of Tenders	:	28.10.2025 upto 3.00 p.m.
9	Address at which the Tenders are to be submitted	:	<u>Technical Bid:</u> to be submitted in hard copy at STATE BANK OF INDIA, PREMISES & ESTATE DEPARTMENT, 3rd Floor, SBI LHO BUILDING Hoshangabad Road BHOPAL 462011 <u>Price Bid:</u> Price Bid to be uploaded online at https://etender.sbi/ Vendor must have digital signature.
10	Date and time of opening of Tenders	:	28.10.2025 at 3.30 p.m.
11	Place of opening Tenders	:	SBI PREMISES & ESTATE DEPARTMENT, 3rd Floor, LHO BUILDING Hoshangabad Road BHOPAL 462011

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12	Defects Liability Period	:	<i>12 months from the date of handing over of the project to the satisfaction of Bank.</i>
13	Validity of Offer	:	<i>90 days from the date of opening the Tenders.</i>
14	Liquidated Damages	:	<i>At the rate of 0.5% of the Contract Value per week which subject to a maximum of 5% of the accepted Contract Value.</i>
15	Additional Performance Deposit (ASD) /Additional Performance Guarantee (APG)	:	<i>If the L1 Price quoted is more than 10% below of the estimated cost, the vendor has to submit an additional security deposit. The Amount of ASD shall be the difference between 90 % of the estimated cost. The ASD will be released after successful completion of the work.</i>

Mode of Submission of Tender: The tender shall be submitted in both physical and online in two cover system in accordance with the procedure detailed herein below. Specified documents shall be sealed in envelopes of appropriate size each of which shall be sealed.

- 1) First Envelope marked **Cover 1** shall contain Earnest Money Deposit/ MSE Govt. of India letter along with Covering Letter along with Undertaking as in Annexure- I.
- 2) Envelope marked **Cover 2** shall be of adequate size and shall contain envelopes marked **Covers 1 & tender document** and shall be properly sealed & signed. This envelope shall be endorsed on the outside face as under:

TENDER DOCUMENT FOR FIRE FIGHTING SPRINKLER WORK AT SBI, 5TH FLOOR, LOCAL HEAD OFFICE BUILDING BHOPAL M.P.

The envelope marked Cover 2 containing the tender documents as per instructions mentioned above shall be submitted in the office of AGM (P&E), SBI PREMISES & ESTATE DEPARTMENT 3rd Floor, LHO BUILDING Hoshangabad Road BHOPAL 462011

ON OR BEFORE 3.00 p.m. on 28.10.2025.

Envelope marked Cover 1 & Cover 2 containing Earnest Money Deposit/ MSE Govt. of India letter along with Covering Letter tender document/Undertaking as in Annexure- I will be opened and if the Earnest Money Deposit, tender document/Undertaking as in Annexure- I is not found as prescribed, the tender shall be rejected out rightly.

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

State Bank of India has the right to accept / reject any or all tenders without assigning any reasons.

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For E-Tender related queries: **Service provider:** M/s E-Procurement Technologies Limited
Help Desk: Contact Person:

1. Fahad Khan:- 6352631766, fahad@eptl.in
2. Jay Vyas:- 9265562819, jay.v@eptl.in
3. Mubassera Mansuri:- 7859800621, mubassera@eptl.in
4. Shaikh Nasruddin:- 6352632098, shikh@eptl.in

For any other queries the vendors may contact **Fire Officer** at the office of AGM (P & E) , BHOPAL. Phone – 0755-2575924.

The MIS information made available to circle authorities at the end of every Tender will also contain this unique Reference No along with all fields shown in the above Page.

SBI PREMISES & ESTATE DEPARTMENT

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INSTRUCTIONS TO THE TENDERERS

NOTE: INCASE OF ANY DISPUTE ARISING REGARDING THE JOB CONTRACT, INCLUDING THE INTERPRETATION OR THE SCOPE FOR WORKING THEREOF, THE DECISION OF AGM (P&E) SBI LHO BHOPAL SHALL BE FINAL AND BINDING.

1.0 Scope of Work

Sealed tenders are invited by SBI PREMISES & ESTATE DEPARTMENT., BHOPAL for and on behalf of State Bank of India for the ***5th Floor, LHO BUILDING BHOPAL M. P.***

1.1 Site and its Location

The proposed work is to be carried out at **PREMISES SBI LHO Building 5th Floor BHOPAL M.P.**

2.0 Tender Documents

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

Instructions to Tenderers

General Conditions of Contract

Special Conditions of Contract

Additional Specifications

Drawings

Price Bid

- 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) Additional Specifications
- c) Technical Specifications
- d) Drawings
- e) Special Conditions of Contract
- f) General Condition of Contract
- g) Instruction to Tenderers

- 2.3 Complete set of tender documents including relative drawings can be downloaded from e-tendering portal of the e-tendering service provider engaged by SBI.

- 2.4 The tender documents are not transferable.

3.0 Site Visit

- 3.1 The tenderer must obtain himself on his own responsibility and his own expenses all information and data which may be required for the purpose of filling this tender document and enter into a contract for the satisfactory performance of the work. The tenderer is requested satisfy himself regarding the availability of water, power, transport and

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communication facilities, the character quality and quantity of the materials, labour, the law and order situation, climatic conditions, **liaison requirements with local authorities/ authorities maintaining the campus, security agencies guarding the campus, traffic regulations in and around the site etc.** The rates quoted shall include working at all heights, cost for provision of nets, barriers and the like as required by authorities, CPWD, NBC and codes to stop any sound, dust and the like from disturbing the precinct. Nothing extra shall be paid in this regard. Tenderer should **NOTE** that work is to be done in an "OLD BUILDING".

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

4.0 **Earnest Money**

- 4.1 The tenderers are requested to submit the Earnest Money of ***Rs. 5600/- (Rupees Five thousand Six Hundred only) in the form of Demand draft/ Banker Cheque of schedule Bank drawn in favour of State Bank of India, LHO, Bhopal to be submitted at AGM (P&E), SBI, LHO, Bhopal.*** EMD exempted, in case of submission of MSE Govt. of India letter.
- 4.2 EMD in any other form other than as specified above will not be accepted. Tender not accompanied by the EMD in accordance with clause 4.1 above shall be rejected.
- 4.3 No interest will be paid on the EMD.
- 4.4 EMD of unsuccessful tenderers will be refunded/ returned within 30 days of award of Contract.
- 4.5 EMD of successful tenderer will be retained as a part of security deposit.

5.0 **Initial Security Deposit**

The successful tenderer will have to submit a sum equivalent to 2% of contract value less EMD, by means of Demand Draft drawn in favour of State Bank of India payable at Bhopal within a period of 7 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 running account bill of the work at the rate of 10% of the respective running account bills i.e., deduction from each running bill account will be 10% till total 3% of contract value is reached. 50% of the total security shall be paid to the contractors on the basis of architect's certifying the virtual completion. The balance 50% would be paid to the contractors after the defects liability period as specified in the contract provided he has carried out all the work and attended to all the defects in accordance with the condition of the contract and clearance, if any, of the observations of the CTE of CVC.
- 6.2 No interest shall be paid to the amount retained by the Bank as Security Deposit.

7.0 **Additional Security Deposit:-**

If the L1 Price quoted is more than 10% below of the estimated cost, the vendor has to submit an additional security deposit. The Amount of ASD shall be the difference between 90 % of the estimated cost. The ASD will be released after successful completion of the work.

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8.0 Signing of Contract Documents

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

9.0 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 **6 MONTHS** from the date of handing over of the site.

10.0 Validity of Tender

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

11.0 Liquidated Damages

The liquidated damages shall be 0.5% per week subject to a maximum of 5% of the accepted Contract Value.

12.0 Rate and Prices:

- 12.1 The tenderers shall quote their rates for individual items both in words and figures. In case of discrepancy between the rate quoted in words and figures the unit rate quoted in words will prevail. If no rate is quoted for a particular item the contractor shall not be paid for that item when it is executed.

The amount of each item shall be calculated and the requisite total is given. In case of discrepancy between the unit rate and the total amount calculated from multiplication of unit rate and the quantity the unit rate quoted will govern and the total amount will be corrected.

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

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

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

- 12.4 Each page of the BOQ shall be signed by the authorised person and cutting or over writing shall be duly attested by him.

- 12.5 Each page shall be totaled and the grand total shall be given.

12.5.1 The rate quoted shall be firm and shall include all costs, allowances, taxes, levies etc. and deduction at source for Income Tax, Work Contract Tax etc. will be made as per

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statutory rules.

12.5.2 The contractor shall be required to conduct necessary tests of the water brought from tube well or any other outside source, from approved laboratory.

12.5.3 The contractor is required to comply with all act of the Government relating to labour and the rules and regulations made there under from time to time and to submit at the proper times all particulars and statements required to be furnished to the appropriate authorities.

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Annexure-I
UNDERTAKING
(To be submitted along with the technical Bid)

To
AGM (P&E),
STATE BANK OF INDIA
PREMISES & ESTATE DEPARTMENT
3rd Floor, LHO
HOSHANGABAD ROAD
BHOPAL-462011

Dear Sir,

**TENDER DOCUMENT FOR FIRE FIGHTING SPRINKLER WORK AT SBI, 5TH FLOOR,
LOCAL HEAD OFFICE BUILDING BHOPAL M.P.**

1. I / We refer to the tender notice issued by you for Interior works and allied works in connection with the above.
2. **I undertake to submit in Hard copy of the tender document along with all terms & Conditions, Specifications and subsequent annexure and corrigendum's duly signed and stamped by authorised representative/ signatory on becoming L1. However we accept all the terms and conditions along with the specifications, Drawings, Layouts etc. defined in the tender documents.**
3. I/ We hereby offer to perform, provide, execute, complete and maintain the works in conformity with the drawings, designs, conditions of contracts&specifications schedule of quantities relating to the works.
4. 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 fulfill all the terms and provisions of the said conditions annexed here to,
 - b. Complete the works within **6 MONTHS** as per the work programme enclosed with the tender in two or three shifts if considered necessary by the Employer / Consultants at no extra cost to the Employer.
5. I / We have deposited a **EMD amount of Rs. 5600/- (Rupees Five thousand Six Hundred only)** in the form of Demand Draft / Banker's Cheque drawn in favour of State Bank of India payable at Bhopal , respectively which, I / We note, will not bear any interest and is liable for forfeiture.
 - I. If our offer is withdrawn within the validity period of acceptance by the Employer.
Or
 - II. If the contract agreement is not executed by us within 7 days from the date of receipt of the letter of acceptance.
Or

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III. If we fail to pay the initial security deposit as stipulated.

Or

IV. If the work is not commenced within 7 days after issue of work order.

6. I / We understand that you are not bound to accept the lowest or any tender you receive.

The names of **DIRECTORS/ PARTNERS** of our Firm are:

1. _____

2. _____

3. _____

4. _____

Yours faithfully,

Signature

Designation

Name of Partner / Director of the Firm, authorised
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 witnesses:

a. Signature

Name

Address

b. Signature.....

Name

Address

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AGREEMENT

This agreement made on the _____ day of _____ Two Thousand _____ BETWEEN State Bank of India a corporation constructed under the State Bank of India Act, 1955 and having its Local Head Office at Bhopal and many other places, (hereinafter called "the Employer") of the one part and M/s _____ through its _____ having its registered office at _____ (hereinafter called "the Contractor") of the other part.

WHEREAS the Employer is desirous of executing Certain Works to be carried out **at TENDER DOCUMENT FOR FIRE FIGHTING SPRINKLER WORK AT SBI, 5TH FLOOR, LOCAL HEAD OFFICE BUILDING BHOPAL M.P.** as per Schedule-I, to this agreement and has caused Drawings, Bills of Quantities and Specification describing the work to be done, prepared by **M/s THE GRID** (hereinafter called "the Architects").

AND WHEREAS the said Drawings, the Bills of Quantities marked pages _____ to _____ (inclusive) and the Specifications as stated have been signed by or on behalf of the parties hereto:

AND WHEREAS the Contractor has agreed to execute the work upon the Conditions of Tender and the Conditions of Contract and further subject to the Special Conditions set forth in Schedule-II hereto attached (hereinafter collectively referred to as "the said Conditions") as per the said Drawings and as described in the said Specification and included in the said Bills of Quantities for the sum of Rupees _____

NOW IT IS HEREBY AGREED AS FOLLOWS:

1. In consideration of the sum of Rupees _____ to be paid at the time and in the manner set forth in the said Conditions, the Contractor shall upon and subject to the said Drawings and described in the said Specification and Bills of Quantities.
2. The Employer shall pay to the Contractor the said sum of Rs. _____
_____ or such other sum as shall become payable hereunder at the times and in the manner specified hereinafter.
3. The term "The Architects" in the said conditions shall mean **M/s THE GRID** or in the event of their ceasing to be Architects for the purposes of this Contract, such other 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 mentioned in the said Conditions. Provided always that no persons subsequently appointed to be Architects under this Contract shall be entitled to disregard or overrule any decision or approval or direction given or expressed by the Architects for the time being.
4. The said Conditions, Specifications and Priced Bills of Quantities shall be read and construed as forming part of this agreement, and the parties hereto shall respectively abide by and submit themselves to the conditions and stipulations and perform the agreement on their parts respectively in such Conditions, Specifications and Priced Bills of Quantities contained.
5. This agreement is subject to jurisdiction of courts in **BHOPAL M.P** only.

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6. **The Astt. General Manager (P&E), LHO, BHOPAL** shall exercise powers on behalf of the said Employer for the purpose of the Contract Agreement.
7. Whereas both the parties agree to sign the following annexure Annexed to this Agreement in token of their acceptance.
- (i) Agreement
 - (ii) General Conditions of contract.
 - (iii) Special Condition of Contract.
 - (iv) Safety Codes.
 - (v) Specifications.
 - (vi) Material Testing & Their Frequency.
 - (vii) List of Approved Makes/ Brands
 - (viii) Priced Bill of Quantities.
 - (ix) Drawings.
8. The Bank shall pay the contractor such sum as shall become payable hereunder at the times and in the manner specified in the said Conditions mentioned in the General Conditions of Contract.
9. Whereas the Contractor hereby undertakes and agrees to carry out and complete the works within **6 MONTHS** from the date of handing over site or 15 days from the date of issue of letter of acceptances, whichever is later. The Contractor agrees and has deposited the sum of Rs. _____ by way of Initial Security Deposit for due fulfillment of this Contract for the Works. It is agreed that the Security Deposit shall be deducted from each running bills and refunded to the contractor as per clause 2 of the General Conditions of the Contract Annexed herewith.
10. Whereas it is agreed that the earnest money amounting to **Rs. 5600/- (Rupees Five thousand Six Hundred only)** deposited by the Contractor in the form of Demand Draft along with the tender shall be forfeited in full in case the Contractor does not remit the Initial Security Deposit within the stipulated period of the start of the works by the stipulated date mentioned in the award letter.
11. Whereas Shri _____ is the accredited representative(s) of the Contractor who would be responsible for taking instructions from the Employer in relation to the Works. The Contractor agrees to pay Sales Tax or any other Tax on material or finished works like Works Contract Tax, Turnover Tax etc. including Income Tax in respect of this Contract of the Works and the Employer will not entertain any claim whatsoever in this report nor the Employer shall be responsible to pay any Tax as mentioned above. If due to non – payment of any of the aforesaid Tax or other Taxes connected with the Works, the Contractor suffers any loss or damages occurred to the Contractor and the Employer will be entitled to claim damages from the contractor for non-completion of the Work within **6 calendar months** stipulated in Para 9, above.
12. Whereas the Contractor hereby declares the list of all the relative working with the Employer which is annexed herewith.

OR

Whereas the Contractor declares that none of his relative is working with the Employer.

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OR

Whereas the Contractor declares that he has associated himself with the agencies of the appropriate classes of person for Sanitary and Water Supply Installation etc. or any other specialized job to complete the works.

The Plans, Drawings, Specifications, Contract Documents and the Documents above mentioned shall form basis of this Contract and the decision of **AGM (P&E), SBI PREMISES & ESTATE DEPARTMENT., 3rd Floor, LHO BUILDING Hoshangabad Road BHOPAL 462011** for the time being as mentioned in the Conditions of Contract in reference to all matters of dispute as to material, workmanship or account and as to the intended interpretation of the clauses of the Agreement or any of the document attached hereto shall be final and binding on both parties and may be made rule of the court.

13. The work comprises of the **"TENDER DOCUMENT FOR FIRE FIGHTING SPRINKLER WORK AT SBI, 5TH FLOOR, LOCAL HEAD OFFICE BUILDING BHOPAL M.P.."** as mentioned above and all subsidiary and other works connected therewith on the same site as may be ordered to be done from time to time by **AGM (P&E), SBI PREMISES & ESTATE DEPARTMENT., 3rd Floor, LHO BUILDING Hoshangabad Road BHOPAL 462011** for the time being even though such works may not have been shown on the , Plans or described in the said Specifications or Schedule of Quantities of various classes of Work to be done.
14. The Employer through the **AGM (P&E), SBI PREMISES & ESTATE DEPARTMENT.,3rd Floor, LHO BUILDING Hoshangabad Road BHOPAL 462011** reserves himself the right of altering the Plans, Drawings and nature of Work of adding to or omitting any items of work or having portions of the same carried out departmentally or otherwise and such alterations or variations shall be carried out without prejudice to this Contract.
15. All disputes arising out of or in any way connected with this agreement shall be deemed to have arisen in UP and only the courts of UP shall have jurisdiction to determine the same.
16. The several parts of this Contract have been read to us and fully understood by us.

In Witness whereof the parties above named have executed these presents today and year first hereinabove written.

Signed, Sealed and Delivered by:

Authorised Representative of Employee

Authorised Representative of Contractor

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SCHEDULE I

TENDER DOCUMENT FOR FIRE FIGHTING SPRINKLER WORK AT SBI, 5TH FLOOR, LOCAL HEAD OFFICE BUILDING BHOPAL M.P. all as described in Tender and Drawings inclusive hereto as Specifications.

SCHEDULE II

The following Letters/ Correspondence form a part of Agreement:

- 1.
- 2.
- 3.

As witness our hands the day and year first written above,

In presence of

Signature:

Name:

Occupation:

Address:

Signature by the said Employer

Name:

Designation:

Address:

In presence of

Signature:

Name:

Occupation:

Address:

Signature by the said Contractor

Name:

Designation:

Address:

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GENERAL CONDITIONS OF CONTRACT

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 architects/ Bank and all these documents taken together shall be deemed to form one contract and shall be complementary to one another.

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

1.1.1 'SBI' shall mean State Bank of India (client) having its Corporate Centre at State Bank Bhavan, Madame Cama Road, Mumbai-400 021 and includes the client's representatives, successors and assigns.

'Architects/ Consultants' shall mean **M/S THE GRID**. 'Site Engineer' shall mean an Engineer appointed by the Bank as their representative to give instructions to the contractors.

1.1.2 'The Contractor' shall mean the individual or firm or company whether incorporated or not, 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.

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.

1.1.3 'Engineer' shall mean the representative of the Architect/Consultant.

1.1.4 'Drawings' shall mean the drawings prepared by the Architects and issued by the Engineer and referred to in the specifications and any modifications of such drawings as may be issued by the Engineer from time to time. 'Contract Value' 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 under the deductions there from as may be made under the provision herein after contained.

1.1.5 '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 Architect/ Bank Engineer "Month" means calendar month.

1.1.6 "Week" means seven consecutive days.

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

2.0 Total Security Deposit

Total Security Deposit comprise of

Earnest Money Deposit

Initial Security Deposit

Retention Money

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a) Earnest Money Deposit:

The tenderer shall furnish EMD of **Rs. 5600/- (Rupees Five thousand Six Hundred only)** in the form of Demand Draft drawn in favour of State Bank of India payable at **BHOPAL** on any Scheduled Bank. No tender shall be considered unless the EMD is so deposited in the required form. No interest shall be paid on this EMD. The EMD of the unsuccessful tenderer shall be refunded after the decision to award the contract is taken without interest. The EMD shall stand absolutely forfeited if the tenderer revokes his tender at any time the period when he is required to keep his tender open acceptance by the SBI or after it is accepted by the SBI the contractor fails to enter into a formal agreement or fails to pay the initial security deposit as stipulated or fails to commence the work within the stipulated time. EMD exempted, in case of submission of MSE Govt. of India letter.

b) Initial Security Deposit (ISD)

The amount of ISD shall be 2% of accepted value of tender including the EMD in the form of D/D drawn on any scheduled Bank and shall be deposited within 7 days from the date of acceptance of tender.

c) Retention Money:

Besides the ISD as deposited by the contractor in the above said manner the retention money shall be deducted from the running account bill at the rate of 10% of the gross value of work done by the contractor and claimed in each bill provided the total security deposit i.e. the ISD plus Retention Money shall both together not exceed 5% of the contract value. 50% of the total security deposit shall be refunded to the contractor without any interest on issue of Virtual Completion certificate by the Architect / consultant. The balance 50% of the total security deposit shall be refunded to the contractors without interest within fifteen days after the end of defects liability period provided the contractor has satisfactorily attended to all defects in accordance with the conditions of contract including site clearance.

d) Language

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

3.0 Errors, Omissions and Discrepancies

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

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

4.0 Scope of Work:

The contractor shall carryout complete and maintain the said work in every respect in strictly accordance with this contract and with the directions of and to the satisfaction of the Bank/ SBI to be communicated through the Architect/ Bank Engineer. The Architect/ Bank Engineer at the directions of the Bank from time to time issue further drawings and/ or written

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instructions, details directions and explanations which are hereafter collectively referred to as Architect's/ Consultant's instructions in regard to the variation or modification of the design, quality or quantity of work or the addition or omission or substitution of any work. Any discrepancy in the drawings or between the BOQ and/ or specifications. The removal from the site of any material brought thereon by the contractor and any substitution of any other materials therefore the removal and / or re-execution of any work executed by him. The dismissal from the work of any person employed / engaged thereupon.

a. i) Letter of Acceptance:

Within the validity period of the tender the Bank shall issue a letter of acceptance either directly or through the architect 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 SBI and the contractor.

ii) Contract Agreement:

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

6.0 Ownership of Drawings:

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

7.0 Detailed Drawings and Instructions:

The **SBI** through its architects/ consultants shall furnish with reasonable promptness additional instructions by means of drawings or otherwise necessary for the proper execution of 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 prepare a detailed programmer schedule indicating therein the date of start and completion of various activities on receipt of the work order and submit the same to the SBI through the architect / consultant.

8.0 Copies of Agreement

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

9.0 Liquidated Damages:

If the contractor fails to maintain the required progress in terms of clause 30 of GCC or to complete the work and clear the site including vacating their office on or before the contracted or extended date or completion without justification in support of the cause of delay, he may be called upon without prejudice to any other right of remedy available under the law to the SBI on account of such breach to pay a liquidated damages at the rate of 0.5% of the contract value per week which is subject to a maximum of 5% of the contract value.

10.0 Materials, Appliances and Employees

Unless or otherwise specified the contractor shall provide and pay for all materials, labour, water, power, tools, equipment transportation and any other facilities that are required for

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the satisfactory execution and completion of the work. Unless or otherwise specified all materials shall be new and both workmanship and materials shall be of best quality. The contractor shall at all times enforce strict discipline and good order among his employees and shall not employ on the work any unfit person or anyone not skilled in the work assigned to him. Workman whose work or behavior is found to be unsatisfactory by the SBI/ SBIIMS/ Architect/ Bank Engineer he shall be removed from the site immediately.

11.0 Permits, Laws and Regulations:

Permits and licenses required for the execution of the work shall be obtained by the contractor at his own expenses. The contractor shall give notices and comply with 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/ Bank Engineer. 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.

12.0 Setting out Work:

The contractor shall set out the work and shall be responsible for the true and perfect setting out of the same and for the correctness of the positions, levels, dimensions, and alignment of all parts thereof and get it approved by the Architect/ Bank Engineer before proceeding with the work. If at any time any error in this respect shall appear during the progress of the works, irrespective of the fact that the layout had been approved by the Architect/ Bank Engineer 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.

13.0 Protection of Works and Property:

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

He shall take adequate care and steps for protection of the adjacent properties. The contractor shall take all precautions for safety and protections of his employees on the works and shall comply with all applicable provisions of Govt. and local bodies safety laws and building codes to prevent accidents, or injuries to persons or property on, about or adjacent to his place of work. The contractor shall take insurance covers as per clause 26.0 at his own cost. The policy may take in joint names of the contractor and the SBI and the original policy may be lodged with the SBI.

14.0 Inspection of Work:

The SBI / Architect/ Bank Engineer or their representatives shall at all reasonable times have free access to the work site and/ or to the workshop, factories, or other places where materials are lying or from where they are obtained and the contractor shall give every facility to the SBI, Architect / consultant and their representatives necessary for inspection and examination and test of the materials and workmanship. No person unless authorised 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.

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15.0 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 SBI through the architect and no undertaking shall relieve the contractor from the responsibility of the contractor from active superintendence of the work during its progress.

16.0 Quality of Materials, Workmanship & Test

All materials and workmanship shall be best of the respective kinds described in the contract and in accordance with Architect/ Bank Engineer instructions and shall be subject from time to time to such tests as the Architect/ Bank Engineer 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 or examining measuring sampling and testing any material or part of work before incorporation in the work before incorporation in the work or testing as may be selected and required by the Architect / Consultant.

ii) Samples

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

iii) Cost of Tests

The cost / expenditure required for the tests shall be borne by the contractor if such test is intended by or provided for in the specification or BOQ.

iv) Cost of Tests not provided for

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

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

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17.0 Obtaining Information Related to Execution of Work

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

18.0 Contractor's Superintendence

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

19.0 Quantities

- 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, 21 hereof as well as amounts of prime cost and provisional sums, if any, shall be excluded.

Variation exceeding 25%: The items of work executed in relation to variation exceeding 25% shall be paid on the basis of provisions of clause 22 (e) hereof.

20.0 Works to be measured

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

21.0 Variations

No alteration, omission or variation ordered in writing by the Architect / consultant shall vitiate the contract. In case the SBI /Architect / Consultant thinks proper at any time during the progress of works to make any alteration in, or additions to or omissions from the works or any alteration in the kind or quality of the materials to be used therein, the Architect / Consultant shall give notice thereof in writing to the contractor 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

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work extra to or make any alterations or additions to or omissions from the works or any deviation from any of the provisions of the contract, stipulations, specifications or contract drawings without previous consent in writing of the Architect / Consultant and the value of such extras, alterations, additions or omissions shall in all cases be determined by the Architect / Consultant and the same shall be added to or deducted from the contract value, as the case may be.

22.0 Valuation of Variations

- a) No claim for an extra shall be allowed unless it shall have been executed under the authority of the Architect/ Bank Engineer with the concurrence of the SBI as herein mentioned. Any such extra is herein referred to as authorised extra and shall be made in accordance with the following provisions.
 - i. The net rates or prices in the contract shall determine the valuation of the extra work where such extra work is of similar character and executed under similar conditions as the work 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 Architect / consultant of the rate which he intends to charge for such items of work, duly supported by analysis of the rate or rates claimed and the Architect / Consultant shall fix such rate or prices as in the circumstances in his opinion reasonable and proper, based on the market, rate.
- d) Where extra work cannot be properly measured or valued the contractor shall be allowed day work prices at the net rates stated in the tender of the BOQ or, if not, so stated then in accordance with the local day work rates and wages for the district; provided that in either case, vouchers specifying the daily time (and if required by the Architect / Consultant) the workman's name and materials employed be delivered for verifications to the Architect / consultant at or before the end of the week following that in which the work has been executed.
- e) It is further clarified that for all such authorised extra items where rates cannot be derived from the tender, the Contractor shall submit rates duly supported by rate analysis worked on the market rate basis" for material, labour, hire / running charges of equipment and wastage etc. plus 15% towards establishment charges, contractor's overheads and profit. Such items shall not be eligible for escalation.

23.0 Final Measurement

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

24.0 Virtual Completion Certificate (VCC)

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

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- 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 labour sheds/camps and constructions and other items and things whatsoever brought upon or erected at the site or any land allotted to the contractor by the SBI 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 SBI and shall clear, level and dress, compact the site as required by the SBI.
- d) Shall put the SBI in undisputed custody and possession of the site and all land allotted by the SBI.
- e) Shall hand over the work in a peaceful manner to the SBI.
- f) All defects / imperfections have been attended and rectified as pointed out by the SBI to the full satisfaction of SBI.

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

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.

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

26.0 Insurance of Works

- 26.1 Without limiting his obligations and responsibilities under the contract, the contractor shall insure in the joint names of the SBI and the contractor against all loss of damages from whatever cause arising other than the excepted risks, for which he is responsible under the terms of contract and in such a manner that the SBI and contractor are covered for the period stipulated 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 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.

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- b) The constructional plant and other things brought on to the site by the contractor to the replacement value of such constructional plant and other things.
- c) Such insurance shall be effected with an insurer and in terms approved by the SBI which approval shall not be unreasonably withheld and the contractor shall whenever required produce to the Architect / consultant the policy of insurance and the receipts for payment of the current premiums.

26.2 Damage to Persons and Property

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

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

26.3 Contractor to Indemnify SBI

The contractor shall indemnify the SBI against all claims, proceedings, damages, costs, charges and expenses in respect of the matters referred to in the matters referred to in the provision sub-clause 26.2 of this clause.

26.4 Contractor's Superintendence

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

26.5 Third Party Insurance

- 26.5.1** Before commencing the execution of the work the contractor but without limiting his obligations and responsibilities under clause 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

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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.

26.5.2 Minimum amount of Third Party Insurance

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

26.5.3 The minimum insurance cover for physical property, injury, and death is Rs. 5 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.

26.6 Accident or Injury to Workman

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

26.6.1 Insurance against Accidents etc. to Workmen

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

26.6.2 Remedy on Contractor's failure to Insure:

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

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

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27.0 Commencement of Works:

The date of commencement of the work will be reckoned as the date of handing over site or three days from the date of issue of letter of acceptance of the tender by the SBI which ever is later.

28.0 Time for Completion

Time is essence of the contract and shall be strictly observed by the contractor. The entire work shall be completed within a period of **6 months** from the date of commencement. If required in the contract or as directed by the Architect / Consultant. The contractor shall complete certain portions of work before completion of the entire work. However the completion date shall be reckoned as the date by which the whole work is completed as per the terms of the contract.

29.0 Extension of Time

If, in the opinion of the Architect/consultant, the work be delayed for reasons beyond the control of the contractor, the Architect/consultant may submit a recommendation to the SBI to grant a fair and reasonable extension of time for completion of work as per the terms of contract. If the contractor needs an extension of time for the completion of work or if the completion of work is likely to be delayed for any reasons beyond the due date of completion as stipulated in the contract, the contractor shall apply to the SBI through the Architect / Consultant in writing in detail and his justification if any, for the delays. The Architect/Consultant shall submit their recommendations to the SBI in the prescribed format for granting extension of time. While granting extension of time the contractor shall be informed the period-extended time which will qualify for levy of liquidated damages. For the balance period in excess of original stipulated period and duly sanctioned extension of time by the SBI the provision of liquidated damages as stated under clause 10.0 of Instructions to the Tenderers shall become applicable. Further the contract shall remain in force even for the period beyond the due date of completion irrespective whether the extension is granted or not.

30.0 Rate of Progress

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

31.0 Work during Nights and Holidays

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

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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.

32.0 No Compensation or Restriction of Work.

If at any time after acceptance of the SBI shall decide to abandon or reduce the scope of work for any reason whatsoever and hence not required the whole or any part of the work to be carried out. The Architect/ Bank Engineer 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/ Bank Engineer 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 for SBI stores and returned by the contractor to stores, credit shall be given to him at the rates not exceeding those at which were originally issued to the contractor after taking into consideration and deduction for claims on account of any deterioration or damage while in the custody of the contractor and in this respect the decision of Architect/ Bank Engineer shall be final.

33.0 Suspension of Work

- i) The contractor shall, on receipt of the order in writing of the Architect/ Bank Engineer (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 Architect/ Bank Engineer may consider necessary so as not to cause any damage or injury to the work already done or endanger the safety thereof for any of following reasons.
 - a) One account any default on the part of the contractor, or
 - b) for proper execution of the works or part thereof for reasons other then the default of the contractor, or for safety of the works or part thereof.
 - c) The contractor shall, during such suspension, properly protect and secure the works to the extent necessary and carry out the instructions given in that behalf by the Architect/ Bank Engineer.
- ii) If the suspension is ordered for reasons (b) and (c) 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.

34.0 Action when the whole Security Deposit is forfeited

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

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- a) To rescind the contract (of which rescission notice in writing to the contractor by the Architect/ Bank Engineer shall be conclusive evidence) and in which case the security deposit of the contractor shall be forfeited and be absolutely at the disposal of SBI.
- b) To employ labour paid by the SBI and to supply materials to carry out the work, or any part of the work, debiting the contractor with the cost of the labour and materials (the cost of such labour and materials as worked out by the Architect /Consultant 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 Architect/ Bank Engineer 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, 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 Architects/ Consultant shall be final and conclusive) shall be borne by original contractor and may be deducted from any money due to him by SBI under the contract or otherwise, or from his security deposit or the proceeds of sale thereof, or sufficient part thereof. In the event of any of above courses being adopted by the SBI the contractor shall have no claim to compensation for any loss sustained by him by reasons of his having purchased or procured any material or entered into any engagements or make any advances on account of, or with a view to the execution of the work or the performance of the contract and in case the contract shall be rescind under the provision aforesaid, the contractor shall not be entitled to recover or to be paid any sum or any work thereto for actually performed under this contract, unless, and until the Architect/ Bank Engineer 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.

35.0 Owner's Right to Terminate the Contract

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

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

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

- 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 days after receiving from the SBI through the Architect/ Bank Engineer written notice to proceed, or

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- c) Has failed to proceed with the works with such diligence and failed to make such due progress as would enable the works to be completed within the time agreed upon, or has failed to remove the materials from the site or to pull down and replace work within seven days after written notice from the SBI through the Architect/ Bank Engineer that the said materials were condemned and rejected by the Architect/ Bank Engineer under these conditions; or has neglected or failed persistently to observe and perform all or any 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 be detriment of good workmanship or in defiance of the SBI's or Architect's/ Consultant's instructions to the contrary subject any part of the contract. Then and in any of said cases the SBI and or the Architect/ Bank Engineer, may not withstanding any previous waiver, after giving seven days notice in writing to the contractor, determine the contract, but without thereby affecting the powers of the SBI or the Architect/ Bank Engineer 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 SBI through the Architect/ Bank Engineer 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 SBI or the architect / consultant shall give a notice in writing to the contractor to remove his surplus materials and plants and should the contractor fail to do so within 14 days after receipt thereof by him the SBI sell the same by public auction after due publication, and shall adjust the amount realised by such auction. The contractor shall have no right to question any of the act of the SBI incidental to the sale of the materials etc.

36.0 Certificate of Payment

The contractor shall be entitled under the certificates to be issued by the Architect / Consultant to the contractor within 14 working days from the date of certificate to the payment from SBI from time to time. The SBI shall recover the statutory recoveries towards Income tax, Work contract tax as per the prevailing bye laws and other dues including the retention amount from the certificate of payment.

Provided always that the issue of any certificate by the Architect/ Bank Engineer 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/ Bank Engineer shall have power to withhold the certificate if the work or any part thereof is not carried out to their satisfaction.

The Architect/ Bank Engineer may by any certificate make any corrections required in previous certificate.

The SBI shall modify the certificate of payment as issued by the Architect/ Bank Engineer from time to time while making the payment.

The contractor shall submit interim bills only after taking actual measurements and property recorded in the measurement books.

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The contractor shall not submit interim bills when the approximate value of work done by him is less than **Rs. 3 lacs** and maximum one bill shall be submitted.

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

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

37.0 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 those 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 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 **AGM (P&E), SBI PREMISES & ESTATE DEPARTMENT., 3rd Floor, LHO BUILDING Hoshangabad Road BHOPAL 462011** and endorse a copy of the same to the Architect, within 30 days from the date of disallowance thereof or the date of deduction or recovery. The said notice shall give full particulars of the claim, grounds on which it is based and detailed calculations of the amount claimed and the contractor shall not be entitled to raise any claim nor shall the Bank be in any way liable in respect of any claim by the contractor unless notice of such claim shall have been given by the contractor to the **AGM (P&E), SBI PREMISES & ESTATE DEPARTMENT., 3rd Floor, LHO BUILDING Hoshangabad Road BHOPAL 462011** 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 **AGM (P&E), SBI PREMISES & ESTATE DEPARTMENT., 3rd Floor, LHO BUILDING Hoshangabad Road BHOPAL 462011** in writing in the manner and within the time aforesaid.

- ii) **AGM (P&E), SBI PREMISES & ESTATE DEPARTMENT., 3rd Floor, LHO BUILDING Hoshangabad Road BHOPAL 462011** 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 **AGM (P&E), SBI PREMISES & ESTATE DEPARTMENT., 3rd Floor, LHO BUILDING Hoshangabad Road BHOPAL 462011** submit his claims to the conciliating authority namely the **Circle Development Officer, SBI, BHOPAL** for conciliation along with all details and copies of correspondence exchanged between him and the Regional Manager.
- iii) If the conciliation proceedings are terminated without settlement of the disputes, the contractor shall, within a period of 30 days of termination thereof shall give a notice to the concerned **Chief General Manager of the Bank** for appointment of an arbitrator to adjudicate the notified claims failing which the claims of the contractor shall be deemed to have been considered absolutely barred and waived.

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- 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 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 of the Bank**. It will also be the 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 **Chief General Manager of the Bank**. 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 **Chief General Manager of the Bank**, as aforesaid should act as arbitrator.

The conciliation and arbitration shall be conducted in accordance with the provisions of the Arbitration & Conciliation Act 1996 or any statutory modification or 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.

38.0 Water Supply

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

That the water used by the contractor shall be fit for construction purposes to the satisfaction of the Architect / Consultant.

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/ Bank Engineer is unsatisfactory.

The contractor shall construct temporary well / tube well in SBI land for taking water for construction purposes only after obtaining permission in writing from the SBI. The contractor has to make his own arrangement for drawing and distributing the water at his own cost. He has to make necessary arrangements. To avoid any accidents or damages caused due to construction and subsequent maintenance of the wells. He has to obtain necessary approvals from local authorities, if required, at his own cost. He shall restore the ground to its original conditions after wells are dismantled on completion of work or hand over the well to the SBI

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without any compensation as directed by the SBI/ Architect/ Bank Engineer.

39.0 Power Supply

The contractor shall make his own arrangements for power and supply / distribution system for driving plant or machinery for the work and for lighting purpose at his own cost. The cost of running and maintenance of the plants are to 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.

40.0 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 Bank immediately.

41.0 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.

42.0 Maintenance of Registers

The contractor shall maintain the following registers as per the enclosed Performa at site of work and should produce the same for inspection of SBI/ Architect/ Bank Engineer 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 Cement / Paint / Lead / Specific Materials
- ii) Register for Steel
- iii) Register for Secured Advance
- iv) Register for Bulkage of Sand
- v) Register for Silt Test
- vi) Register for Sieve Analysis for Fine Aggregate
- vii) Register for Sieve Analysis for Course Aggregate
- viii) Register for Slump Test.
- ix) Register for Concrete Cube Test.
- x) Register for Hindrance to Work.
- xi) Register for Consumption of Cement
- xii) Register for Running Account Bill
- xiii) Register for Labour

43.0 Force Majeure

- 43.1 Neither contractor nor SBI shall be considered in default in performance of their obligations if such performance is prevented or delayed by event such as but not to 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 even 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

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its obligations has been affected, shall notify the other 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.

43.4.1 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 each other to decide regarding the future execution of this Agreement.

44.0 Local Laws, Acts, Regulations:

The contractor shall strictly adhere to all prevailing labour laws inclusive of contract labour (regulation and abolition act of 1970) and other safety regulations. the contractor shall comply with the provision of all labour 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) Contact labour regulation and abolition act 1970 and central rules 1971 (Amended)
- v) Apprentice act 1961 (Amended)
- vi) Industrial employed (standing order) Act 1946 (Amended)
- vii) Personal injuries (Compensation insurance) act 1963 and any other modifications
- viii) Employees' provided 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.

45.0 Safety Code:

1. All personnel at site should be provided with Helmets and Safety Boots with some identification Mark. Visitors also should be provided with helmets. It should be ensured that these are used properly.
2. First Aid Box should be kept at site with all requisite materials.
3. No one should be allowed to inspect / work at a height without safety belt.
4. 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 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 ¼ to 1 (¼ horizontal and 1vertical).
5. 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

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scaffolding or staging shall be so fastened as to prevent it from swaying from the building or structure.

6. 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.
7. 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 1meter.
8. Safe means of access shall be provided to all working platform and other working places. Every ladder shall be securely fixed. No portable single ladder shall be over 9 Meters in length while the width between side rails in rung ladder shall in no case be less than 30cms for ladder up to and including Meters in length. For longer ladders this width should be increased at least 6mm for each additional 30cms. Uniform step spacing shall not exceed30cms.
9. Adequate precautions shall be taken to prevent danger from electrical equipments. For electrical on line work gloves, rubber mats, and rubber shoes shall be used.
10. 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 1Meter 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.
11. Before any demolition work is commenced and also during the process of the work:-
 - a) All roads and open areas adjacent to the work site shall either be closed or suitably protected;
 - b) No electrical cable or apparatus which is liable to be a source of danger over a cable or apparatus used by the operator shall remain electrically charged.
 - c) All practical steps shall be taken to prevent danger to persons employed from risk of fire or explosion or flooding. No floor, roof or other part of the building shall be so over-loaded with debris or materials as to render it unsafe.
 - d) All necessary personal safety equipment as considered adequate by the site Engineer should be kept available for the use of the persons employed on the site and maintained in a condition suitable for immediate use; and the contractor should take adequate steps to ensure proper use of equipment by those concerned.
 - e) Workers employed on mixing Asphaltic materials, Cement and lime mortars shall be provided with protective footwear and protective goggles.
 - f) Those engaged in white washing and mixing or stacking of cement bags or any material which is injurious to the eyes shall be provided with protective goggles.
 - g) Those engaged in welding works shall be provided with Welder's protective eye-shields.
 - h) Stone breakers shall be provided with protective goggles and protective clothing and seated at sufficiently safe intervals.
 - i) When workers are employed in sewers and manholes, which are in use, the contractor shall ensure that the manhole covers are opened and are ventilated at least for an hour before the workers are allowed to get into the manholes so opened shall be cordoned off with suitable

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railing and provided with warning signals and boards to prevent accident to the public.

12. 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 conductor so electricity.

13. 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.

14. (i) These and all other necessary safety provisions should be brought to the notice of all concerned by display on a notice board at a prominent place at work spot. The person responsible for compliance of the safety code shall be named therein by the contractor.

- ii) Notwithstanding the above clauses, there is nothing in these to exempt the contractor from the operations of any other Act or rule in force in the Republic of India.

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46.0 Accidents

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

Signature of Contractor & Seal

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SPECIAL CONDITIONS OF CONTRACT

1.0 Scope of Work

The scope of work is to carry out **TENDER DOCUMENT FOR FIRE FIGHTING SPRINKLER WORK AT SBI, 5TH FLOOR, LOCAL HEAD OFFICE BUILDING BHOPAL M.P..**

2.0 Address of Site

The site is located at ***Existing Premises of SBI LHO BUILDING 5TH FLOOR BHOPAL M.P.***

3.0 Dimension and Levels

All dimensions and levels shown on the drawing shall be verified by the contractor on the site and he will be held responsible for the accuracy and maintenance of the entire dimension and the levels. Figured dimensions are in all cases to be accepted and no dimension shall be scaled. Large-scale details shall take precedence over small – scale drawing. In case of discrepancy the contractor shall ask for clarification from the Architect/ Bank Engineer before proceeding with the work.

4.0 Notice of Operation

The contractor shall not carryout any important operation without the consent in writing from the Architect/ Bank Engineer.

5.0 Construction Records

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

6.0 Safety of adjacent Structures and Trees

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

7.0 Temporary Works

Before any temporary works are commenced, the contractor shall submit at least 7 days in advance to the Architect/ Bank Engineer for approval complete drawings of all temporary works he may require for the execution of the works. The contractor shall carry out the modifications relating to strength, if required by the Architect/ Bank Engineer may require in accordance with the conditions of contract at his own cost. The contractor shall be solely responsible for the stability and safety of all temporary works an unfinished works and for the quality of the permanent works resulting from the arrangement eventually adopted for their execution.

8.0 Temporary Roads

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

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9.0 Water, Power and Other Facilities

The rate quoted by the contractor shall include all expenses that are required for providing all the water required for the work and the contractor shall make his own arrangements for the supply of good quality water suitable for the construction and good quality drinking water for their workers. If necessary, the contractor has to sink a tube well / open well and bring water by means of tankers at his own cost for the purpose. The SBI will not be liable to pay any charges in connection with the above.

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

The contractors for other trades directly appointed by the SBI shall be entitled to take power and water connections from the temporary water and power supply obtained by the contractor. However, the concerned contractor shall make their own arrangements to draw the supply and pay directly the actual consumption charges at mutually agreed rates between them. All municipal charges for drainage and water connection for construction purposes shall be borne by the contractor and charges payable for permanent connections, if any, shall be initially paid by the contractor and the SBI will reimburse the amount on production of receipts.

- a) The SBI as well as the Architect / Consultant shall give all possible assistance to the contractors to obtain the requisite.
- b) Permission from the various authorities, but the responsibility for obtaining the same in time shall be of the contractor.

10.0 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 own cost after getting the approval from the architect / consultant.
- b) 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.

All the expenses for obtaining statutory approvals and maintenance of the above facilities as well as running expense 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.

11.0 Facilities for Contractors' 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 his arrangements at his own cost for transport where necessary for his staff and workmen to and from site of work at his own cost.

12.0 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 works.

13.0 Fire Fighting Arrangements

- i) The contractor shall at all times provide suitable arrangements for the firefighting at his own cost. For this purpose he shall provide requisite number of fire extinguishers and adequate number of buckets, some of which are to be always kept filled with sand and some with water.

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These equipments shall be provided at suitable prominent and easily accessible places and shall be properly maintained.

- ii) Any deficiency in the fire safety or unsafe conditions shall be corrected 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 :
 - a) Proper handling, storage and disposal of combustible materials and waste.
 - b) Worked operations which can create fire hazards.
 - c) Access for the firefighting equipment's.
 - d) Types, number and location of containers for the removal of surplus materials and rubbish.
 - e) Type size, number and location of fire extinguishers or other fire fighting equipment.
 - f) General house keeping.

14.0 Site Order Book

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

15.0 Site Meetings

Site meetings will be held to review the progress and quality evaluation. The contractors shall depute a senior representative along with the site representative 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/ Bank Engineer.

16.0 Disposal of Refuse

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

17.0 Contractor to Verify Site Measurement

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

18.0 Displaying the Name of the Work

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

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19.0 Bar Bending Schedule

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

20.0 As Built Drawings

- i) For the drawing issued to the contractor by the Architect/Consultant. The Architect / Consultant will issue two sets of drawings to the contractor for the item 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/ Bank Engineer for their approval. In case any revision is required or the corrections are not properly marked the Architect/ Bank Engineer 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/ Bank Engineer and resubmit to him for approval. The Architect / Consultant will return one copy duly approved by him.
- ii) For the drawings prepared by the Contractor, the Contractor will modify the drawing prepared by him wherever the changes are made by the SBI Architect/ Bank Engineer. And submit two copies of such modified drawings to the Architect/ Bank Engineer for approval. The Architect/ Bank Engineer will return one copy of the approved drawing to the Contractor.

21.0 Approved Make

The Contractor shall provide all materials from the list of approved makes at his own cost. The Architect/ Bank Engineer may approve any make / agency within the approved list as given in the tender after inspection of the sample / mock up.

22.0 Procurement of Materials

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

23.0 Excise Duty, Taxes, Levies etc.

The contractors shall pay and be responsible for payment of all taxes except GST, duties, levies, royalties, fees cess, or charges in respect of the works including but not limited to sales tax, tax on works contract excise duty, and octroi, payable in respect of materials, equipments plant and other things required for the contract. All of the aforesaid taxes except GST, duties, levies, fees and charges shall be to the contractors account and the SBI shall not be required to pay any additional or extra amount on this account. Variation of taxes, duty fees, levies etc if any, till completion of work shall be deemed to be included in the quoted in the quoted rates and no extra amount on this account. Variation of taxes, duties, fees, levies, etc if any till completion of work shall be deemed to be included in the quoted rates and no extra claim on this account will in any case be entertained. If a new tax or duty or levy or cess or royalty or octroi is imposed under as statute or law during the currency of contract the same shall be borne by the contractor.

24.0 Acceptance of Tender

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

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25.0 Defects after Virtual completion and defects liability period:

Any defect shrinkage, settlement or other faults which may appear within the "Defects Liability Period" which shall be as per NIT from the date of the virtual completion of the work, arising in the opinion of the Architect from materials or workmanship not in accordance with the contract, shall upon the direction in writing of the Architect , and within such reasonable time as shall be specified therein, be amended and made good by the contractor, at his own cost and in case of default then Bank may employ and pay other person /agency to amend and make good such defects, shrinkage, settlement or other faults, and all damages, loss, and expenses consequent thereon or incidental thereto shall be made good and borne by the contractor and such damage, loss and expenses shall be recoverable from him by the Bank or may be deducted by the Bank, upon the Architect's certificate in writing, from any money due or may be deducted by the Bank, upon the Architect's certificate in writing, from any money due or that may become due to the contractor, or the bank may in lieu of such amending and marking good by the contractor deduct from any money due to the contractor a sum, to be determined by the Architect equivalent to the cost of amending such work and in the event of the amount retained under clause of GCC, hereof being insufficient, recover the balance from the contractor, together with any expenses the Bank may have incurred in connection therewith. Should any defective work.

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GENERAL SAFETY CODE

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

Scaffolds

i) Suitable scaffolds i.e Steel tubular scaffolds shall be provided for workmen for all works that cannot safely be done from the ground, or from solid construction except in the case of short duration work which can be done safely from ladders. When a ladder is used, it shall be of rigid construction made either of good quality wood or steel. The steps shall have a minimum width of 450 mm and a maximum rise of 300 mm. Suitable hand holds of good quality wood or steel shall be provided and the ladder shall be given an inclination not steeper than 1/4 to 1(1/4 horizontal and 1 vertical).

ii) Scaffolding or staging more than 4 m. above the ground floor, swung or suspended from an overhead support or erected with stationary support shall have a guard rail properly bolted, braced

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or otherwise secured, at least 1 m. above the floor or platform of such scaffolding or staging and extending along the entire length of the outside and ends thereof with only such openings as may be necessary for the delivery of materials. Such scaffolding or staging shall be so fastened as to prevent it from swaying from the building or structure.

iii) Working platforms, gangways and stairways shall be so constructed that they do not sag unduly or unequally and if the height of the platform, gangway or stairway is more than 4 m. above ground level or floor level, they shall be closely boarded and shall have adequate width and be suitably fenced as described in (ii) above.

iv) Every opening in the floor of a building or in a working platform shall be provided with suitable means to prevent the fall of Persons or materials by providing suitable fencing or railing whose minimum height shall be 1.0 m. Wherever there are open excavations in ground, they shall be fenced off by suitable railing and danger signals installed at night so as to prevent persons slipping into the excavations.

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

vi) A sketch of the ladders and scaffolds proposed to be used shall be prepared and approval of the Engineer obtained prior to construction.

Other Safety Measures

vii) All personnel of the contractor working within the plant site shall be provided with safety helmets. All welders shall wear welding goggles while doing welding work and all metal workers shall be provided with safety gloves. Persons employed on metal cutting and grinding shall wear safety glasses.

viii) Adequate precautions shall be taken to prevent danger from electrical equipment. No materials on any of the sites of work shall be so stacked or placed as to cause danger or inconvenience to any person or the public.

Excavation & Trenching

ix) All trenches, 1.25 m. or more in depth shall at all times be supplied with at least one ladder for each 30 m. in length or fraction thereof. The ladder shall be extended from bottoms of the trench to at least 1.0 m. above the surface of the ground. Sides of trenches which are 1.5 m. or more in depth shall be stepped back to give suitable slope or securely held by timber bracing so as to avoid the danger of sides collapsing. The excavated materials shall not be placed within 1.5 m. of the edges of the trench or half of the depth of the trench whichever is more. Cutting shall be done from top to bottom. Under no circumstances undermining or undercutting shall be done.

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

Demolition

xi) Before any demolition work is commenced and also during the process of the work:

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a) All roads and open areas adjacent to the work site shall either be closed or suitably protected.

b) No electric cable or apparatus which is liable to be a source of danger over a cable or apparatus used by the operator shall remain electrically charged. All practical steps shall be taken to prevent danger to persons employed from the risk of fire or explosion or flooding. No floor, roof or other part of the building shall be so overloaded with debris or materials as to render it unsafe.

Personal Safety Equipments

xii) All necessary personal safety equipment as considered adequate by the Engineer should be kept available for the use of the person employed on the site and maintained in a condition suitable for immediate use, and the contractor should take adequate steps to ensure proper use of equipment by those concerned.

a) Workers employed on mixing asphaltting materials, cement and lime mortars shall be provided with protective footwear and protective goggles.

b) Those engaged in white washing and mixing or stacking of cement bags or any material which is injurious to the eyes shall be provided with protective goggles.

c) Those engaged in welding works shall be provided with welder's protective eyesight lids.

d) Stone breakers shall be provided with protective goggles and protective clothing and seated at sufficiently safe intervals.

e) When workers are employed in sewers and manholes, which are in use, the contractor shall ensure that the manhole covers are opened and are ventilated at least for an hour before the workers are allowed to get into manholes and the manholes so opened shall be cordoned off with suitable railing and provided with warning signals or boards to prevent accident to the public.

f) The contractor shall not employ men below the age of 18 years and women, on the work of painting with products containing lead or any toxic material in any form. Wherever men above the age of 18 are employed on the work of such painting the following precautions should be taken:

i) No paint containing lead or lead products shall be used except in the form of paste or reaASST made paint. Paints like vinyle and epoxies having toxic fumes should be applied after following all precautions laid down by manufacturers.

ii) Suitable face masks should be supplied for use by the workers when paint is applied in the form of spray or a surface having lead paint dry rubbed and scrapped.

iii) Overalls shall be supplied by the contractor to the workmen and adequate facilities shall be provided to enable the working painters to wash during the cessation of work.

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

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Hoisting Machines

xiv) Use of hoisting machines and tackle including their attachments anchorage and supports shall conform to the following standards or conditions:

1.a) These shall be of good mechanical constructions sound material and adequate strength and free from patent defect and shall be kept in good repair and in good working order.

b) Every rope used in hoisting or lowering materials or as means of suspension shall be of durable quality and adequate strength and free from patent defects.

2. Every crane driver or hoisting appliance operator shall be properly qualified and no person under the age of 21 years shall be in charge of any hoisting machine including any scaffolding winch or give signals to operator.

3. In case of every hoisting machine and of every chain ring hook, shackle shovel and pulley block used in hoisting or as means of suspension the safe working load shall be ascertained by adequate means. Every hoisting machine and all gear referred to above shall be plainly marked with the safe working load. In case of a hoisting machine having a variable safe working load, each safe working load and the. Conditions under which it is applicable shall be clearly indicated. No part of any machine or any gear referred to above in this paragraph shall be loaded beyond the safe working load except for the purpose of testing.

4. In case of departmental machines, the safe working load shall be notified by the Engineer. As regards contractor's machine, the contractor shall notify the safe working load of the machine to the Engineer whenever he brings any machinery to site of work and get it verified by the Engineer concerned.

xv) Motors, 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 of the risk of any part of a suspended load becoming accidentally displaced. When workers are employed on electrical installations 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

xvi) 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 should be provided at or near places of work.

xvii) These safety provisions should be brought to the notice of all concerned by display on a notice board at a prominent place at work spot. The person responsible for compliance of the safety code shall be named therein by the contractor.

xviii) To ensure effective enforcement of the rules and regulations relating to safety precautions the arrangements made by the contractor shall be open to inspection by the Labour Officer, Engineers of the Department or their representatives.

xix) Workers handling construction chemicals shall be provided with safety equipments like, over gowns, hand gloves, goggles etc. as per the precautions prescribed by the construction chemical manufacturer.

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

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PROFORMA FOR REGISTER OF MATERIAL AT SITE ACCOUNT

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

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

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PROFORMA FOR REGISTER OF MATERIAL AT SITE ACCOUNT

Name of Work :

Name of Contractor :

Agreement No. :

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

PROFORMA FOR HINDRANCE TO WORK

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Name of Work :

Date of Start of work :

Name of Contractor :

Period of Completion :

Agreement No. :

Dt. of Completion of work :

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

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PROFORMA FOR RUNNING A/C BILL

- i. Name of Contractor / Agency :
ii. Name of Work :
iii. Sl.No. of this Bill :
iv. No. & Date of previous Bill :
v. Reference to Agreement No. :
vi. Date of Written order to commence :
vii. Date of Completion as per Agreement :

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

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

Note: 1. If part rate is allowed for any items, it _____ should be indicated with reasons for _____ allowing such a rate. Net Value since previous bill
2. If ad-hoc payment is made, it should be mentioned specifically.

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CERTIFICATE

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

Signature and
date of Contractor

Signature and
date of Architects
Representative (Seal)

Signature and
date of Site
Engineer

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

Architect

Signature and date of Site Engineer

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ADDITIONAL CONDITIONS OF CONTRACT

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

1.0 PRICE VARIATION ADJUSTMENT(PVA):

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

2.0 WORKING SCHEDULE / BARCHART:

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

3.0 RATES:

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

4.0 BASIC RATE:

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

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

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

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5.0 BRANDED / FINISHING ITEMS:

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

6.0 INSURANCE

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

7.0 SITE CONDITION & WORKINGHOURS.

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

Height of internal spaces of the branch is higher than normal structures. Average height of internal spaces of the structure in approx. 6 to 6.5 mts for hall and approx. 4.5 mts for rooms. The tenderer should examine all the existing site condition before quoting the rates. All the quoted rates are inclusive of required scaffolding works, lifting of material, carriage etc. Temporary barricade & partitions/screens to be provided by contractor to safeguard bank users from proposed construction activities (for dust, noise, material fall etc.) with out any extra cost.

The Lift shall not be used by Contractor for any purpose.

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

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

8.0 GENERAL:

- (i) Source of materials / samples / brands / makes etc. shall be got approved from the Architects /Bank before using. In case of deviations, decision of the Bank shall be final and binding and shall not be open for arbitration.
- (ii) The Architects have their specific role/duties/rights as defined in these tender documents

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However in the event of any dispute arising out of differences between the opinions of the Architects and also their role/duties/rights, the Banks' decision shall be final & binding on the Architects and the Contractor and shall not be open to arbitration.

- (vi) Any item mentioned in the BOQ with "TO THE SHAPE" will have measurement of onsite executed to the shape area only.
- (vii) The contractor's qualified & authorized representative shall remain on site during the entire execution process for coordination with various agencies/ Architect/Bank & execution of work.
- (viii) Hidden measurement. It is contractor's responsibility to get the measurement checked immediately on completion of such items. This shall be done before finishing the same & before ceiling boarding done. The Architect shall be provided with such details well in advance so that the other work is not held up due to last moment action.
- (ix) MTC (Manufacturer Test certificate) Wherever applicable shall be arranged & submitted by the contractor.
- (x) Water & Electricity, if available, shall be provided by the Bank at one point without any charges. However, if the water & electricity could not be provided by the Bank, the same shall be arranged by the contractor at their own cost within the quoted/accepted rate. Nothing extra shall be paid by the Bank on account of not providing the water & Electricity.
- (XI) Wherever the specifications are not specified in details the work shall be carried out as per CPWD specifications or Manufacturer's instructions or architects instructions depending upon the site conditions as directed by the Bank/Architects.
- (XII) The contractor shall produce the bills / challans / documentary evidences and proof in respect of genuineness of materials used by him when so ever asked/demanded by the Architects/Bank.

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TECHNICAL SPECIFICATIONS

1. Scope

The contractor shall be responsible for the supply of materials as defined in the Schedule of Quantity and Unit Rates, as well as Installation, testing and commissioning, for all the Equipment described in Schedule of Quantities. This work shall be carried out in accordance with the regulations of local codes, if any, and following specification and codes which may govern the requirement of materials and equipment supplied and fire protection Manual and rules for alarm installations of Tariff advisory committee of Fire Insurance Association of India.

The work of the Contractor shall include, but not necessarily be limited to the following activities so as to ensure that the entire installation is not only in accordance with the designs and drawings, but also complies with the statutory requirement, including reliability and safety aspects.

The activities of the contractor, to name a few, shall cover the following:

- a) Supply of materials as per the schedule given, including any material/item deemed part of the main equipment.
- b) Trial run, Pre-commissioning, Tests, Testing and Commissioning.
- c) Handing over, after demonstrating the satisfactory performance and/or operation of the Equipment installed by him, including such interphases / interactions which the equipment will have, with respects to others though not specifically included in the Contractor's scope of supply.
- d) A set of 'As-built' drawings, Instruction Manual.

2. Construction Facilities & Power Supply

230V / 415V, 1 phase / 3 Phase 50HZ AC supply may be made available to the contractor at one point. Water supply will be made available at one point within the site free of cost. However, distribution for same (for electric power & water) will have to be arranged the contractor.

The contractor shall ensure that the work pertaining to water and electricity connections are carried out strictly in accordance with the current regulations required by the relevant authorities or any other statutory requirements.

It shall be entirely the contractor's responsibility to provide all type of construction /erection equipment, transformer, welding sets, derricks, cranes, chain pulley blocks, jacks, scaffolding materials, tarpaulins, tools & tackles, etc. as well as all handling and transporting facilities. The

Employer/Owner has no obligation to provide construction/erection equipment to the Contractor.

A space (open space) will be provided at site for storage of materials and for site office. The Contractor has to make his own arrangement of temporary shed for safe keeping of his own materials.

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Power supply system

Design of the underwater lighting system shall be such as to provide facilities to simplify inspection, testing, maintenance, cleaning and general repair at site.

3. a) Drawing /Specifications

The drawings/ specifications and bill of quantities shall be considered as a part of this contract. However, any minor change, if found, essential to co-ordinate the installation of this work with other traders shall be made without any additional cost to the owners. The exact location, distance and levels, etc. will be governed by the space conditions. Generally, works to be carried out as per BIS standard and applicable IS codes are listed below:

Design Confirmation: Generally works to be carried out as per BIS standard and applicable and National Building Code of India (NBC), some of the IS codes are listed below:

- a) IS: 15105: Design, installation and maintenance of fixed automatic sprinkler fire extinguishing systems.
- b) IS: 884-1995: Specification for first Aid Hose Reel for Fire Fighting.
- c) IS: 901-1988: Specification for couplings, double male and double female, instantaneous Pattern, for firefighting purposes (revised).
- d) IS: 902-1992: Specification for suction hose couplings for firefighting purposes (revised).
- e) IS: 903-1993: Specification for fire hose delivery couplings, branch. Pipe, nozzle and nozzle Spanner (revised).
- f) IS: 904-1983: Specification for two-way and three-way suction collecting heads for firefighting Purposes (revised).
- g) IS: 905-1980: Specification for delivery breaching, dividing and collecting, instantaneous Pattern, for firefighting purposes (revised).
- h) IS: 906-1992: Specification for branch with revolving head for firefighting purposes (revised).
- i) IS: 907-1984: Specification for suction strainers, cylindrical and hose types for firefighting Purposes (revised).
- j) IS: 908-1975: Specification for fire hydrant, stand post type (revised).
- k) IS: 909-1992: Specification for underground fire hydrant, sluice valve type 30 (revised).
- l) IS: 910-1980: Specification for combined key for hydrant, hydrant cover and valve.
- m) IS: 936-1966: Specification for underground fire hydrant, double-valve type (revised).
- n) IS: 937 -1981: Specification for washers for water fittings for firefighting purposes (revised).
- o) IS: 1641-1988: Code of practice for fire safety of buildings (general): General principles and fire grading.
- p) IS: 1642-1989: Code of practice for fire safety of buildings (general): Materials and details of Construction.
- q) IS: 1646-1982: Code of practice for fire safety of buildings (general): Electrical installation.
- r) IS: 2871-1983: Specification for branch pipe, universal, for firefighting purposes.
- s) IS: 3582-1991: Specification for basket strainers for firefighting purposes (cylindrical type).

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- t) IS: 3844-1989: Code of practice for installation of internal fire hydrants in i multi-storey buildings.
- u) IS: 5290-1993: Specification for landing valves.
- v) IS: 1239 : Providing, fixing, testing and commissioning of Above Ground M.S. ERW Black C Class Heavy duty pipes (up to 150 mm dia.) and
- w) IS: 3589 : providing, fixing, testing and commissioning of Above Ground M.S. ERW Black C Class Heavy duty pipes (up to 200 mm dia. And above)

Specification for landing - All the pipes and fittings used for Fire fighting piping shall be ISI marked and shall be installed strictly in compliance with the IS specifications as mentioned below:

IS : 1239(Part -I) 1979 for piping IS : 1239(part-II) for pipe fittings IS:5 for paint shades IS 13095/BS 5155 for Isolating valves

b) Shop Drawings

Contractor shall visit site and shall prepare and submit detailed shop drawings of all equipment control panels, piping and conduiting, cabinets and special pull boxes, to the Bank within 10 days of signing of the contract or days of start of particular work, whichever is earlier.

c) Completion Drawings

At the completion of the work and before issuing of certificate of 'Virtual Completion, the contractor shall submit to the Owner, layout drawings drawn at approved scale indicating the complete details as installed, in 3 sets of Blue Prints as well as the originals, along with soft copies of Drawings in Autocad /PDF format".

4. Foreman/Supervisor

The contractor shall employ a competent, licensed, qualified, full time electrical foreman/supervisor for the work of fire protection work installations in accordance with the drawings / specifications.

The foreman/supervisor shall be available at all times on the site to receive instructions from the Engineer in the day to day activities throughout the duration of the contract. The foreman/supervisor shall correlate the progress of the work in conjunction with all the relevant requirement of the local authorities. The skilled workers employed for the work should have requisite qualifications and should possess competency certificate.

5. Inspection and Testing

Contractor shall employ a full time qualified Engineer who shall be available at all working hours at site for taking instruction and to look after the quality of the work.

Contractor shall maintain at site the following tools and instruments, but not limited to the list below, in working condition:

- a) Vernier caliper, Micrometer,
- b) Steel tapes of various lengths,

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- c) Hydraulic test machine, hand pump, pressure gauges etc.
- d) Hydraulic crimping tool,
- e) Earth testing megger,
- g) Pipe bending tool, thread cutting die, bench vice etc.
- h) Cable jointing kit,
- i) 1000 V Megger.

6. Clearance From local Authorities

After completing the proposed works in this tender, it would be the whole responsibility of the contractor to get the entire system should be approved by Local Authorities.

7. Painting

A. All above ground pipes, pipe fittings, hose cabinets, structural steel work, pipe supports etc. shall be painted as per specifications given below.

- (i) Painting shall be done only after the completion of fabrication work and testing.
- (ii) The instructions of paint manufacturer shall be followed as far as possible otherwise the work is to be done as directed by the Employer.
- (iii) All cleaning materials, brushes, tools and tackles, painting, material etc. shall be arranged by the Contractor at site in sufficient quantity.
- (iv) All rust, dust shall scales, welding slag or any other foreign materials shall be removed fully so that a clean and dry surface is obtained prior to painting. Any other oily containment shall be removed by use of a solvent prior to surface cleaning.
- (v) First coat of Zinc rich Metal primer paint must be applied by brush on dry clean surface immediately or in any case within 3 hours of such cleaning (avoid areas where cutting and welding are required).
- (vi) After fabrication and erection, the affected areas of pipe work should be immediately cleaned properly to remove dust, rest, welding flex and any other foreign matters, preferably by mechanical buffing and apply one touch up coat of Zinc rich primer. The toatal MS pipe work after fabrication and erection, are to be painted with 2nd coat of Zinc Rich primer.
- (vii) Piping work abovbe ground shall be protected with 2 coats of approved make Fire red Enamel paint (shade no. 536 as per IS:5).
- (viii) The protective paints used shall be compatible, each other.
- (ix) The protection system shall be carried out as per Bank's Engineer/ consultant instructions and as per paint manufacture's recommendations.

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B. COATING WRAPPING FOR UNDERGROUND PIPES

All underground piping shall be protected by coating and wrapping as per the following procedure.

- (i) The materials and workmanship shall in general confirm to IS: 10221, 1982 or as directed by the Owner.
- (ii) Cleaning – The pipes shall be thoroughly cleaned by dust, rust, scales, oil, grease etc. by stiff wire brush and scrapers. The surface shall be coated with the primer immediately after cleaning.
- (iii) Priming – The primer shall be PYPKOTE/MAKEPOLYKOTE/CORPORATE undercoat. The manufacturer's recommended procedure would be followed for applying the primer.
- (iv) Paste Application – PYPKOTE-AW Paste/RUSTFIRE Paste/CORPORATE Paste shall be applied to fill up uneven surfaces in order to ensure smoothness for subsequent wrapping with multi-layer tape.
- (v) Tape Wrapping - The tape is to be wrapped while the second coat of primer is still tacky. Winding is to be done with 50% overlap so that the total thickness of 2.0mm tape would become 4.0mm. It should be ensured while wrapping that air bubbles are not trapped. The ends of tape shall be secured with nylon binding to ensure that the tape doesn't get loosened while handling.
- (vi) The total thickness including 2 coats of primer, 50% overlap of tape etc. should not be less than 4.5mm or as per manufacturer recommendations.
- (vii) The 'Holiday Test' is to be conducted as per IS: 10221 for detecting any entrapped air or any other defect. The Contractor is to arrange for the Holiday Test and to rectify the defects if found any.

8. Guarantee

The contractor shall guarantee that all the materials and workmanship of the entire system are of the first class quality. All the equipment/apparatus shall be guaranteed. Defective equipment/material/workmanship found short of the specified quality shall be rejected.

9. Defects and Liability

All the equipment/material and the system shall be guaranteed against defective material and workmanship for a period of 12 months from the date of commissioning and handing over to the Bank along with all relevant documentation i.e. Virtual completion of the work. The contractor shall repair/rectify or replace all the defective materials, components free of cost during the guarantee period. In addition, normal maintenance shall be carried out periodically during the defects liability period including replacement of spares, as required.

10. Instructions Manual/ Completion Drawing/Training

Contractor shall furnish detailed instructions and operation manual in duplicate. The contractor shall also furnish detailed completion drawings to an approved scale. The drawings shall be inclusive of control schematics, if any. The contractor shall train the owner's personnel in the operation of maintenance of the system.

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11. Testing

The contractor shall arrange to test the entire system as per the procedures enumerated under particular specifications, after the erection is completed. If the results of the test are not found to be satisfactory by the Engineer-in charge, necessary rectification shall be done until the test results are found to be satisfactory. The installation shall be deemed to be completed only after the successful completion of the tests.

A. SRINKLER SYSTEM

1. Scope of Work

1.1 Work under this section shall consist of furnishing all labour, materials, equipments and appliances necessary and required for complete installation of firefighting sprinkler system as specified in the schedule of quantities.

1.2 Sprinkler system shall be installed, tested, commissioned and maintained as per all prevailing rules and regulations and according to the guidelines of local fire Authorities. The contractor shall submit and get all the detailed drawings, specifications and technical details of all the components of the proposed Sprinkler system to the Bank's Engineer before commencing fabrication.

1.3 Sprinkler system shall comprise of piping system, valves, isolating valves, Non return valves, Air release valves, drain valves etc. with automatic pressurized Sprinkler system, as detailed in the drawings.

2. General Requirements

2.1 All materials shall be of the best quality conforming to specifications and subject to the approval of the Engineer/ Consultant.

2.2 Pipe and Fittings shall be fixed truly vertical, horizontal or in slopes as required in a neat workman like manner.

2.3 Pipes shall be fixed in a manner as to provide easy accessibility for repair and maintenance and shall not cause obstruction in shafts, passages etc.

2.4 Pipes shall be securely fixed to Brick/RCC walls and ceilings by suitable clamps at intervals specified. Only approved type of anchor fasteners shall be used.

2.5 Valves and other appurtenances shall be so located that they are easily accessible for operations, repairs and maintenance.

3. Pipes & Fittings specifications

3.1 Pipes for underground header shall be M.S black conforming to IS (Heavy class) duly wrapped and coated as per IS: 10221 with flanged/welded joints. Flanges shall be provided at regular intervals not exceeding 12M

3.2 Pipes for Risers and header running inside the building shall be M.S black conforming to IS (Heavy class) with screwed/ welded joints having flanges at regular intervals not exceeding 12M.

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3.3 Pipe Installation work: Normal method statement to be followed for piping installation like cleaning of pipes, Painting, welding, Insulation, Pressure testing, Pipe flushing. After each step the approval should be taken from Site in Charge.

Piping installation work for Sprinkler system shall be done as per relevant Indian Standards and to the complete satisfaction of the Bank's Engineer/consultant.

The joints to be welded shall be cleaned properly and ensure that such joints are totally free from dust rust etc. Welding work shall be done by qualified and certified welders only. 10% of all the welded joints shall be radio graphically tested by the contractor. Rectifications of all defective welding joints and re-testing of such joints shall also be on Contractors account. Holes in pipes shall be done by core cutting machine or by gas cutter. Use of welding machine for making holes are prohibited.

Joining of pipes should be provided with 'V' notch at the end for strength and quality. Tapping should be with notch type fittings. Welding gap should not be above 3mm.

Pipe work shall be fixed in a neat manner as to provide easy accessibility for repair and maintenance and shall not cause obstruction in shafts, passage etc. the vertical risers shall be parallel to walls and columns and shall be straight and plumb.

The supports of pipes should be well pointed on all side, dropout type anchor fastners to be used for thread rod filling. Sample pull out test to be carried out. Expansion joints, where required, shall be provided to control expansion and contraction of pipe work.

Isolating valves and other appurtenances shall be installed at easily accessible locations with access doors/manholes covers etc. for emergency operations, repairs and maintenance.

All pipe work shall be carried out with minimum disturbance to the other services, existing services, building, roads and other structures.

4. Pipe joining details

4.1 All pipes and fittings used for fire fighting shall be MS 'C' class (Heavy duty) grade and shall include Elbows, Tees, Reducers, Reducers Tees, Sockets, Flanges, Unions etc. provided as per site conditions. Fittings for pipes up to 50 mm shall be heavy duty forged mild steel Socket welded and Joints with M.S pipe of above size 50mm and above shall be either screwed or butt welded with flanges at regular intervals. The welded joints should be good enough to withstand the specified hydrostatic pressure rating. All flanges shall confirm to IS: 6392-1971.

5. Excavation

5.1 Excavation for underground pipe lines shall be in open trenches to levels and grades shown on the drawings or as required at site. Pipe lines shall be buried to a minimum depth of 1.00m.

5.2 Wherever required, Contractor shall support all trenches of adjoining structures with adequate timber supports.

5.3 On completion of testing, coating and wrapping, trenches shall be refilled with excavated earth in 15 cms layers and consolidated to re-store ground condition to original status. Prior to excavation, contractor to ensure that no adjoining structure or pipe line is affected / damaged.

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5.4 Contractor shall dispose-off all surplus earth out of the Bank's premises or as directed by Engineer.

6. Non Return Valves:

Non return valves for fire lines shall be hydraulically engineered, tight shut off, self acting, water type swing check valves, confirming to IS 13095.

7. Hydrant Valves (Landing Valves)

Landing valves shall be 63 mm dia. oblique female instantaneous single outlet pattern, 75 mm N.B. flanged inlet, brass spindle, cast iron hand wheel and complete with ABS blank cap and G.I. chain, bearing IS 5290 mark and having TAC approval.

Landing valves shall be installed on hydrant level. The landing valves shall be connected to the wet riser stand pipes by means of a suitable tee, the cost of which is deemed to be included in the unit rate for piping.

8. Hose Reel & coupling:

Fire Hose reel shall conform to IS 636:88 in all respects, with 63 mm internal dia. rubberized fabric reinforced rubber lined (RRL) hose jacketed with circular woven synthetic fibre. The RRL hose shall be with working pressure 12kg/sq.cm, proof pressure 22kg/sqcm and Burst pressure 38kg/sqcm. The hose shall be with IS 636:88 Type-A marking and 30 meters in length.

Fire hose coupling shall be gunmetal, heavy duty, confirming to IS 903:1993, with 63 mm dia. pair of male and female instantaneous couplings, having IS 903 mark and duly S.S. wounded.

Fire branch pipe shall be gunmetal, confirming to IS 903: 1993, with 63 mm dia. male instantaneous inlet, threaded outlet, fitted with 15 mm bore nozzle, having IS 903 mark and TAC approval.

9. Air Vessel/Air Cushion Tanks

15.1. An Air Vessel of suitable size and capacity indicated in schedule of quantities shall be provided.

15.2. Air Cushion tank shall be provided as per schedule of quantity and measured by numbers and shall include Air Valve, Pressure Gauge, globe valves of suitable size for testing and draining, M.

S. Clamps, Pipes, Fittings, Tees, Elbows, Union and all other items required to complete the work.

10. Pipe Protection

10.1 All pipes above ground and in exposed locations shall be painted with one coat of red oxide primer and two or more coats of synthetic enamel paint of approved shade and make. All underground M.S. Pipes must be protected with anti-corrosive treatment as per IS:10221 to the satisfaction of Engineer-in-charge and wrapping of pre-laminated self-adhesive composite sheets of polyethylene and bitumen similar to PYPKOTE shall be acceptable as corrosive treatment for underground piping.

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11. Pipe Supports

All pipes shall be adequately supported at a maximum interval of 3 M from ceiling/walls from existing inserts, if available, by structural clamps fabricated from M.S. Structural e.g. Rods, Channels, Angles and Flats. All clamps shall be painted with one coat of red lead and two coats of black enamel paint. Where inserts are not provided, the contractor shall provide anchor fasteners. The design of all supports/clamps must be got approved from the Engineer-in-charge before execution.

12. Testing

12.1 All piping in the system shall be tested to a Hydrostatic Pressure of 15 Kg./sq.cm or twice the design pressure (whichever is higher) without drop in pressure for at least 2 Hours and there after the whole system shall be hydraulically tested at 3.5 Kg./sq.cm above the pump shutoff pressure or 11 Kg./sq.cm whichever is higher for 24 hours without any drop in pressure.

12.2 All the tests and inspection procedures as per the all the component manufacturer's specifications and standards shall be carried out by the Contractor as part of installation work prior to commissioning of the system. If the Bank's Engineer or Consultant may ask for additional tests to determine that the installed equipment complies with the specifications, the contractor shall carry out these additional tests also without extra cost.

12.3 The Contractor shall rectify leakages, if any, and replace all defective components and retest the system as per above requirements to the satisfaction of Engineer-in-charge.

13. Measurements

13.1 Pipes shall be measured by linear metre and shall include all fittings, flanges, jointing, clamps, hangers and all other material necessary and required (whether specified or not) to complete the system including painting, testing and commissioning.

13.2 Valves shall be measured by numbers and shall include matching flanges, rubber gaskets, bolts, nuts, washers and all items necessary and required and as given in the specifications to complete the work to the satisfaction of Engineer-in-charge.

13.3 No additional payment shall be admissible for cutting holes or chases in walls or floors or columns/ underground /overhead tanks etc. and making good the same to the satisfaction of Engineer-in-charge and making connections to pumps, various equipments and appliances or for making channels/trenches to complete the work.

B. PUMPS. MOTORS. CONTROLS AND ALLIED ELECTRICAL WORKS

1.0 Pumps

1.1 GENERAL

a) Pumps required for water circulation shall be of capacities indicated in the schedule of equipment. Pumps shall be of horizontal, enclosed impeller, centrifugal type. The construction of the pumps shall be as follows:

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No.	Description	Material / Type of Construction
1	Pump	Horizontal Centrifugal
2	Casing	Cast Iron/Cast Steel
3	Impeller	Bronze/Gun metal
4	Shaft	Steel/Stainless steel
5	Bearings	Heavy duty ball/ Roller bearing
6	Base Plate	Cast iron/Fabricated MS
7	Flanges	As per ASA Specifications of IS specifications.
8	Packing	Shaft Seals

The drive motor shall be provided with starter conforming to IS: 1822. The starters shall be of totally enclosed metal clad and dust proof construction. The motors shall be provided with DOL starters or shall be provided with automatic star delta starters as per capacity. The starter shall have thermal overloads on all the phases, under voltage and single phasing protection. Suitable number of extra contacts shall be provided for interlocking and indicating lamps. Suitable ammeter with CT's shall be provided as per requirement.

b) The contractor shall submit performance curves and manufacturer's test certificates for pumps supplied by him. The capacity of each pump shall be checked with respect to the contractor's piping equipment layout. Tests shall be conducted on each pump set, after completion of the installation w.r.t. to delivery head, flow and bHp. The tests results shall correspond to the performance curves. The equipment, instruments and labour required for testing shall be furnished by the contractor.

2.0 Motors

2.1 General

The motor installation, wiring, control shall be carried out strictly in accordance with the specification hereinafter laid down.

2.22.2

a) Rating

The ratings of the motors shall be as indicated in schedule of equipment and schedule of quantities. The rating shall be on the basis of ambient temperature and allowable maximum temperature rise as specified.

b) Standards

All motors shall comply with IS: 325, IEC 34, IEC 34-1 or BS: 2313 in respect of general requirements and performance. Motors shall also conform to IS: 1231, IEC 72.1 for 72.1 for foot mounted motors and IS: 2223 and IEC 72.2 flange-mounted motors.

c) Motors shall run at all loads without appreciable noise or hum. Motors shall be of the following design as specified:

- Drip proof squirrel cage induction motor pumps.
- Windings of motors, shall be class B insulated and fully tropicalized.
- The insulating materials used shall not be liable for action of fungi or microbes. The insulation shall afford adequate protection against chemically aggressive gases and vapour as well as against conductive dust.

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- d) Motors shall be rated for continuous duty as defined in IS: 325. All motors shall have suitable torque characteristics as required by the duty of driven equipment. Motors shall be suitable for operation on 415 volts, 3 phase, 50 Hz, AC supply.
- e) Motors shall be provided with a combination of ball and roller bearings. The roller bearing shall be fitted at the driving end and ball bearings shall be of standard cartridge type which effectively seals off dust and moisture. Suitable grease nipple shall be provided for Regreasing the bearing.
- f) Motors shall be provided with a cable box to suit copper conductor, PVC insulated, PVC sheathed and steel armored cable.
- g) Motors shall be so designed to operate successfully under the following standard conditions of our country's voltage and frequency variation:

3. Motor Starters

- a) Motor starters shall be manufactured in accordance with IS: 1882 or BS:587. The starters shall be totally enclosed, metal clad, dust and vermin proof construction. All starters shall be direct-on-line/Automatic Star/Delta/Auto-transformer etc. as required.
All starters shall be continuously rated and shall be of automatic contactor type. All starters shall be suitable for 415 volts $\pm 10\%$, 3 phase, 50 Hz. $\pm 5\%$ AC supply or 230 Volts, 1 phase, 50 Hz AC supply.
- b) The making and breaking capacity of the contractor shall be as per category A-4 conforming to BS: 775. All the contacts shall be solid silver or silver faced and all the contractors and starter equipment shall be designed for not less than 40 operations per hour.
- c) Unless otherwise specified, all starters shall have integral 'Start/Stop' push buttons. Start push buttons shall be coloured green and shall be shrouded to prevent inadvertent operation. Stop push buttons shall have mushroom heads and coloured red. All push button operated contractors shall be provided with a maintaining/running contact.
- d) All remote control circuit taken from the starter shall operate at 230 Volts AC or lower voltage levels.
- e) Motor starters shall be provided with thermal overload relay with adjustable settings, on each phase for three phase motor. The motors of 10 HP. and above shall be provided with current transformer operated thermal overload relays. The thermal over load relays shall have thermal characteristics suitable for the associated motor its starting characteristics and suitably compensated for ambient air temperature variation. Single phase preventer shall be provided for all the three phase motors.
- f) Green, Red, Amber indicating lamps shall be installed on each starter to indicate open and close conditions of the contractors and fault conditions of motors as directed by the thermal overload relay.

4. Motor control centre and allied electrical works:

- a) Motor control centre shall be of cubicle pattern made out of 16 SWG MS sheet duly painted with anti-corrosive paint and synthetic enamel paint.

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- b) 100 mm square flush type ammeter of suitable range as mentioned in Bill of Quantities and 0- 500 volts voltmeter with CTS and selector switches shall be provided.
- c) Three coloured phase indication lamps with toggle switch to be provided in incoming line. The bus bars shall be of aluminum flat with colour coded PVC tapes.
- d) Automatic star-delta or DOL motor starter with bimetallic thermal overload relays, ON/OFF indication lamps to be provided for each motor.
- e) Cables of approved make shall be laid either in built-in trenches or on walls with MS clamps, saddles fixed at 50 cm interval.
- f) Cables will be terminated in Motor terminal block/in MCCB units/starter with brass gland and crimped copper lugs.
- g) The control panel shall provide with at least two earth terminal (of brass nut and bolts) for connecting them with main system earth.

C. AUTOMATIC DIESEL ENGINE DRIVEN PUMPING SET

1. Starting Mechanism of Diesel Engine Driven Pump

Two separate methods of starting shall be provided as follows:

- 2.1 Automatic starting by means of a battery powered electric starter motor having repeat start facilities, initiated by a fall in the pressure in water supply pipe to sprinkler installation.
- 2.2 Manual starting by an electric starter motor.

2. Control Panel

Control panel shall comprise of the following:

- i) One pressure switch
- ii) One electronic calibrated relay
- iii) One starter repeater relay
- iv) Push button operated switch for manual starting

3. Battery

One separate 12 volt heavy duty Sealed Maintenance Free starter batteries of reputed make (Exide/Amaron) having suitable AH capacity including battery connectors shall be supplied.

4. Battery Charger

Wall mounted battery charger with air cooled transformer and wave grid connected or suitable rectifier, suitable for operation single phase AC supply shall be also be supplied. Suitable ampere metering equipment shall be provided inbuilt with the battery charging unit.

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5. Pressure Gauges

All pressure gauges shall be of dial type with Bourbon tube element of SS 316. The gauges shall be of reputed make. The dial size shall be 150mm dia. and scale division shall be in metric units marked clearly in black on a white dial. The range of pressure gauge shall be 0 to 14 Kg./cm. All pressure gauges shall be completed with rubber isolation cock, nipples, tail pipes etc.

6. Pressure Switches

6.1 The pressure switch shall be Industrial type single pole double throw electric pressure switch designed for starting or stopping of equipment when the pressure in the system drops or exceeds the pre-set limits. It shall comprise of a single pole change-over switch associated with element assembly.

6.2 All the pressure switches shall have 1/4 B.S.P. (F) inlet connection and screwed cable entry for fixing cable gland.

6.3 The Electrical rating of the switch shall be as under:

TYPE OF SUPPLY VOLTAGE		NON-INDUCTIVE	INDUCTIVE
A.C.	110-380	10 Amp.	6 Amp.
D.C.	24-250	12 Watts.	12 Watts.

7. Main Control Panel

7.1 The main switch board cubicle panel shall be of floor mounted type, totally enclosed, dust and vermin proof made from 14 SWG M.S. Sheet of suitable size duly painted with one coat of anti- corrosive paint and two coats of synthetic enamel paint of approved make and shade with stove enameled finish. The cubicle shall comprise of the followings:

- a) Incoming 4P MCCB required capacity.
- b) Outgoing 4P MCCB for each motor.
- c) Bus bar of suitable capacity.
- d) Fully Automatic 'STAR DELTA' starter suitable for the motor H.P. with Push Buttons, and ON/OFF indicating light one for each motor. Jockey pump to have DOL Starter.
- e) Single phase preventers one for each motor.
- f) 96 MM 2 Panel type Ampere meters - one for each motor complete with CTs.
- g) 96 MM 2 Panel type volt meter on incoming main with rotary selector switch to read voltage between phase to neutral and phase to phase.
- h) Three neon phase indicating lamps.
- i) Rotary switch for manual/auto operations.
- j) All colour coded internal and inter-connecting wiring from incoming main to Bus bar, switch board panel and power/control cables from Switch board cubicle to motor engine and batteries etc. in all respect.

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8.0 All switchgears and accessories shall be of approved make to relevant IS Codes and to the satisfaction of Engineer-in-charge/ Consultant and rating of all equipment must match the KW of motors quoted and as per T AC rules. All electrical work to be carried out as per TAC and CPWD rules/specifications.

9. Maintenance Manual

9.1 On completion of the entire work and successful commissioning, Contractor shall hand-over four copies of maintenance manual of all equipment installed by him.

9.2 Maintenance manual shall include information relating to make, model no. year of manufacture and guarantee cards for all electrical and mechanical equipment with names of local suppliers or manufacturer's agents.

10. Measurements

10.1 Pumping sets, and switch board cubicle shall be measured by number and shall include all item necessary and required and given in the specifications.

10.2 Earthing and power/control cabling shall not be measured separately but included in switchgear cubicle and shall include all items necessary and required to complete the work as per specification and relevant Indian Standards to the satisfaction of Engineer-in-charge/Consultant/Inspecting agency.

10.3 Pressure Switches and Pressure Gauges wherever mentioned separately in BoQ shall include all items necessary and required to complete the work to the satisfaction of Engineer-in- charge/Consultant.

11. INSPECTION & TESTING

The Consultants/Clients have the right to inspect the plants, equipment and materials at manufacturer's work or at site at any stage and reject the materials that is substandard or does not meet the requirements of the specification and codes.

The contractor shall provide at his cost at site and elsewhere instruments and appliances for testing and equipment and installation at various stages of manufacturing/installation. These instruments shall be got tested and calibrated for their accuracy and performance from the approved institutions.

The inspection and testing carried out by the Consultants/Clients/Third party does not relieve the contractor of their responsibility of carrying out routine inspection during each stage of procurement, manufacture and installation and also meeting the intents and requirements of the specification and statutory requirements.

All equipment and the installation to be tested in the presence of the Consultants/Clients after carrying out necessary rectification, adjustments and balancing. Four sets of test readings should conform to the specification, equipment data, standards and codes.

Before participating in the tender, all contractors are advised to visit the site and understand the present site conditions and quote the rates accordingly.

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LIST OF APPROVED MAKES FOR FIRE FIGHTING WORKS

All materials to be used in the work shall conform to relevant Indian Standard Specifications and wherever available ISI marked materials will be used. Besides below mentioned make, equivalent approved make (EAM) may also be used. The Vendor shall also obtain prior approval from SBI for the 'Make' and 'Rating' of any other major item not mentioned above/below.

S. No.	MATERIAL	MAKES
1.	Pumps	Lubi, Kirloskar, Wilo, KSB or EAM
2.	Electric motor	Lubi, Kirloskar, Wilo, KSB or EAM
3.	Diesel Engine	Lubi, Kirloskar, Wilo, KSB or EAM
4.	Battery	Exide /Amron / Bosch or EAM
5.	M.S. Pipe	Jindal, Tata, Surya, Asian (ISI Marked) or EAM
6.	Gate Valves	Shah Bhogilal / KBL / Upadhya/ Kalpana/ Kartar/Zoloto/Audco or EAM
7.	Non- Return Valves	Shah Bhogilal / KBL / Upadhya/ Kalpana/ Kartar/Zoloto/Audco or EAM
8.	Sluice Valve	Shah Bhogilal / KBL / Upadhya/ Kalpana/ Kartar/Zoloto/Audco or EAM
9.	CI Non Return Valve	Shah Bhogilal / Sant/ Zoloto/ Advance / Upadhaya, Kartar & Kalpana or EAM
10.	CI Butterfly valves	Shah Bhogilal / KBL / Upadhya/ Kalpana/ Kartar/Zoloto/Audco or EAM
11.	Hydrant valve	Shah Bhogilal, GEI (Ghosh engg), New age, Safex or EAM
12.	Y Type Strainer	Leader , Prime , Kartar, Hammer, Kalpana, Worth or EAM
13.	Basket type Strainer	Leader , Prime, Kartar, Hammer, Kalpana, Worth or EAM
14.	Pressure switch	Indfoss , donfos, Switcher or EAM
15.	Pressure Gauge	H.Guru , Fiebig, Warree or EAM
16.	Starter, Switches	L & T, Siemens or EAM
17.	Pump Panel Components	L & T, Siemens, Schneider, and ABB or EAM
18.	Flow switch	Honeywell , System Sensor, Potter or EAM
19.	Annunciation Panel	AGNI, RAVEL, System Sensor, Honeywell or EAM
20.	Cables	Havells, RR Cable, Finolex (ISI Marked) or EAM
21.	Fire Hose	Shah Bhogilal , Newage , BRG or EAM
22.	SS Branch Pipe & Nozzle	Shah Bhogilal, NewAge, GEI or EAM
23.	Hose Reel Drum	AAAG, Newage, or EAM
24.	Rubber Hose	Dunlop , Deep Jyoti, Jyoti, & Padmini, or EAM
25.	Ball Valve	Audco , Leader, Sant, & Zoloto or EAM
26.	CS Ball Valve	Audco , Leader , Sant & Zoloto or EAM

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27.	Fire Brigade Inlet	AAAG (Shah Bhogilal), Newage, GEI (Ghosh engg), & New age or EAM
28.	Hose Box	Fabricated as per standard
29.	Pipe Fittings	Bharat Forge / Tube Products / M.S. Fittings / VS Brand / (E.A.M) or EAM
30.	Quartzoid Bulb Type Sprinkler	HD, TYCO or EAM
31.	Paint (as per IS: Fire Red)	Asian Pain, Nerolec, Burger or EAM
32.	Anticorrosive Tap	Pipekot, IWL, Rustech or EAM
33.	Pipe Fittings	As per Standard
34.	Electronic hooter	AGNI/ ELECTROGROUP/Securico or EAM
35.	2 Core 1.5 sq mm Armoured Cable (ISI Mark)	RR/ Havells/ Finolex or EAM
36.	Sprinkler Alarm panel	AGNI/ ELECTROGROUP/Securico or EAM
37.	Air release valve	SB, Castle Audco , Leader or EAM
38.	Sprinkler flexible pipe	HD, TYCO or EAM

NOTES:

- a) Details of the items under this Schedule shall be read in conjunction with the corresponding Specifications, Drawings and other Tender Documents.
- b) The work shall be carried out as per approved drawings, Specifications and the description of the items in this Schedule and/or Engineer's instructions. Drawings enclosed with these documents are only for providing some preliminary of the work involved.
- c) Items of work provided in this Schedule but not covered in the Specifications shall be executed strictly as per instructions of the Bank's Engineer.
- d) Unless specifically mentioned otherwise in the Contract, the Bidders shall quote for the finished items and shall provide for the complete cost towards power, fuel, tools, tackles, equipment, Constructional Plant, Temporary Work, labour, materials, levies, taxes, transport, layout, repairs, rectification, maintenance till handing over, supervisions, overheads, profits and all incidental items not specifically mentioned but reasonably implied and necessary to complete the work according to the contract.
- e) The Quantities of the various items mentioned in the Schedule of Items are approximate and may vary or may be deleted altogether. The Vendor, in his own interest, should get an indication of the probable extent of the work to be executed under any particular item in this Schedule before undertaking any preliminary and enabling work or purchasing bought out components related to the work.
- f) Rates shall be quoted both in figures and in words in clear legible writing. No over writing is allowed. All scoring and cancellations should be countersigned by the Bidders. In case of illegibility, the rates written in word will be considered final. All entries shall be in English language.
- g) Engineer's decision shall be final and binding on the Vendor regarding clarification of items in this Schedule with respect to the other sections of the Contract.

The above instructions shall form part of the conditions of contract.

Signature of Contractor with Seal

I / we hereby declare that I / we have read & understood the above instructions for the guidance of the tender.

Signature of Witness,
Address

Signature of Bidder
Date _____

Signature of Contractor with Seal