



**STATE BANK OF INDIA, ADMINISTRATIVE OFFICE, RANCHI**  
**STATE BANK OF INDIA**  
**ADMINISTRATIVE OFFICE, RANCHI**  
**KACHAHARI ROAD, RANCHI-834001,**  
**JHARKHAND**

**TENDER NOTICE FOR**

**SITC (SUPPLY, INSTALLATION, TESTING AND COMMISSIONING) AND AMC (ANNUAL MAINTENANCE CONTRACT) FOR FIRE HYDRANT SYSTEM OF ADMINISTRATIVE OFFICE BUILDING AND RBO BUILDING, STATE BANK OF INDIA, RANCHI**

**TENDER PROCESS SCHEDULE**

<b>Activity</b>	<b>Date and Time</b>
Tender ID	AORAN/AO/2026-27/06/003 dated: 10.06.2026
Tender Name	SITC (SUPPLY, INSTALLATION, TESTING AND COMMISSIONING) AND AMC (ANNUAL MAINTENANCE CONTRACT) FOR FIRE HYDRANT SYSTEM OF ADMINISTRATIVE OFFICE BUILDING AND RBO BUILDING, STATE BANK OF INDIA, RANCHI
Ending Date of Tender	24.06.2026 upto 03:00 PM

Part -1  
 (Technical Bid)  
 Name of the Tenderer.....  
 Address.....  
 .....  
 GSTIN.....

The Contractors who are EMPANELLED FIRMS FOR SUPPLY, INSTALLATION, MAINTENANCE AND ANNUAL MAINTENANCE CONTRACT (AMC) OF FIRE HYDRANT SYSTEM AT BRANCHES/OFFICES/PREMISES UNDER PATNA CIRCLE are only eligible to participate in this Tender.



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**Part -1 (Technical Bid) Name of the**

Tenderer.....

Address.....

.....

GSTIN.....

The Contractors who are EMPANELLED FIRMS FOR SUPPLY, INSTALLATION, MAINTENANCE AND ANNUAL MAINTENANCE CONTRACT (AMC) OF FIRE HYDRANT SYSTEM AT BRANCHES/OFFICES/PREMISES UNDER PATNA CIRCLE are only eligible to participate in this Tender.

**PART-1 (TECHNICAL BID)**

**SECTION-1**

**GENERAL INFORMATION**

**1.1** State Bank of India, Administrative Office, Ranchi inviting tender for SITC (Supply, Installation, Testing and Commissioning) and AMC (Annual Maintenance Contract) for Fire Hydrant System of Administrative Office Building and RBO-1 building, SBI, Ranchi, Jharkhand. Interested parties may apply through Tender Wizard Portal only. Duly completed applications in the prescribed format with required documents etc. should be submitted on or before due date.

**1.2** The Bank may reject any or all application/ incomplete applications, even though the firms primarily satisfy the Pre-qualification criteria. The Bank reserves the right to cancel the tendering process without giving any reasons at any stage. Bank’s decision in this regard shall be final and binding on all concerned.

**1.3** Errors and Omissions: Each bidder shall notify the Bank of any error, omission, or discrepancy, if any, found in this Tender Document.

**1.4** Acceptance of Terms: The bidders will, by responding to the Bank’s Tender Document, be deemed to have accepted the terms as stated in this Tender Document.

**1.5** STATE BANK OF INDIA, ADMINISTRATIVE OFFICE, RANCHI (hereinafter referred to as SBI) invites item rate E-Tenders from the Contractors/Vendors who are in the list of approved empanelled contractors/vendors as mentioned in attached Tender document.

1.	Name & location of Work	: SITC (SUPPLY, INSTALLATION, TESTING AND COMMISSIONING) AND AMC (ANNUAL MAINTENANCE CONTRACT) FOR FIRE HYDRANT SYSTEM OF ADMINISTRATIVE
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		OFFICE BUILDING AND RBO BUILDING, STATE BANK OF INDIA, RANCHI
2.	Eligibility Criteria	The Contractors who are EMPANELLED FIRMS FOR SUPPLY, INSTALLATION, MAINTENANCE AND ANNUAL MAINTENANCE CONTRACT (AMC) OF FIRE HYDRANT SYSTEM AT BRANCHES/OFFICES/PREMISES UNDER PATNA CIRCLE are only eligible to participate in this Tender.
3.	Availability of tender documents	: Tender documents can be downloaded from Bank's website <a href="http://www.sbi.co.in">www.sbi.co.in</a> under 'Procurement News' section OR SBI e-tender portal <a href="https://www.tenderwizard.com/SBIETENDER">https://www.tenderwizard.com/SBIETENDER</a>
4	Estimated Cost	Rs 46,28,000 (Approximately) Excluding of GST
5	Tender shall remain valid for	: For a period of 90 days from the date of opening of price bid of tender
6	Earnest Money Deposit (EMD)	Rs. 46,000.00 in the form of DD from any Nationalised Bank drawn in favour of 'State Bank of India, AO RANCHI, payable at RANCHI.
7	Initial Security Deposit	Rs. 46,000.00 ISD to be submitted within 7 days of acceptance of tender in the form of DD.
8	Security Deposit	5% (Less EMD+ISD) will be deducted from contractors' bills. 50% of SD will be refunded after satisfactory completion of work and the balance 50% will be refunded after defect liability period provided no defects has been noticed in the executed work.



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9	Time allowed for completion	90 days from the date of issue of work order.
10	Tender document downloading Start Date	From 02:00 PM (14:00 Hrs) on 10.06.2026
11	Tender document downloading end Date	Up to 02:00 PM (14:00 Hrs) on 24.06.2026
12	Last date and time of submission of Tender	Up to 03:00 PM (15:00 Hrs) on 24.06.2026
13	Date and time of opening of tender	On 24.06.2026 at 03:30 PM
14	For E-Tender related queries	Service provider: M/S Antares Systems Limited. 1st floor, Old Bank of India compound, M/22 Building, Road No. 25, S.K. Nagar, Patna-800001 Mobile: Rakesh Kumar 9771414548, Email: r.rakeshkumar@antaressystems.com
15	Electronically Sealed e-tenders are invited from the Bank's Empanelled Contractors as mentioned in NIT in two parts, i.e. Cover – I and Cover –II separately Sealed tenders in two parts i.e. cover-I and cover- II are to be submitted online on the website: <a href="https://www.tenderwizard.com/SBIETENDER">https://www.tenderwizard.com/SBIETENDER</a>  ** No bid shall be accepted offline.	



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<p>a) Cover-I (Technical Bid) :</p>	<p>Technical bid envelope called “Electronic Format of Technical Bid” shall contain the following documents:</p> <p>(i) Details of EMD: Scan copy of Demand Draft must be uploaded in e-tender website along with technical bid</p> <p>(ii) Electronic form of Technical Bid</p> <p>Cover-I will be opened as per above mentioned date &amp; time in the presence of Tenderers who desire to attend. The tenderers can view the Tender opening details through their respective log in Ids on the above-mentioned e-tender portal (Website).</p>
<p>b) Cover-II (Price Bid)</p>	<p>Shall contain the electronic format of Price Bid Item rate.</p> <p>In case, the lowest Tendered Amount of two or more contractors is same, such lowest contractors will again be asked to submit sealed/online “Revised offers” on the original Estimated cost of the Tender including all sub sections/sub heads as the case may be. The lowest tender shall be decided on the basis of revised offers.</p> <p>The process of online re-bidding amongst two or more contractors offering same rates shall continue till L-1 bidder is discovered.</p> <p>In case, any of such contractor(s) (quoted same tender amount during initial bidding or subsequent re-bidding) refuses to submit revised offer, it shall be treated as “withdrawal of tender” by the contractor before acceptance. The earnest money of such contractors shall be forfeited.</p> <p>In case all the lowest contractors those have quoted same amount, refuse to participate in online revised bidding process for the project, the EMD of such contractors shall be forefeited and the tender shall be re-invited afresh for the project. The contractor(s), whose earnest money is forefeited because of non-submission of revised offer, shall not be allowed to participate in the re-tendering process of the work.</p>

	No condition/ stipulation in Cover-II other than unconditional general rebate shall be accepted.	
16	Opening of Price Bid	: Cover-II (Price Bid) will be opened only of those bidders who are successful in Technical Bid (Cover- I) after thorough scrutiny. The contractor/ vendor can view the Tender opening details through their respective log in Ids on the above-mentioned e-tender portal (Website).
17	Commencement of the work	The date of commencement of the work will be reckoned as the date of handing over site or 07days from the date of issue of Work Order of the tender whichever is later
18.	Deduction of Income Tax and GST	: A) TDS on Income Tax/GST will be deducted at source as per Govt. Guidelines. B) The contractor should comply with the following; i. Contractor should have GST Registration Number ii. Invoice should specifically/separately disclose the amount of GST levied at applicable rate as per GST provision iii. Contractor should timely file his GST return in accordance with GST provisions to enable the Bank to claim the credit of GST paid to the contractor.
19.	Terms & mode of payment	: i) No advance is payable.



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		<p>ii) After successful completion of entire work, 100% payment will be released against submission of GST invoice and work completion Certificate from the user deptt.</p> <p>iii) Security deposit and statutory deductions will be made as applicable.</p> <p>iv) The contractor should furnish details of the Bank, A/C no, IFSC code etc.</p>
20	Additional security deposit (ASD)/Additional Performance guarantee (APG)	<p>i. ASD/APG shall be applicable if the bid price is below 10% of the estimated cost.</p> <p>ii. The amount of such ASD/APG shall be the difference between 90% of the estimated cost put to tender and the quoted price.</p> <p>iii. Vendor will submit Bank guarantee or FDR receipt favouring SBI but drawn on any other Nationalised Bank may also be accepted as ASD/APG.</p>
21.	Liquidated Damages	: If the bidder is not able to complete the work within the stipulated completion period as per terms of the tender, liquidated Damages will be imposed at the rate of 0.5% of the contract value per week subject to a maximum of 5% of the contract value.
22.	Defects Liability Period	: 12 Months (Twelve months) from the date of completion of the work and handing over to the Bank.
23	Any additional Information	: The estimated rates as per the Break-up Of Quantities (BOQ) uploaded in this tender are inclusive of materials, labour, wages, fixtures, transportation, installation, all taxes & charges , cost of the insurances as specified in the tender,



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		cost towards testing of materials supplied, wastages, Octroi, machinery, temporary works such as scaffolding, cleaning, overheads, profit, statutory expenses, incidental charges and all related expenses to complete the work. However, GST on work contract will be extra as applicable.
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**Notes:**

- a) All Bidders are informed that, price bidding for the work will be through Online tendering method. The bill of quantity of tender i.e “Price Bid” is to be submitted online. Work Order will be placed on the basis of L1 price by bidder in the “Price Bid.
- b) The Bidders are expected to examine all instructions, forms, terms and specifications in the tender documents. Failure to furnish all information required as per the Tender Documents or submission of bids not substantially responsive to the Tender Documents in every respect will be at the Bidders risk and shall result in rejection of the Tender.
- c) In case the date of submission of Technical Bid, Price Bid is declared as a holiday, the respective date will be considered on the next working day at the same time and the tenders will be opened on the next working day at the same time.
- d) SBI reserves the right to cancel or postpone or modify the tenders at any stage without assigning any reason.
- e) The Bidders are strongly advised to visit the site before submitting their Price Bid to make the work complete in all respects within the stipulated completion time.
- f) Corrigendum: (If any) is to be followed as published in <https://www.sbi.co.in> portal. OR SBI e-tender portal <https://www.tenderwizard.com/SBIETENDER>

(For and on behalf of State Bank of India)

STATE BANK OF INDIA  
ADMINISTRATIVE OFFICE,  
RANCHI KACHAHARI ROAD,  
RANCHI-834001, JHARKHAND



## SECTION-2

### INSTRUCTIONS TO THE BIDDERS AND GENERAL TERMS & CONDITIONS

State Bank of India, Administrative Office, Ranchi invite tender for SITC (Supply, Installation, Testing and Commissioning) and AMC (Annual Maintenance Contract) for Fire Hydrant System of Administrative Office Building and RBO-1 Building, SBI, Ranchi, Jharkhand.

#### 2.1 MODE OF SUBMISSION OF TENDER:

**Technical Bid:** to be uploaded online and shall contain covering letter, technical and commercial terms & conditions and Tender document of all pages duly stamped and signed along with necessary attachments including a copy of EMD.

**Price Bid: Indicative price-bid to be uploaded online** and shall be opened on the date and time as stipulated in the tender. On declaration of indicative price bid, base price will be decided by the Tender Committee and online e- Reverse Auction will be carried out. 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 the tenders without assigning any reasons thereof.** For any other queries, the vendors may contact the **Zonal Fire Officer located at the office of Administrative Office, SBI, Ranchi through zfo.aoran@sbi.co.in or Mob 7677644964.**

**Site and its Location:** The proposed work i.e., SITC (Supply, Installation, Testing and Commissioning) and AMC (Annual Maintenance Contract) for Fire Hydrant System of. is to be carried out at the Administrative Office Building, SBI, Ranchi, Jharkhand, **located at Ranchi, PIN-834001, Jharkhand.**

#### 2.2 SCOPE OF WORK

- a) The tender under reference covers SITC (Supply, Installation, Testing and Commissioning) and AMC (Annual Maintenance Contract) for Fire Hydrant System of Administrative Office Building, SBI, Ranchi, Jharkhand in which installation of aboveground firewater network line wherever feasible and underground firewater network line in some areas where there is obstruction due to roads/structure, Inter Connectivity of overhead water storage tank along with terrace pump with risers, installation of sprinkler at the parking area, installation of Fire Pump House with Fire Control Panel in all aspect as per the Notice inviting Tender, Conditions of contract, Technical Specifications, Technical Drawings & Schedule of Work and as per the direction & satisfaction of the Bank's Engineer.
- b) **Fire NOC from local authority:** It will be in Vendor's scope to prepare the list of required documents which will be required to obtain NOC from the Local Fire Brigade / Municipal Corporation department with all required liaisons.



### **2.3 TIME FOR COMPLETION OF WORK**

Time is the essence of the contract.

The Vendor shall complete in all respects in accordance with the Contract, the entire work at each job site within the time specified. The time schedule/period for total work completion according to the contract shall be **Three Calendar Months from the date of placing work order** or handing over of the site whichever is later.

- a) The date of commencement of work will be reckoned from the date of issue of work order to the concerned L1 vendor/contractor. Duration of 14 days may be awarded to the concerned L1 vendor/contractor for the preparation of groundwork.
- b) Extension of Time: If, in the opinion of the Employer, the work be delayed for reasons beyond the control of the contractor, Bank to grant a fair and reasonable extension of time for completion of work as per the terms of contract. If the contractor needs an extension of time for the completion of work or if the completion of work is likely to be delayed for any reasons beyond the due date of completion as stipulated in the contract, the contractor shall apply to the Employer in writing immediately and while applying for extension of time he shall furnish the reasons in detail and his justification if any, for the delays. While granting extension of time the contractor shall be informed the period extended time which will qualify for levy of liquidated damages. For the balance period in excess of original stipulated period and duly sanctioned extension of time by the Employer the provision of liquidated damages as stated under clause 8 of GCC shall become applicable.
- c) The term "Force Majeure" as employed in this contract shall mean wars (declared or undeclared) or revolutions, civil wars, tidal waves, fires, major floods, earthquakes, epidemics, pandemic, quarantine restrictions and freight embargoes and transporters strike affecting the country.

### **2.4 FIRM PRICE**

The price should be firm and irrevocable and not subject to any change till the completion of the Scope of Work.

### **2.5 TAXES & DUTIES**

**All taxes and duties other than GST shall be included in the basic rate. GST shall be quoted separately as per the Schedule of Work.**

### **2.6 EARNEST MONEY DEPOSIT**

EMD of **Rs. 46,000.00 /-** in the form of Demand Draft / Banker's Cheque issued by Scheduled Commercial Bank and to be submitted to the State Bank of India, AO Ranchi payable to Ranchi. Earnest Money deposit (EMD) is exempted for agencies registered under NSIC or coming under the definition of Micro and Small Industries and holding valid registration certificates covering the tendered items/services. Declaration of Udyog Aadhar Memorandum (UAM) by the MSE parties on Central Public Procurement Portal (CPPP) shall be mandatory. However, attested/Notarized



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copy of valid NSIC certificate or “Micro and Small” industry certificate should be submitted in this regard.

As soon as the work is awarded or after scrutiny of the tenders and ascertaining the correct position of tenderers, the EMD of all unsuccessful contractors shall be returned to the contractors.

The EMD of the successful tenderer shall be forfeited in case the contractor refuses to accept the work order or if he fails to commence the work awarded to him within the prescribed or extended time limit or if he does not remit the initial security deposit within the prescribed time.

## **2.7 SECURITY DEPOSIT**

- a) On acceptance of the Bid, Bidder shall within fifteen (15) days, deposit with SBI an Initial Security Deposit of 5% of the Contract value (i.e., order value excluding taxes) and the same shall be in any of the following form:
  - i Bank draft drawn in favour of State Bank of India, AO Ranchi payable to Ranchi of any Scheduled/Nationalized Bank or
  - ii Bank Guarantee executed by any Nationalized/Scheduled Bank other than SBI as per Performa enclosed.
- b) If the Bidder fails to provide the Security Deposit within the period specified, such failure will constitute a breach of the Contract and SBI shall be entitled to award the work elsewhere at Supplier's risk and cost. The EMD of the bidder to whom Contract was awarded, shall be forfeited.
- c) No interest shall be payable against the Security Deposit.
- d) Wherever the Security Deposit / Retention Money is furnished by Bidder in any form other than in cash or Demand Draft, the Bidder shall be entirely responsible to keep such form of Security Deposit enforceable by extending the validity thereof. Before one month of date of expiry the bidder to keep them enforceable, until released by SBI after the Defect Liability Period (i.e., 12 months).
- e) The Security Deposit / Retention Money shall remain at the entire disposal of SBI as a security for satisfactory execution and completion of the work(s). SBI shall be at liberty to deduct and appropriate from the Security Deposit / Retention Money such damages (liquidated or otherwise) and other dues and recoveries from Bidder under this Contract and the amount by which Security Deposit / Retention Money is reduced by such appropriations, will be made by further deductions from Bidder's subsequent bills to that extent as to make up the Security Deposit / Retention Money.
- f) On due and satisfactory performance of all the obligations of Bidder under this Contract including completion of work in all respects, carrying out the obligations of Bidder during Defect Liability Period, Security Deposit shall be released by SBI subject to recoveries, deductions, and retentions there from as provided under the Contract.

## **2.8 ADDITIONAL SECURITY DEPOSIT (ASD) / ADDITIONAL PERFORMANCE GUARANTEE (APG)**

- a) ASD / APG shall be applicable if the bid price is below 10% of the estimated cost put to tender.
- b) The amount of such ASD/ APG shall be the difference between 90% of estimated cost put to tender and the quoted price.



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- c) ASD in the format of DD / Banker's Cheque / Bank Guarantee shall be submitted within 15 days of intimation of award of work / work order, without which the contractor will not be allowed to start the work and failure of submission of ASD will result in forfeiture of EMD and cancellation of tender.

**2.9 PAN, GST REGISTRATION, ESIC, PF REGISTRATION:**

Bidders are required to submit PAN, GST registration, Provident Fund Registration and ESIC along with Un-priced part of their offer, failing which their offer may be liable to be rejected.

**2.10 TENDER DOCUMENTS**

Tender Documents comprises of two parts viz. **Part-I (Un-priced)** and **Part-II (Priced)**. The Un-Priced Part consists of EMD, Notice Inviting Tender, Conditions of Contract, Technical Specification and Drawings. The Priced Part consists of Price Schedule. Bidders are requested to read all the terms and conditions mentioned in the tender document and seek clarification if any, from Fire Engineer on e-mail: zfo.aoran@sbi.co.in.

**2.11 SUPPLY OF MATERIAL**

- a) All materials required for the work shall be supplied by the Vendor. In addition, all materials required for temporary and enabling work shall be arranged and provided by the Vendor. All incidental expenses, loading, unloading, transportation, handling etc. shall be the responsibility of the Vendor and cost towards such expenses should be included in the finished item rates.
- b) All other materials, as required to complete the work in all respects according to the contract rates shall be inclusive of all freights, and other taxes, duties, loading, unloading, transporting, handling and storage charges etc. GST will be paid extra as applicable.

**2.12 SITE INSPECTION**

The intending bidders shall be deemed to have visited the site and familiarized themselves thoroughly with the site conditions before submitting the tender. Non-familiarity with the site conditions will not be considered reason either for extra claims or for not carrying out the work in strict conformity with the drawings and specifications.

**2.13 INSTALLATION, TESTING, COMMISSIONING & TRAINING**

The installation, testing and commissioning of fire hydrant system shall be carried out by the competent Engineers/technicians of the Bidders at the work site. After commissioning, the successful bidder's engineer / technician shall impart necessary training to SBI's personnel in operating and maintaining the installed fire hydrant system. No separate charge shall be payable by the SBI for the said purpose.

### **2.13.1 TESTING & INSPECTION**

- a) All materials required for the execution of the work should be new and should conform to applicable standard specifications and verified by the consultant and then approved by the Bank's Engineer before actually put to use. Commencement of work without prior approval shall be entirely at the risk and cost of the Vendor. No delay due to non-availability of the materials, tools, equipment etc. will be entertained by SBI. In the case of certain Machinery /Equipment, the Bank's Engineer may inspect the item for approval before they are brought to the site.
- b) The SBI shall be entitled at all times at the risk of the Vendor to inspect and/or test by themselves or through any independent person(s) or agency (ies) appointed by the SBI and/or to direct the Vendor to inspect and/or test all material(s), items and components whatsoever supplied or proposed for supply, for incorporation in the work inclusive, during the course of manufacture or fabrication by the Vendor and/or at the Vendors work or otherwise, such materials or items or components. The inspection and/or test shall be conducted at the expense of the Vendor and if conducted by the Vendor may be directed by the SBI to be conducted by agency (ies) nominated by SBI and/or in the presence of witness (ess) nominated by the SBI.
- c) The Vendor shall furnish to the Bank's Engineer for approval when requested or as required by the specification or other contract documents, adequate samples of material intended for incorporation in the works. Such sample to be submitted before the work is commenced permitting sufficient time for tests, examination(s) thereto by the Bank's Engineer. All materials furnished and incorporated in the work shall conform to the sample(s) in all respects.
- d) The Bank's Engineer shall be entitled to reject at any time any defective materials, item, or components, (including specially manufactured or fabricated items or components) supplied by the Vendor for incorporation in the works.
- e) The Vendor shall at all times ensure highest standard of workmanship, relating to the work to the satisfaction of the Bank's Engineer. The Bank's Engineer shall have the power to inspect the work as also to test or instruct the Vendor to test the works or any structure, material, or component thereto at the risk and cost of the Vendor, either by the Vendor or by any agency(ies) nominated by the Bank's Engineer or Site Engineer on his behalf.
- f) The Vendor shall provide all facilities; instruments / material / labour and accommodation required for testing the works (including checking the set time out of work) and shall provide Bank's Engineer all assistance necessary to conduct the test whenever and wherever required.
- g) The Bank's Engineer, on inspection or test if not satisfied with the quality of workmanship of any work, structure, material, component (decision of the Bank's Engineer being final on Bank's behalf), the Vendor shall re-perform, replace, re- install and / or re-erect as the case may be such work, structure material or component, as no such rejected work, structure, material, item or component shall be re-used without the prior permission of Bank's Engineer.
- h) Notwithstanding any provided in the foregoing clauses hereto and notwithstanding the Bank's Engineer/ or his representative has inspected tested and/or approved any particular work, structure, material or component, such inspection, test or approval shall not absolve the Vendor of his full responsibilities under the contract inclusive or relative to the specification, performance guarantee. The said inspection and test procedure being intended basically for satisfaction of the SBI / prima-facie erection and/or material and equipment supplied for incorporation in the work is in order.



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- i) On no account, shall the Vendor proceed with the covering up or otherwise placing beyond reach of inspection or measurement any work before necessary inspection, entries are filled in the Site Inspection Register by the Bank's Engineer or his authorized representative. If the Vendor do so the same, it shall be uncovered at the Vendor's risk and expense for carrying out the inspection and measurement.
- j) If any tests are required to be carried out in connection with the work or materials or workmanship not supplied by the Vendor, such tests shall be carried out by the Vendor as per the instructions of Bank's Engineer and cost of such tests shall be reimbursed by the SBI.
- k) The SBI reserves the right to inspect the Equipment at Bidder's works by them or through a third party nominated by the SBI. Bidders will provide all assistance to SBI's inspector in carrying out such inspection at Bidder's works free of any charges.

#### **2.14 NON-CONFORMANCE**

Non-conformance to the terms & conditions and requirements mentioned in the tender are liable to be rejected.

#### **2.15 VALIDITY OF OFFER**

The validity of the offer is for a period of **90 days** from the date of opening of price bid of tender

#### **2.16 QUANTITY VARIATION**

The quantity as mentioned in the Schedule of Work/ Price Bid is indicative. The selected bidder/Vendor shall however ascertain the exact quantity required at site and subsequently supply and install accordingly. As the work progresses, it is possible that there will be quantity variations to any extent & omission of items. *Under all such circumstances, the rates should remain firm.*

#### **2.17 LIQUIDATED DAMAGE**

- a) If the Vendor is unable to complete the jobs specified in the scope of work within the period specified in NIT, it may request SBI for extension of the time with unconditionally agreeing for payment of LD. Upon receipt of such a request, SBI may at its discretion extend the period of completion and shall recover from the Vendor's running account bill, as an ascertained and agreed Liquidated Damages, a sum equivalent to 0.5% of basic contract value for each week of delay or part thereof. The LD shall be limited to 5% of the total basic contract value.
- b) Notwithstanding what is stated in Clause above, the SBI shall have the right to employ any other agency to complete the remaining work at the risk and cost of the Vendor, in the event of his failing to complete the work within the stipulated time or in the even progress of Vendor's work is behind schedule, as judged by the Bank's Engineer.
- c) Then the Bank's Engineer upon receiving necessary approval from competent Authority may in writing make a fair and reasonable extension of time for completion of the works as per provision of tender, provided further that the Vendor shall constantly use his best endeavour to the satisfaction to proceed with the works. Nothing herein shall prejudice the rights of the Vendor under clause herein above.



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**2.18 TERMS OF PAYMENT**

- a) **No advance payment** shall be paid to the Vendor.
- b) 95% of the contract price shall be paid on successful supply, install, testing and commissioning at site and verified by Fire Engineer/Civil Engineer/Bank Authorized Official.
- c) 05% against after completion of warranty period of one year.
- d) Final payment shall be released based upon the measured final installed quantity only.

**2.19 ARBITRATION**

Any dispute or difference arising under this Contract shall be referred under jurisdiction of Ranchi to a sole arbitrator to be appointed by the SBI and the provisions of Arbitration and Conciliation (Amendment) Act, 2015 including any statutory modifications or enactment thereof shall apply to the Arbitration proceedings. The fees of the arbitrator, if any, shall be shared equally by both the parties. The award shall be a speaking award stating reason therefore and is final & binding on the parties. The proceeding shall be conducted in English language and courts at Ranchi will have exclusive jurisdiction to settle any dispute arising out of this contract.

**2.20 RATES AND OTHER ENTRIES**

The bidders should quote rates for all items in the Schedule of Rates. If there is discrepancy between unit rate and total amount, the unit rate shall prevail. The rates should be quoted in the same units as mentioned in the Tender Schedule of Quantities. All the entries in the Tender documents should be either typed or written in ink. Corrections if any should be attested by full signature of the bidders. Every page of the tender document including annexure/enclosures shall be stamped and signed by the bidders or his authorized representative thereby indicating that each and every page has been read and the points noted.

**2.21 RIGHT TO ACCEPT OR REJECT TENDER**

- a) SBI reserves the right to accept or reject any or every tender without assigning any reason whatsoever / or to negotiate with the bidders (s) in the manner it considers suitable. In the event of receipt of lowest price from more than one (1) bidder, fresh price bids shall be invited from the lowest bidders only to determine final lowest bidder for placement of the order.
- b) Bids of any bidders may be rejected if any conflict of interest between the bidder and SBI is detected at any stage.
- c) All the bids will be evaluated based on criteria as mentioned in this NIT. Tenders of those bidders who do not meet the criteria will not be considered for commercial evaluation.
- d) Tender if submitted through e-mail or fax shall be summarily rejected.
- e) Clarifications/exceptions/deviations to the tender terms & conditions and specifications:
  - SBI expects Bidders to confirm compliance to tender terms & conditions and specifications, failing which the Bidders are liable to be rejected. Hence all Bidders in their own interest are advised to submit their bids in all respects confirming to all the terms & conditions of the bid document.



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- Bids shall be evaluated based on the information/documents available in the bid. Hence Bidders are advised to ensure that they submit appropriate and relevant supporting documentation along with their proposal in the first instance itself. Those participants who do not comply with the requirements of documents stipulated in the tender will be rejected without any further opportunity.

## **2.22 INSURANCE**

Vendor shall at his own expense carry out and maintain insurance with reputable companies to the satisfaction of the SBI as follows:

- a) Employee's Compensation and Liability Insurance.
- b) Vendor shall obtain Workmen Compensation policy in his name in respect of Vendor's employees to be engaged for the work towards compensations as admissible under the Employee's Compensation Act, 1923 and under the Rules framed, upon death/ disablement and medical treatment of a worker and the same has to be produced to the Bank's Engineer before start of the work. SBI should be mentioned as the Beneficiary.

## **2.23 WORK DURING NIGHT AND HOLIDAYS**

Subject to any provision to the contrary contained in the contract no permanent work shall save as herein provided be carried on during the night or holidays without the permission in writing of Architect/ consultant /SBI, save when the work is unavoidable or absolutely necessary for the saving of life of property or for the safety of the work in which case the contractor shall immediately advise the Architect/ consultant. However, the provisions of the clause shall not be applicable in the case of any work which becomes essential to carry by rotary or double shifts in order to achieve the progress and quality of the part of the works being technically required/ continued with the prior approval of the Architect/ consultant/SBI at no extra cost to the SBI. Any work to be carried out at night, shall be carried out without unreasonable noise and disturbance, after obtaining approval from the competent authorities.

## **2.24 AGREEMENT**

The shortlisted bidder will have to enter into an agreement with the bank as per the terms & conditions mentioned in this tender document including with any modification or changes which if need felt, may be added later during the time of execution of agreement between the bidder and the bank.

## **2.25 INFORMATION SECURITY**

The bidder must not share any data which comes to his knowledge, on account of this agreement, with outsiders without explicit & case specific approval of the bank.



## **.GENERAL TERMS & CONDITIONS**

### **3.1 DEFINITIONS**

The following expressions hereunder and elsewhere in the contract documents used shall have the following meanings respectively assigned to them namely,

3.1.1 The "SBI/Client" shall mean Administrative Office, SBI, Ranchi, Jharkhand. and shall include its successors and assigns. The project work is to be carried out at Administrative Office Building and RBO-1 Building, SBI, Ranchi, Jharkhand.

3.1.2 The "Project" shall mean "SITC (Supply, Installation, Testing and Commissioning) and AMC (Annual Maintenance Contract) for Fire Hydrant System of Administrative Office Building, SBI, Ranchi, Jharkhand."

3.1.3 The 'Bank's Engineer'/'Engineer' shall mean the Engineer / Officer authorized by the "SBI" for the purpose of the contract for overall Supervision and Co-ordination of site activity and certification of billing.

3.1.4 "Contract Price" shall mean the total amount referred to in Article / Price Schedule, subjected however, to any valid adjustments made through the application of relevant contractual provisions herein.

3.1.5 "Effective Date of the Contract" shall mean the date that the Contract comes into force in accordance with Article.

3.1.6 "Final Acceptance" shall mean the acceptance by the Purchaser / Client / Employer of the Works in accordance with conditions of Contract & the issue of a final acceptance certificate.

3.1.7 "Site" shall mean the land upon which the works are to be constructed as specified in the Drawing.

### **3.2 DETAILS TO BE SUBMITTED ALONG WITH THE TENDER**

The tender, as submitted, shall consist of the following:

- a) Soft copy of Un-Priced Tender Document duly filled in, stamped, and signed by the Bidders as prescribed in different clauses of Tender documents. The bid shall only be submitted online as per the format provided by the Agency/Bank. No hard copy of technical bid & priced bid shall be submitted. The price bid file in .xls /.doc format (excel /word file) shall be provided, bidder to fill in their item-wise rates, print the excel file, write bidders details, stamp, sign, scan and upload the same.
- b) The Power of Attorney or authorization, or any other document consisting of adequate proof of the ability of the signatory to bind the bidder, in original, when the power of attorney is a special "Power of Attorney" relating to the specific tender of SBI only. A Notarised true copy of the "Power of Attorney" shall also be accepted in lieu of the original,



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if the power of attorney is a general "Power of Attorney". However, photocopy of such Notarised true copy shall not be accepted.

- c) PAN / GST / PF / ESI registration certificates.
- d) Any other documents required as per the terms of this tender.

**3.3 PERFORMANCE GUARANTEE:**

- a) The **Performance Guarantee/SD** to ensure the performance of the contractor shall be as terms & conditions stipulated in the tender. This deposit shall be held in the form of Bank Guarantee (BG)/Demand Draft (DD) for the like amount, for the period of warranty from the date of commissioning of the system, at Administrative Office, SBI, Ranchi, Jharkhand. The amount shall stand released to the contractor at the end of the said term, if no bar is placed on such release, in writing, by the monitoring authority of the contract i.e., the DGM (B&O), State Bank of India, AO Ranchi, **on the grounds of proven deficiencies, inability or unwillingness in fulfilling the contractual obligations. In case of any serious deficiency by the contractor in fulfilling the contractual obligations, the Bank shall have the right to forfeit the said deposit either fully or partly, as it deems reasonable.**
- b) The lowest bidder to deposit initial security deposit of **05%** of the contract value in the form of BG issued by any nationalized / scheduled bank other than SBI.
- c) The Vendor shall guarantee that the equipment and workmanship of work done, and any fittings designed / manufactured / supplied by him are as specified in the tender schedule and wherever there is nothing specifically mentioned shall correspond to the best available grade and quality as required for the application.
- d) The Vendor shall also guarantee that the work done, and any fittings designed, manufactured, supplied and erected shall be as per prevailing relevant standard, codes and statutory practices / stipulations.

**3.4 WARRANTY: MAINTENANCE DURING WARRANTY PERIOD.**

- a) Warranty / Guarantee shall be comprehensive one, of free replacement of any failed components in the system, except in cases of misuse, relocation, accidents or sabotage. The Vendor will repair and/or replace all defective parts, components / fittings, accessories etc. which shall be notified in writing within the Defect Liability Period, promptly at free of cost. The Vendor will provide similar warranty on the parts, components, fittings, accessories etc. repaired and/ or replaced. The warranty shall also entail free, on-site, preventive maintenance of the system at quarterly intervals as per the prescribed maintenance schedule. There shall be no let or relief on this account. A proper record of all such maintenance work duly authenticated by the authorized SBI Official shall be kept by the Vendor and a copy of the same shall be submitted to the Fire Officer / Authorized Official SBI for his record.
- b) During warranty period of one year, the firm shall **mandatorily** attend to any number of break-down calls without any additional charges with free replacement of spares/accessories/equipment etc. and any break down shall be repaired **within 72 hrs.** Failure on this score may invite penal action.
- c) For this purpose, communication by any means e.g., Letter, Email, SMS, Instant Messages, Mobile Phone Calls etc., which are independently logged will be considered sufficient and the vendor shall have no right to insist on any other form of communication. For all Electronic Forms of communications, the time of sending shall also be considered



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as time of receipt by the vendor unless the vendor is able to prove delayed receipt of such communication.

- d) Any modification/shifting/extension of the system shall be carried out on chargeable basis.
- e) Any part/equipment required to be replaced shall be genuine and as per relevant BIS specifications or its equivalent, ISI marked and superior quality standards.

**3.5 EXTRA ITEMS OF WORK**

- a) During execution of the work, should the Vendor come across items of work which are not covered under the Schedule of Rate or not included therein, the Vendor shall draw the attention of the SBI / Bank's Engineer to the same and such items of work shall be treated as extra only with the prior approval of Bank's Engineer in writing. Vendor shall submit a quotation along with the rate analysis for such accepted extra items before he commences work or purchases the materials in connection with such items.
- b) For extra items, rates shall be derived from similar item rates included in the schedule of work. Where there is no such similar item available in the schedule, rate shall be analyzed as follows: Rate for extra item = Cost of material including transportation till site (a) + cost of labour inclusive of all necessary tools, tackles, equipment, machinery, and consumable required to carry out the work (b) + 15% of (a+b) towards profit and overhead + taxes, duties etc.

**3.6 RIGHT OF SBI TO TERMINATE THE CONTRACT**

SBI shall, at any time, be entitled to determine and terminate the Contract, if in the opinion of the SBI the cessation of the work becomes necessary owing to paucity of funds or for any other cause whatsoever, in which case the cost of approved materials at the Site at current market rates as verified and approved by Bank's Engineer and of the value of the work done to date by the Vendor shall be paid for in full as specified in the Contract.

- a) A notice in writing from the SBI to the Vendor of such determination and termination and the reason thereof, shall be the conclusive proof of the fact that the Contract has been so determined and terminated by the SBI. The SBI's decision on the necessity and propriety of such expenditure shall be final and conclusive and binding on the Vendor.
- b) A notice in writing from the SBI to the Vendor of such determination and termination and the reason thereof, shall be the conclusive proof of the fact that the Contract has been so determined and terminated by the SBI. The SBI's decision on the necessity and propriety of such expenditure shall be final and conclusive and binding on the Vendor.

**3.7 LABOUR LAWS**

- a) No Labour below the age of eighteen (18) years shall be employed on work. In case female workers are engaged, requisite provisions shall be made as per the statute.
- b) Vendor shall not pay less than what is provided under law to laborers engaged by him on work.



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- c) Vendor shall at his expense comply with all labour laws and keep SBI indemnified in respect thereof.
- d) In addition to the above, rules and regulations as contained in Contract Labourer (Regulation and Abolition) Act, 1970 will also be applicable for this contract.
- e) Vendor shall secure full safety of the workers / employees engaged by him in the Site premises and shall take at his own cost, insurances, and other such safety regulations for the said purpose.

**3.8 HSE REQUIREMENTS BY VENDORS**

**3.8.1 Housekeeping:**

- a) Vendors shall ensure that their work area is kept clean, tidy, and free from debris. The work areas must be cleaned on a daily basis. Any disposal of waste shall be done by the Vendor.
- b) All equipment, materials and vehicles shall be stored in an orderly manner. Access to emergency equipment, exits, fire extinguishers, fire hoses, pathway etc. shall not be blocked or disturbed.

**3.8.2 Confined Space:**

Before commencing Work in a confined space, the Vendor must obtain from SBI a Permit to Work that will define the requirements to be followed. As minimum, the Vendors must ensure the following:

- a) Confined spaces are kept identified and marked by a sign near the entrance(s).
- b) Adequate ventilation is provided
- c) Adequate emergency provisions are in place
- d) Appropriate air monitoring is performed to ensure oxygen is above 20%.
- e) Persons are provided with Confined Space training.
- f) All necessary equipment and support personnel required to enter a Confined space is provided.

**3.8.3 Tools, Equipment and Machinery:**

The Vendor must ensure that all tools & equipment provided for use during the Work is: Suitable for its intended use.

- a) Safe for use, maintained in a safe condition and where necessary, inspected to ensure this remains the case (any inspection must be carried out by a competent person).
- b) Used only by people who have received adequate information, instruction, and training to use the tool or equipment.
- c) Always provided with Earth leakage circuit breaker (ELCBs) / MCBs etc. when using electric power cords. Use of electrical tape for temporary repairs is prohibited.

### **3.8.4 Working at Height:**

Any work undertaken where there is a risk of fall and injury is considered to be working at height. For any Vendor Personnel working at height, Vendors shall provide Fall Prevention whenever possible and Fall Protection only when Fall Prevention is not practicable. Before commencing Work in a height, the Vendor must obtain from SBI a Permit to Work that will define the requirements to be followed. Supervisor must be present at all point of time, to ensure no deviation occur during work.

### **3.8.5 Fall Prevention System:**

Fall prevention systems (e.g., fixed guardrails, scaffolds, elevated work platforms) must provide protection for areas with open sides, including exposed floor openings.

### **3.8.6 Fall Protection Systems:**

Where Fall Protection Systems are used, the Vendor must ensure the following is applied:

- a) Only approved full body harness and two shock-absorbing lanyards are used,
- b) Prior establishment of a rescue plan for the immediate rescue of an employee in the event they experience a fall while using the system.
- c) Anchorage points must be at waist level or higher; and capable of supporting at least the attached weight.
- d) Lifeline systems must be approved by SBI before use.
- e) Use of ISI marked Industrial helmet at all point of time.

### **3.8.7 Scaffolding:**

- a) All scaffolds shall be erected as per BIS 3696 and subject to a documented inspection by a competent person and clearly marked prior to use. The footings or anchorage for scaffolds shall be sound, rigid and capable of carrying the maximum intended load without settling or displacement. All scaffolding materials should be of MS tubular type.
- b) Guardrails and toe-boards shall be installed on all open sides and ends of scaffold platforms. Scaffolds shall be provided with an access ladder or equivalent safe access. Vendor Personnel shall not climb or work from scaffold handrails, mid-rails or brace members.

### **3.8.8 Stairways and Ladders:**

- a) Ladders should only be used for light duty, short-term work or access in line with the Site Requirements.
- b) Fabricated ladders are prohibited.
- c) Ladders will be secured to keep them from shifting, slipping, being knocked or blown over.
- d) Ladders will never be tied to facility services piping, conduits, or ventilation ducting.
- e) Ladders will be lowered and securely stored at the end of each workday.
- f) Ladders shall be maintained free of oil, grease, and other slipping hazards
- g) Ladders will be visually inspected by a competent person and approved for use before being put into service. Each user shall inspect ladders visually before using.



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- h) Ladders with structural defects shall be tagged "Do Not Use," immediately taken out of service, and removed from the Site by the end of the day.

**3.8.9 Lifting Equipment and Accessories:**

- a) All lifting equipment / accessories e.g., Slings, Chains, Webbing, Chain blocks, Winches, Jacks etc shall be indicated with their safe working load and marked with an identification number visible on the unit and be inspected and tested in accordance with legal requirements.
- b) Damaged equipment / accessories and equipment shall be tagged "out of use" and immediately removed from Site.

**3.8.10 Lockout Tag out ("LOTO"):**

Prior to performing work on machines or equipment, the Vendor shall ensure that it is familiar with LOTO and Permit to Work procedures and that all of its affected Vendor Personnel receive the necessary training.

**3.8.11 Barricades:**

Floor openings, stairwells, platforms, walkways, and trench, where a person can fall at any distance/height, shall be adequately barricaded and where necessary, well lit. Where there is a risk of injury from a fall then rigid barriers must be used.

Barricades must also be used to prevent personnel entering an area where risk of injury is high e.g., during overhead work activity or electrical testing etc. Such barricading must provide clear visual warning.

Compressed Gas Cylinders shall be securely stored and transported and identified and used in line with the local requirements. Hose lines shall be inspected and tested for leaks in line with local requirements. Flash back arrestor to be used to prevent any explosion due to backfire.

**3.8.12 Electrical Safety:**

- a) Prior to undertaking any work on live electrical equipment, the Vendor must obtain a Permit to Work from SBI. Wherever possible live work should be avoided. Any control measures highlighted, shall be implemented prior to work commencing. The below measures will be taken:
- b) Work practices must protect against direct or indirect body contact by means of tools or materials and be suitable for work conditions and the exposed voltage level.
- c) Energized panels will be closed after normal working hours and whenever they are unattended. Temporary wiring will be de-energized when not in use.
- d) Only qualified electrical Vendor personnel may enter substations and/or transformer and only after being specifically authorized by SBI.
- e) Electrical Safety device such as ELCB, MCB, RRCB etc. to be provided before making connection.



**3.8.13 Hot Works:**

- a) A Permit to Work must be obtained from SBI prior to any hot works (welding, grinding, open flame work). Suitable fire extinguishing equipment shall be made available in the near vicinity. Objects to be welded, cut or heated shall be moved to a designated safe location, or, if they cannot be readily moved, all movable fire hazards in the vicinity shall be taken to a safe place. Personnel working around or below the hot work shall be protected from falling or flying objects.
- b) Prior to the use of temporary propane or resistance heating devices, approval must be obtained from SBI.

**3.8.14 Trenching, Excavating, Drilling and Concreting:**

- a) A Permit to Work must be obtained from SBI and all underground lines; equipment and electrical cables shall be identified and located prior to beginning the work. The Vendor shall assign a competent Vendor Personnel to all trenching and excavation work.
- b) Safe means of access and egress shall be located in trench excavations. Daily inspections shall be conducted by a competent Vendor Personnel for evidence of a situation that could result in possible cave-ins, indications of failure of protective systems or other hazardous conditions. Physical barriers shall be placed around or over trenches and excavations.

**3.8.15 Environmental Requirements: Waste Management:**

- a) The Vendor is responsible to remove any waste generated by the work being done on the Site. The Vendor must dispose of the waste in line with the relevant local legislative requirements. The waste disposal route shall be documented and made available for SBI to review at any time and may be subject to SBI's prior approval.
- b) Wastes (includes rinse from washing of equipment, PPE, tools, etc) are not to be poured into sinks, drains, toilets, or storm sewers, or onto the ground. Solid or liquid wastes that are hazardous or regulated in any way are not to be disposed of in general site waste receptacles.
- c) **Spills:** The Vendor is responsible for the provision of adequate spill kits/protection and the clean-up and disposal costs arising from such spills.
- d) **Emissions:** The Vendor shall identify and quantify any emission sources associated with the Works. The control measures associated with these emissions shall be subject to the approval of SBI's Emissions include but are not limited to noise, dust, fumes, vapours.

a) **3.8.16 Gas Cutting Activity:**

- a) The gas cylinder shall be carried in a trolley.
- b) The rubber hose fitted to the gas cylinder shall be of good quality and sufficiently long.
- c) The gas cylinder shall be fitted with gas regulator and pressure gauges which must be in good working condition. Non-return valve shall be provided on the gas cylinder to prevent back fire.
- d) All the joints on gas cylinder, gas cylinder valves, gas holder connection, gas rubber hose joints etc shall be free from any type of leakage.
- e) The operator shall wear helmet, hand gloves, safety goggles, shoes etc while carrying out the activity. While working at height safety belt shall be used. The operator shall use gas lighter to light the gas.
- f) The workplace and its surrounding areas shall be free from any flammable or combustible materials.



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- g) The gas cylinder shall be kept away from any hot object.
- h) The gas hose shall be kept away to prevent any contact with the falling hot material.
- i) The area below and its surrounding shall be free from any other activity and be cordoned off.
- j) Fire extinguishing medium like fire extinguishers, water or sand shall be available at the workplace.
- k) After completion of the job close the valve of the gas cylinder and discharge the gas from the gas hose. Keep the gas cylinder and gas pipe in a proper place.



**TECHNICAL SPECIFICATIONS FOR SITC (SUPPLY, INSTALLATION, TESTING AND COMMISSIONING) AND AMC (ANNUAL MAINTENANCE CONTRACT) FOR FIRE HYDRANT SYSTEM OF ADMINISTRATIVE OFFICE BUILDING, SBI, RANCHI, JHARKHAND.**

**4.1 GENERAL**

- a) This specification is intended to cover residual engineering, supply, fabrication, erection, testing and commissioning of the Fixed Fire Protection system, as per enclosed Schedule of Work, drawings, and tender terms & conditions inclusive of the supply of all labour, supervision, tools, equipment, and erection materials as necessary.
- b) The specification shall be read in conjunction with the Conditions of Contract, Schedule of Work/Bill of Quantity as enclosed with this Specification. However, in the event of any conflict between Schedule of Work/Bill of Quantity and Technical Specification or item description mentioned in Schedule of Work/Bill of Quantity shall prevail.

**4.2 STANDARDS & CODES**

- a) The complete supply and installation work for the equipment and accessories covered under this specification shall be designed, manufactured, erected, tested and commissioned in accordance with the latest BIS. In cases where IS are not available, the equipment and accessories shall conform to the latest publication of recognized National Standard Institutions.
- b) All fire-protection equipment and installation work shall also conform to National Building Code and Local Fire Department. Fire Department and Fire Insurance Regulations as regards to safety, earthing and other essential provisions specified therein for installation and operation of the systems.

**4.3 SCOPE OF WORK**

- a) The details of various equipment relevant to the Fixed Fire Protection System have been elaborated in the subsequent sections of this document.
- b) All equipment, materials, hardware and accessories to be supplied by the bidder shall be brand new ones and make specified as in the tender. For other approved equivalent make, prior written approval of the SBI shall be obtained for which detail technical document & Data sheet for all such items with make etc. shall be furnished along with application for SBI review and acceptance.
- c) All relevant drawings, technical data sheets and technical leaflets/catalogues, Test Certificates of major items shall be submitted.
- d) Furnishing of all labour, skilled and unskilled, supervisory personnel, tools and tackles for fabrication / erection, testing equipment, implements, supplies, consumables, and hardware for timely and efficient execution of the site work.
- e) The item of work to be performed on all equipment and materials shall include but not be limited to the following:
  - i. Receiving, unloading of the materials at site.
  - ii. Opening, inspection and reporting all damages and short supply of items.



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- iii. Arranging to repair and/or re-order all damaged and short supply items.
  - iv. Storing at site with suitable all-weather protection.
  - v. Side-Shifting of materials as directed by Engineer-in Charge.
  - vi. Assembly, erection, and complete installation.
  - vii. Necessary co-ordination between works done by the other Vendors.
  - viii. Final check-up, testing and commissioning in presence of SBI's representative.
  - ix. Trial run for seven days, rectification of defects, if any and adjustment as necessary.
- f) Preparation of **as built drawings and submission of the same in soft copies (in AutoCAD / Microsoft Word/excel/pdf format) as well as in hard copies.**
- g) Reference shall be drawn to the "Schedule of Work" for quantity of major items.
- h) Vendor will be given a place (only) for storing his materials, tools, tackles. Vendor shall store (at his own cost) at that designated place to keep his materials, tools & tackles. Vendor shall make proper security arrangement for his materials till the installation is taken over by the SBI. SBI will not be responsible for any theft/loss of materials.
- i) Construction power and water: Power & Water is available during execution same may be providing to the Vendor as its existing building.

#### 4.4 TESTS

- a) The installation work shall be tested by the Vendor after completion of his erection / installation work with an advance notice to the engineer so that he or his authorized representative may witness the same also.
- b) The Vendor shall carry out Test as per relevant codes & standards and record the same in proper format. **All piping after installation shall be tested for a hydrostatic test pressure of 10 Kg/Sq cm maintained for 24 hours. All joints and valves shall be checked for leaks and rectified and retested.** During testing all valves except drain & air valves shall be kept fully open. After completion of the tests, the recorded test results shall be submitted to the SBI for his approval and acceptance.
- c) The test result of any installation or equipment or its part, if considered not satisfactory to the engineer, the concerned installation / equipment and its accessories shall be properly rectified by the Vendor and shall be tested again to the satisfaction of the engineer by the Vendor at his own cost.
- d) Material Quality and Certification: All pipes, elbows, and associated fittings must strictly conform to **relevant national or international specifications** (e.g., BIS, ASTM). The contractor is required to submit original **Test Certificates**, which must be issued or validated by a laboratory **holding valid NABL (National Accreditation Board for Testing and Calibration Laboratories) accreditation.**

#### 4.5 FIRE SPRINKLER SYSTEM

- a) The sprinkler system shall be installed in the parking area as per tender drawings complete with Sprinkler Installation Control Valves, Sprinkler Main, Branch and internal piping, valves, Alarms and supporting arrangements, Sprinkler heads with spare sprinklers, Flow switches, and Connections to risers etc. All material shall be of the best quality conforming to specifications and subject to the approval of the Bank's Engineer. Pipes and fittings shall be fixed truly vertical/horizontal or on slopes required in a neat manner. Pipes shall be fixed in such a manner to provide easy accessibility for repair and maintenance. Pipes

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shall be securely fixed to walls and ceilings by suitable clamps at intervals specified. Only approved types of anchor fasteners shall be used for RCC ceilings and walls. Valves and other equipment shall be so located that they are easily accessible for operation, repairs, and maintenance.

- b) The sprinkler system shall incorporate one (as shown on drawings) installation Control valve assemblies comprising of i) A main gate valve ii) In and out pressure gauge iii) Test connection of adequate size with valve and orifice plate with pressure connections & iv) Water motor and Gong with necessary piping isolating valve and strainer and drain.
- c) The installation valve shall be straight through type suitable for wet pipe sprinkler systems. Valves shall be of cast iron with gun metal internals and suitable for vertical or horizontal installation.
- d) There shall be two pressure gauges, one for the mains side and another for the installation side. Each gauge shall have pressure damping brass piping with gun metal gauge and drain.
- e) A test connection of adequate size as shown on drawings or as approved shall be provided with a shut-off gate valve, an orifice plate with pressure connections. The discharge from the test connection outlet shall be left to the nearest sump or drain as shown on drawings or as directed.
- f) The mains water motor and Gong shall preferably be of cast gun metal body and internals. The valve shall have an associated gun metal gate valve, strainer preceding the water motor. The water motor and Gong shall be located on the discharge lead as shown in drawings or as directed.
- g) All piping shall be as specified under "Piping for Fire Fighting". Necessary line flushing valves shall be provided as shown on drawings or as required to.
- h) The sprinkler heads shall be UL listed fixed temperature type with a quartzoid bulb containing liquid having high vapor pressure held in position by a forged GM yoke and deflector. The rated temperature of quartzoid bulb shall be 68 deg. C. The spacing shall however conform to the detailed drawing, in Co-ordination with electrical and other allied services at the ceiling level. An inspection test connection shall be provided on the down streamside of the system. Sprinklers for below false ceiling shall be fixed with

**4.6 PIPING**

- a) Piping to be laid over ground shall be supported on pipe rack / supports. Rack/support details shall have to be approved by SBI.
- b) Surface of over ground pipes except galvanized pipes shall be thoroughly cleaned of mill scale, rust etc. by wire brushing.
- c) All pipes inside the building and where specified, outside the building shall be MS C Class conforming to IS: 1239 - Heavy. Pipes 200/150 mm dia. and above shall be M.S. as per IS: 3589 with minimum 6 mm wall thick & fittings shall be fabricated from pipes confirming to IS 3589. Pipes shall be carefully laid to the alignment, levels and gradients and great care shall be taken to prevent any sand, earth or other matter from entering the pipes during laying. Pipes shall be kept thoroughly clean during the course of laying. The ends of pipes shall be blocked with wooden plugs wedged home, at the end of each day's work to prevent dirt and rodents, insects etc., entering the pipe.
- d) Pipes up to 50mm dia, tapered screwed / Socket welded / Butt welded type jointing shall be adopted, while for pipes above 50mm dia welded or flanged connections shall be used. Flanged joints shall be made with 3 mm thick insertion rubber washer /Gaskets. All bolt holes in flanges shall be drilled & making hole by using gas cutting is not acceptable. The drilling of each flange shall be in accordance with relevant Standards.

- e) Flanged joints shall be used for connections to vessel, equipment, flanged valves and also on suitable straight lengths of pipeline at strategic points to facilitate erection and subsequent maintenance work. The Bolts /Nuts / Washers used in the system shall be in accordance with relevant Standards.
- f) Pipe Painting: All pipes above ground shall be painted with 2 coats of epoxy primer and 2 coats of Synthetic Enamel paint of Fire Red shade.
- g) Butterfly Valves: Butterfly valves shall be as per BS 5155 & provided for pipes 50mm dia and above on downstream (delivery side) of the pumps. The valves shall be PN 1.2 rating.
- h) Air Release Valves: Air release valve is 25mm screwed inlet GM single acting type and shall be fixed on all high points in the system (wet riser) with Ball valves or as shown on drawings.
- i) Drain Valves: Gun metal Gate / Ball valve of 15 / 25 / 40 / 50mmdia as per IS; 778 with fittings as required for instruments / draining any water in the system / Risers in low points.
- j) All welding to be done as V shaped 3 layer running welding.
- k) Pipes must be laid on a minimum 6-inch sand bed, covered with 12 inches of sand, and properly wrapped for protection.
- l) Standard anti-corrosion coating process to protect underground fire protection pipes. The 2-coat epoxy primer offers strong adhesion and rust prevention against soil moisture, while the 2-coat Synthetic Enamel (Fire Red) provides a visible safety color to protect the underlying layers.

## **4.7 FIRE PUMPS**

### **4.7.1 PUMP-1 (Diesel engine driven Fire Pump)**

Providing, fixing, testing and commissioning of Diesel Engine driven common stand by Fire pump set, horizontal centrifugal end suction back pull-out type with Mechanical Seal, Bronze Impeller, SS Shaft, Coupling, Coupling Guard, MOC- CI Casing, Bronze Impeller, SS Shaft, and capable to deliver 2280 LPM at 70 M head. The pump shall couple to suitable HP of Diesel engine radiator water cooled type with speed of 1800 RPM and complete set shall be mounted on common base frame. Batteries & battery leads with stand, Fuel tank (200 Ltrs.) with stand & transparent pipe for Diesel level, Fuel piping with valves, foundation Bolts etc. as required complete as per manufacturers recommendations.

### **4.7.2 PUMP-2 (Electrically driven Main Fire Pump)**

Providing, fixing, testing and commissioning of 2 Pole, 3 Phase, 50 Hz, Electrical Motor driven Fire Main Pump set of horizontal centrifugal end suction back pull-out type with Mechanical Seal, MOC- CI Casing, Bronze Impeller, SS Shaft and capable to deliver 2280 LPM at 70 M head. the pump shall be coupled to TEFC motor of suitable hp with speed of 2900 RPM and complete set shall mounted on common base frame including coupling, coupling guard, foundation bolts etc., complete as per the manufactures recommendations (one each for Hydrant & Sprinkler system respectively).

### **4.7.3 PUMP-3 (Jockey Pump)**

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Supplying, installation, testing and commissioning of electric driven pressurization pump suitable for automatic operation and consisting of following, complete in all respects, as required: (Jockey Pump) Horizontal type, multistage, centrifugal pump of cast iron body and bronze impeller with stainless steel shaft, mechanical seal conforming to IS: 1520. Suitable HP squirrel cage induction motor TEFC type suitable for operation on 415 volts, 3 phase 50 Hz AC supply with IP 55 class of protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS: 325. M.S. fabricated Common base plate, coupling, coupling guard, foundation bolts etc. as required. Suitable cement concrete foundation duly plastered and with anti-vibration pads. Specified flow of 180 LPM at 70 Meter Head.

**4.7.4 PUMP-4 (Terrace Pump)**

Supply, Installation, Testing & Commissioning of Electric Driven Terrace pump for Hydrant applications suitable for automatic operation and consisting of following details given as under. (Make- Kirloskar/ABB/Siemens) i. Horizontal Single stage Centrifugal End suction, back pull type pump complete for delivery of below mentioned discharge, with necessary accessories the suction side (all items to be matching with the suction side dia of the pump) including bypass arrangement for Testing of pump ii. Material of construction: Pump Casing - Cast Iron, Impellor - Bronze, Shaft - SS 410, Packing - Mechanical Seal iii. Pump shall be capable of furnishing not less than 150 % of rated capacity at a head not less than 65 % of the rated head. The shut off head shall not exceed 120 % of rated head iv. Squirrel cage induction motor suitable for 3 phase, 415 V, 50 HZ, Ac supply T.E.F.C conforming to IP:55, of required HP suitable for the above pump, along with flexible coupling, coupling guard complete in all respect v. Common bed plate fabricated from mild steel channel for installation of pump and Motor vi. Pump technical sheet which confirming required specifications issued by manufacturer to be submitted. vii. Suitable cement concrete foundation duly plastered with anti-vibration pads. 950 LPM (7.5 HP) suitable for 35 Mtr Head, single stage. Also, SITC of Starter Panel, fabricated for capable of Operation of 450 / 900 LPM Terrace Pump or capable of start up to 7.5/10 HP pump and having provision for automatic starting by pressure switches, control mounting shall include necessary lamps indications, ammeters for motor full load circuit with CTs and selector switch, auto/manual selector switch voltmeter with selector switch controlling push button etc. The panel shall be duly painted with protective anticorrosive and shall be foot mounted/wall mounted type including all accessories. (Make- L&T/ABB/ Siemens)

**4.8 COMMON CONTROL PANEL**

Providing, fixing, testing, and commissioning of compartmentalized common control panel with mechanical and electrical interlock facility for the above fire pumps. All the components shall be housed in a common cubical made of 16 SWG. M.S. sheet with required stiffeners). The panel shall be powder coated of approved colour both inside & outside. The panel shall have both bottom & top cable entry provisions and panel shall be mounted on Pedestal of 300 mm height. The given feeder size is only indicative, actual shall be as per OEM, vendor has to consider the same in their quote. Housing made of MS fabricated Body- 16SWG, and Switchgears of L&T Makes **CPRI APPROVED.**

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**4.8.1 INCOMING** 400A, 50kA 4 Pole MCCB, Ics=100% Icu Rating Digital Voltmeter 0-500V with selector switch Ammeter (0-400 A) with selector switch & CTs etc. LED type RYB phase indicating lamps, ON, OFF, trip indicating lamps Set of Copper Bus Bar 500Amps OUTGOING (Note: All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type ON, OFF, 2025trip indicating lamps)

**4.8.2 MAIN FIRE PUMP & SPRINKLER PUMP (ELECTRICAL PANEL SPEC)** 125 Amp, 50kA TPN MCCB, Ics=100% Icu, with fully automatic Star/Delta starter suitable for 60 hp pump with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation.

**4.8.3 JOCKEY PUMP (ELECTRICAL PANEL SPEC)** 63 Amp, 50kA TPN MCCB, Ics=100% Icu, with Suitable HP fully automatic Star/Delta starter with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation.

**4.8.4 DIESEL ENGINE CONTROL (ELECTRICAL PANEL SPEC)** Control for diesel engine comprising -Automatic/Manual selector switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication Battery charger suitable for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC voltmeter, and 0-20 A DC Ammeter All standard relays and accessories for automatic operation of diesel engine.

**4.8.5 SYSTEM CONTROLLER** Designing, Supply, Installation, Testing, and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault indication, complete as per specification.

**4.9 DESIGN CONFIRMATION / BIS CODES**

**NOTE: "BIS CODES TO BE FOLLOWED AS REFERENCE " FOR SITC (SUPPLY, INSTALLATION, TESTING AND COMMISSIONING) AND AMC (ANNUAL MAINTENANCE CONTRACT) FOR FIRE HYDRANT SYSTEM OF ADMINISTRATIVE OFFICE BUILDING, SBI, RANCHI, JHARKHAND".**

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

- a) IS: 15105: Design, installation, and maintenance of fixed automatic sprinkler fire extinguishing systems (revised).
- b) IS: 884-1995: Specification for first Aid Hose Reel for Fire Fighting (revised).
- 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).

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- 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).
- 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 (revised).
- v) IS: 1239: Providing, fixing, testing and commissioning of Above Ground M.S. ERW BlackC 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).

**4.10 TERMS & CONDITIONS FOR ANNUAL MAINTENANCE CONTRACT (AMC)**

**(UNDER WARRANTY) OF FIXED FIRE PROTECTION SYSTEM ARRANGEMENTS LIKE DIESEL ENGINE PUMP, SPRINKLER SYSTEM ETC. INSTALLED AT STATE BANK OF INDIA ADMINSTRATIVE OFFICE, RANCHI (JHARKHAND)**

**4.10.1 SCOPE OF WORK:**

- a. During warranty period of one year the scope of work in Annual Maintenance Contract shall include checking, cleaning, repairing, maintenance, and painting of complete water suppression system at the site to ensure 24x7 operation of the system. The system shall be maintained on "AS IS WHERE IS" basis. Any modification/shifting/extension of the system shall be carried out on chargeable basis.
- b. Annual maintenance Contracts for above mentioned system will be Comprehensive in nature, with free replacement of all spares and accessories, and individual equipment.

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- c. Annual maintenance Contracts for above mentioned system will be Comprehensive in nature, with free replacement of all spares and accessories, except batteries, Engine Lube oil and Diesel.
- d. During the currency of the contract, the firm will attend to any number of break-down calls without any additional charges and any break down will be repaired within 72 hrs. For this purpose, communication by any means e.g., Letter, Email, SMS, Instant Messages, Mobile Phone Calls etc., which are independently logged will be considered sufficient and the vendor shall have no right to insist on any other form of communication. For all Electronic Forms of communications, the time of sending shall also be considered as time of receipt by the vendor unless the vendor is able to prove delayed receipt of such communication.
- e. All the accessories inside the pump house and on the yard, will be painted once in a year with Fire Red (Shade No. 536 or 538) conforming to IS 5 standards.
- f. Any part required to be replaced shall be genuine and from Original Equipment Manufacturer (OEM). The detailed scope of works is given below.

**4.10.2 DIESEL FIRE PUMP TESTING (ON QUARTERLY BASIS)**

Capacity of pump shall be checked as per the prescribed manufacturer manuals, and the preventive maintenance shall be as follows.

- a) Adjustment/tightening of the nuts, bolts of the pump and motor/engine and other fitments.
- b) Checking of fuel, electrical, cooling and lubrication system of the diesel engine.
- c) Checking and cleaning of oil bath filter, lubrication of filter, fuel filters etc.
- d) Checking of fuel injection pump (FIP) and governor.
- e) Changing of lubrication oil (as per maintenance manual of the engine only when required).
- f) Adjustment of valve clearance etc. as and when required.
- g) Checking of cylinder heads nuts for specific torque in proper sequence.
- h) Checking the batteries and testing of batteries for charged conditions with the help of measuring meter and maintenance of the battery from the corrosion.
- i) Checking of working of alternator/Dynamo/starter.
- j) Cleaning, functional testing and servicing/maintenance of control panels.
- k) Maintenance of exhaust manifold for leaks and tightness.
- l) Polishing of all the brass parts.
- m) Fire brigade's inlet connection to be checked.
- n) Greasing of pump bearings, changing of peaking ropes (gland dory), and adjusting the glands.
- o) All gauges to be tested and readings to be recorded in logbook.
- p) Check all the hydrant valves and close if any valve is open. Also, check that all suction and delivery connection are made properly.
- q) During usual servicing/maintenance if any defects are noticed, or any recommendations/suggestions for the system improvement should be brought to the notice of the Fire Officer. Recommendation will be examined and if any alternation and addition is to be made, prior permission to be obtained and inventory to be made in the concerned logbook.
- r) If any spare parts are required to be replaced to maintain the system for working condition, the same shall be procured by the Vendor as per the prevailing current market rates subject to the satisfaction/approval of our authorized authority and the spare parts should be original.

#### **4.10.3 FIRE PUMP TESTING (ON QUARTERLY BASIS)**

- a) Test (s) shall be conducted to determine the delivery head flow KWH and BHP of the pumps. All leaks, pressure dropping and defects in the joints, tees, elbows, valves etc. revealed during the test shall be rectified. The pumps shall also be tested for its desired performance and function by opening hydrants valves on each floor/yard separately and floor landing. The starting and cutting out pressure setting of starting devices shall also be checked for its correct operation.
- b) Maintain all pumps joints, piping valves, accessories, pipe connections, electrical wiring motor (s) and motor control panels. The following test results shall be recorded in a separate logbook and countersigned by us.
- c) Spare parts provided by the company (as and when required) should be of BIS specifications, ISI marked and of superior quality standards.
- d) Polishing of all brass parts.
- e) At the time of opening any valve in the system (in case of leakage or pressure drop also) the electric pump should start automatically/manually for which the MCC and pressure vessels to be checked and maintained.
- f) Empty the whole system once in every three months.
- g) Check all hydrant valves. Also, check that all suction and delivery connections are properly functional.
- h) Test run and check rotation of each motor and correct the same if required.
- i) Fire Brigade inlet connection to be checked.
- j) Greasing of pump bearings, changing of packing ropes, and adjust the glands.
- k) All gauges to be tested and readings to be recorded.
- l) Once in three months' hose pipe drill to be carried out. The hose pipes 63mm dia (RRL/Non-percolating/CP) to be tested. Check each landing valve male female couplings and branch pipes for compatibility with each other.

#### **4.10.4 OTHER ACCESSORIES (ON QUARTERLY BASIS):**

- a. Butterfly Valve/Sluice Valve: -Regular cleaning of deposits/scales on the wedges flaps gates changing of packing rope changing of the gasket changing of rusted nuts and bolts greasing and leakage arresting.
- b. Non-return valve: Regular cleaning of deposits/scales on the wedges. Inside flaps etc. changing of rubber gaskets and leakage arresting.
- c. Air Release valve: -Cleaning greasing of spring adjustment of spring tension etc.
- d. Pressure switches: -Testing of pressure switches.
- e. Control panel: -Testing of control panel for pumps for all functions and the readings to be recorded in the logbook.
- f. Open hydrant valve and allow the water to flow into the firewater tank in order to avoid wastage of water the main fire pump should start at the pre-set pressure.
- g. The entire hydrant opening should be pressure tested and same should be logged in logbook.

#### **4.10.5 TESTING OF ELECTRICAL PANELS & STARTER (ON QUARTERLY BASIS):-**

- a) Operation of all instruments and meters provided on the electrical panel board.
- b) Tightening of all electrical contacts on quarterly basis.

#### 4.10.6 PIPE WORK (ON QUARTERLY BASIS): -

- a) Check the entire clamp supports provided for the pipes.
- b) Check rusting of pipes from within / outside at joints.
- c) Painting of Water pipes (double coat) **once in a year with Indian standard fire red colour.**

#### 4.11 MAINTENANCE SCHEDULE OF FIXED FIRE PROTECTION SYSTEM ARRANGEMENTS

**4.11.1 Daily Checks** A logbook must be maintained by the technician for the following daily checks:

S. No.	Particulars of Task	Date	Remarks
1	The <b>Fire pump room</b> must be ensured to be accessible, clean, and without storage.		
2	The <b>Pump controller</b> must be verified to show a normal indication.		
3	<b>Valves</b> for suction and discharge must be confirmed to be open and sealed.		
4	<b>Pressure gauges</b> must be checked for normal readings.		
5	The <b>Water supply</b> must be verified to be available.		
6	All <b>Electric, Diesel, Jockey, and Terrace pumps</b> must be operated.		

#### 4.11.2 Weekly Checks

S. No.	Particulars of Task	Date	Remarks
1	An automatic start test must be conducted for <b>both electric and diesel fire pumps.</b>		
2	Suction and discharge pressure must be recorded.		
3	The diesel pump must be run as per the standard requirements of <b>NFPA 25 &amp; BIS 15101.</b>		
4	The fuel, oil, and coolant levels of the diesel engine must be checked.		
5	The diesel engine battery voltage and charger must be checked.		
6	All <b>valves</b> must be ensured to be <b>locked/sealed</b> , and supervisory alarms must be checked for functionality.		
7	The <b>pressure of the air compressor</b> and dry pipe must be checked.		
8	The <b>hooter alarm system</b> must be tested.		

#### 4.11.3 Monthly Checks

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S. No.	Particulars of Task	Date	Remarks
1	<b>Gauges</b> on wet/dry pipe systems must be checked.		
2	<b>Valve supervisory signals</b> must be inspected.		
3	<b>Water flow alarms</b> must be tested.		
4	The operation of <b>Electric, Diesel, Jockey, and Terrace pumps</b> must be verified.		
5	<b>Gauge readings</b> must be recorded in the logbook.		
6	<b>Brass parts</b> must be cleaned and <b>hydrant valves</b> must be inspected.		
7	<b>Each motor's rotation</b> must be checked with a test run.		
8	<b>Hydrant valves, suction, and delivery connections</b> must be inspected.		
9	A <b>hose pipe drill</b> must be conducted once every three months.		

#### 4.11.4 Quarterly Checks

This quarterly maintenance covers Diesel Engine, Pumps, Valves, Electrical Systems, and Piping.

S. No.	Particulars of Task	Date	Remarks
1	<b>Nuts and bolts</b> on the pump, motor/engine, and other fittings must be adjusted and tightened.		
2	The <b>fuel, electrical, cooling, and lubrication systems</b> of the diesel engine must be checked.		
3	<b>Oil bath filters and fuel filters</b> must be checked, cleaned, and lubricated.		
4	The <b>fuel injection pump (FIP) and governor</b> must be checked.		
5	<b>Lubrication oil</b> must be changed as required, following the engine's maintenance manual.		
6	<b>Valve clearance</b> must be adjusted as and when required.		
7	<b>Cylinder head nuts</b> must be checked for specific torque in the proper sequence.		
8	<b>Batteries</b> must be checked, tested for charged condition with a meter, and maintained to prevent corrosion.		
9	The working of the <b>alternator/dynamo/starter</b> must be checked.		
10	<b>Control panels</b> must be cleaned, functionally tested, and serviced/maintained.		
11	The <b>exhaust manifold</b> must be maintained for leaks and tightness.		
12	All <b>brass parts</b> must be polished.		
13	The <b>fire brigade's inlet connection</b> must be checked.		

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14	<b>Pump bearings</b> must be greased, <b>packing ropes</b> must be changed, and the <b>glands</b> must be adjusted.		
15	All <b>gauges</b> must be tested and the readings recorded in the logbook.		
16	All <b>hydrant valves</b> must be checked (and closed if open), ensuring suction and delivery connections are properly made/functional.		
17	<b>Pump tests</b> must be conducted to determine the <b>delivery head, flow, KWH, and BHP</b> of the pumps.		
18	All <b>leaks, pressure drops, and defects</b> in joints, tees, elbows, and valves revealed during the tests must be rectified.		
19	The pump's performance and function must be tested by <b>opening hydrant valves</b> on each floor/yard separately.		
20	The <b>starting and cutting-out pressure settings</b> of starting devices must be checked for correct operation.		
21	All pump joints, piping, valves, accessories, pipe connections, electrical wiring, motors, and motor control panels must be maintained.		
22	The <b>whole system</b> must be emptied once every three months.		
23	<b>Hose pipes</b> must be tested, and <b>male/female couplings and branch pipes</b> must be checked for compatibility.		
24	<b>Butterfly/Sluice Valves</b> must undergo regular cleaning of deposits/scales, change of packing rope/gaskets, change of rusted nuts/bolts, greasing, and leakage arresting.		
25	<b>Non-return valves</b> must undergo regular cleaning of deposits/scales, change of rubber gaskets, and leakage arresting.		
26	<b>Air release valves</b> must be cleaned, springs greased, and spring tension adjusted.		
27	<b>Pressure switches</b> must be tested.		
28	A <b>hydrant valve</b> must be opened to flow water into the firewater tank to ensure the main fire pump starts automatically at the pre-set pressure.		
29	The entire <b>hydrant opening</b> must be <b>pressure tested</b> and logged in the logbook.		
30	The operation of all instruments and meters on the electrical panel board must be checked.		
31	All <b>electrical contacts</b> on electrical panels and starters must be tightened.		
32	All <b>clamp supports</b> provided for the pipes must be checked.		



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33	<b>Pipes</b> must be checked for <b>rusting</b> from within and outside at the joints.		
34	The <b>sprinkler pendent</b> in the building and the <b>pressurization system</b> must be checked.		

#### 4.11.5 Yearly Checks

The Yearly Checks include the following tasks, with a focus on comprehensive performance testing and system appearance:

S. No.	Particulars of Task	Date	Remarks
1	A <b>fire pump flow test</b> must be performed at <b>churn (no-flow), 100% of rated capacity, and 150% of rated capacity.</b>		
2	An <b>obstruction investigation</b> for piping must be conducted if foreign material is suspected.		
3	<b>Electrical panels and starters</b> must be checked, and all contacts must be tightened.		
4	While running the pump at rated speed, measurements must be recorded, including <b>flow rate, net pump pressure, suction pressure, Pump RPM, voltage &amp; amperage (electric motor), and diesel engine parameters</b> (fuel pressure, oil pressure, coolant temp, battery voltage).		
5	The <b>pump curve</b> must be plotted and <b>compared to the manufacturer's original test curve.</b>		
6	Any significant performance drop ( <b>&gt;5% reduction in pressure/flow</b> ) must be investigated.		
7	All accessories inside the pump house and on the yard must be <b>painted once a year</b> with <b>Indian Standard fire red colour.</b>		

If any defects are noticed during servicing, or any suggestions for system improvement are made, they should be brought to the notice of the Fire Officer. Recommendations must be examined, and any alteration or addition requires prior permission and inventory of entry in the logbook.

#### 4.12 OBTAINING OF NO OBJECTION CERTIFICATE

If local fire brigade insists for inspection by their competent authority for the fire and fire safety measures, firefighting tools, apparatus etc. and to carry out still photography and video recording as evidence that it has to be arranged and handed over to the Competent authority.

**Renewal of Fire NOC (Fire Certificate) from Local Fire Brigade, Ranchi will have to be done by the vendor. (License fee will be paid by the vendor & to be reimbursed from the Bank).**



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**Annual Maintenance Contract (initially for a period of one year from the date of completion of the project work): -**

The selected bidder should mandatorily provide one trained skilled technician during the office hours to keep the system operational 24/7 for a period of 1 year (warranty period under Annual Maintenance Contract). It is responsibility of the selected bidder to make the payment of the skilled technician on monthly basis as per the Minimum Wage Policy applicable in Ranchi. The AMC amount will be inclusive of the deployment of one trained skilled technician during office hours to keep the system operational 24/7.

The skilled technician may also be engaged in the day-to-day Fire Safety activities of the Administrative Office Ranchi i.e., verification of the installed Fire Alarm System, Fire Extinguishers, Fire Safety Training, Mock Fire Drill activities etc. through the empanelled firm of the building in consultation with the Zonal Fire Officer.

If the trained skilled technician is not available during the office hours, then it is responsibility of the selected bidder to provide the alternate skilled technician. The selected bidder is responsible for the attending of the any numbers of the breakdown calls.

**Note:**

- a. The validity of the Annual Maintenance Contract shall be effective from the date of completion of the project work, and it shall be in force for an initial period of (01) Year from the date of completion of the project work, provided the Firm is not empanelled or empanelment of the Firm is not cancelled, revoked, suspended by the Bank or have ceased to exist by efflux of time or for any reason what so ever and upon the firm not being an empanelled firm, the agreement shall automatically cease to have any effect.
- b. The validity of the Annual Maintenance Contract after completion of the one year of warranty period and pending the finalization of the fresh Annual Maintenance Contract process, may be renewed and extended at the discretion of the Bank on the existing terms and conditions for another three years to five years, provided that the vendor performance is found to be satisfactory during the Annual Maintenance Contract period. During this period, Bank shall reserve the right to cancel the Annual Maintenance Contract or go in for a fresh empanelment or extend the validity period of Annual Maintenance Contract at its sole discretion of the Bank and it shall be binding upon the vendor who is empanelled through this exercise.
- c. The AMC/services charges/fee for maintenance (inclusive of the deployment of one trained skilled technician during office hours) of the installed Fire Hydrant System will be made as per the quoted rate in the price bid for the period of one year (under warranty period).
  - i. Further, the AMC/services charges/fee for maintenance (inclusive of the deployment of one trained skilled technician during office hours) of the installed Fire Hydrant System for another three years to five years may be as below: -
    - ii. **1st year & 2nd year:** (after the warranty period of one year): 1.05 % of the quoted rate in the price bid for the period of one year (under warranty period).
    - iii. **3rd year & 4th year:** 1.10 % of the quoted rate in the price bid for the period of one year (under warranty period).
    - iv. **5th year:** 1.125 % of the quoted rate in the price bid for the period of one year (under warranty period) and so on.



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**SECTION-5**

**ANNEXURE - A**

**UNDERTAKING LETTER**

**TO BE FILLED AND SUBMITTED BY APPLICANT**

**Deputy General Manager (B&O),**  
State Bank of India,  
Administrative Office,  
Court Compound, Kutchery Chowk,  
Ranchi, Jharkhand 834001

Dear Sir,

**SITC (SUPPLY, INSTALLATION, TESTING AND COMMISSIONING) AND AMC  
(ANNUAL MAINTENANCE CONTRACT) FOR FIRE HYDRANT SYSTEM OF  
ADMINISTRATIVE OFFICE BUILDING AND RBO-1 BUILDING, STATE BANK OF  
INDIA, RANCHI**

**Ref:** AORAN/AO/2026-27/06/003

I/We refer to the tender notice issued by you for works in connection with the above.

2. I, undertake to submit the tender document along with all Terms & Conditions, Specifications and subsequent annexure and corrigendum's (if any) duly signed and stamped by authorized representative / signatory on becoming L1. However, we accept all the terms and conditions along with the Specifications, Drawings, and Layout 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 abide by and fulfil all the terms and provisions of the said conditions annexed here to.



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- 5. Complete the works within stipulated (03 Calendar Months) time period as per the work program enclosed with the tender in two or three shifts if considered necessary by the Employer at no extra cost to the Employer.
- 6. as stipulated in the tender document which, I/We note, will not bear any interest and is liable for forfeiture.
- 7. I/We understand that you are not bound to accept the lowest or any tender you receive.

Yours faithfully,

Signature .....

Designation .....

Name of Partner / Director of the Firm authorized to sign or name of person having power of attorney to sign the contract. (Certified true copy of power of attorney should be attached)

Signature and address of witnesses:

a. Signature .....

b. Signature.....

Name .....

Name .....

Address .....

Address .....



**SECTION-6**

**ANNEXURE - B**

BANK GUARANTEE

(PERFORMA)

Letter of Guarantee No.

Dated: the day of

THE GUARANTEE is executed at **Ranchi** on the day of .....by ..... (set out full name and address of the Bank) (hereinafter referred to as “the Bank” which expression shall unless expressly executed or repugnant to the context or meaning thereof mean and include its successors and assigns).

WHEREAS SBI (local address), ..... an existing company within the meaning of the Companies Act, 1956 and having its **Administrative Office Building, SBI, Ranchi, Jharkhand, 834001**. (Hereinafter referred to as “the Company”) issued a Tender being No. dated (hereinafter referred to as “the said Tender”) for (set out purpose of the job) and pursuant thereto Messrs/ Mr. ....(set out full name and address of the Vendor) (hereinafter referred to as “the Vendor” which term or expression wherever the context so requires shall mean and include the partner or partners of the Vendor for the time being/his/its heirs, executors, administrators, successors and assigns) (delete which are not applicable) has accepted the said Tender and field its quotation.

AND WHEREAS the quotation of the Vendor had been accepted by the Company and in pursuance thereof an Order being No..... dated ..... (Hereinafter referred to as “the said Order”) has been placed by the Company on the Vendor for (set out purpose of the job).

AND WHEREAS under the terms of the said Order the Vendor is required to furnish the Company at their/his/its own costs and expenses a Bank Guarantee for Rs.....

(Rupees ..... only) as performance guarantee for the fulfillment of the terms and conditions of the said Tender and to do execute and perform



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the obligations of the Vendor under the Agreement dated the ..... day of ..... (hereinafter referred to as “the Agreement “) entered by and between the Company of the one part and the Vendor of the other part, the terms of the said Tender and the terms contained in the said Order which expression shall include all amendments and/or modifications/or variation thereto.

AND WHEREAS the Vendor had agreed to provide to the Company a Bank Guarantee as security for the due performance of their/his/its obligations truly and faithfully as hereinbefore mentioned.

NOW THIS GUARANTEE WITNESSETH as follows:

- i In consideration of the aforesaid premises at the request of the Vendor, we ..... (set out the full name of the Bank) the Bankers of the Vendor shall perform fully and faithfully their/his/its contractual obligations under the Agreement dated the ..... day of ..... entered by and between the Company of the one part and the Vendor of the other part, the terms and conditions of the said Tender and the said Order.
- ii We, ..... (set out full name of the Bank) do hereby undertake to pay to the Company without any deduction whatsoever a sum not exceeding Rs ..... (Rupees ..... only) without any protest, demur or proof or condition on receipt of a written demand from the Company stating that the amount claimed is due by way of loss and damage caused to or would be caused to or suffered by the Company due to bad workmanship or by reason of breach of any of the terms and conditions of the Agreement, the said Tender and the said Order hereinbefore mentioned.
- iii The Guarantee is issued as security against due performance of the obligations of the Vendor or under the Agreement aforesaid and the said Tender and the said Order hereinbefore mentioned and subject to the conditions that our liability under this Guarantee is limited to a maximum sum of Rs ..... (Rupees ..... only) or the amount of loss or damage suffered or to be suffered by the Company in its opinion at any period of time, whichever is lower.



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- iv We, .....(set out full name of the Bank) further agree that the undertaking herein contained shall remain in full force for a period of months from the date of the satisfactory execution of the Contract.
- v This Guarantee shall not be affected by any amendment or change in the Agreement or change in the constitution of the Bank and/or the Company and/or the Vendor.
- vi We ..... (Set out full name of the Bank) undertake not to revoke this Agreement during its currency except with the previous consent of the Company in writing.
- vii All claim under this Guarantee must be presented to us within the time stipulated after which date the Company’s claim/right under this Guarantee shall be forfeited and we, ..... (set out full name of the Bank) shall be released and discharged from all liabilities hereunder.
- viii This instrument shall be returned upon its expiry or settlement of claim(s) if any, there under.
- ix Notwithstanding anything contained hereinbefore our total liabilities under this Guarantee shall not exceed a sum of Rs..... (Rupees ..... only) and unless a demand or claim in writing under this Guarantee reaches us on or before the date of ..... (last date of claim) and if no claim is received by us by that date all rights and claims of the Company under this Guarantee shall be forfeited and we, ..... (set out full name of the Bank) shall be released and discharged of all our liabilities under this Guarantee thereafter.
- x We have power to issue this guarantee in your favour under our Memorandum and Articles of Association and the undersigned has full power to execute this Guarantee under Power of Attorney dated the ..... day of ..... granted to him by the Bank.

Place:

Date:



SECTION-7

ANNEXURE – C

LIST OF APPROVED MAKES FOR FIREFIGHTING 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	Kirloskar, Lubi, Wilo (Mather & Patt), KSB or EAM or equivalent acceptable to the bank.
2.	Electric motor	Lubi, Kirloskar, Wilo, KSB or EAM or equivalent acceptable to the bank.
3.	Diesel Engine	Lubi, Kirloskar, Wilo, KSB or EAM or or equivalent acceptable to the bank.
4.	Battery	Exide /Amron / Bosch or equivalent acceptable to the bank.
5.	M.S. Pipe	Jindal Hisar, Tata, Surya, (ISI Marked)
6.	Gate Valves	Shah Bhogilal / KBL / Upadhya/ Kalpana/ Kartar/Zoloto/Audco /Sant or equivalent acceptable to the bank.
7.	Non- Return Valves	Shah Bhogilal / KBL / Upadhya/ Kalpana/ Kartar/Zoloto/Audco /Sant or equivalent acceptable to the bank.
8.	Sluice Valve	Shah Bhogilal / KBL / Upadhya/ Kalpana/ Kartar/Zoloto/Audco /Sant or equivalent acceptable to the bank.
9.	CI Non-Return Valve	Shah Bhogilal / Upadhya/ Kalpana/ Kartar/Zoloto/Advance /Audco /Sant or equivalent acceptable to the bank.

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10.	CI Butterfly valves	Shah Bhogilal / KBL / Upadhya/ Kalpana/ Kartar/Zoloto/Audco or equivalent acceptable to the bank.
11.	Hydrant valve	Shah Bhogilal, GEI (Ghosh engg), Newage, Safex or equivalent acceptable to the bank.
12.	Y Type Strainer	Leader, Prime, Kartar, Hammer, Kalpana, or equivalent acceptable to the bank.
13.	Basket type Strainer	Leader, Prime, Kartar, Hammer, Kalpana, or equivalent acceptable to the bank.
14.	Pressure switch	Infosys, donfos, Switcher or equivalent acceptable to the bank.
15.	Pressure Gauge	H.Guru , Fiebig, Warree , Danfos or equivalent acceptable to the bank.
16.	Starter, Switches	L & T, Siemens or equivalent acceptable to the bank.
17.	Pump Panel Components	L & T, Siemens, Schneider, and ABB or equivalent acceptable to the bank.
18.	Flow switch	Honeywell, System Sensor, Potter or equivalent acceptable to the bank.
19.	Annunciation Panel	AGNI, RAVEL, System Sensor, Honeywell or equivalent acceptable to the bank.
20.	Cables	Incab, Gloster, CCI, Finolex, Polycab (ISI Marked) or equivalent acceptable to the bank.
21.	Fire Hose	Shah Bhogilal, Newage, Jayshree, CRC, Priyanka, BRG or equivalent acceptable to the bank.
22.	SS Branch Pipe & Nozzle	Shah Bhogilal, NewAge, GEI or equivalent acceptable to the bank.
23.	Hose Reel Drum	AAAG Shah Bhogilal, Newage, or equivalent acceptable to the bank.
24.	Rubber Hose	Dunlop, Deep Jyoti, Jyoti, & Padmini, or equivalent acceptable to the bank.
25.	S Ball Valve	Audco, Leader, Sant, & Zoloto or equivalent acceptable to the bank.
26.	CS Ball Valve	Audco, Leader, Sant & Zoloto or equivalent acceptable to the bank.
27.	Fire Brigade Inlet	AAAG (Shah Bhogilal), Newage, GEI (Ghosh engg), & New age or equivalent acceptable to the bank.
28.	Hose Box	Fabricated as per standard

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29.	Pipe Fittings	Bharat Forge / Tube Products / M.S. Fittings / VS Brand / E.A.M), as per Standard
30.	Quartzoid Bulb Type Sprinkler	HD, TYCO or equivalent acceptable to the bank. (UL – Listed)
31.	Paint (as per IS: Fire Red)	Asian Pain, Nerolec, Burger or equivalent acceptable to the bank.
32.	Anticorrosive Tap	Pipekot, IWL, Rustech or equivalent acceptable to the bank.
33.	Fire seal	Sealz, alstroflam, abacus or equivalent acceptable to the bank.
34.	HDPE Tank	intex/ polycon /plasto /supreme or equivalent acceptable to the bank.
35.	RCC Pipes	ISI Marked
36.	Portable Ground Monitor	AAAG (Shah Bhogilal), Newage, HD Fire or equivalent acceptable to the bank.
37.	Water Monitor	AAAG (Shah Bhogilal), Newage, HD Fire or equivalent acceptable to the bank.

**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.



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- 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.

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

Signature of Witness,

Signature of Bidder

Address:

Date:

SEAL OF THE FIRM



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**SECTION-8**

**ANNEXURE - D**

**UNDERTAKING LETTER**

**TO BE FILLED AND SUBMITTED BY APPLICANT**

**Deputy General Manager (B&O),**  
State Bank of India,  
Administrative Office,  
Court Compound, Kutchery Chowk,  
Ranchi, Jharkhand 834001

Dear Sir,

**ALL FIRE/ELECTRICAL WORKS WILL BE ONLY EXECUTED BY  
TRAINED/COMPETENT TEAM**

**Ref:** AORAN/AO/2026-27/06/003

I/We.....hereby  
undertake that I shall execute the **Fire and Electrical works with  
trained/experienced/competent team.**

2. My firm ..... have a team of all Fire and Electrical personnel who are  
trained, experienced and competent and shall be able to execute the works as per the valid codes  
and guidelines.

**3. The Electrical team shall have valid Electrical license.**

4. If any deviation is found, the empanelment is liable to be canceled without any notice.

Place:

Signature with seal:

Date:

Name in Block Letter:

Designation:

Address:



**SECTION-9**

**BILL OF QUANTITIES (BOQ)**

(AS PER ANNEXURE-III IN SEPARATE ATTACHMENT FILE)

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**SECTION-10**

**DRAWINGS**

(AS PER ANNEXURE-II IN SEPARATE ATTACHMENT FILE)

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