



Notice Inviting e-Tender (NIT)

1. e-Tender No.	RBI/Delhi Regional Office/Estate/3/24-25/ET/236[DSITC of Analog Fire Alarm Sys]
2. Name of the Work	Design, Supply, Installation, Testing, and commissioning of Intelligent Analog Addressable Fire Alarm system for the Bank's Main Office Building and Annex Building at RBI New Delhi.
3. Mode of Tender	e-Procurement System, Online (Part I – Techno-Commercial Bid and Part II - Financial Bid) through the website https://www.mstcecommerce.com/eprochome/rbi
4. Date & time from which NIT (along with complete tender documents) will be available to the parties to download from MSTC portal	On July 24, 2024 from 18:00 Hrs.
5. Date and venue of the Pre Bid Meeting (offline)	On July 31, 2024 at 11 Hrs. Venue: - Estate Dept. Reserve Bank of India, 6, Sansad Marg, New Delhi-110001
6. Estimated cost of the work	Rs.58.00 Lakhs (Rupees Fifty-Eight Lakhs Only)
7. Earnest Money Deposit (EMD)	₹.1,16,000/- (Rupees One Lakh Sixteen Thousand Only) in the form of NEFT/Demand Draft / Bank Guarantee as per para 3.11.1 of the tender to be submitted in person at Estate Department, 6, Sansad Marg, New Delhi-110001 NEFT: A/C No-186004001, Reserve Bank of India, IFSC Code - RBIS0NDPA01 (0=Zero), Branch Name – New Delhi. The details of NEFT transaction have to be provided to estatenedelhi@rbi.org.in
8. Last date of submission of EMD	before 14:00 Hrs. on August 28, 2024
9. Performance Bank Guarantee (PBG)	10 % of Contract amount.

10. Time allowed for completion of the works from 14 th day after the date of written order to commence work	180 Days.
11. Bidding start date of Techno-commercial Bid and Financial Bid on MSTC portal	On July 24, 2024 from 18:00 Hrs.
12. Date of closing of online e-Tender for submission of Techno-commercial Bid and Financial Bid	On August 28, 2024 up to 14:00 Hrs.
13. Date & Time of opening of Part-I (i.e. Techno-Commercial Bid)	On August 28, 2024 at 15:00 Hrs.
14. Date & Time of opening of Part- II (i.e. Financial Bid)	Will be intimated to the eligible bidders.
15. Transaction fees	Charges for participation in e-procurement will be made to M/s MSTC Ltd. through MSTC Gateway/NEFT/RTGS in favour of MSTC Limited or as advised by M/s MSTC Ltd.
16. Tender fees for download from portal	Nil.



Reserve Bank of India / भारतीय रिज़र्व बैंक
Estate Department / संपदा विभाग
New Delhi / नई दिल्ली

e-Tender No: RBI/New Delhi Regional Office/Estate/3/24-25/ET/236

**e-Tender For
Design, Supply, Installation, Testing and commissioning (DSITC) of Intelligent
Analog Addressable Fire Alarm system for the Bank's Main Office Building and
Annex Building at RBI New Delhi.**

Part -I

Name of Tenderer: _____

Address: _____

Date of Pre Bid Meeting : July 31, 2024 at 11:00 Hrs.

Due date and time for Submission of e-Tender: August 28, 2024 upto 14:00 Hrs.

Date of opening of Part- I of e-Tender : August 28, 2024 at 15:00 Hrs.

Venue : Estate Department, RBI, New Delhi
06, Sansad Marg New Delhi -110001,

DISCLAIMER

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The information is not intended to be exhaustive. Interested parties are required to make their own inquiries and respondents will be required to confirm in writing that they have done so, and they do not rely only on the information provided by RBI in submitting the Tender. The information is provided on the basis that it is non-binding on Reserve Bank of India or any of its authorities or agencies or any of their respective officers, employees, agents or advisors.

Reserve Bank of India reserves the right not to proceed with the Project or to change the configuration of the Project, to alter the timetable reflected in this document or to change the process or procedure to be applied. It also reserves the right to decline to discuss the matter further with any party expressing interest.

No reimbursement of cost of any type will be paid to persons or entities expressing interest.

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Reserve Bank of India / भारतीय रिज़र्व बैंक
Estate Department / संपदा विभाग
New Delhi / नई दिल्ली

NOTICE INVITING e-TENDER

RBI/Delhi Regional Office/Estate/3/24-25/ET/236[DSITC of Analog Fire Alarm Sys]

Design, Supply, Installation, Testing and commissioning of Intelligent Analog Addressable Fire Alarm system for the Bank's Main Office Building and Annex Building at RBI New Delhi

- | | |
|----|---|
| 1. | Tenders by e- tendering process are invited for the "Design, Supply, Installation, Testing and commissioning of Intelligent Analog Addressable Fire Alarm system for the Bank's Main Office Building and Annex Building at RBI New Delhi". The work is estimated to cost ₹.58.00 Lakhs and is to be completed within 180 Days from the 14 th day of issue of work order. |
| 2. | All pre-Qualification documents shall be uploaded with Techno-commercial bid (Part-I) on MSTC portal. Those who do not upload the Pre-qualification documents would not be considered for this tender process. Further, the contractor should submit the original of the documents to the Bank when demanded to qualify for further tendering process. |

3.	<p>Only those OEM or authorized dealers with valid dealership certificate who are GST registered and have (i) minimum 5 years of experience in the field of work of similar nature (i.e. Design, Supply, Installation, Testing and commissioning of Intelligent Analog Addressable Fire Alarm for the large commercial/ office building). The similar work should have been completed on or after June 30, 2019 (ii) have executed three or more similar works individually costing not less than 40% of the estimated cost “OR” two works costing not less than 50% of the estimated cost “OR” one work costing not less than 80% of the estimated cost during the last 5 years ending on May 31, 2024 (ii) have a minimum yearly turnover of 100% of the estimated cost during the last 3 years (2021-22, 2022-23 and 2023-24) (iv) Should furnish solvency certificate issued by the Applicant’s banker, specifically for the purpose of the above work for an amount equal to estimated cost and (v) have a service set up in New Delhi or NCR for rendering after sales service are eligible for tender.</p> <p>Note- Similar work refers to works such as fire alarm system to related to it.</p>	
4.	<p>Only those contractors will be considered eligible who will invariably furnish/ upload, at the time of applying for e-tender, the following information to satisfy the Bank about their eligibility for participating in the tendering process.</p>	
4.(a)	<p>Composition of the firm</p>	<p>Full particulars (whether contractor is an individual, or a partnership firm, or a company etc.) of the composition of the firm of contractors in detail should be uploaded along with name(s) and address (es) of the partners, copy of the Articles of Association / Power of Attorney / any other relevant document.</p>
4.(b)	<p>Work experience & Completion of similar works of specified value during the specified period.</p>	<p>Copies of the detailed work order indicating date of award, value of awarded work, time given for completing the work, etc. and the corresponding completion certificates indicating actual date of completion and actual value of executed similar works should be uploaded in proof of the work experience. The details along with documentary evidence of previous experience, if any, of carrying out works for the Reserve Bank of India at any center should also be given.</p>

4.(c)	Creditworthiness of the contractor & their Turnover during the specified period.	Copies of the Income Tax Clearance Certificates / Income Tax Assessment Orders along with the latest final accounts of the business of the contractor duly certified by a Chartered Accountant should be uploaded in proof of their creditworthiness and turnover for last three years.
4.(d)	Service Set-up	Certificate from the manufacturers / any other valid document in support of having a full-fledged service setup at New Delhi should be uploaded.
4.(e)	Name(s) & address (es) of the Bankers and their present contact executives	Written information about the names and addresses of their bankers along with full details, like names postal addresses, e-mail IDs, telephone (landline and mobile) nos. fax nos., etc., of the contact executives (i.e. the persons who can be contacted at the office of their banker by the Bank in case it is so needed) should be uploaded.
4.(f)	Details of bank accounts	Full particulars of their bank accounts, like account No., type, when opened, etc., should be given.
4.(g)	Name (s) & address (es) of the Clients and their present contact executives	Information about the names and addresses of their clients along with full details, like names postal addresses, e-mail IDs, telephone (landline and mobile) nos. fax nos., etc., of the contact executives (i.e. the persons who can be contacted at the office of their banker by the Bank in case it is so needed) should be furnished.
4.(h)	Details of completed works	The Client-wise names of work(s), year(s) of execution of work(s) , awarded and actual cost(s) of executed work(s), completion time stipulated in the contract (s) and actual time taken to complete the work (s), name(s) and full contact-details of the officer / authorities / departments under whom the work (s) was / were executed should be furnished.

4.(i)	Client Certificates	The tenderers are advised to upload the Client Certificate as per enclosed Proforma (Annex-VI) from their clients for whom they have carried out “eligible works “in terms of eligibility (Pre-qualification) criteria described in the notice inviting tenders. Client Certificates shall be accepted by the applicant / tender inviting authority of Reserve Bank of India only when the same are signed by an official of the rank of Executive Engineer or equivalent in respect of a Government / Semi Government organization or a PSU and only when they are supported by adequate proof of payment received by the tender for the work done by them. The client certificate issued by the private organization shall also accompany Tax Deducted at source (TDS) certificate. Applications / tenders received without the specified certificates in specified format shall be rejected and the Bank shall have the right to independently verify the submitted certificates
4.(j)	Solvency certificate	The tenderers are advised to upload the Solvency certificate from their banker / bankers as per (Annex-III). Such certificate shall be addressed to the application / Tender inviting Authority of the Reserve Bank of India and shall be submitted along with their application / tender.
5.	Interested tenderers have to upload relevant documents satisfying all the points as stated above along with techno-commercial (Part-I) bid of tender. The same Eligibility documents and the scanned copy of EMD should be uploaded with Techno Commercial Bid (Part-I) on the MSTC portal. It is to be duly noted that the tender process shall be executed on the MSTC portal through e-Tendering.	
6.	In the event of intending tenderers’ failure to satisfy the Bank; the Bank reserves the right to refuse their participation .	
8.	Tender form will be available for downloading w.e.f July 24, 2024 from 18.00 Hrs. A pre-bid meeting will be held on July 31, 2024 at 11:00 Hrs. in the RBI New Delhi.	

9.	Tender form can be downloaded for viewing from RBI website www.rbi.org.in or www.mstcecommerce.com/eproc . The pre-Qualification papers and scanned copy of proof of EMD payment should be uploaded with Techno Commercial Bid (Part-I) on the MSTC portal. The Demand Draft or Bank Guarantee for EMD should reach in original in a sealed envelope to Estate Department, Reserve Bank of India, 6, Sansad Marg, New Delhi-110001 by 2 pm on August 28, 2024. If paid through NEFT, the NEFT receipt should be uploaded along with pre-qualification documents.
10.	Interested vendors/firms can participate in e – Tender after getting registration with www.mstcecommerce.com/eproc . Online Part I – Techno-Commercial Bid and Part II – Price Bid shall be opened through www.mstcecommerce.com/eproc and applicable transaction charges have to be paid by the firm.
11.	<p>Tender in prescribed format shall be submitted in two parts. Part-I of tender will contain the Bank's standard technical and commercial conditions for the proposed work, tenderers' covering letter, the EMD of ₹1,16,000/- should be submitted through NEFT transfer to A/C No - 186004001, Reserve Bank of India, IFSC Code - RBIS0NDPA01 (0=Zero), Branch Name – New Delhi , Branch Address – 6, Sansad Marg New Delhi -110001 Or by a demand draft issued by a Scheduled Bank in favour of 'Reserve Bank of India, New Delhi ' Or in the form of an irrevocable bank guarantee issued by a scheduled bank in the Bank's standard proforma which is available in the tender-form along with pre-Qualification documents. The documents pertaining to EMD should be scanned and uploaded with the pre-Qualification documents.</p> <p>Part-II of the tender will contain <u>no conditions</u> but Tenderer's Price Bid, Bank's Schedule of quantities, tender drawings, if any, only.</p>
12.	Part-I of the tenders will be submitted by the Tenderers in MSTC portal. The same will be opened by RBI on August 28, 2024 at 15.00 Hrs. Those tenderers who would like to depute their representatives, may depute their representatives to Estate Department, New Delhi, 6, Sansad Marg New Delhi -110001 for the same. Part II of the tender will be opened later. Due intimations will be given for the same only to the eligible vendors.

13.	The Bank shall obtain reports on the past performance of the tenderer from his clients and bankers. The Bank shall evaluate the said reports before opening of the Part-II of the tenders. If any tenderer is not found to possess the required eligibility for participating in the tendering process at any point of time and / or his performance reports received from his clients and / or his bankers and found unsatisfactory, the Bank reserves the right to reject his offer even after opening of Part-I of the tender. The Bank is not bound to assign any reason for doing so.
14.	The Bank is not bound to accept the lowest tender and reserves the right to accept either in full or in part of any tender. The Bank also reserves the right to reject all the tenders without assigning any reason thereof.
15.	The firm needs to fill the a) Particulars of firm, b) List of approved makes (Section -IX) (c) Proforma for details of Principal Banker and other Bankers (d) Proforma for details of similar works (each costing not less than mentioned) executed in last five years(from the date of submission) (e) Check list – General Condition and Commercial Conditions (Section V & VI) as per proforma given in the tender and upload the scanned filled documents along with the tender part-I on the MSTC portal (Please refer para 12 of the page No. 5).
16.	<p>Mandatory Bidding Requirements:</p> <p>Only OEM or Indian authorized dealer with valid dealership certificate are eligible for participation in the bidding process. Furnishing authorization certificate from OEMs for the exclusive purpose for participation in this tender shall not be acceptable and such tender bids shall be summarily rejected.</p> <p>The Bidder should have Technical back up on design; installation and commissioning of Fire Alarm and Detection system from the principal, and certificate to this effect from the principals should be submitted.</p> <p>The OEM (/Bidder) shall give a Certificate stating that their system is approved by UL/ EN / VDS.</p>

Place: New Delhi.

Date:

Regional Director

New Delhi

SCHEDULE OF TENDER (SOT)

1. e-Tender No.	RBI/Delhi Regional Office/Estate/3/24-25/ET/236[DSITC of Analog Fire Alarm Sys]
2. Name of the Work:	Design, Supply, Installation, Testing, and commissioning of Intelligent Analog Addressable Fire Alarm system for the Bank's Main Office Building and Annex Building at RBI New Delhi.
3. Mode of Tender:	e-Procurement System, Online (Part I – Techno-Commercial Bid and Part II - Financial Bid) through the website https://www.mstcecommerce.com/eprochome/rbi
4. Date & time from which NIT (along with complete tender documents) will be available to the parties to download from MSTC portal	On July 24, 2024 from 18:00 Hrs.
5. Date and venue of the Pre Bid Meeting (offline)	On July 31, 2024 at 11 Hrs. Venue: - Estate Dept. Reserve Bank of India, 6, Sansad Marg, New Delhi-110001
6. Estimated cost of the work:	Rs.58.00 Lakhs (Rupees Fifty Eight Lakhs Only)
7. Earnest Money Deposit (EMD)	₹1,16,000/- (Rupees One Lakh Sixteen Thousand Only) in the form of NEFT/Demand Draft / Bank Guarantee as per para 3.11.1 of the tender to be submitted in person at Estate Department, 6, Sansad Marg, New Delhi-110001 NEFT: A/C No-186004001, Reserve Bank of India, IFSC Code - RBIS0NDPA01 (0=Zero), Branch Name – New Delhi. The details of NEFT transaction have to be provided to estatenewdelhi@rbi.org.in
8. Last date of submission of EMD	before 14:00 Hrs. on August 28, 2024.

9. Performance Bank Guarantee (PBG)	10 % of Contract amount.
10. Time allowed for completion of the works from 14 th day after the date of written order to commence work	180 Days.
11. Bidding start date of Techno-commercial Bid and Financial Bid on MSTC portal	On July 24, 2024 from 18:00 Hrs.
12. Date of closing of online e-Tender for submission of Techno-commercial Bid and Financial Bid	On August 28, 2024 up to 14:00 Hrs.
13. Date & Time of opening of Part-I (i.e. Techno-Commercial Bid)	On August 28, 2024 at 15:00 Hrs.
14. Date & Time of opening of Part- II (i.e. Financial Bid)	Will be intimated to the eligible bidders.
15. Transaction fees	Charges for participation in e-procurement will be made to M/s MSTC Ltd. through MSTC Gateway/NEFT/RTGS in favour of MSTC Limited or as advised by M/s MSTC Ltd.
16. Tender fees for download from portal	Nil.

Important instructions for e-procurement

This is an e-procurement event of MSTC LTD. You are requested to read the terms & conditions of this tender before submitting your online tender. Bidders who do not comply with the conditions with documentary proof (wherever required) will not qualify in the Tender for opening of price bid.

Terms of Use of Service for Vendors

1. MSTC Limited shall be hereinafter referred to as "MSTC" or Administrator/Application Service Provider. The participating parties or individuals shall be hereinafter referred to as vendors.
2. The organization who is the purchaser of goods, works or services through the E-procurement system shall be hereinafter referred to as Buyers.
3. The E-procurement system may invite bids from vendors through the process of e-tender, Reverse e-Auction, Reverse e-Auction with Quantity cum Price bid or any other mode.
4. This set of terms and condition is general in nature and is a part and parcel of the terms and condition of use of E-procurement services.
5. Vendors have to fulfil all contractual liabilities arising out of the bids submitted by them on this e-procurement system. All procurement contracts subsequent to use of the e-Procurement system shall be entered into between the Buyers and the Vendors and MSTC shall not be a party in any such contract.
6. Only registered vendors shall be eligible to participate in any e-procurement event conducted on MSTC e-Procurement system.
7. Vendors are required to register with MSTC portal online as per proforma followed by submission of documents and / or fees to the Buyer for whom such registration has been sought. The Buyer shall decide the list of documents and the fees and shall be intimated to the vendors as soon as the vendors submit the on-line registration form. The vendors would generate their own user ID and password. Such vendors will be listed as registered vendors. No vendors without registration with MSTC portal will be able to bid for E-procurement.
8. Mere registration will not confer any right upon the vendors to participate in the E-procurement.
9. Depending on the type of the e-procurement (Open /Global / Limited), participation of vendors will be restricted. For Open type, all registered and activated vendors shall be eligible to participate in the bidding whereas for Limited type events, only such vendors will have access who will be pre-qualified by the Buyer.
10. The details of the E-procurement event shall be available to vendors through their logins in the form of NIT or Corrigendum. Un-registered vendors shall be able to download the NIT / Corrigendum by submitting some details.

- 11.** Vendors are required to have their own and valid Digital Signature Certificates (DSCs). Each vendor shall need his signing type DSC to sign and log in. During saving his bid in e-tender before final submission, a vendor shall need to have his Encryption type DSC.
- 12.** Vendors are required to note that only one DSC will be allowed to be used with an user id. DSCs are non-transferrable.
- 13.** By registering with MSTC e-procurement website, Vendors agree not to use, display, upload, modify, publish, transmit, update, share or store any information that

a.	belongs to another person,
b.	is harmful, threatening, abusive, harassing, blasphemous, objectionable, defamatory, vulgar, obscene, pornographic, paedophilic, libellous, invasive of another privacy, hateful, or racially, ethnically or otherwise objectionable, disparaging, relating or encouraging money laundering or gambling, or otherwise unlawful in any manner whatsoever;
c.	harm minors in any way,
d.	infringes any patent, trademark, copyright or other proprietary rights;
e.	violates any law for the time being in force;
f.	discloses sensitive personal information of other person or to which the user does not have any right to;
g.	causes annoyance or inconvenience or deceives or misleads the addressee about the origin of such messages or communicates any information which is grossly offensive or menacing in nature;
h.	impersonate another person;
i.	contains software viruses or any other computer code, files or programs designed to interrupt, destroy or limit the functionality of any computer resource;
j.	threatens the unity, integrity, defence, security or sovereignty of India, friendly relations with foreign states, or public order or causes incitement to the commission of any cognizable offence or prevents investigation of any offence or is insulting to any other nation.

- 14.** Vendors agree that MSTC shall be at liberty to de-register or suspend the registration of any Vendor due to their misusing of the facilities provided or due to any non-compliance of statutory guidelines / above instructions or due to any other infringement caused which is not as per the extant law of the land.
- 15.** Vendors agree that MSTC has taken all possible measures to safeguard the business interest of vendors and MSTC does not discriminate between Vendors.
- 16.** Vendors agree to keep MSTC indemnified against any loss incurred by them due to non-functioning or mal-functioning of MSTC e-procurement system owing to technical reason beyond the control of MSTC.

- 17.** The vendor acknowledges and agrees that wherever applicable, the content, including but not limited to text, software, music, sound photographs, graphics, video, or other material contained in website, including advertisements or information is protected by domestic and international copyrights, trademarks, service marks, patents, or other proprietary rights and laws. The vendor is permitted to utilize this material and information only for intended use, and shall not copy, reproduce, transmit, distribute, or create derivative works of such content or information without express authorization. MSTC/buyer shall not be held liable for any misuse or infringement of any trademark or copyright by the vendor, and the vendor shall be solely liable for any damages, claims, actions, etc. for infringement or violation of the same. MSTC/buyer reserves the right at its sole discretion to terminate the access of the vendor to the website if the vendor violates the provisions of this clause.
- 18.** Any dispute arising in connection with the interpretation or implementation of these terms and conditions shall be resolved by arbitration under the Arbitration and conciliation Act, 1996. The language of the arbitration shall be English. The place of arbitration shall be Kolkata, India. All disputes covered under this Arbitration clause shall be referred to the CMD, MSTC Ltd for adjudication by him or by his nominee.
- 19.** Only the Courts at Kolkata, India shall have the exclusive jurisdiction to entertain any dispute connected with the arbitration proceedings or any other matter or claim arising out of or in connection with the E-procurement.
- 20.** FORCE MAJURE: For any delay in performance due to any reason/cause beyond their control including fires, floods, go-slow, lockout, closure, pestilence, dispute with staff, dislocation of normal working condition, war, riots, epidemics, political upheavals, government action, civil commotion, breakdown of machinery including technical failures, shortage of labour, acts demands or otherwise or any other cause or conditions beyond the control of aforesaid cause or not and the existence of such cause or consequence MSTC / Buyer may extend the time of performance by such period as may be necessary to enable MSTC/Buyer to effect performance after the cause of delay will have ceased to exist. The provisions aforesaid shall not be limited or abrogated by any other terms of the contract whether printed or written.
- 21.** Vendors agree not to test the e-procurement system with false bids. The risk and consequence of any such false bid lies exclusively with the Vendor and MSTC/Buyer will be at liberty to take penal action against such Vendor as deemed fit.
- 22.** By registering with MSTC s e-procurement system, Vendors agree to pay transaction charges to MSTC on event basis. Such payment can be made by the Vendors either on-line or off-line as notified from time to time. The Vendor further agrees that if he fails to pay the transaction fee to MSTC before bidding in the e-procurement system, he should pay the same to MSTC forthwith on receipt of demand from MSTC. Failure to pay the transaction fee even after receipt of demand by MSTC, the Vendor user account in the e-procurement system may be suspended or cancelled by MSTC.
- 23.** Vendors agree that the terms and conditions of events as notified in the NIT / Corrigendum by the Buyer shall be read in conjunction with these terms and conditions. In case of any clash in the meaning / interpretation of the terms and conditions, the terms and conditions mentioned in the NIT / Corrigendum shall prevail.

- 24.** MSTC reserves the right to modify these terms and conditions from time to time. Vendors are requested to periodically check these terms and conditions for updates.

Section-I

Form of e-Tender

To,
The Regional Director
Reserve Bank of India
Estate Department,
6, Sansad Marg
New Delhi

Dear Sir/Madam,

We have carefully examined the specifications, designs and schedule of quantities relating to the works specified in the memorandum hereinafter set out and having visited and examined the installation site of the works specified in the said memorandum and having acquired the requisite information relating thereto as affecting the e-Tender. We hereby offer to execute the works specified in the said memorandum within the time specified in the said memorandum at the rates mentioned in the attached Schedule of Quantities and in accordance in all respects with specifications, designs and instructions in writing referred to in articles of agreement, general instructions to the Tenderers and special conditions, conditions hereinbefore referred to, specifications, data sheet and schedule of quantities and with such materials as are provided for, by and in all other respects, in accordance with such conditions so far as they may be applicable.

MEMORANDUM

(a)	Description of works	Design, Supply, Installation, Testing and commissioning (DSITC) of Intelligent Analog Addressable Fire Alarm system for the Bank's Main Office Building and Annexe Building at RBI, New Delhi.
(b)	Estimated cost	Rs. 58.00 Lakhs/- (Rupees Fifty Eight Lakhs only)
(c)	Mode of payment	As per clause 3.12 General Instructions to Tenderers and Special Conditions.
(d)	Earnest Money	Rs. 1,16,000/- (Rupees One Lakh Sixteen Thousand only)
(e)	Time allowed for completion of work from 14 th day after the date of letter advising acceptance of e-Tender.	180 Days

2. We also agree that our e-Tender will remain **valid for acceptance by the Bank for 90 days from the date of opening of Part I of the e-Tender** and this period of validity can be extended for such period as may be mutually agreed between the Bank and us in writing. We also agree to keep the Bank Guarantee towards earnest money valid during the entire period of validity of e-Tender, as per enclosed proforma ([Annexure -V](#)).

3. Should this e-Tender be accepted, I/we hereby agree to abide by and fulfil all the Terms and Conditions of the e-Tender and in default thereof, to forfeit and pay to you or your successors, or assignees or nominees such sums of money as are stipulated in the conditions contained in the e-Tender together with the written acceptance of the Contract.

4. I/We understand that you reserve the right to accept or reject any or all the e-Tender either in full or in part without assigning any reason therefor. We have deposited a sum of **Rs. 1,16,000/-** as earnest money with the Reserve Bank of India, which amount is not to bear any interest. Should we fail to execute the Contract when called upon to do so, we do hereby agree that this sum shall be forfeited by us to the Reserve Bank of India.

5. The e-Tender documents are duly signed, filled and submitted / uploaded in two parts separately through online. Part I contains all commercial terms and conditions and technical particulars and Part II contains only the price bid in the Bank's proforma.

Dated this _____ day of _____ 2024.

For and on behalf of M/s _____

(Signature with seal)

Name _____
Designation _____
Place _____
Date _____

(Certified true copy of the Power of Attorney of the above signatory should be enclosed).

Witnesses

(1) Signature with _____
name, address and date _____

(2) Signature with _____
name, address and date _____

Section-II

ARTICLES OF AGREEMENT

ARTICLES OF AGREEMENT made the _____ day of _____, between the Reserve Bank of India, having its Office at New Delhi (hereinafter called "THE EMPLOYER") of the one part and _____ (hereinafter called "THE CONTRACTOR") of the other part.

WHEREAS the Employer is desirous of doing the work of **Design, Supply, Installation, Testing and commissioning (DSITC) of Intelligent Analog Addressable Fire Alarm system for the Bank's Main Office Building and Annex Building at RBI New Delhi** and specifications describing the work to be done.

AND WHEREAS the said Specifications and the Schedule of Quantities have been signed by or on behalf of the parties hereto.

AND WHEREAS the Contractor has agreed to execute upon and subject to the conditions set forth in the Conditions and in the Schedule of Quantities and Conditions of Contract (all of which are collectively hereinafter referred to as "the said Conditions") the works described in the said Specifications and included in the said Schedule of Quantities at the respective rates therein set forth amounting to the payable thereunder (hereinafter referred to as "the said Contract Amount").

NOW IT IS HEREBY AGREED AS FOLLOWS:

1. In consideration hereinafter mentioned, the Contractor shall upon and subject to the said Conditions annexed, execute and complete the work shown upon the said Drawings and described by or referred to in the said Specifications and the Schedule of Quantities.
2. The Employer shall pay the Contractor the said Contract Amount, or such other sum as shall become payable, at the times and in the manner specified in the said conditions.
3. In the said Conditions herein before mentioned, the General Manager / Deputy General Manager of the Estate Department, Reserve Bank of India, New Delhi shall act on behalf of the Employer.
4. The said Conditions and Appendix thereto shall be read and constructed as forming part of this Agreement, and the parties hereto shall respectively abide by, submit themselves to the said conditions and the correspondence and perform the agreements on their part respectively in the said Conditions contained.
5. The drawing, agreement and documents mentioned herein shall form the basis of this Contract.

6. The Contract is neither a fixed lump sum Contract nor a Piece Work Contract but is a Contract to carry out the complete work amounting to Rs.----- inclusive of GST amount to be paid for according to actual measured quantities at the rates contained in the Schedule of work and Probable quantities or as provided in the said Conditions.

7. The Contractor shall afford every reasonable facility for carrying out of all works or other contractors appointed by the Employer and shall make good any damages done to walls, floors, etc. after the completion of such works.

8. The Employer reserves to itself the right of altering the items to be executed by adding to or omitting any items of work or having portions of the same carried out without prejudice to this Contract. However, the Contractor shall not be entitled to any payment for the works done exceeding the tender quantities unless specifically approved in writing by the Engineer.

9. Time shall be considered as the essence of this Contract and the Contractor hereby agrees to commence the work/job soon after the site is handed over to him or from tenth day after the date of issue of formal work order as provided for in the said Conditions whichever is later and to complete the entire work within **180 Days** subject nevertheless subject to the provisions for extension of time **in writing by such form (i.e. by way of a deed or agreement or by exchange of letters /emails) as may be mutually decided by the parties.**

10. Warranty / Defects Liability Period.

The equipment's supplied & installed i.e. the entire work, shall be guaranteed against all types of defects for a period of one year from the date of handing over of the equipment to the Bank. Any defects found in the system/sub-assemblies within the guarantee period shall be rectified / replaced by the tenderer free of cost. During this period, servicing at quarterly interval or earlier, as prescribed by the manufacturer and as mutually agreed to, shall be carried out free-of-cost. Tenderer shall also indicate the service facility available at the places of installation and technical set-up and the telephone number and address of their service Centre. The tenderers shall indicate details such as the service Centre from which the proposed systems will be serviced, the staff strength at that Centre and the availability of spares for the system at that center.

The tenderers shall also quote their charges for providing all-inclusive comprehensive maintenance service applicable after the expiry of the one-year guarantee period. The scope of the contract will include at least FOUR servicing / preventive maintenance at quarterly intervals in a year and ANY NUMBER of breakdown calls round the clock. Preventive maintenance should include all the activities as recommended by the OEM including upgradation of software, cleaning of equipment's etc. It may be noted by the tenderers that the Bank will not provide any kind of assistance in the form of man/material/transport etc. and the tenderers will have to make their own arrangements for deputing the required skilled manpower including all necessary spares for setting right the reported/observed defects.

The scope during the DLP and AMC will be as follows:

(a) Any defect(s) in the system/sub-assemblies, found within the guarantee period and the annual maintenance contract period shall be rectified / replaced by the tenderer without any additional cost including replacement of detectors, all spare parts and loop wiring/ cable and labor involved etc. the rates quoted should include all such factors.

(b) During this period, full servicing and cleaning of devices **once in a quarter** shall be done including attending to ANY NUMBER of breakdown calls or when advised by Banks official to attend the calls.

(c) During warrantee and AMC period the system will be inspected and checked by deputing a competent, trained service engineer on monthly basis (before beyond office working hours i.e. 9 am or on Holidays i.e. Saturday / Sunday) by creating a fire/smoke simulation in the loops as per following schedule:

- General inspection of panel for faults, fire alarms, etc.
- Cleaning and checking of minimum five detectors selected at random in any of the loops, including critical area detectors like server /UPS room.
- Re-setting of panel and generation of printed report of fire alarm.
- Handing over of fire alarm report and panel in good working condition to security officer.

(d) The comprehensive service contract rate shall also take into account all the cost, including travel cost from the nearest service station, cost of spares, armoured cable. Critical area detectors viz. server rooms / UPS rooms etc. should be invariably included and checked during the quarterly visits. Suitable log register indicating faults, rectification done with date & time of breakdown should be maintained and got signed from the security officer of the Bank. Bank will not provide any assistance in the form of men/material during the currency of the guarantee and service contract.

(e) The tenderers will have to make their own arrangements for deputing a helper to skilled personnel including all necessary spares for rectification of the defects reported/observed.

The quoted CAMSC rate shall remain firm and valid for a period of one year from the date of expiry of guarantee / defect liability period without any escalation. Payment for CAMSC shall be on half yearly basis on rendering satisfactory service. The service contract shall be renewed for an additional period of at least **7 (seven) years** after the initial CAMSC period of 1 (one) year. In other words, an assured life and service support will be provided for a total of 8 years period after commissioning and handing over of the system for use. At the time of renewal of contract after the expiry of the initial validity period of three years and for all subsequent years, the new

contract amount will be arrived at based on following formula.

$$A_C = A_P \{15+60 \times (EPI_C/EPI_P) + 25 \times (CPI_C/CPI_P)\} \times (1/100)$$

A_C The contract amount for the current year

A_P The contract amount for the previous year

EPI_C Wholesale Price Index for Electrical Products 6 months prior to the commencement date of contract for the current year

EPI_P Wholesale Price Index for Electrical Products 6 months prior to the commencement date of contract for the previous year

CPI_C Consumer Price Index for Industrial Workers (All India Average) 6 months prior to the commencement date of contract for the current year

CPI_P Consumer Price Index for Industrial Workers (All India Average) 6 months prior to the commencement date of contract for the previous year

During the period of contract, the system shall be serviced and maintained as per frequency described in the contract agreement for CAMSC to ensure that all the system equipment's are functioning normally and satisfactorily. The routine maintenance shall also include cleaning of all equipment's. If the fault is not rectified within 24 hours of lodging a complaint with the firm either by an e-mail or over telephone, a penalty as mentioned in table below will be levied and shall be payable by the contractor on demand or shall be recovered from any dues payable by the Bank to the contractor. After registering the complaint / call, if the complaint is not being attended shall be treated as delay. Non-attending the preventive maintenance as per schedule shall also be treated as delay and accordingly, the penalty shall be levied.

		Rectification time	Penalty
(a)	Any defects resulting in total failure of the system	24 hours	Rs.3000/- per day
(b)	Any defects in independent devices, components, cables which may not result in total failure of the system	24 hours	Rs.500/- per day per component per day
(c)	Delay in attending the preventive maintenance as per schedule	24 hours	Rs.200/- per day

11. All payments by the Employer under this Contract will be made only at Reserve Bank of India, New Delhi.

12. All disputes arising out of or in any way connected with this Agreement shall be deemed to have arisen at New Delhi and only courts in New Delhi shall have jurisdiction to determine the

same.

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

IN WITNESS WHEREOF the Employer and the Contractor have set their respective hands to these presents and two duplicates hereof the day and year first hereinabove written.

(If the Contractor is a partnership or an individual)

IN WITNESS WHEREOF the Employer has set its hands to these presents through its duly authorized official and the Contractor has caused its common seal to be affixed hereunto and the said two duplicates / has caused these presents and the said two duplicates hereof to be executed on its behalf, the day and year first herein above written.

(If the Contractor is a Company)

Signature Clause

SIGNED AND DELIVERED by the Reserve Bank of India by the hand of Shri (Name and Designation)

In the presence of Witnesses..... 1. Address :

2) Address :

Witnesses

If the party is a partnership firm or an individual should be signed by all or on behalf of all the in the presence of partners

1)

Address:

2)

Address :

.....

Witnesses

The COMMON SEAL OF

was hereunto affixed pursuant to the resolutions passed by its Board of Directors at the meeting held on

in the presence of 1)

2)

If the Contractor signs under common seal, the signature clause should tally

of in the presence of clause in the

1)

2)

If the Contractor is signing by the hand of Power of Attorney, whether a

Shri

individual.

and duly constituted attorney.

with the sealing

Articles of Association.

company or an

Section-III

General Instructions to Tenderers and Special Conditions

3.0 Online Submission of Tender: -

The Tender shall be submitted through online. The tender will be in two parts i.e. Part I containing technical specifications of equipment's offered, and the terms and conditions (Rates & Amounts of items shall not appear anywhere in this part) and Part II containing only rates of items and amounts stated in figures and words. Part II does not contain any terms and conditions and shall be submitted through online. Part I of tenders will be opened at 15:00 hrs on August 28, 2024. Part II of the tenders will be opened on a subsequent date under intimation to all the tenderers. Telegraphic, Fax and e- mail tenders will not be accepted. All copies of the tenders should be duly signed and complete in all respects with all attachments/ enclosures/ annexures.

3.1 Tenderers are advised to use only the forms (tender books) available on MSTC portal. Each page of the forms shall be signed and uploaded on MSTC portal.

3.2 Tenderers are advised to submit tender on MSTC website (www.mstcecommerce.com/eproc) within the stipulated time schedule.

3.3 If applicants desire to submit additional information, they may upload the same on MSTC website on their own letter head / paper. Each page of the forms shall be signed, filled and submitted / uploaded through online. The tender should be uploaded and submit online within the stipulated time / date.

3.4 Part I – Technical & Commercial

3.4.1 Part I – Shall contain the unpriced tender consisting of complete technical specification including documents and commercial terms and conditions technical aspects of the tender such as equipment data sheets, makes of materials, technical description. Earnest money in the form of DD or Bank Guarantee In lieu of Earnest money shall be submitted in person to Estate Dept. Reserve Bank of India, **6, Sansad Marg, New Delhi-110001.**

Part I of the tender as submitted in online shall contain the following:

- i) Earnest money in the form of DD issued by a scheduled Bank in India or Bank Guarantee In lieu of Earnest money Shall be submitted in person to Estate Dept. Reserve Bank of India, **6, Sansad Marg, New Delhi-110001** within the above cited time line.
- ii) Power of Attorney/authorization with the seal of the company/firm in the name of the person signing the tender documents.
- iii) Any other technical information the tenderer wishes to furnish.
- iv) List of deviations, if any, in commercial terms and conditions.
- v) List of deviations, if any, in technical specification.
- vi) Detailed proposed **design, layout drawing** and full equipment details.
- vii) **Product support for eight (08) years is desired.** Tenderer shall specifically indicate the

product support offered against this tender & submit an undertaking in this regard.

viii) The tenderer should have maintenance set-up at New Delhi or NCR. Address & telephone / fax

nos. of maintenance set-up shall be indicated.

ix) Technical data sheet as given under Section-IX shall be filled up giving full information.

x) Other Certificates / Declarations as per Annexures enclosed to be submitted.

3.4.2 Pre-qualification Criteria: -Only those firms having the following qualification will be eligible for participating in the e-tendering process.

- I. Only those OEM or authorized dealers with valid dealership certificate who are GST registered and have minimum **5 years of experience** in the field of work of similar nature **(i.e. Design, Supply, Installation, Testing and commissioning of Intelligent Analog Addressable Fire Alarm system for the large commercial/ office building)**. The similar work should have been completed on or after **June 30, 2019**.
- II. have executed three or more similar works individually costing not less than 40% of the estimated cost "OR" two works costing not less than 50% of the estimated cost "OR" one work costing not less than 80% of the estimated cost during the **last 5 years ending on June 30, 2024**
- III. have a minimum yearly turnover of 100% of the estimated cost during the last 3 years (2020-21, 2021-22 and 2022-23)
- IV. Should furnish solvency certificate issued by the Applicant's banker, specifically for the purpose of the above work for an amount equal to estimated cost
- V. have a service set up in New Delhi or NCR for rendering after sales service are eligible for tender.

3.4.3 The Tenderers are advised to visit the site of installation and acquaint themselves of the site conditions before tendering.

3.4.4 The tenderers are advised to upload the tender based strictly on the General Conditions of the Contract and Technical Specifications contained in the tender documents, and not to stipulate any deviations. If acceptance of the terms and conditions given in the tender documents has any price implications, the same should be considered and included in the quoted price. Tender containing deviations from the terms and conditions is liable to be rejected.

3.4.5 The tenderers shall upload full details of the patent, trademark, registered design, intellectual property rights, copy rights, industrial property rights held by them or used by them of any third party with regard to design or any part of the system.

3.4.6 All information, correspondence letters shall be submitted and addressed to The Regional Director, Reserve Bank of India, Estate Department, **6, Sansad Marg, New Delhi-110001**

3.5 Part II -Price bid: - Part II containing price bid.

(a) This part shall contain prices in Indian Rupees only as per format (Part II) both in figures and

words. No other enclosure is permitted in Part II. Change of terms and conditions and technical deviations, if any, found in Part II of the tender will not be taken into account and will be treated as null and void.

(b) The tenderer must use only the forms issued by the Bank to fill in the rates. The tender form must be filled in English and all entries must be made by hand and written in ink. If any of the documents is missing or unsigned, the tender may be considered invalid by the Bank in its discretion.

(c) Rates should be quoted both in figures and words in columns specified. All erasures and alterations made while filling the tender must be attested by initials of the tenderer. Overwriting of figures is not permitted. Failure to comply with either of these conditions will render the tender void at the Bank's option. No request for any change in rate or conditions after the opening of the part II tender will be entertained.

(d) The rates quoted shall be deemed to be for the finished work and shall be firm and binding without any escalation whatsoever till the system is handed over to the Bank.

(e) For any item, if the rate and amount do not tally with respect to the quantity, then the amount arrived on the basis of quoted rates shall only be acceptable.

3.6 Pre-Bid Meeting

A pre-tender briefing meeting of the intending tenderers will be held at 11.00 AM on July 31, 2024 to clarify any point/doubt raised by them in respect of the tender. No separate communication will be sent for this meeting. It is mandatory for the intending firms to attend the pre bid meeting to get clarification from the Bank. No request for change in the date of Pre-bid meeting will be entertained. After Pre-bid meeting submission of any deviations in the tender conditions along with Part-I of the tender is liable for rejection of the tender.

3.7 Opening of e-Tender: -

Part-I of the e-tenders will be opened on August 28, 2024 at 15.00 Hrs. IST through system. Price bid (Part II) of only such of those tenderers who are found eligible after scrutiny of their Part –I of the tenders will be opened on a subsequent working day which will be intimated to all the eligible tenderers.

3.8 Scope of Work: -

The scope of work shall include the followings.

a) **Design, Supply, Installation, Testing and commissioning (DSITC) of Intelligent Analog Addressable Fire Alarm system for the Bank's Main Office Building and Annex Building at RBI New Delhi .**

b) Delivery of all equipment's materials to Bank's site at New Delhi including packing, handling, transporting, insurance, loading / unloading at site in New Delhi.

c) Erection, commission, testing & handling of Fire Alarm System to Bank.

- d) Providing all-inclusive service including all spares, etc. during warranty period
- e) Providing comprehensive maintenance service during post warranty period
- g) The tenderer should indicate in his tender the complete description of the working of the system / sub systems and their power requirements with all relevant brochures / literature etc. in addition to those called for in the Technical Specifications.
- g) The Tenderer shall carefully check the specifications and shall satisfy himself that the equipment offered is suitable as per the Bank's Technical Specifications.

3.9 Validity of e-Tender: -

The Tender along with the prices shall remain valid initially for a period of 90 days from the date of opening of Part I of tender, which period may be further extended by mutual agreement in writing by the Tenderer and the Tenderer shall not cancel or withdraw the tender during this period.

3.10 Lowest e-tender not necessarily to be accepted: -

- a) The Bank is not bound to accept the lowest or any tender or to assign any reason for non-acceptance.
- b) The tenderer whose e-tender is not accepted shall not be entitled to claim any costs, charges, damages and expenses of and incidental to or incurred by him through or in connection with his submission of e-tenders, even though the Bank may elect to modify/withdraw the tender

3.11 Earnest Money, Security Deposit & Security during Defect liability period and Comprehensive Annual Maintenance Contract period: -

3.11.1 All Tenderers shall deposit Earnest Money of **Rs.1,16,000/-** by a demand draft drawn in favour of Reserve Bank of India, payable at New Delhi, from any Scheduled Bank. The Earnest Money Deposit (EMD) is also acceptable in the form of Bank Guarantee in the approved format. The EMD paid by the e-Tenderer shall be held by the Reserve Bank of India initially valid for 4 months, shall remain un-discharged for such period as may be specified for keeping the tender open. No interest shall be paid on the said deposit. Under no circumstances, Earnest Money Deposit will be accepted in the form of fixed deposit receipts or insurance guarantee or cheque or cash.

The EMD of successful tenderer shall be released on acceptance of the tender **and** on production of a new Bank Guarantee called "**Performance Bank Guarantee (PBG)**" from any scheduled bank in the form prescribed by the Bank in Annex –I towards security deposit for due fulfilment of the contract.

The tenderers who do not qualify the requirements of pre-qualification criteria will be returned the EMD without interest on non-acceptance of their bid. The Earnest Money Deposit of unsuccessful tenderers in Part II shall be released to them without any interest after award of work

On receipt of intimation from the Bank of the acceptance of his/their tender, the successful tenderer shall be bound to implement the contract and within fourteen days thereof. The successful tenderer shall sign an agreement in accordance with the draft agreement and the Schedule of Conditions

but the written acceptance by the Reserve Bank of India of a tender will constitute a binding contract between the Reserve Bank of India and the person so tendering, whether such formal agreement is or is not subsequently executed.

3.11.2 All compensation or other sums of money payable by the Contractor to the Employer under the terms of this Contract may be deducted from the security deposit, if the amount so permits unless the contractor deposits such amounts in cash within ten days of issue of demand notice by the Bank.

3.11.3 a) **Performance Bank Guarantee (PBG) as security deposit for completion period:** On award of the work, the successful tenderer shall furnish an amount equal to **10% (Ten percent)** of the contract value in the form of a Bank Guarantee (BG) from any scheduled Bank in the form prescribed by the Bank as per Annexure – I towards security deposit for the due fulfilment of the contract. This Performance Bank Guarantee (PBG) shall be initially valid for a period of contract duration plus three (3) months and shall be suitably extended till final completion of the work plus three (3) months in case of extension of contract period. The Bank Guarantee towards the Earnest Money Deposit (EMD) furnished at the time of submission of tender will be returned thereafter without any interest. **Such Performance Bank Guarantee (PBG) should be submitted to the Bank within 15 days of the issue of work order.**

If the tenderer fails to furnish the Performance Bank Guarantee within stipulated time period, their tender is liable to be cancelled and the EMD deposited shall be enforced without prejudice for further loss or damage.

The Bank Guarantee towards EMD shall be suitably extended, if necessary, the successful tenderer till the date fixed by the Bank for furnishing the PBG towards security deposit for the due fulfilment of the contract.

b) **Bank Guarantee towards defect liability period and CAMSC (ie. Comprehensive Annual Maintenance Service Contract) period: -**

After completion of the work, validity of PBG may be extended till one year from the date of Virtual completion or the successful tenderer shall furnish an amount equal to **10% (Ten percent)** of the contract value in the form of BG (Bank Guarantee) from any schedule Bank in the form prescribed by the Bank as per Annex-I towards Security Deposit for the due fulfilment of the terms and obligations of the DLP and CAMC contract

This **10% (Ten percent)** BG should be initially valid for a period of one year from the date of Virtual completion and after that that it shall be further extended for a reduced amount equal to 10% reduction annually of the CAMC contract value for due fulfilment of the CAMC contract condition for a further period of 7 years.

The Bank reserves the right to enforce the Bank Guarantee in case of unsatisfactory performance of the terms, conditions of DLP and CAMSC set out in the tender at any time during the currency of committed period of 8 years.

3.12 Terms / mode of Payment: -

The payment for the works to be executed under this contract shall be made as follows and no variation in the mode of payment will be acceptable to the Reserve Bank of India. The payment will be made as follows:

- 1) 60% of the quoted rate on pro-rata basis against delivery of materials at site after checking the same and on submission of the following documents:
 - a) Manufacturer's Inspection and Test Certificates
 - b) Contractor's Certificate that all components, parts, sub systems, consumables etc. for successful installation, commissioning and testing of the systems including maintenance have been received at site in good condition and if any shortfall is noticed during installation, commissioning and testing they will be supplied free to the Bank.
 - b) Policies of insurance covering all the risk during transit, storage, installation, commissioning & handing over including third party liabilities as per e-Tender conditions.
- 2) Balance 35 % of the quoted rates against erection, testing, commissioning, and handing over of the entire system and submission of BG as per clause 3.11.3 and remaining 5% shall be returned after completion of DLP (Defect Liability Period)

The pro rata payment against all-inclusive upkeep & Maintenance Contract shall be made half yearly on submission of the bill towards the same after completion of satisfactory services along with required tests / reports.

3.13 Taxes:-

The prices quoted shall be deemed to have included all taxes including GST, custom duty, excise duty, local levies, works contract tax etc. imposed by Central/State Government/ Local Bodies. If the Tenderer fails to include such taxes and duties in the tender, no claim thereof will be entertained by the Bank afterwards. As per Indian laws, income tax will be deducted at source and a certificate for the same will be issued to the contractor.

3.14 Insurance: -

The contractor shall, within 14 days from the date of commencement of the works, insure the works at his cost and keep them insured until the virtual completion of reworks, against loss or damage by fire with an office in the joint names of the employer and the contractor (**the name of the former i.e. RBI being placed first in the policy**) for the full amount of the contract. Such policy shall cover the property of the "Employer" only. The contractor shall deposit the policy and receipts for the premium with the employer before commencement of work within twenty-one days-from award of work. In default of the contractor, insuring as provided above, the employer may so insure the works and may deduct the premium paid from any moneys due, penalty etc., or which may become

due to the Contractor without prejudice to the other rights of the Employer in respect of such default. In case it becomes necessary to suspend the works, the Contractor shall as soon as the claim under the policy is settled, or the work reinstated by the Insurance Office, should they elect to do so, proceed with all due diligence with the completion of the works in same manner as though the fire had not occurred and in all respects under the same conditions of Contract. The Contractor in case of rebuilding or reinstatement after fire shall be entitled to such extension of time for completion as deems fit.

The contractor shall take all insurances at his cost to cover all kinds of risks from the time the equipment's/materials leave the manufacturer's works till handing over the said system to the Bank, in the joint names of the Bank and the contractor and it shall cover the following risks.

- Storage, erection, testing and commissioning policy (C.A.R).
- Transit insurance for transportation from manufacturer's works to site (By Air/sea/Road etc. as applicable).
- Workmen compensation policy for the employees of the contractor at site.
- Third party liability policy for a total of Rs.10.00 lakh and with a limit of Rs. 2 lakh per accident.

Note: These policies shall be valid till the completion of the work & in the joint name of RBI with RBI's name being the first one. If the contractor does not provide these policies, the Bank reserves the right to take the above insurance policies themselves and recover the cost thereof from the bill of the contractor or any other action.

3.15 Completion Period:-

Time allowed for carrying out the work, as mentioned in the Memorandum, shall be strictly observed by the Contractor and it shall be reckoned from the 14th day after written order to commence the work is issued. The work shall throughout the stipulated period of the contract be proceeded with all the diligence and if the contractor fails to complete the work within the specified period, he shall be liable to pay liquidated damages as defined in "clause 4.23 of Section- IV. The Conditions Hereinafter Referred To" of the contract.

3.15.1 The contractor shall submit a Bar Chart for completion of the work within the contractual completion period from the tenth day of letter of intent. Such chart shall include all activities like the date of supply of material at site, item wise completion of work etc., and obtain the approval of the Bank.

3.15.2 Bank will provide lockable storage space within the compound of the building. However, the responsibility and safety of the materials stored will be with the contractor. No accommodation will be provided for any worker by the Bank.

3.16 Warranty / Defects Liability Period.

The equipment's supplied & installed i.e. the entire work, shall be guaranteed against all types of defects for a period of one year from the date of handing over of the equipment to the Bank. Any defects found in the system/sub-assemblies within the guarantee period shall be rectified / replaced by the tenderer free of cost. During this period, servicing at quarterly interval or earlier, as prescribed by the manufacturer and as mutually agreed to, shall be carried out free-of-cost. Tenderer shall also indicate the service facility available at the places of installation and technical set-up and the telephone number and address of their service Centre. The tenderers shall indicate details such as the service Centre from which the proposed systems will be serviced, the staff strength at that Centre and the availability of spares for the system at that center.

The tenderers shall also quote their charges for providing all-inclusive comprehensive maintenance service applicable after the expiry of the one-year guarantee period. The scope of the contract will include at least FOUR servicing / preventive maintenance at quarterly intervals in a year and ANY NUMBER of breakdown calls round the clock. Preventive maintenance should include all the activities as recommended by the OEM including upgradation of software, cleaning of equipment's etc. It may be noted by the tenderers that the Bank will not provide any kind of assistance in the form of man/material/transport etc. and the tenderers will have to make their own arrangements for deputing the required skilled manpower including all necessary spares for setting right the reported/observed defects.

The scope during the DLP and AMC will be as follows:

- (a) Any defect(s) in the system/sub-assemblies, found within the guarantee period and the annual maintenance contract period shall be rectified / replaced by the tenderer without any additional cost including replacement of detectors, all spare parts and loop wiring/ cable and labor involved etc. the rates quoted should include all such factors.
- (b) During this period, full servicing and cleaning of devices **once in a quarter** shall be done including attending to ANY NUMBER of breakdown calls.
- (c) During warrantee and AMC period the system will be inspected and checked by deputing a competent, trained service engineer on monthly basis (before office working hours i.e. 9 am or on Holidays i.e. Saturday / Sunday) by creating a fire/smoke simulation in the loops as per following schedule:
 - General inspection of panel for faults, fire alarms, etc.
 - Cleaning and checking of minimum five detectors selected at random in any of the loops, including critical area detectors like server /UPS room.

- Re-setting of panel and generation of printed report of fire alarm.
 - Handing over of fire alarm report and panel in good working condition to security officer.
- (d) The comprehensive service contract rate shall also take into account all the cost, including travel cost from the nearest service station, cost of spares, armoured cable. Critical area detectors viz. server rooms / UPS rooms etc. should be invariably included and checked during the quarterly visits. Suitable log register indicating faults, rectification done with date & time of breakdown should be maintained and got signed from the security officer of the Bank. Bank will not provide any assistance in the form of men/material during the currency of the guarantee and service contract.
- (e) The tenderers will have to make their own arrangements for deputing a helper to skilled personnel including all necessary spares for rectification of the defects reported/observed.

The quoted CAMSC rate shall remain firm and valid for a period of one year from the date of expiry of guarantee / defect liability period without any escalation. Payment for CAMSC shall be on half yearly basis on rendering satisfactory service. The service contract shall be renewed for an additional period of at least **7 (seven) years** after the initial CAMSC period of 1 (one) year. In other words, an assured life and service support will be provided for a total of 8 years period after commissioning and handing over of the system for use. At the time of renewal of contract after the expiry of the initial validity period of three years and for all subsequent years, the new contract amount will be arrived at based on following formula.

$$A_C = A_P \{15 + 60 \times (EPI_C/EPI_P) + 25 \times (CPI_C/CPI_P)\} \times (1/100)$$

A_C The contract amount for the current year

A_P The contract amount for the previous year

EPI_C Wholesale Price Index for Electrical Products 6 months prior to the commencement date of contract for the current year

EPI_P Wholesale Price Index for Electrical Products 6 months prior to the commencement date of contract for the previous year

CPI_C Consumer Price Index for Industrial Workers (All India Average) 6 months prior to the commencement date of contract for the current year

CPI_P Consumer Price Index for Industrial Workers (All India Average) 6 months prior to the commencement date of contract for the previous year

During the period of contract, the system shall be serviced and maintained as per frequency

described in the contract agreement for CAMSC to ensure that all the system equipment's are functioning normally and satisfactorily. The routine maintenance shall also include cleaning of all equipment's. If the fault is not rectified within 24 hours of lodging a complaint with the firm either by an e-mail or over telephone, a penalty as mentioned in table below will be levied and shall be payable by the contractor on demand or shall be recovered from any dues payable by the Bank to the contractor. After registering the complaint / call, if the complaint is not being attended shall be treated as delay. Non-attending the preventive maintenance as per schedule shall also be treated as delay and accordingly, the penalty shall be levied.

		Rectification time	Penalty
(a)	Any defects resulting in total failure of the system	24 hours	Rs.3000/- per day
(b)	Any defects in independent devices, components, cables which may not result in total failure of the system	24 hours	Rs.500/- per day per component per day
(c)	Delay in attending the preventive maintenance as per schedule	24 hours	Rs.200/- per day

3.16 Evaluation of Tenders: -

Tenders will not only be evaluated on the basis of capital cost but also taking into account the rates quoted for Comprehensive Annual Maintenance Service Contract for a period of 7 years after one year guarantee period (i.e. DLP). Tenders will therefore be evaluated based on the overall owning cost which will be arrived at as under.

Total owning cost = Net Capital Cost (Cost of new equipment's – buyback value of old equipment's) + NPV factor for CAMSC X Charges for CAMSC per annum.

i.e., Total owning cost = Net Capital cost (Cost of new equipment – buyback value for old equipment's) + 5.63 X quoted per annum cost for CAMSC.

For calculating the NPV of Comprehensive Annual Maintenance Service contract the following factors will be applied:

(a)	Escalation	5% per annum
(b)	Discount factor	8% per annum
(c)	Period of CAMSC	7 years (after guarantee period of one year i.e. DLP)
(d)	Payment terms of CAMC	Half yearly payment after satisfactory completion of service.

Minimum Base Rate for Comprehensive AMC:

Minimum Base Rate for Comprehensive AMC is 5% (Five) of total capital cost. In case, the tenderer quotes the rates for comprehensive AMC lower than 5% (Five) of the quoted capital cost, then the 5% (Five) of the quoted capital cost will be considered as AMC for calculation of Total Cost of Ownership.

Note: Notwithstanding the above, the Bank shall pay only the quoted rate of the AMC during the currency of the committed contract period subject to renewal formulae indicated in the tender.

3.18 Packing and Dispatch: -

The equipment shall be properly and securely packed in boxes and multiple handling and transportation by sea/ air / rail / road under Indian conditions. All equipment/components shall be delivered at the Bank's Main Office Building and Annex Building, New Delhi.

3.19 Signing of Contract Agreement: -

a) The General instructions to the tenderers and special conditions, conditions herein before referred to Conditions of Contract and Technical Specifications and drawings enclosed with the tender documents, the subsequent correspondence exchanged between the Bank and the tenderer and the work order placed shall be the basis of the final contract to be entered into with the successful tenderer.

b) The Tenderer shall go through the terms and conditions given in the general conditions of contract herewith and his offer shall be strictly in line with the terms specified therein. No deviation from the terms and conditions specified shall be acceptable. Each page of the tender documents should be signed for his/their having acquainted himself/themselves in the general conditions of contract, Technical specifications, etc.

c) The tender submitted on behalf of a firm shall be signed by all the partners of the firm or a partner who has the necessary authority on behalf of the firm to enter into the proposed contract. Otherwise the tender may be rejected.

d) On receipt of intimation from the Bank of the acceptance of his/their tender, the successful tenderer shall be bound to implement the Contract and within fourteen days thereof, the successful tenderer shall sign an agreement in accordance with the draft agreement. Notwithstanding the signing of the agreement the written acceptance by the Reserve Bank of India of a tender in itself will constitute a binding agreement between the Reserve Bank of India and the person so tendering, whether such contract is or is not subsequently executed.

e) The contractor shall not assign the contract. He shall not sublet any portion of the contract except with the written consent of the Employer. In case of breach of these conditions, the Employer may

serve a notice in writing on the Contractor rescinding the contract whereupon the security deposit shall stand forfeited to the Employer, without prejudice to his other remedies against the Contractor

3.20 Language

The Tender including all labels in drawings, documents, catalogues etc. shall be in English

3.21 Right to Accept Part Tender

The Bank reserves the right to accept the tender either in whole or in part at the same prices quoted by the Tenderer.

3.22 Import License

Import License if required will be obtained by the Tenderer. All necessary documents/fees required to be submitted/paid to the relevant authorities, for obtaining the import license shall be the sole responsibility of the tenderer.

3.23 Adherence to Specifications

The Contractor shall carry out all the work strictly in accordance with the detailed specifications and instructions of the Bank's engineer. If in the opinion of the Bank's engineer nominal changes have to be made to suit the site condition and with the prior approval in writing of the Employer, the Contractor shall carry out the same without any extra charge.

3.24 Acquaintance with the site of work

The tenderer must obtain for himself on his own responsibility and at his own expense, all the information which may be necessary for the purpose of making a tender and for entering into a contract and must examine, inspect the site of the work, and acquaint himself with all local conditions, means of access to the work, nature of the work and all matters appertaining thereto. The Employer's decision in such cases shall be final and shall not be open to arbitration.

3.25 Schedule of quantities

A Schedule of Probable Quantities in respect of each work and Specifications accompany these Special Conditions. The Schedule of Probable Quantities is liable to alteration by omissions, deductions or additions at the discretion of the Employer. Each tender should contain not only the rates but also the value of each item of work entered in a separate column and all the items should be totaled in order to show the aggregate value of the entire tender.

3.26 Not entitled for any compensation

The contractor shall not be entitled to any compensation for any loss suffered by him on account of delays in commencing or executing the work, whatever the cause of delays may be, including delays arising out of modifications to the work entrusted to him or in any sub-contract connected therewith or delays in awarding contracts for other trades of the project or in commencement or completion of such works. The Employer does not accept liability for any sum besides the tender amount, subject to such variations as are provided for herein.

3.27 Bound to carry all items of the work

The successful tenderer is bound to carry out all items of work necessary for completion of the job even though such items are not included in the quantities and rates. Schedule of instruction in respect of such additional items and their quantities will be issued in writing by the Bank.

Place:

Date:

Signature and seal of the tenderer.

Safety Code

1. First-aid appliances, including adequate supply of sterilized dressings and cotton wool, shall be maintained in a readily accessible place.
2. The injured person shall be taken to a public hospital without loss of time, in cases where the injury necessitates hospitalization.
3. Suitable and strong scaffolds should be provided for workmen for all works that cannot safely be done from ground.
4. No portable single ladder shall be over 8 meters in length, the width between the side rails not less than 30 cm (clear) and the distance between two adjacent rungs shall not be more than 30 cm. When a ladder is used, an extra mazdoor shall be engaged for holding the ladder.
5. The excavated material shall not be placed within 1.5 meters of the edge of the trench or half of the depth of the trench, whichever is more. All trenches and excavations shall be provided with necessary minimum height shall be one meter.
6. Every opening in the floor of a building or a working platform shall be provided with suitable means to prevent the fall of persons or materials by providing suitable fencing or railing whose minimum height shall be one meter.
7. No floor, roof or other part of the structure shall be so over-loaded with debris or materials as to render it unsafe.
8. Workers employed on mixing and handling material such as asphalt, cement, mortar or concrete and lime mortar shall be provided with protective footwear and rubber hand-gloves.
9. Those engaged in welding works shall be provided with welder's protective eye-shields and gloves.
10. No paint containing lead or lead products shall be used except in the form of paste or readymade paint.
11. Suitable face masks should be supplied for use by the workers when the paint is applied in the form of spray or surface having lead paint dry rubbed and scrapped.
12. Hoisting machines and tackles used in the work, including their attachments, anchorage and supports shall be in perfect condition.
13. The ropes used in hoisting or lowering material or as a means of suspension shall be of durable quality and adequate strength and free from defects.

Place :

Date :

Signature of the tenderer with Seal.

Electrical Safety

1. All the temporary electrical power for carrying out various services at site such as cutting / drilling machine shall be provided through properly rated earth leakage protection devices (ELCB).
2. Only ISI marked 3 pin plug and other appliances and equipment's shall be used.
3. Electrical power cables / wires used shall be properly rated and joints should be avoided. If there, the joint should be proper and insulated.
4. All electrical appliances i.e. welding, drilling, cutting machine, etc. shall be safely and securely earthed to prevent leakage current while in operation.
5. Before commencing the welding work for the first time on any day, fire section shall be informed.
6. Fire buckets filled clean dry sand and ready for immediate use for extinguishing fires, in addition to fire extinguishers suitable for dealing with fires, shall be conspicuously marked and kept at site at convenient location.
7. Personal protective equipment such as safety shoes, hand gloves, welder's mask, ear plugs, etc. as applicable depending upon the requirement of the work, shall be used by the workmen to prevent occupational health hazards.
8. The safety belt shall be used by the workmen while working from height for more than 10 feet from ground level.
9. None of the passages near lift lobby and staircases shall be used for stacking / dumping any kind of materials/waste.
10. Power supply shall be switched off from the Mains when equipment is not in use.
11. Wood-shavings, saw-dust or any debris generated from the work shall be collected on daily basis, removed from site and stored at the designated place in proper manner.
12. The work site shall be properly illuminated during the work.
13. All the electrical works should be carried out by licensed / authorized electricians / wiremen.

14. Portable battery-operated lights may be used at work site to avoid laying of temporary wire for lights.
15. Necessary barricading and signage boards of good quality shall be fixed at conspicuous locations at the work site.
16. Aluminum / steel ladders should have proper rubber insulation at the base and wherever required, these ladders shall be kept on electrical insulating safe rubber mats.

Place :

Date :

Signature of the tenderer with Seal.

FIRE SAFETY

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

- i. Only ISI marked 3 pin plug and other appliances and equipment shall be used.

- ii. Electrical power cables/wires used shall not have any joints and shall be properly rated.

- iv. All electrical appliances i.e. welding, drilling, cutting machine etc. shall be safely and securely earthed to prevent leakage current while in operation.

- v. Before commencing the welding work for the first time on any day, fire section shall be informed and only after the site inspection by the Fire officers/Personnel, work shall be started.

- vi. Two buckets of water and sand shall be kept in an easily accessible area on the site.

- vii. Fire extinguishers recommended and issued by fire officers shall be kept on the site.

- viii. Used paint drums shall be stored in specified store only after closing them properly.

- ix. Personal protective equipment's such as safety shoes, hand gloves, welder's mask, ear plug etc. depending upon the requirement of the work shall be provided by the contractor to the workmen to prevent occupational health hazards.

- x. The safety belt shall be provided by the contractor and used by the workmen while working from height for more than 10' from Ground level.

- xi. None of the passages near lift lobby and staircases shall be used for stacking / dumping any kind of materials/waste.

- xii. Both the staircase doors shall be normally kept closed.
- xiii. None of the fire extinguishers shall be removed/shifted from its designated location.
- xiv. Power supply shall be switched off from the mains when equipment is not in use.
- xv. Wood-shavings and saw-dust generated from the work shall be collected on daily basis, removed from site and stored at the designated place in proper manner.
- xvi. Any debris generated from the work shall be collected on daily basis, removed from site and stored at the designated place in proper manner.
- xvii. Battery operated emergency light/torches shall be provided by the contractor to the workmen while working beyond office hours.

Place:

Date:

Seal & Signature of the Tenderer

Section- IV

The Conditions Hereinafter Referred To

4.1 Interpretation Clause

1. In construing these Conditions, the Specifications, Schedule of Quantities and Contract Agreement, the following words shall have the meanings herein assigned to them except where the subject or context otherwise required.

(a)	“Employer”	Shall mean The Reserve Bank of India and shall include its assigns and successors.
(b)	“Contractor” (in the case of a partnership)	“Contractor” shall mean _____ and ___trading in the name and style of _____and having a place of business at _____and shall include the partners for the time being of the said firm and the legal representatives of a deceased partner.
	(in the case of individual)	“Contractor” shall mean Shri _____trading in the name and style of _____and shall include his heirs, successors and legal representatives.
	(in the case of Company)	“Contractor” shall mean _____a company incorporated under _____and having its registered office at _____ and shall include its successors and assigns.
(c)	“Site”	Shall mean the site of the contract works including any building and erections thereon and any other land (inclusively) as aforesaid allotted by the Employer for the Contractor’s use.
(d)	“This Contract”	Shall mean the Articles of Agreement, the Special Conditions, the Conditions, the Appendix, the Schedule of Quantities and Specifications etc. attached hereto and duly signed.

(e)	"Banks Engineer"	The term "Bank's Engineer" shall mean the person appointed and paid by the Employer to inspect the works. The Contractor shall afford the Bank's Engineer every facility and assistance for inspecting the works and materials, and for checking and measuring time and materials. Neither the Bank's Engineer nor any representative of the Bank shall have power to set out works or to revoke, alter, enlarge or relax any requirements of the Contract, or to sanction any day work, additions, alterations, deviations, or omissions, or any extra work whatever, except in so far as such authority may be specially conferred by a written order of the Bank's Engineer with the prior concurrence in writing of the Employer .The Bank's Engineer or any representative of the Bank shall have power to give notice to the Contractor or his representative of non-approval of any work or materials and such work shall be suspended or the use of such materials shall be discontinued. The work will, from time to time, be examined by the Bank's Engineer/Bank's representative but such examination shall not in any way exonerate the Contractor from the obligation to remedy any defects which may be found to exist at any stage of the works or after the same is completed. Subject to the limitation of this clause the Contractor shall take instructions only from the Bank's Engineer.
(f)	"Notice in writing"	Or written notice shall mean a notice in written, typed or printed characters sent (unless delivered personally or otherwise proved to have been received) by registered post to the last known private or business address to have been received when in the ordinary course of post it would have been delivered.
(g)	"Act of Insolvency"	Shall mean any Act of Insolvency ad defined by the Presidency Towns Insolvency Act or the Provincial Insolvency Act or any Act amending such original.

(h)	"Net Prices"	If in arriving at the contract amount, the Contractor shall have added to or deducted from the total of the items in the Tender any sum, either as a percentage or otherwise, then the net price of any item in the tender shall be the sum arrived at by adding to or deducting from the actual figure appearing in the Tender as the price of that item a similar percentage or proportion of the sum so added or deducted by the Contractor the total amount of any Prime Cost items and provisional sums of money shall be deducted from the total amount of the tender. The expression "net rates" or "net prices" when used with reference to the contract or accounts shall be held to mean rates or prices so arrived at.
(i)	"The works"	Shall mean the Design, Supply, Installation, Testing and commissioning (DSITC) of Intelligent Analog Addressable Fire Alarm for the Bank's Main Office Building and Annex Building at RBI New Delhi for the Employer at New Delhi as provided herein.

Word importing persons include firms and corporations. Word importing the singular only also includes the plural and vice-versa where the context requires.

4.2 **Scope of Contract**

The Contractor shall carry out and complete the said work in every respect in accordance with this Contract and with the directions of and to the satisfaction of the Employer. The Employer may in his absolute discretion and from time to time issue written instructions, details, directions and explanations, which are hereafter collectively referred to as "Employer's Instructions" in regard to:

- (a) The variation or modification of the design, quality or quantity of works or the addition or omission or substitution of any work.
- (b) The removal from the site of any materials brought thereon by the Contractor and the substitution of any other material here for.
- (c) The removal and/or re-execution of any works executed by the Contractor.
- (d) The dismissal from the works of any persons employed thereupon.
- (e) The amending and making good of any defects under Clause 4.17 hereof.

The Contractor shall forthwith comply with and duly execute any work comprised in such Employer's instructions provided always that verbal instructions, directions and explanations

given to the Contractor or his representatives upon the works by the Employer shall, if involving a variation, be confirmed in writing by the Contractor within seven days, and if not dissented from in writing within a further seven days by the Employer, such shall be deemed to be Employer's instructions within the scope of the Contract

4.3 **Variations to be approved by Employer**

The Contractor shall submit a statement of variations giving a quantity and rates duly supported by analysis of rates, vouchers etc. The rates on scrutiny and final acceptance by the Employer shall form a supplementary tender. The Employer shall not be liable for payment of such variations until these statements are sanctioned by him.

4.4 **Schedule Of Quantities & Agreement**

The Contract shall be executed in triplicate and the Contractor shall be entitled to one executed copy for his use. Before the issue of the final certificate to the Contractor, he shall forthwith return to the Employer, Specifications to the Bank.

4.5 **Contractor to provide everything necessary at his cost**

The Contractor shall provide at his cost, everything necessary for the proper execution of the works according to the intent and meaning of Schedule of Quantities and Specifications taken together whether the same may or may not be particularly shown or described therein provided that the same can reasonably be inferred the reform.

4.6 **Authorities, Notices and Patents**

4.6.1 The Contractor shall conform to the provisions of any Act of the Legislature relating to the works, and to the regulations and bye-laws of any authority, and of electric supply and other companies and/or authorities with whose systems, the installation is proposed to be connected and shall, before making any variations from the Drawings or Specifications that may be necessitated by so conforming, give to the Employer, written notice, specifying the variation proposed to be made and the reason for making it and apply for instructions thereon. In case the Contractor shall not receive such instructions within ten days, he shall proceed with the work conforming to the provisions, regulations or bye-laws, in question, and any variation so necessitated shall be dealt with under Clause No.4.13 thereof.

4.6.2 The Contractor shall bring to the attention of the Employer, all notices required by the said

Acts, regulations or bye-laws to be given to any authority and pay to such authority, or to any public office, all fees that may be properly chargeable in respect of the works, and lodge the receipts with the Employer.

4.6.3 The Contractor shall indemnify the Employer against all claims in respect of rights, and shall defend all actions arising from claims, and shall himself pay all royalties, license fees, damages, cost and charges of all and every sort that may be legally incurred in respect thereof.

4.7 **Setting out of works**

The Contractor shall set out the works and shall be reasonable for the true and perfect setting out of the same and for the correctness of the positions, levels, dimensions, and alignment of all parts thereof. If at any time any error in this respect shall appear during the progress of the works within a period of one year from the completion of the works, the Contractor shall, if so required, at his own expense, rectify such error to the satisfaction of the Employer.

4.8 **Materials and workmanship to conform the descriptions**

All materials and workmanship shall so far as procurable be of the respective kinds described in the Schedule of Quantities and/or Specifications and in accordance with the Employer's instructions, and the Contractor shall upon the request of the Employer furnish him with all invoices, accounts receipts and other vouchers to prove that the materials comply therewith. The Contractor shall at his own cost arrange for and/or carry out any test of any materials which the Employer may require.

4.9 **Contractor's superintendence and representative on the works**

The Contractor shall give all necessary personal superintendence during the execution of the works, and as long thereafter as the Employer may consider necessary until the expiration of the "Defects Liability Period" stated in the Appendix hereto. The Contractor shall also during the whole time the works are in progress, employ a competent representative who shall be constantly in attendance at the works while the men are at work. Any directions, explanations, instructions or notices given by the Employer to such representative shall be held to be given to the Contractor.

4.10 **Dismissal of Workmen**

The Contractor shall on the request of the Employer, immediately dismiss from the works, any person employed thereon by him who may, in the opinion of the Employer, be incompetent or misconduct himself and such persons shall not be again employed on the works, without the permission of the Employer.

4.11 **Assistant Manager (Tech) / Manager (Tech)**

The term "Assistant Manager (Tech)/Manager (Tech)" shall mean the person appointed and paid by the Employer to inspect the works, the Contractor shall afford the Assistant Manager, every facility and assistance for inspecting the works and materials and for checking and measuring time and materials. The Assistant Manager (Tech)/Manager (Tech) shall have power to set out works or to revoke, alter, enlarge or relax any requirements of the Contract or to sanction any work, additions, alterations, deviations or omissions or any extra work whatever, except in so far as such authority may be specially conferred by a written order with the prior concurrence in writing of the Employer.

The Assistant Manager (Tech)/Manager (Tech) or the Employer shall have power to give notice to the Contractor or to his representative of non-approval of any work or materials and such work shall be suspended or the use of such materials shall be discontinued by the Assistant Manager/Manager (Tech) but such examination shall not in any way exonerate the Contractor from the obligation to remedy any defects which may be found to exist at any stage of the works or after the same is completed.

4.12 **Schedule of Quantities**

The Schedule of Quantities, unless otherwise stated, shall be deemed to have been prepared in accordance with the Standard Method of Measurement.

Any error in description or in quantity or in omission of items from the Schedule of Quantities shall not vitiate this contract but shall be rectified and the value thereof as ascertained under Clause 4.15 hereof, shall be added to, or deducted from, the Contract Amount (as the case may be) provided that no rectification of errors, if any, shall be allowed in the Contractor's Schedule of Rates.

4.13 **Sufficiency of Schedule of Quantities**

The Contractor shall be deemed to have satisfied himself before tendering as to the

correctness and sufficiency of his tender for the works and of the prices stated in the Schedule of Quantities and/or the Schedule of Rates and Prices which rates and prices shall cover all his obligations under the Contract, and all matters and things necessary for the proper completion of the works.

4.14 **Measurement of Works**

4.14.1 The Assistant Manager (Tech)/Manager (Tech) may from time to time intimate to the Contractor and the Employer that he requires the works to be measured, and the Contractor shall forthwith attend or send a qualified Agent to assist the Assistant Manager (Tech)/Manager (Tech) in taking such measurements and calculations and to furnish all particulars or to give all assistance required by any of them.

4.14.2 Should the Contractor not attend or neglect or omit to send such Agent, then the measurement taken by the Assistant Manager (Tech)/Manager (Tech) shall be taken to be correct measurements of the works. Such measurements shall be taken in accordance with the Mode of Measurement detailed in the Specifications.

4.14.3 The Contractor or his Agent may at the time of measurement take such notes and measurements as he may require.

4.14.4 Instructions for recording measurements:

- (i) The measurements shall be recorded and entered in computerised format in the first instance by the contractor (The MBs shall be printed as per the prescribed format given by the Bank), and a hard copy shall be submitted to the department. All entries shall be made exactly as per the extant procedure for recording conventional MBs.
- (ii) These measurements shall be then 100% checked by the Junior Engineer/ AM(Tech). The contractor shall incorporate all such changes or corrections, as may be done during these checks, to his draft computerised measurements and submit to the department the corrected computerised measurement in the form of a book, duly hard bound with its page machine numbered. All the pages of the this computerised MB shall have full signature with date of the authorised official of the contractor and the official of the bank with name and designation.
- (iii) The test checking of these computerised measurements shall be carried out by the concerned officials as per extant instructions. This book shall then be treated as computerised Measurement Book.
- (iv) The computerised MB given by the contractor, duly bound, with its pages machine numbered, shall have no cutting or over-writing. In case of any error, the computerised MB shall be cancelled and the contractor shall re-submit a fresh computerised MB, duly incorporating all the corrections. This should be done before the corresponding bill is

- submitted to the department for payment.
- (v) The concerned officials shall record the necessary certificates for their checks and test checks as per the extant procedure in the computerised MB. It shall be the responsibility of the contractor to ensure that all the corrections have been incorporated in the computerised MB before Bank's officials record their certificates.
 - (vi) The computerised MB shall be allotted a serial number as per the register of computerised MB.
 - (vii) All the pages of the Finalised computerised MB shall have full signature with date of the authorised official of the contractor and the official of the bank with name and designation.
 - (viii) For each RA bill and Final bill separate Computerised MBs shall be submitted by the contractor.

4.15 Prices for extra etc. ascertainment of

4.15.1 The Contractor may, when authorized by Employer, add to, omit from , or vary the works shown upon the drawings, or described in the Specification, or included in the Schedule of Quantities, but the Contractor shall make no addition, omission or variation without such authorization or direction. A verbal authority or direction by the Employer shall, if confirmed by him in writing seven days, be deemed to have been given in writing

4.15.2 No claim for any extra shall be allowed unless it shall have been executed under provisions of Clause 4.5 hereof with the concurrence of the Employer as herein mentioned. Any such extra is herein referred to as authorized extra and shall be made in accordance with the following provisions.

	(a)	(i)	The net rates or prices in the original tender shall determine the valuation of the extra work where such extra work is of similar character and executed under similar conditions as the work priced therein.
		(ii)	Rates for all items, wherever possible, should be derived out of the rates given in the Priced Schedule of Quantities.
	(b)		The net prices of the original tender shall determine the value of the items omitted, provided if omissions vary the conditions under which any remaining items of works are carried out, the prices for the same shall be valued under sub-clause (c) hereof.

	(c) Where the extra works are not of similar character and/or executed under similar conditions as aforesaid or where the omissions vary the conditions under which any remaining items of works are carried out or if the amount of any omission or additions relative to the amount of the whole of the Contract works or to any part thereof shall be such that in the opinion of the Employer the net rate or price contained in the Priced Schedule of Quantities or tender or for any item of the works involves loss or expense beyond that reasonably contemplated by the Contractor or is by reason of such omission or addition rendered unreasonable or inapplicable, the Employer shall fix such other rate or price as in the circumstances he shall think reasonable and proper.
	(d) Where extra work cannot be properly measured or valued, the Contractor shall be allowed day work prices at the net rates in accordance with the local day work rates and wages for the district, provided that in either case vouchers specifying the daily time and materials employed, be delivered for verification to the Bank's Employer at or before the end of the week following that in which the work has been executed.
	The measurement and valuation in respect of the Contract shall be completed within the "period of final measurement" stated in the Appendix.

4.16 **Unfixed materials when taken into account to be the property of the Employer**

Where in any Certificate (of which the Contractor has received payment) the Employer has included the value of any unfixed materials intended for and/or placed on or adjacent to the works, such materials shall become the property of the Employer and they shall not be removed except for use upon the works, without the written authority of the Employer. The Contractor shall be liable for any loss of or damage to such materials.

4.17 **Removal of improper work**

The Employer shall, during the progress of the works, have power to order in writing from time to time the removal from the works within such reasonable time or times, as may be specified in the order, of any materials which in the opinion of the Employer are not in accordance with the Specifications or the instructions of the Employer, the substitution of proper materials, and the removal and proper re-execution of any work executed with materials or workmanship not in accordance with the Drawings and Specifications or instruction, and the Contractor shall forthwith carry out such order at his own cost. In case of default on the part of the Contractor to carry out such order, the

Employer shall have the power to employ and pay the other persons to carry out the same, and all expenses consequent thereon, or incidental thereto shall be borne by the Contractor, or may be deducted by the Employer from any moneys due, or that may become due, to the Contractor.

4.18 **Defects after virtual completion**

Any defect, shrinkage, settlement or other faults which may appear within the "Defects Liability Period" stated in the Appendix hereto, within 12 months from the date of commissioning / handed over of the system, arising in the opinion of the Employer from materials or workmanship not in accordance with the contract, shall upon the directions in writing of the Employer, and within such reasonable time as shall be specified therein, be amended and made good by the Contractor, at his own cost and in case of default, the Employer may employ and pay other persons to amend and make good such defects, other faults, and all damages, loss and expenses consequent thereon or incidental thereto shall be made good and borne by the Contractor and such damage, loss and expenses shall be recoverable from him by the Employer or may be deducted by the Employer from any moneys due or that may become due to the Contractor, or the Employer may in lieu of such amending and making good by the Contractor deduct from any money due to the Contractor a sum to be determined by the Employer equivalent to the cost of amending such work. The Contractor shall remain liable under the provision of this Clause, notwithstanding the signing of any certificate or the passing of any accounts, by the Employer.

4.19 **Certificate of virtual completion and Defects Liability Period**

The works shall not be considered as completed until the Employer has certified in writing that they have been virtually completed. The Defects Liability Period shall commence from the date of such Certificate.

4.20 **Insurance in respect of damage to person and property**

4.20.1 The Contractor shall be reasonable for all injury to persons, animals or things, and for all structural and decorative damage to property which may arise from the operation or neglect of himself or of any nominated Sub-Contractor or any employee or either, whether such injury or damage arises from carelessness, accident or any other cause whatever, in any way connected with the carrying out of this Contract. This Clause shall be held to include inter alia, any damage to buildings, whether immediately adjacent or otherwise, and any damage to roads, streets, footpaths, bridges or ways as well as all damage caused to the buildings and works forming the subject of this Contract by frost, rain wind or other inclemency of weather. The Contractor shall indemnify the Employer and hold him harmless

in respect of all and any expenses arising from any such injury or damage to persons or property as aforesaid and also in respect of any claim made in respect of injury or damage under any Acts of any legislature or otherwise and also in respect of any award of compensation or damages consequent upon such claim.

4.20.2 The Contractor shall reinstate all damage of every sort mentioned in this Clause, so as to deliver up the whole of the Contract works complete and perfect in every respect and so as to make good or otherwise satisfy all claims for damage to the property of third parties. An insurance policy covering third party liability shall be taken by the contractor to cover the loss/disablement of human life (persons not belonging to the contractor). This shall also cover the risk of damages to other's materials/equipment/properties including those, if any of the banks during construction/erection/commissioning of the said contract work at site. The value of third party liability for compensation for loss of human life or full /partial disablement shall be of required statutory value for full and partial disablement and shall nevertheless cover such compensation as may be awarded by a court of law. Cover for damage to other's equipment/property shall be as approved by the bank. The sub-contractors of the contractor shall not be holders or beneficiaries in the policy nor shall they be named in the policy. The bank shall be the principal holder of the policy along with the contractor. The bank reserves the exclusive right to assign the policy.

4.20.3 The Contractor shall indemnify the Employer against all claims which may be made against the Employer by any member of the public or other third party in respect of anything which may arise in respect of the works or in consequences thereof and shall at his own expense arrange to effect and maintain, until the virtual completion of the Contract, with an approved Office a Policy of Insurance in the joint names of the Employer and the Contractor against such risks and deposit such Policy or Policies with the Employer from time to time during the currency of this Contract. The Contractor shall also similarly indemnify the Employer against all claims which may be made upon the Employer whether under the Workmen's Compensation Act or any other statute in force during the currency of this contract or at Common Law in respect of any employee of the Contractor or any Sub-Contractor and shall at his own expenses effect and maintain, until the virtual completion of the Contract, with an approved Office a Policy of Insurance in the joint names of the Employer and the Contractor against such risks and deposit such Policy or Policies with the Employer from time to time during the currency of the Contract.

4.20.4. The Contractor shall be responsible for any liability which may be excluded from the Insurance Policies above referred to and also for all other damages to any person, animal or property arising out of and incidental to the negligent or defective carrying out of this Contract. He shall also indemnify the Employer in respect of any costs, charges or expenses arising out of any claim or proceedings and also in respect of any award of compensation or damages, arising therefrom.

4.20.4 The Employer shall be entitled to deduct the amount of any damage, compensation, costs, charges and expenses arising or accruing from or in respect of any such claims or damage from any or all sums due or to become due to the Contractor, without prejudice to the Employer's other rights in respect thereof. The Contractor shall at his own expense, arrange to effect and maintain (until the virtual completion of the contract) with an approved office the following insurance policy in the joint name of employer and himself with the employer being first (Principal) and deposit such policy or policies with the employer from time during the currency of this contract.

1. Transit, storage, erection, testing and commissioning policy (C.A.R. policy) for the total amount of contract.
2. Workmen compensation policy.
3. Third party liability policy with the limits as under.
 - i). Rs.10,00,000/- per annum
 - ii) Rs.2,00,000/- per occurrence

4.21 **Fire Insurance**

(a) The Contractor shall insure the works at his cost and keep them insured until the virtual completion of the work, against loss or damage by fire with in the joint names of the Employer and Contractor (the name of the former being placed first in the Policy), for the full amount of the contract and for any further sum if called upon to do so by the Employer, the premium of such further sum, being allowed to the Contractor as an authorized extra. Such policy shall cover the property of the Employer only and the Employer's and Surveyors' fees for assessing the claim and in connection with his services generally in the reinstatement and shall not cover any property of the Contractor or of any Sub-Contractor or employee. The Contractor shall deposit the Policy and receipts for the premia as specified unless otherwise instructed by the Employer. In default of the Contractor insuring as provided above, the Employer on his behalf, may so insure the works and may deduct the premia paid from any moneys due or which may become due to the Contractor without prejudice to the other rights of the Employer in respect of such default. In case it becomes necessary to suspend the works, the Contractor shall, as soon as the claim under the Policy is settled, or the work reinstated by the Insurance Office, should they elect to do so, proceed with all due diligence with the completion of the works in the same manner as though the fire had not occurred and in all respects under the same Conditions of Contract. The Contractor in case of rebuilding or reinstatement after fire, shall be entitled to such extension of time for completion as the Employer deems fit.

(b) The amount so due as aforesaid shall be the total value of the works duly executed and of the Contract materials and goods delivered upon the site for use in works upto and including a date not more than seven days prior to the date of the said Certificate less the amount to be retained by the Employer (as hereinafter provided) and less any instalments previously paid under this Clause. Provided that such certificate shall only include the value of the said materials and goods as and from time to time as they are reasonably, properly and not prematurely brought upon the site and then only if properly stored and/or protected against weather.

4.22 **Date of Commencement and Completion**

The Contractor shall be allowed admittance to the site on the "Date of Commencement" stated in the Appendix hereto or such later date as may be specified by the Employer and he shall thereupon and forthwith begin the works and shall regularly proceed with and complete the same (except such painting or other decorative work as the Employer may desire to delay) on or before the "Date of Completion" stated in the Appendix subject nevertheless to the provisions for extension of time herein after contained.

4.23. **Damages for Non-completion**

If the Contractor fails to complete the works by the date stated in the Appendix Here in before, Referred to or within any extended time under Clause 4.24 hereof and the Employer certifies in writing that in his opinion the same ought reasonably to have been completed, the Contractor shall pay the Employer the sum named in the Appendix as "Liquidated Damages" for the period during which the said works shall so remain incomplete and the Employer may deduct such damages from any moneys due to the Contractor. A Hindrance Register shall be maintained in the department as per Bank's format and officials from both contractor and Bank shall sign the hindrances as per site conditions.

If the Contractor fails to maintain the required progress of the works by the completion time stipulated in the Contract or within any extended time under time extension Clause and the employer certifies in writing that in his opinion the same ought reasonably to have been completed, the Contractor shall pay the Employer the sum named as "Liquidated Damages" for the period during which the said works shall so remain incomplete and the Employer may deduct such damages from any moneys due to the Contractor. In case, the contractor does not achieve a particular milestone, if any, mentioned in the Contract or rescheduled milestone(s) in terms of time extension clause, the amount shown against that milestone shall be withheld to be adjusted against the liquidated damages levied at the time of completion of contract. Withholding of payments on failure to achieve a milestone shall be automatic and

without any notice to the Contractor. However, if the Contractor catches up with the progress of work on the subsequent milestone(s), the withheld amount shall be released. In case the contractor fails to make-up for the delay before the subsequent milestone(s), the amount mentioned against each missed milestone shall also be withheld. No interest whatsoever shall be paid by the Bank on such withheld amount/s. The delay period shall be calculated from the stipulated date of occurrence of a milestone until the date when the milestone is actually achieved. The application of damages shall not effect a change in the milestone or release the Contractor of his obligation to improve the progress of work. The contractor hereby specifically agrees and authorizes the Employer to deduct such liquidated damages, if any, from any installment of payment becoming due and payable to the contractor in terms of this contract or from the retention money.

Milestones Chart:

Milestone No.	Milestone Description	Due Date of Milestone Completion	Milestone target Amount not to be used for payment
First	Design & Supply of addressable fire alarm system	2 months	60 percent of the estimated cost
Second	Installation, Testing & commissioning of the addressable fire alarm system	4 months	100 percent of the estimated cost

The withheld amount for not achieving Nth milestone will be as mentioned below :-

$A(N) = (0.0025/7) * (DR-DN) * (TN-T(N-1))$ where T(N-1) will be zero if Nth milestone is the first in the series of delayed milestone.

DR-DN signifies number of delays in achieving the Nth milestone and TN-T(N-1)) signifies the milestone target amount linked to the specific target.

4.24 Delay and Extension of Time

If in the opinion of the Employer, the works be delayed (a) by force majeure or (b) by reason of any exceptionally inclement weather or (c) by reason of proceedings taken or threatened by or dispute with adjoining or neighboring owners or public authorities arising otherwise than through the Contractor's own default or (d) by the works or delays of other Contractors or Tradesmen engaged or nominated by the Employer and not referred to in the Schedule

of Quantities, and/or Specification or (e) by reason of Employer's instructions as per Clause 4. 2 hereof or (f) by reason of civil commotion, local combination of workmen or strike or lock-out affecting any of the building trades or (g) in consequence of the Contractor not having received in due time, necessary instructions from the Employer for which he shall have specifically applied in writing or (h) from other causes which the Employer may certify as beyond the control of Contractor or (i) in the event the value of the work exceeds the value of the Priced Schedule of Quantities owing to variation, make a fair and reasonable extension of time for completion of the Contract works,, in case of such strike or lock-out the Contractor shall nevertheless constantly use his endeavors to prevent delay and shall do all that may reasonably be required to the satisfaction of the Employer to proceed with work.

4.25 Failure by Contractor to comply with Employer's instructions

If the Contractor after receipt of written notice from the Employer requiring compliance within ten days fails to comply with such further drawings and the Employer may employ and pay other persons to execute any such work whatsoever that may be necessary to give effect thereto, and all costs incurred in connection therewith shall be recoverable from the Contractor by the Employer or may be deducted by him from any moneys due to the Contractor.

4.26 Termination of Contract by the Employer

If the Contractor being an individual or a firm commits any "act of insolvency", or shall be adjudged an insolvent or being an Incorporated Company shall have an order for compulsory winding up made against it or pass an effective resolution for winding up voluntarily or subject to the supervision of the Court and the Official Assignee of the Liquidator, in such acts of insolvency or winding up, as the case may be, shall be unable, within seven days after notice to him requiring him to do so, to show the reasonable satisfaction of the Employer that he is able to carry out and fulfill the Contract and to give security therefore, if so required by the Employer.

Or if the Contractor (whether an individual, firm or Incorporated Company) shall suffer execution or other process of Court attaching property to be issued against the Contractor,

Or shall suffer any payment under this Contract to be attached by or on behalf of any of the creditors of the Contractor,

Or shall assign or sublet this Contract without the consent in writing of the Employer first had obtained,

Or shall charge or encumber this Contract or any payments due or which may become due to the Contractor hereunder,

Or if the Employer determine that the Contractor

- (i) has abandoned the Contract ,or
- (ii) has failed to commence the works, or has without any lawful excuse under those Conditions suspended the progress of the works for 14 days after receiving from the Employer notice to proceed, or
- (iii) has failed to proceed with the works with such due diligence and failed to make such due progress as would enable the works to be completed within the time agreed upon, or
- (iv) has failed to remove materials from the site or to pull down, and replace work for seven days after receiving written notice that the said materials or work were condemned and rejected by the Employer under these Conditions or
- (v) has neglected or failed persistently to observe and perform all or any of the acts, matters or things by this Contract to be observed and performed by the Contractor for seven days after written notice shall have been given to the Contractor requiring the Contractor to observe or perform the same.

Then and in any of the said cases, the Employer may notwithstanding any previous waiver, after giving seven days' notice in writing to the Contractor, determine the Contract and liabilities of the Contractor, the whole of which shall continue in force fully as if the Contract had not been so determined, and as if the works subsequently executed had been executed by or on behalf of the Contractor and further, the Employer by his agents or servants may enter upon and take possession of the works and all plant, tools, scaffoldings, machinery and materials lying upon the premises or the adjoining lands or roads, and use the same as his own property or may employ the same by means of his servants and workmen in carrying on and completing the works or by employing any other Contractor or other person or persons to complete the works, and the Contractor or other person or persons employed for completing and finishing or using the materials and plant for the works. when the works shall be completed or as soon thereafter as convenient, the Employer shall give a notice in writing to the Contractor to remove his surplus materials and plant, and should the Contractor fail to do so within a period of twenty days after receipt thereof by him, the Employer may sell the same by public auction, and give credit to the Contractor for the net amount realized. The Employer shall thereafter ascertain in writing under his hand what (if anything) shall be due or payable to, or by the Employer, for the value of the said plant and materials so taken possession of by the Employer and the expense or loss which the Employer shall have been put to in procuring the works to be completed, and the amount, if any, owing to the Contractor and the amount which shall thereupon be paid by the Employer to the Contractor or by the

Contractor to the Employer, as the case may be, and the decision of the Employer shall be final and conclusive between the parties.

4.27 Termination of Contract by Contractor

4.27.1 If payment of the amount payable by the Employer shall be in arrears and unpaid for thirty days after notice in writing requiring payment of the amount as aforesaid shall have been given by the Contractor to the Employer or if the Employer shall repudiate the Contract, or if the works be stopped for three months under the order of the Employer or by any injunction or other order of any Court of Law, then and in any of the said cases, the Contractor shall be at liberty to determine the Contract by notice in writing to the Employer and he shall be entitled to recover from the Employer, payment for all works executed and for any loss he may sustain upon any plant or materials supplied or purchased or prepared for the purpose of the Contract.

4.27.2 In arriving at the amount of such payment, the net rates contained in the Contractor's original Tender shall be followed, or where the same may not apply, valuation shall be made in accordance with Clause 4.15 hereof.

4.28 Certificates and Payments

4.28.1 The Contractor shall be paid by the Employer from time to time by installments under Interim Certificate to the Contractor on account of the works executed, work to the approximate value named in the Appendix as "Value of work for Interim Certificates" (or less at the reasonable discretion of the Employer) has been executed in accordance with this Contract, after which time the installments shall be upto the full value of work, subsequently so executed and fixed in the building. The Employer may, at his discretion, include in the Interim Certificate such amount as he may consider proper on account of materials delivered upon the site by the Contractor for use in the works. And when the works have been virtually completed and the Employer shall have certified in writing that they have been completed, the Contractor shall be entitled to the payment of the Final Balance in accordance with the Final certificate to be issued in writing by the Employer at the expiration of the period referred to as "the Defects Liability Period" in the Appendix hereto from the date of Virtual Completion or as soon after the expiration of such period as the works shall have been finally completed and defects made good according to the true intent and meaning hereof, whichever shall last happen, provided always that the issue by the Employer of any certificate during the progress of the works at or after their completion shall not relieve the Contractor from his liability under Clause 4. 20 nor relieve the Contractor of his inability in cases of fraud, dishonesty or fraudulent concealment relating to the works or materials or to any matter dealt within the Certificate, and in case of all defects and insufficiencies in the works or materials, which a reasonable examination would not have disclosed. No Certificate shall of itself be conclusive

evidence that any works or materials, to which it relates, are in accordance with the Contract neither will the Contractor have a claim for any amounts which the Employer might have been certified in any interim bill and paid by the Employer and which might subsequently be discovered as not payable and in this respect the Employer's decision shall be final and binding.

4.28.2 The Employer shall have power to withhold any Certificate if the works or any parts thereof are not being carried out to his satisfaction.

4.28.3 The Employer may by any Certificate make any correction in any previous certificate which shall have been issued by him.

4.28.4 No certificate or payment shall be issued if the Contractor fails to insure the works and keep them insured till the issue of the Virtual Completion Certificate.

4.28.5 Payments shall be made within the period named in the Appendix as "Period for honouring Certificates" after such Certificates have been delivered to the Employer.

4.29 **Delayed Payment**

Any amounts payable by the Employer to the Contractor if not paid within the "Period for honouring Certificates" named in the Appendix, carry interest at the rate named in the Appendix as the "Rate of interest for delayed payment" from the date upon which such sum ought to have been paid by the Employer until the payment.

4.30 **Matters to be finally determined by Employer**

The decision, opinion, direction, Certificate (except for payment), with respect to all or any of the matter under Clauses 4.2(a), 4.2(b), 4.4,4.7,4.12,4.19,4.28 (1,2,3,4) hereof (which matters are herein referred to as the excepted matters) shall be final and conclusive and binding on the parties hereto and shall be without appeal. Any other decision, opinion, direction, Certificate or valuation of the Employer or any refusal of the Employer to give any of the same shall be subject to the right of arbitration and review under Clause 4.31 hereof in the same way in all respects (including the provision as to opening the reference) as if it were a decision of the Employer.

4.31 **Settlement of dispute by arbitration**

In case of any dispute or difference arising out of or in connection with or in carrying out of the work (whether during the progress of the work or after completion and whether before or after the

determination, abandonment or breach of contract) except as to any of the excepted matters provided hereunder the parties hereto, shall first endeavor to settle such disputes or differences amicably. If both the parties fail to reach such amicable settlement, all the disputes or differences shall be finally settled by arbitrators as provided herein.

In case of failure of such amicable settlement by the parties, then either party may within 28 days of such a failure give a written notice to the other party requiring that all matters in dispute or difference be arbitrated upon. Such written notice shall specify the matters which are in dispute or differences of which such written notice has been given and no other matter shall be referred to the arbitration of a single arbitrator to be appointed by both the parties or in case of disagreement as to the appointment of a single arbitrator, the appointment of two arbitrators (one to be appointed by each party) and an umpire to be appointed by the arbitrators. The provisions of Arbitration and Conciliation Act, 1996 or any statutory modification or re-enactment thereof and rules framed thereunder from time to time shall apply to such arbitrations.

In the event of the Arbitrator or any one of the Arbitrators, as the case may be, dying, neglecting, refusing to act or resigning or being unable to act for any reason or the award being set-aside by the Court for any reason it shall be lawful for the parties to appoint another Arbitrator in the manner provided hereinabove.

The venue of arbitration shall be New Delhi , INDIA.

The Arbitrator or Arbitrators appointed under this Schedule shall hold the arbitration proceeding jointly and shall have the power to extend the time to make the award with the consent of the parties.

Pending reference to arbitration and award thereon, the parties shall make all endeavor to complete the work in all respects as herein contracted and all disputes, if any, will finally be settled in the arbitration.

Upon every or any such references to the arbitration, as provided herein the cost of and incidental to the reference and award respectively shall be, at the discretion of the Arbitrator or Arbitrators or the Umpire, as the case may be, who may determine the amount thereof.

The Arbitrator, Arbitrators or Umpire, as the case may be, shall give reasoned award in respect of each item of disputes which shall be final and binding on both the parties. It is agreed that the Contractor shall not delay the carrying out of the work by reason of any such matter, question or dispute being referred to arbitration, but shall proceed with the work with all due diligence and shall, until the decision of the Arbitrators, as the case may be, is given, abide by the terms and conditions of the contract herein, as also instructions with regard to the actual carrying out of the work herein contracted and no award shall relieve the Contractor of his obligations to adhere strictly to the terms

and conditions of the contract herein as also instructions with regard to the actual carrying out of the work. The Bank and the Contractor hereby also agree that arbitration under this schedule shall be a condition precedent to any right of action, under the Contract.

In case during the arbitration proceedings, the parties mutually settle, compromise or compound their dispute or difference, the reference to arbitration and the appointment of the Arbitrator or Arbitrators ,or Umpire, as the case may be, shall be deemed to have been revoked and the arbitration proceedings shall stand withdrawn or terminated with effect from the date on which the parties file a joint memorandum of settlement thereof with the Arbitrator or Arbitrators or the Umpire, as the case maybe. For the purpose of this clause, the expression “excepted matters” shall mean and refer to all or any of the matters under Scope of work, Contract price, Delivery Schedule & Final Acceptance certificate.

4.32 **Right of technical scrutiny of final bill**

The Employer shall have a right to cause a technical examination of the works and the final bill of the Contractor including all supporting vouchers, abstracts etc. to be made at the time of payment of the final bill. If as a result of this examination or otherwise, any sum is found to have been overpaid or over-certified, it shall be lawful for the Employer to recover the sum.

4.33 **Employer entitled to recover compensation paid to workmen**

If, for any reason, the Employer is obliged, by virtue of the provision of the Workmen’s Compensation Act,1923, or any statutory modifications or re-enactment thereof to pay compensation to a workman employed by the Contractor in execution of the works, the Employer shall be entitled to recover from the Contractor the amount of compensation so paid, and without prejudice to rights of the Employer under the said Act. The Employer shall be at liberty to recover such amount or any part thereof by deducting it from the security deposit or from any sum due by the Employer to the Contractor under this Contract or otherwise. The Employer shall not be bound to contest any claim made against it under the said Act, except on the written request of the Contractor and upon his giving to the Employer full security to the satisfaction of the Employer for all costs for which the Employer might become liable in consequence of contesting such claim.

4.34 **Abandonment of Works**

At any time after acceptance of the tender, the Employer shall, for any reasons whatsoever, not require the whole or any part of the works to be carried out, the Employer shall give notice in writing to the Contractor who shall have no claim to any payment of compensation or otherwise whatsoever on account of any profit or advantage which he might have derived from the execution of the whole works.

4.35 **Return of surplus materials**

Notwithstanding anything contained to the contrary in any or all the Clauses of this Contract, where any material for the execution of the Contract is procured with the assistance of the Employer by purchases made under orders or permits or licenses issued by Government, the Contractor shall hold the said materials economically and solely for the purpose of the Contract and not dispose of them without the prior written permission of the Employer and return it to the Employer, if required by the Employer, at the price to be determined by the Employer having due regard to the condition of the materials, the price to be determined not to exceed the purchase price thereof inclusive of sales tax, octroi and other such levies paid by the Contractor in respect thereof. In the event of breach of the aforesaid condition, the Contractor shall, in addition to being liable to action for contravention of the terms of licenses or permits and/or criminal breach of trust, be liable to the Employer for all moneys, advantages or profits resulting, or which in the usual courses would have resulted to him, by reason of such breach.

4.36 **Right of Employer to terminate Contract in the event of death of Contractor. If individual**

Without prejudice to any of the rights or remedies under this Contract, if the Contractor, being an individual, dies, the Employer shall have the option of terminating the Contract without incurring any liability for such termination.

4.37 **Marginal Notes**

The headings catch lines hereto and in the annexure hereto are meant only for convenience of reference and shall not in any way be taken into account in the interpretation of these presents and the annexure hereto.

4.38 **Sexual Harassment of women at work place:**

The Contractor / Agency shall be solely responsible for full compliance with the provision of "the Sexual Harassment of women at work place (Prevention, Prohibition and Redressal) Act, 2013.

a. In case of any complaint of sexual harassment against its employee within the premises of the Bank, the complaint will be filed before the Internal Complaints Committee constituted by the Contractor / Agency and the Contractor / Agency shall ensure appropriate action under the-said Act in respect to the complaint.

b. Any complaint of sexual harassment from any aggrieved employee of the contractor against any employee of the Bank shall be taken cognizance of by the

Regional Complaints Committee constituted by the Bank.

c. The contractor shall be responsible for any monetary Compensation that may need to be paid in case the incident involves the employees of the contractor, for instance any monetary relief to Bank's employee, if sexual violence by the employee of the contractor is proved.

d. The contractor shall be responsible for educating its employees about prevention of sexual harassment at work place and related issues.

4.38 **Minimum wages to the workman:** The contractor shall ensure that minimum wages as per statutory requirement i.e. as per Central Labour Commissioner's Rates (C.L.C. rates) to be paid to all the workmen. A certificate to that effect, on every month, to be submitted to the Bank during period of execution of work and subsequent warranty and AMC period.

4.39 **Labour License, ESI, PF:** The contractor shall adhere to various provisions of the Contract Labour (Regulation & Abolition) Act 1970 and fulfill all the statutory requirements of payments for ESI & PF and submit a certificate to the Bank in this regard.

4.40 **Force Majeure conditions** (applicable during the currency of the completion period and subsequent committed DLP and CAMSC period):- Neither Party shall be responsible for any failure to perform due to unforeseen circumstances or due to causes beyond the defaulting Party's control even after exertion of best efforts to prevent such failure, which failure may include, but not be limited to, acts of God, war, riots, embargoes, strikes, lockouts, acts of any Government authority, delays in obtaining licenses or rejection of applications under the Statutes, fire or floods.

4.41 **NON-DISCLOSURE and Indemnity CLAUSE during the execution of work, DLP and CAMSC period:** - The contractor shall not disclose directly or indirectly any information, materials and of the Bank's infrastructure/ system / equipments etc. which may come to the profession or knowledge of the contractor during the course of discharging its contractual obligations in connection with the agreement, to any third party and shall at all times hold the same in strictest confidence. The contractor shall treat the details of the contract as private and confidential, except to the extent necessary to carry out the obligations under it or to comply with applicable laws. The contractor shall not publish, permit to be publish, or disclose any particulars of the works in any trade or technical paper or elsewhere without the previous written consent of the Employer.

The contractor shall indemnify the Employer for any loss suffered by the Employer as a result of disclosure of any confidential information. Failure to observe the above

shall be treated as breach of contract on the part of the contractor and the Employer shall be entitled to claim damages and pursue legal remedies.

The contractor shall take all appropriate actions with respect to its employees to ensure that the obligations of non-disclosure of confidential information under this agreement are fully satisfied. The contractor's obligations with respect to non-disclosure and confidentiality will survive the expiry or termination of this agreement for whatever reason.

Place :

Date :

Signature of the Tenderer with seal.

Section -V

Appendix Hereinbefore Referred To

1.	Defects Liability Period	Twelve months from the date of Virtual Completion Certificate referred to in Clause 4.19 of the section " Conditions Hereinafter Referred To ".	Bidders acceptance (Accepted / not accepted)
2.	Period of Final Measurement	1 month	
3.	Date of Commencement	14 th day from the date of letter of acceptance.	
4.	Date of Completion	Date of virtual completion certificate.	

5.	Liquidated damages at the rate of	As defined in "clause 4.23 of Section-IV The Conditions Hereinafter Referred To" of the contract	
6.	Value of works for interim certificates	Rs. 10 lakhs	
7.	Period for honouring certificates	One month for interim bills and 3 months for final bill.	
8.	Interest for delayed payment	3% per annum	

Place :

Date :

Seal & Signature of the Tenderer.

SECTION VI - Schedule of Commercial Deviations

We confirm that all commercial terms and conditions of the Bank except for deviations listed below.

Sr. No.	Section No.	Clause No.	Deviation proposed
1	2	3	4

3. Any addressable device in the system may be enabled or disabled through the system keypad.
4. A system status report will be generated and printed by the system operator's command.
5. Rates should be inclusive of minor civil works necessary to accomplish the task including the grouting using Dash Fasteners, welding, and other minor works not specifically mentioned but are compulsory for completing the work.
6. The work should be carried out in such a manner as to create minimum hindrance and trouble to existing ongoing operations.
7. Successful firm should co-operate with other contractors working in the same area. For the work, an exclusive engineer should be deputed to supervise and monitor the work.
8. Any frame and suspenders made out of suitable size MS angle iron suspenders shall be included in the work.
9. The proposed system machine is complete with a main panel, repeater panel, panic switch, sounder, hooter, PC and cabling work etc. Bank will only provide incoming supply at one point and subsequent wiring using the suitable size of copper cable is to be included in the work.
10. The supplier shall submit the factory test report / result for the supplied types of equipment along with delivery of material itself.
11. All the quantities mentioned are approximate and may vary on either side. A successful contractor is advised to procure the material after proper measurement at the site.
12. The workmen will not be allowed to stay within the premises.
13. The water required for workmen can be availed from the available source at the site free of cost.
14. The electric power required for the work can also be similarly drawn from the supply available at the site free of cost.

15. Fire Clearance Certificate required from the local bodies shall be obtained and necessary liaisoning to be done by the Contractor at his own cost. Contractor will perform the liaisoning works etc. with respective local/central Authorities for obtaining the same will be the responsibility of the contractor. For this purpose, he shall prepare all drawings, submit them for approval, follow up to get the drawings approved, arrange for inspection, carry out all modifications and rectifications as demanded by the authority. All costs for approvals has to be included by the tenderer in his offer and the Bank shall not entertain any extra claim on this account except statutory fees payable which shall be reimbursable on production of documentary evidence. All modification, rectifications also have to be carried out without extra cost to the Bank.

16. The intending Tenderer can obtain any clarifications regarding the Tender drawings, specifications, etc. from the department on any Bank's working day.

17. The Tendered may please note that the work has to be carried out during the daytime or as

per the Bank's instructions. Therefore, the entire work involved shall be carried out with least disturbance to the occupants of the captioned building and also day-to-day cleaning has to be done by the contractor. The wall/slab/column should be cut by a chase-cutter with an integrated vacuum cleaner only.

18. The contractor shall prepare three copies of **as done / as build drawing** after completion of the work and shall submit them along with the final bill.

19. The entire materials for the work shall be brought to the working area through the staircase and no freight lift will be available for lifting materials.

20. The debris/dust or any wastage generated out of the above work shall be cleaned as frequently as required and as instructed by the Bank's Engineer.

21. All dismantling work and work generating noise shall be done during the day time and holidays and day time work shall have to be done on restricted hours. Contractor has to make availability of supply during the Evening & night time. The contractor shall take into account the above facts while quoting the rates.

22. The Tenderer shall remove all the debris collected at site (from the Bank's premises) on everyday basis. The staircase and passages used by the laborers shall be cleaned properly, as per the entire satisfaction of Bank's Engineers.

23. The contractor shall depute a qualified supervisor during the execution of the work. No work shall be carried out at the site in an unsupervised manner.

24. The Tenderer shall use only approved brands of materials. The Bank will be at liberty to choose any brand of materials from the names given therein in absence of any such choice indicated by the tenderer.

25. The old system of fire alarm system will be kept active during installation of new fire alarm system. Dismantling of old system will be allowed only after commissioning of new one.

Place:-

Date:-

Seal & Signature of the Tenderer.

Section-VIII

TECHNICAL SPECIFICATIONS & SCOPE OF WORK

Description

This section of the specification includes the Design, Supply, installation, testing, commissioning (DSITC) and handing over of an intelligent analog addressable fire alarm system required to form a complete, operative, coordinated system for the Bank's Main Office Building and Annex Building at New Delhi . It shall include, but not be limited to, alarm initiating devices, alarm notification appliances, control panels, auxiliary control devices, annunciators, power supplies and wiring as specified herein.

The fire alarm system shall comply with the requirements of **NFPA Standard No.72** for protected premises signaling systems except as modified and supplemented by this specification. The system shall be supervised either electrically or by software-directed polling of field devices.

An addressable fire alarm system shall be provided for the Basement+ Ground Floor +First Floor+ second Floor +Third Floor and Annex Building.

- As built drawing shall be prepared by the vendor executing the system **which shall be approved by Bank prior to execution.**
- There shall be a UL/EN/VDS listed microprocessor based Fire Alarm Control Panel (FACP) to be located in the Fire Control Room or as directed by the tender inviting Authority. The FACP is known as the brain of the alarm system. An input loop (SLC Loop) shall be laid from the FACP to cover the entire significant facilities of the building to which various UL/EN/VDS listed smoke detectors, heat detectors and manual call points, relay & control modules shall be connected. The smoke detectors and the heat detectors shall be provided inside the buildings. For the buildings indoor type manual call points shall be provided.
- **Five number Repeater Panels** shall also be provided at different points of the security office for parallel annunciation of the fire alarm system status. This will have direct connection with the FACP.
- In addition, programmable relay controls for controlling Lift movement, AHUs, pressurization fans, smoke extraction fans, ventilation fans in the basement, fire pump room, monitoring of sprinkler systems, pumping systems etc. shall be interfaced with the alarm system for annunciating the operational status of the same and for which necessary hardware shall be provided in the alarm panel.
- In fire situation, the smoke/heat detector shall sense the smoke/heat and send the input signal to the automation panel. The panel processes the signal and activated the AVS (audio visual strobe) to annunciate an alarm. If the fire is detected by any occupant earlier to the detectors; he/she can operate the manual call point to annunciate an alarm.

- The display of fire situation shall also be repeated /displayed in the repeater panel installed at various locations.
- The fire alarm system shall comply with requirements of IS-2189, NFPA-72 and other applicable Standards as per Odisha Fire Prevention & Fire Safety Rule-2017 for protected premises signaling systems except as modified and supplemented by this specification. The system shall be supervised either electrically or by software-directed polling of field devices.
- This section of the specification includes the Design, Supply, installation, testing, commissioning and handing over of an intelligent analog addressable fire alarm system required to form a complete, operative, coordinated system for the Bank's Office Building at New Delhi . It shall include, but not be limited to, alarm initiating devices, alarm notification appliances, control panels, auxiliary control devices, annunciations, power supplies and wiring as specified herein.

Scope of work

The scope of work includes Design, Supply, installation, testing, commissioning and handing over of an intelligent analog addressable fire alarm system for the Bank's Office Building at New Delhi along with as built drawing.

The existing Fire Alarm panel & system devices shall be removed and replaced with a new intelligent addressable, fire detection and alarm system which shall be supplied and installed in accordance with the specifications mentioned in this tender.

(A) Basic Performance

- (i) All signals from various type of devices shall be digitally encoded onto a looped multiplex communication system of appropriate class (Digitized electronic signals shall employ check digits or multiple polling).
- (ii) The devices shall be of low current, solid-state integrated circuits, and shall be powered from the central primary power and standby battery power source.
- (iii) A single ground or open on any system signaling line circuit, initiating device circuit, or notification appliance circuit shall not cause system malfunction, loss of operating power or the ability to report an alarm on other circuits
- (iv) Alarm signals arriving at the main FACP shall not be lost following a power failure (or outage) until the alarm signal is processed and recorded.

(B) Basic System Functional Operation

When a fire alarm/trouble condition is detected and reported by one of the system initiating devices or appliances, the following functions shall immediately occur:

- (i) The System Alarm LED shall flash or the system trouble LED shall flash.
- (ii) A local signal in the control panel shall sound.

(iii) The LCD display shall indicate all information associated with the fire alarm / trouble condition, including the type of alarm point and its location within the protected premises.

(iv) Printing and history storage equipment shall log the information associated with the fire alarm control panel condition, along with the time and date of occurrence.

(v) All system output programs including sounding of hooters assigned via control-by-event equations to be activated by the particular point in alarm/trouble condition shall be executed, and the associated system outputs (alarm notification appliances and/or relays) shall be activated.

(C) FIRE DETECTION & FIRE ALARM CONTROL PANEL

General

1. The Panel and all its accessories shall be **UL 864 LATEST EDITION/EN/VDS**, listed and shall comply with the latest standards of NFPA 72
2. The panel shall be a Microprocessor based, Analog addressable networkable and Intelligent.
3. The Panel shall have all necessary provisions for interfacing with smoke evacuation system, Air handling units, firefighting equipment, elevators, access control system, and other third party systems as required.
4. The Fire Alarm Control Panel / system shall be supplied with all required Hardware, Software, Technical support, Software Development Key (SDK), Application Program Interface (API) to integrate the Fire Alarm System to the proposed Command and Control Centre through open communication protocol such as BACNET / Modbus / OPC etc.
5. The system shall support a detector response time to meet world annunciation requirements of less than 3 seconds.
6. The system shall be designed so that spare capacity of at least 20% in each loop is available for future expansion.

Fire Alarm Control Panel (FACP)

The control panel shall be microprocessor based networkable system designed specifically for fire detection and alarm applications. The control panel shall include all required hardware, software and site specific system programming to provide a complete and operational system. The control panel shall be designed such that interactions between any applications can be configured, and modified. The control panel operational priority shall assure that life safety takes precedence among the activities coordinated by the control panel.

The Panel should be controlled by a Central Processing Unit (CPU). The CPU shall interface with all the loop cards which shall have its individual microprocessors for executing the functions of the fire alarm system. In case of **failure of the CPU, a standby CPU should take over the functions of the main CPU without affecting requirements of the**

system. Alternatively, in case the system design does not provide for on line standby CPU, a Preloaded and Preprogrammed ready for use standby CPU should be provided to ensure normal and satisfactory operation of the system.

Fire Alarm panel shall be a multi-loop (exact number of loops as per schedule of quantity) panel and all the loop card should be of same size with a minimum capacity of 225 detectors/devices. It shall have a backlit minimum **640**-character liquid crystal/LED display or touch screen, individual, color coded system status LEDs, and alphanumeric keypad and control of the fire alarm system, and the provision of internal / external printer.

The panel shall maintain a history file of the last 2500 events, each with a time and date stamp. History events shall include all alarms, troubles, operator actions, and programming entries. The control panels shall also maintain a 1000 event Alarm History buffer, which consists of the 1000 most recent alarm events from the 2500 event history file.

The loop interface board shall be able to drive an NFPA Style 6 twisted shielded circuit up to 5280 feet in length. The loop Interface shall also be capable of driving an NFPA Style 6, no twist, no shield circuit up to 5280 feet in length. In addition, loop wiring shall meet the listing requirements for it to exit the building or structure. "T"-tapping shall be allowed in either case.

The FAS shall have pre-signal and Positive Alarm Sequence that is the system shall provide means to cause alarm signals to only sound in specific areas with a delay of the alarm from 60 to up to 180 seconds after start of alarm processing. The system shall support a detector response time to meet world annunciation requirements of less than 3 seconds.

To obtain early warning of incipient or potential fire conditions, the system shall support a programmable option to determine system response to real-time detector sensing values above the programmed setting. Two levels of Pre-alarm indication shall be available at the control panel: alert and action.

The system shall provide means to allow panel programming either through an off-line software utility program away from the panel or while connected and on-line. The system shall support two password levels, master and user. Up to 6 user passwords shall be available, each of which may be assigned access to the programming change menus, the alter status menus, or both. Only the master password shall allow access to password change screens.

The system shall provide means to obtain a variety of reports listing all event, alarm, trouble, supervisory, or security history.

The system shall provide means to link one detector to up to two detectors at other addresses on the same loop in cooperative multi-detector sensing. There shall be no requirement for sequential addresses on the detectors and the alarm event shall be a result or product of all cooperating detectors chamber readings.

The Addressable Main Power Supply shall operate on 120/240 VAC, 50/60 Hz, and shall provide all necessary power for the FACP.

The FAS shall be networkable in a peer-to-peer style and shall be able to communicate with other network nodes at a minimum speed of 3Mbps on copper. It shall be able to build a network on copper or fiber optics.

FIRE ALARM SYSTEM DEVICES

1. Each device shall be UL LATEST EDITION/EN/VDS Listed.
2. Addressable devices shall use simple to install and maintain decade, decimal address switches. Devices shall be capable of being set to an address in a range of 001 to 225. Devices shall receive power and communication from the same pair of conductors of the SLC.
3. The contractors shall not install the detectors until after the construction cleanup of all trades is complete and final.
4. Initiating devices shall be installed in all areas, compartments, or locations where required by other NFPA codes and standards or as required by the authority having jurisdiction.
5. In the event of duplicate addressing of a device, the fire panel shall indicate this as a fault condition. However, the SLC should continue to function normally with the trouble condition display at the Fire panel.
6. Each addressable detector & device shall respond to Fire Alarm Panel scan for information with an analog representation of measured fire related phenomena (smoke density, particles of combustion, temperature).
7. The standard base of the Detector shall be interchangeable with other Smoke/Heat/Multicriteria Detectors.
8. Using software in the FACP, detectors shall automatically compensate for dust accumulation and other slow environmental changes that may affect their performance. The detectors shall be listed by UL LATEST EDITION/EN/VDS meeting the calibrated sensitivity test requirements of NFPA Standard 72.
9. Addressable devices shall use simple to install and maintain type address switches.

INITIATION DEVICES

Intelligent Multi Criteria Detector with floating sensitivity

The intelligent multi-criteria detector shall be an addressable device that is designed to monitor a minimum of photoelectric and thermal technologies in a single sensing device. The design shall include the ability to adapt to its environment by utilizing a built-in microprocessor to determine its environment and choose the appropriate sensing settings automatically i.e have floating sensitivity. The detector design shall allow a wide sensitivity window as per UL 864 LATEST EDITION/EN/VDS standards. This detector shall utilize advanced electronics that react to slow smoldering fires and thermal properties all within a single sensing device. It shall be capable of operation in heat-only alarm mode, enabled

by a special command from the panel.

The microprocessor design shall be capable of selecting the appropriate sensitivity levels based on the environment type it is in (office, manufacturing, kitchen etc.) and then have the ability to automatically change the setting as the environment changes (as walls are moved or as the occupancy changes).

The intelligent multi-criteria detection device shall include the ability to combine the signal of the thermal sensor with the signal of the photoelectric signal in an effort to react hastily in the event of a fire situation. It shall also include the inherent ability to distinguish between a fire condition and a false alarm condition by examining the characteristics of the thermal and smoke sensing chambers and comparing them to a database of actual fire and deceptive phenomena.

Analog Addressable Photo Electric Smoke Detector

It shall have an optical sensing chamber that operates on the light scattering principle. When smoke enters the sensing chamber it scatters light which is received by a photo cell. The signal is amplified and digitized for reception by the panel. Detector shall be completely solid state with LED indication at the detector.

The minimum coverage per Photoelectric Smoke Detector shall be 50 M. Sq. This coverage area will reduce depending upon structural configurations or partitions etc. as per NFPA 72, Chapter 5. It shall be possible to connect Smoke Detector with Heat Detector or Manual Push Buttons in the same SLC.

The location of smoke detectors shall be based on an evaluation of potential ambient sources of smoke, moisture, dust, or fumes, and electrical or mechanical influences to minimize nuisance alarms. The selection and placement of smoke detectors shall take into account both the performance characteristics of the detector and the areas into which the detectors are to be installed to prevent nuisance alarms or improper operation after installation.

As per NFPA 72, Chapter 5, smoke detectors shall not be installed if the ambient conditions are any of the four - Temperature below 0°C (32°F), Temperature above 38°C (100°F), Relative humidity above 93 percent, Air velocity greater than 1.5 m/sec (300 ft/min). Photoelectric smoke sensor shall have a nominal sensitivity as per UL 864 LATEST EDITION Standards/EN/VDS.

Addressable Heat Detectors

The Heat Detector shall be an Addressable Detector with its own manually set digital code and shall be able to give a single-digitized output to the Fire Alarm Panel regarding its condition. Heat detectors shall be rated at 135 degrees Fahrenheit and have a rate-of-rise element rated at 15 degrees F per minute. It shall connect via two wires to the fire alarm control panel signaling line circuit.

It shall be able to withstand temperature variations from 0 to 38 deg C. Further, relative Humidity (non Condensing type) up to 93% shall not hamper its performance. The Voltage

rating shall be from 15-29 V DC, though the voltage may be changed depending upon the working voltages of a proprietary Fire Alarm Panel. The Detector shall meet the requirements of NFPA 72 and shall be listed with UL 864 LATEST EDITION/EN/VDS. The approved coverage per Detector for unhampered areas shall not be less than 30 sq. M. The detector shall be capable of being reset automatically after any alarm condition.

Intelligent Duct Smoke Detectors

(i) The smoke detectors housing shall accommodate either an intelligent ionization detector or an intelligent photo electric detector of that provides continuous analog monitoring and alarm verification from the panel through a control module in the loop system.

(ii) When sufficient smoke is sensed in the return air coming to AHU (Detector unit has to be installed in return air path) an alarm signal is initiated at FACP to close the fire damper and prevent the rapid distribution of toxic smoke and fire gases throughout the areas served by duct system.

Beam Detector

A beam of light (usually invisible) projected across an area to monitor for smoke emitted by an incipient fire.

- End to End: Transmitter and receiver are mounted at either end of the protected area.
- Reflective: Transmitter and receiver are mounted in the same housing, and the beam is directed at a specially designed reflector, mounted at the opposite end of the protected area

Remote monitoring: The system should be provided with a remote monitoring/repeater panel with all necessary cabling and connectivity. The panel shall preferably mimic all the functions provided in the local onsite control panel including providing audible and visual annunciations.

Integration with firefighting systems: The system should be provided with necessary controls & wiring to activate third-party firefighting systems like suppression systems/automatic fire extinguishers etc. in the event of a confirmed detection of fire/smoke inside the controlled area/room.

Addressable Manual Call Point

Manual Call Point shall be of the dual action design. Addressable manual fire alarm boxes shall, on command from the control panel, send data to the panel representing the state of the manual switch and the addressable communication module status. They shall use a key operated test-reset lock, and shall be designed so that after actual emergency operation, they cannot be restored to normal use except by the use of a key.

The unit shall be made out of polycarbonate ABS blend with flame retardant & self extinguishing properties or cast aluminum or ASA plastic or as per manufacturer design and applicable standards. Manual fire alarm boxes shall have clearly visible operating instructions provided on the cover. The word FIRE shall appear on the front of the stations in raised letters.

Protective category shall be IP54 for indoors & IP65 for outdoors applications.

NOTIFICATION DEVICES

Strobe cum Alarm Hooters

Strobe cum Alarm hooters shall be suitable for indoor applications. All hooters shall be 24 V DC operated. The minimum sound level shall be 80 db at 10 feet. Listed to UL 1971 and UL 864 LATEST EDITION/EN/VDS. Strobe cum Alarm hooters shall be wired as a primary signaling notification appliance.

The strobe shall flash at 1 Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system. The hooter shall have two tone options, two audibility options (at 24 volts) and the option to switch between a temporal 3 pattern and a non-temporal continuous pattern.

The strobe cum alarm hooter shall be loop powered or else shall draw independent power from the FACP or any centralized reliable source of power supply. Making arrangement for the power cable and power supply units for this purpose shall be within the scope of SITC of strobe cum alarm hooters and shall not be paid separately.

MODULES

Monitor Module (for input to fire alarm panel)

The monitor module shall be used to monitor the health status of systems such as wet riser system, sprinkle system, etc. The monitor module should be addressable and shall be able to communicate any abnormal status of the supervised system to the FACP. The module shall contain an LED that blinks upon being scanned by the Fire Alarm panel.

Control Module (for output from fire alarm panel)

The addressable control module shall be provided to control the operations of the systems like AHUs, staircase pressurization system, firefighting system etc. The control module shall receive necessary communication from FACP and shall initiate required trigger to control the operation of the controlled system such as shut down of AHU(s) in the event of any fire sensed by FACP. The Control module should be capable of being configured for the above operations for designated AHUs, firefighting equipments etc. Upon transmission of the required signal to the designated equipment, a suitable indication should be provided in the FACP to indicate that the desired functions viz shutdown of the designated AHU and/or starting of the staircase pressurization system etc. have been completed/initiated. In order to perform the above, the control module be equipped with required relays, circuitry, hardware potential free NO/NC contacts etc.

The device module shall also contain an LED that blinks upon being scanned by the Fire Alarm panel to indicate its health or fault conditions.

Fault Isolator Device

A wire-to-wire short circuit fault on any circuit or device, before or after the circuit or device has been activated, shall initiate a trouble signal and shall isolate that circuit or device from the rest of the system. The Fault Isolator Device shall detect and isolate a short-circuited segment or device of a fault-tolerant loop. The fault isolator device shall automatically determine a return to normal condition of the loop and restore the isolated segment.

The Fault isolators shall be provided in the loop as per manufacturer's /UL/EN standard requirement for each detector/device or after a set of not more than ten detectors/devices.

In case fault isolator module is not built within smoke/heat detectors, cost of providing the fault isolator module after 10 devices shall be included in the rates quoted for the smoke detectors. No extra payment shall be made towards this item.

Repeater Panel

The Repeater Panel shall be with minimum suitable display or touch-screen to indicate the status of system and location of incident which shall mimic the main fire alarm panel. It shall be supervised, remotely located and shall have a back-lit LCD display. It shall have an on-board input, output, and status indicators to support diagnostics. It shall display all alarm and trouble conditions in the system. The Repeater panel shall be UL 864 LATEST EDITION Listed/EN/VDS. The Repeater Panel shall be capable of a wiring distance of up to 3300 feet from the main control panel using recommended cables. It shall have functional keys like Acknowledge, Signal Silence, System Reset, Lamp Test etc.

Networked Graphic Control Software (NCS)

The NCS shall utilize a Microsoft operating system. Network Control software shall be capable of graphically annunciating and controlling all network activity. Network display devices that are only capable of displaying a subset of network points shall not be suitable substitutes.

The NCS shall be a desktop computer with Intel i5 12th Generation, 256 MB, 32 GB RAM, Disk : 1TB Minimum - 15000 RPM, 1 GB Ethernet Port, Optical mouse, Multimedia Keyboard, Speakers, Preloaded Windows 11 and Antivirus Software, Laser jet Printer and 32" Flat Screen LED monitor.

The NCS shall be capable of storing network 1,00,000 events in a history file. Events shall be stored on hard disk and shall be capable of back-up storage to a tape drive. The history buffer shall allow the operator to view events in a chronological order. A filter shall be available for displaying chronological events by operator, date, time, fire alarms, troubles (including security, supervisory and system / device), disabled points / zones, system programming, operator response and operator log in / log out. The ability to print NCS history files shall also be available.

The NCS software shall be a high-performance colour graphic system capable of displaying all network events and points. The software should provide an easy-to-use graphical user

interface. The operator shall be presented with a consistent look and operation for all monitored equipment. The NCS software shall have the ability to monitor up to four Fire Alarm Control Panels.

It shall have but not be limited to the following features :

- a. All off-normal events displayed simultaneously with text and corresponding graphic screens.
- b. Automatic screen navigation (selectable for each device) that locates and zooms to the device related to an alarm or event, based on the priority of the event.
- c. Dynamically generated floor plan overview.
- d. Floor plans can be zoomed in and out and devices can be placed at different zoom levels.
- e. Full linked multimedia (text, audio, video and bitmaps) to any device and event status, all definable by the administrator.
- f. Intuitive navigational tree and icons for easy access to building floor plans.
- g. Control of fire panels (extent of control determined by panel model).
- h. Operator log with response tracking.
- i. Backup capability for all system data – screen, member and history databases.
- j. System Administrator - definable security, monitoring and control profiles for allowing extremely flexible definition of operator accounts.
- k. A Pop up at the time of alarm.
- l. Device disabling feature for faulty devices.
- m. When PC is switched ON, the NCS software must automatically be loaded without any manual intervention

Batteries

- (i) Battery (SMF) shall have sufficient capacity to power the fire alarm system for not less than 2 hrs in alarm condition and at least 24 hours in normal condition.
- (ii) The batteries are to be completely maintenance free.

Approvals

- (i) All the equipment shall have proper listing and/or approvals and shall comply to the requirements of the following recognized agencies.

UL 864 LATEST EDITION– Underwriters Laboratories Inc / EN / VDS.

Cables/conduits

All cables/conduits to be laid on wall, ceiling and on the hangers wherever necessary and as directed by Bank's engineer with required hardware. The cables shall be FRLS, armored PVC twisted 1.5 sq. mm multi stranded/solid insulated, copper conductor cables, conforming to IS:1554 and shall be of specified make. All the cables shall be properly terminated and labeled.

Detailed Technical Specifications for installation:

The above system shall be installed strictly in accordance with guidelines of NFPA 72 & IS-2189 and relevant standards.

Detector Spacing:

- (a) The listed spacing between the detectors (considering height of roof 3mtr) is - Below flat ceiling 7 mtr for Smoke detectors and 5.3 mtr for heat detectors.
- (b) The clearance between the detector and the wall is 0.5 times of the spacing between the detectors.
- (c) The clearance of any corner of the room to the nearest detector is 0.7 times the spacing between the detectors.
- (d) The **spacing between the detectors may be reduced** depending upon the height of the ceiling of the protected room. However, the standard ceiling height considered here is 10 feet / 3mtr.
- (e) Detectors shall not be mounted within 1 mtr of any air inlet (supply air inlets of HVAC system) or a forced ventilation system.
- (f) Detectors shall not be mounted within 500 mm of any walls, partitions structural beams and duct work, where the obstructions are greater than 250 mm in depth.
- (g) Where partitions or storage racks that reach within 300 mm of the ceiling, they shall be construed as walls that extend to the ceiling for the purpose of siting the detectors.
- (h) Similarly, ceiling obstructions, such as structural beams, deeper than 10 percent of the overall ceiling height shall be construed as walls for the purpose of siting the detectors, that is, each bay formed by such beams shall be treated as separate enclosure for provision of detectors.
- (i) Detector siting shall be such that a clear space of 500 mm is maintained below each detector.

- (j) A detector shall be placed on the protected side of the premises on the ceiling 1.5 mtr from air diffuser, any door, window or any opening in the wall partitions separating the protected premises from other premises.
- (k) All stair wells, lift shafts, other utility shafts, etc. shall have a detector at the top. Lift machine rooms shall be provided with detector.
- (l) The detector shall also be provided in cable tunnels, ducts, false floors, AC & AHU room, long AC return ducts.
- (m) Voids as in false ceiling / flooring more than 800 mm shall be protected with detectors with spacing like in normal installation and response indicators shall be provided below false ceiling.

Manual Call Point :

- (a) Manual call points shall be distributed throughout the building so that they are un-obstructed and readily accessible.
- (b) Manual call points shall normally be located at the exit path of any area/floor/room.
- (c) In addition to above, additional manual call points shall also be provided so that the travel distance to the nearest manual call point shall not be in excess of 30 mtrs inside the building, measured horizontally on the same floor.
- (d) Each manual call point shall be securely mounted on the wall/column so that its operable part shall be not less than 3'-6" (1.1 M) and not more than 4'-6" (1.4 M) above the floor.

Audio Visual Strobe:

- (a) The average sound level of an Audio Visual Strobe (AVS) shall not be less than 70 dBA.
- (b) The wall mounted AVSs shall have their tops at heights above the finished floor of not less than 90 inch (2.30 M).
- (c) The spacing between the AVSs shall not exceed 100 ft (30M) in a floor.
- (d) The corridors less than 20 ft. wide shall have one AVS at each 30 ft. (9.1M) distance.
- (e) An AVS shall be located no more than 15 ft. (4.57 M) from the end of the corridor.

Applicable Codes & Standards:

- The installation, testing and maintenance of the SYSTEM shall be in accordance with the following applicable codes, standards and regulatory bodies:

- (a) NFPA 101: Life Safety Code.
- (b) IS-2189
- (c) NFPA 70: National Electrical Code (NEC).
- (d) NFPA 72
- (e) Requirements of the local Authorities Having Jurisdiction (AHJ)

Applicable Listings and Approvals

The SYSTEM shall be in accordance with one or more of the following listings and approvals:

- (a) UL listed: Underwriters Laboratories or EN
- (b) And/or VDS approved

GENERAL TECHNICAL REQUIREMENTS

1. All system components shall be New and of Current manufacture and shall be installed in accordance with local codes. The product should not be at its End of Life. The Manufacturer has to give an undertaking that the product quoted is the latest model and will be able to support with spares for at least 8 years.
2. RBI, BBSR reserves the Exclusive Rights to unconditionally reject any and all such components which may not be, or are suspected not to be of current manufacture; and/or on the grounds of authenticity of the system components and designs.
3. Performance Guarantee Tests: Acceptance for the System installation shall be strictly in accordance with the installation acceptance guidelines as put forth in the NFPA – 72 and IS-2189 standards.

Scope of work

The scope of work includes Design, Supply, Installation, Testing, Commissioning and handing over of an intelligent analog addressable fire alarm system for the Bank's Main Office Building and Annex Building at RBI New Delhi. It includes installation, testing and commissioning of the system.

Installation

- (i) As the work is to be carried out in existing occupied building, the actual functioning of the existing fire alarm system cannot be put under shut down. Therefore, the execution of this work has to be meticulously planned and executed in consultation with site engineer and Fire officer in such a manner that fire safety of the building is not hampered.

- (ii) The work shall be taken for execution only after the entire material has been supplied at site.
- (iii) Before the commencement of execution of work, the tenderer shall design the system and prepare the drawings for the proposed new Fire alarm system and get the same approved from Bank.
- (iv) Installation shall be in accordance with the NEC, NFPA 72, local and state codes, as shown on the drawings, and as recommended by the major equipment manufacturer.
- (v) All conduit, junction boxes, conduit supports and hangers shall be concealed in finished areas and may be exposed in unfinished areas as per Bank's direction.
- (vi) **Removing and re-fixing of the light fixtures / false ceiling tiles in order to access the area above the false ceiling for laying of cable and fixing of detectors etc., will be in the scope of this contract. No additional payment shall be made on this account. Any damage to the Bank's property shall be made good without any additional claim.**
- (vii) Smoke detectors shall not be installed prior to the system programming and test period. If construction is ongoing during this period, measures shall be taken to protect smoke detectors from contamination and physical damage.
- (viii) All fire detection and alarm system devices, control panels and remote annunciators shall be flush mounted when located in finished areas and may be surface mounted when located in unfinished areas.
- (ix) Addressable intelligent Manual Call Points (Manual Stations) shall be suitable for surface mounting or semi-flush mounting as existing, and shall be installed above the finished floor.
- (x) Dismantling of the old system is in the scope of the contractor, all the old devices, cables, panels etc. related to the old fire alarm system shall be dismantled properly after successful operation of the new fire alarm system.
- (xi) The contractor shall depute a qualified supervisor to oversee the work during execution. No work shall be carried out at site without the presence of supervisor.

Testing of the System

The contractor shall arrange and provide at no extra cost, the service of a competent, factory-trained engineer or technician authorized by the manufacturer of the fire alarm equipment to technically supervise and participate during all of the adjustments and tests for the system.

- (i) Before energizing the cables and wires, check for correct connections and test for short circuits, ground faults, continuity, and insulation.
- (ii) Open initiating device circuits and verify that the trouble signal actuates.
- (iii) Open signaling line circuits and verify that the trouble signal actuates.
- (iv) Open and short notification appliance circuits and verify that trouble signal actuates.

- (v) Ground initiating device circuits and verify response of trouble signals.
- (vi) Ground signaling line circuits and verify response of trouble signals.
- (vii) Ground notification appliance circuits and verify response of trouble signals.
- (viii) Check alert tone and prerecorded voice message if any to all alarm notification devices.
- (ix) Check installation, supervision, and operation of all intelligent smoke detectors using walk in test.
- (xii) Each of the alarm conditions that the system is required to detect should be introduced on the system. Verify the proper receipt and the proper processing of the signal at the FACP and the correct activation of the control points.
- (xiii) When the system is equipped with optional features, the manufacturer's manual should be consulted to determine the proper testing procedures. This is intended to address such items as verifying controls performed by individually addressed or grouped devices, sensitivity monitoring, verification functionality and similar.
- (xiv) Vendor should check PNG detectors by initiating the device with the help of PNG

Final Inspection

At the final inspection a factory trained representative of the manufacturer of the major equipment shall demonstrate that the systems function properly in every respect.

Instructions

- (i) Provide instruction as required for operating the system. "Hands-on" demonstrations of the operation of all system components and the entire system including program changes and functions shall be provided.
- (ii) The contractor and/or the systems manufacturer's representatives shall provide a typewritten "Sequence of Operation."

Documentation

- (i) Sufficient information, clearly presented, shall be included to determine compliance with drawings and specifications.
- (ii) It should include manufacturer's name(s), model numbers, ratings, power requirements, equipment layout, device arrangement, complete point to point wiring diagrams, annunciator layouts and main control layout, configurations and terminations.
- (iii) Complete operating and maintenance manuals including technical data sheets.
- (iv) Provide a clear and concise description of operation which gives, in detail, the information required to properly operate the equipment and system.
- (v) Four copies of the above documents in book form well bound should be submitted.

Warranty

System shall be warranted for not less than a period of one (1) year from the date of virtual completion. The Employer shall specify the maintenance to be performed during the warranty period to maintain warranty conditions. The bidder shall also quote for Maintenance for a further period of 7 years after DLP of 1 year.

The scope of Comprehensive AMC after defect liability period includes attending and

replacement of all spare parts of the alarm system including replacement of faulty cable.

I/We hereby declare that I/We have read and understood the above instructions which have been issued as conditions of the Contract.

(Signature of the Tenderer).

Date -

Place –

Section-IX

Design, Supply, Installation, Testing and Commissioning of Intelligent Analog Addressable Fire Alarm System for the Bank's Main Office Building and Annex Building at RBI New Delhi

List of Approved Makes / Brands

S.No.	DESCRIPTION	APPROVED MAKE
1.	FRLS Cables	Finolex, R K cable Havells, Polycab
2.	Fire Equipment: Control Nodes (Fire Panel, repeater panel, software etc), Initiation devices (detectors, Duct Probe Detectors, Manual Call Points, PNG detector, Beam Detector etc); Notification devices (hooter cum strobes etc, Remote Indicators, repeater panel .), Modules	Notifier, Morley, Siemens, Honeywell Bosch ,Edwards , Johnson Control Schrack
3.	Computer (PC)	IBM, HP, Compaq, DELL
4.	25 mm GI conduit of medium strength	SAIL, Tata, Jindal,
(a)	Software	As per OEM licensed software

Date :

Place :

Signature of tenderer _____
Seal

Design, Supply, Installation, Testing and Commissioning of Intelligent Analog Addressable Fire Alarm System for the Bank's Main Office Building and Annex Building at RBI New Delhi

Offered Makes & Models by the tenderers

Sl. No.	Item	Offered Make	Offered Model
1	Fire Alarm Control Panel		
2	Networked Graphic Control Station		
3	Repeater Panel (Active)		
4	Heat Detectors		
5	Multicriteria Detector		
6	Beam Detector		
7	Manual call point		
8	Hooter cum strobe lights		
9	Fault Isolator Module		
10	Control Module		
11	Response Indicator		
12	Computer		
13	Monitor Module		
14	Duct Probe Detector		
15	Fire Alarm Cable		
16	Signal Cable for Repeater Panel		

The tenderers have to supply the technical literature of all the above offered makes and models in part I of the tender.

The firm must have installed and commissioned at least one Fire Alarm Control Panel of the above offered make & model. The details of such installation to be furnished.

Signature of tenderer _____
Seal

Section-X

Design, Supply, Installation, Testing and Commissioning of Intelligent Analog Addressable Fire Alarm System for the Bank's Main Office Building and Annex Building at RBI New Delhi

Technical data to be furnished by tenderer

SL. No.	Description	Tender Requirements	To be filled by bidder Yes OR No	Remarks
1	Fire Alarm Control Panel (8 Loops) expandable up to 10 loops as under.			
	Total Loops in panel	8		
	Provision for expansion of loop	Up to 10 loops		
	Minimum Addressable Detectors & devices (modules) per Loop	225		
	Complete System Scanning time	3 sec		
	Field Programming via Built-in Key pad on the panel	Provision on the panel		
	Display on panel	640 Ch LCD display		
	Provision of Digital Voice Command (DVC) and firefighters telephone communication system.	Provision should be available		
	Alarm Verification	Required		
	Adjustable Alarm Sensitivity Level	Required		
	Event History	999 events		
	Trouble alarm History	999 events		
	Latest UL Listed /EN 54 / VDS Standards to be implemented)	Required		
2.	Repeater Panel			
	Display	Required		
	Mimic all events and Notification from the Panel	Required		
	It shall have functional keys like Acknowledge, Signal Silence, System Reset, Lamp Test etc	Required		
3.	Analog addressable smoke detector			

	UL Listed/EN 54 / VDS			
	It shall be analog addressable and intelligent	Required		
	It shall include the inherent ability to distinguish between a fire condition and a false alarm condition by comparing them to a database of actual fire and deceptive phenomena.	Yes		
4	Addressable Manual Call Point			
	UL Listed/EN 54 / VDS	Required		
	Addressable	Required		
5	Hooter cum Strobe Lights	Required		
	The hooter shall have a output of 80 dB at 10 feet	Output 80 dB		
	They shall be connected to the main fire panel with modules.(if not loop powered)	Connected with Modules		
6	Fault Isolator Module	Required		
	(i) Automatic resetting arrangement	Required		
7	Addressable control modules	Required		
8	Addressable monitor modules	Required		
9	a) Networked Graphic Control Station. Main network software must be capable of representing graphically each facility being monitored with floor plans and icons depicting the actual locations of the various systems; and / or sensors' locations.	Required		
	b) The software should accommodate current devices and expandable up to 15000 IBMS (access control, Fire, HVAC etc) points minimum. Future option to cloud connectivity may be there.	Required		
	c) The software shall be located in control room in one of the blocks and shall monitor all the blocks panel connected with each other	Required		
	d) The software shall provide the facility to Monitor 2-way communication from main control room using voice signals over Fire Network along with the Fire detection signal.	Required		
10	Work Station: Intel i5 12 th Generation, 256 MB, 32 GB RAM, Disk : 1TB Minimum - 15000 RPM, 1 GB Ethernet Port, Optical	Required		

	mouse, Multimedia Keyboard, Speakers, Preloaded Windows 11 and Antivirus Software, Laser jet Printer and 32" Flat Screen LED monitor.			
11	Duct Probe Detector UL Listed/EN 54/VDS	Required		
12	Beam Detector UL Listed/EN 54/VDS	Required		
13	Heat Detector UL Listed/EN 54/VDS	Required		
14	Power Supply for Beam Detector / Strobe & Hooter (Optional), Repeater Panel UL Listed/EN 54/VDS	Required		
15	Gas Leak Detector with Power Supply UL/EN/VDS	Required		
16	Remote Indicator shall be of the same make of Fire Alarm Panel	Required		

Signature of tenderer _____
Seal

SECTION XI: Schedule of Technical Deviations

We confirm that all technical terms and conditions and specifications of the Bank except for deviations listed below.

Sr. No.	Section No.	Clause No.	Deviation proposed
1	2	3	4

Seal & Signature of Tenderer.
Name
Designation
Date

Section- XII

Check list

Commercial Conditions

Design, Supply, Installation, Testing and Commissioning of Intelligent Analog Addressable Fire Alarm System for the Bank's Main Office Building and Annex Building at RBI New Delhi

The tenderers are requested to fill in following particulars.

Sr. No.	Description	Bank's Terms	Whether acceptable or not (Write Yes or No)
1.	Validity	Shall be valid for 90 days from the date of opening of Part-I.	
2.	Earnest Money Deposit (EMD)	Rs 1,16, 000/-	
3.	Completion period	180 Days from the 14th day of date of placing order.	
4.	Liquidated damages	As defined in "clause 4.23 of Section- IV The Conditions Hereinafter Referred To" of the contract.	
5.	Guarantee for all equipment's	Shall furnish guarantee for a period of one year from the date of commissioning / handing over.	
6.	Service facility	Service facility available at New Delhi .	

7.	Penalty for delay in providing service	Maximum probable time to attend to complaint shall not exceed as per details indicated in clause 3.16 commercial condition.	
8.	Terms of payment for the work	As per clause 3.12 General Instructions to Tenderers and Special Conditions.	
9.	Terms of payment for AMC	To be paid on half yearly basis on rendering satisfactory services.	
10.	Insurance	As per clause 3.14 General Instructions to Tenderers and Special Conditions	
11.	List of Bankers	To be uploaded along with Part I of the tender, with full postal address and dealing person's name.	
12.	List of Clients	To be uploaded with Part I of the tender, with full postal address and the names of dealing persons.	

Note - Please indicate Yes / No against the items. If 'No', please indicate the deviation only.

Place:

Date:

Seal & Signature of the Tenderer.

f

Escalation Matrix for Project Follow-up

The tenderers are requested to fill in following particulars.

S.No.	Escalation Level	Name of the Person & Designation	Address	E-Mail ID	Phone Number
1	1 (Site - Supervisor)				
2	Junior Management				
3	Middle Management				
4	Top Management				

Escalation Matrix for DLP & CAMC

The tenderers are requested to fill in following particulars.

S.No.	Escalation Level	Name of the Person & Designation	Address	E-Mail ID	Phone Number
1	1 (Service Manager)				
2	Junior Management				
3	Middle Management				
4	Top Management				

Design, Supply, Installation, Testing and Commissioning (DSITC) of Intelligent Analog Addressable Fire Alarm System for Bank's Main Office Building and Annex Building at RBI New Delhi .

Unpriced Bill of Quantity

PART – II : Bill of Quantity (BOQ)

Sl. No.	Description	Unit	Qty.
1.	<p>Fire Alarm Control Panel (FACP):</p> <p>Supply, Installation, Testing and Commissioning of Microprocessor based 08 loops, Networkable analogue addressable Fire Alarm Control Panel (FACP) expandable upto 10 loops. The Panel shall have minimum 640-character LCD / LED display or touchscreen. The panel should be equipped with sufficient number of loop with 25% spare capacity with each loop shall have a capacity of minimum 300 analog addressable detectors / devices. It shall have multi access levels, flash EPROM and should be operated on 240 volts AC power supply, Automatic battery charger, 24 volts sealed lead acid batteries sufficient for 24 hours normal working and then be capable of operating the system for 2 hours during an emergency condition.</p> <p>Fire Alarm Control Panel shall also be supplied with all the required gateways like Modbus / BACnet, etc., and the required hardware, software, Application Program Interface (API), Software Development Key (SDK), etc., to communicate on open protocol such as Modbus / BACnet, etc., for connectivity with the Command and Control Centre. Cost of</p>	Nos.	1

	FAS panel shall include all the loop cards, Interface cards, control cards, power control cards, etc.		
2.	<p>a) Networked Graphic Control Software (NCS): Supply, Installation, Testing and Commissioning of Networked Graphic Control Software and must be capable of graphically representing each facility being monitored with floor plans and icons depicting the actual locations of the various systems; and / or sensors' locations. The software should accommodate current devices and expandable up to 15000 IBMS (access control, Fire, HVAC etc) points minimum. Future option to cloud connectivity may be there.</p> <p>b) PC with Monitor and Printer: Supply of computer / workstation / PC with Intel i5 12th Generation, 256 MB, 32 GB RAM, Disk : 1TB Minimum - 15000 RPM, 1 GB Ethernet Port, Optical mouse, Multimedia Keyboard, Speakers, Preloaded Windows 11 and Antivirus Software, Laser jet Printer and 32" Flat Screen LED monitor</p> <p>The software with PC shall be in fire control location / room. The software shall provide the facility to monitor 2-way communication from</p>	Set	1

	<p>main control room using voice signals over Fire Network along with fire detection signal.</p> <p>Cost shall include all programming charges, interface module with other fire alarm system and its components, BMS system, etc.</p>		
3.	<p>Repeater Panel:</p> <p>Supply, Installation, Testing and Commissioning (SITC) of Repeater Panel with LCD display. The LCD shall Display all events/detectors, and devices status of complete systems in the network. It shall be UL listed (Locations Guard Room, CCTV Room, GM, Issue, DGM, Security Cabin and in Fire panel Room</p>	Nos.	5
4.	<p>Early Initiating Devices:</p> <p>Supply Installation Testing and Commissioning (SITC) of multi eco-speed sensing type analog spot type addressable very early warning type photo-electric smoke detector with mounting based LED addressable switch complete as required with mounting based LED, Address Switch, complete as required by NFPA 76/ NFPA 318 (DIT Server 3 Nos'; CCTV server room 4 No's; CES Server 2 No's; Telephone exchange Room 1 No.; Battery Rooms 5 No's)</p>	Nos.	15
5.	<p>Multi criteria Detector below false ceiling:</p> <p>Supply Installation Testing and Commissioning (SITC) of Intelligent Addressable type multi-sensor detector (Photo + Fixed Tempt. + Rate of Rise Temperature) with base for use as heat or smoke or combined both automatic electronic addressing, microprocessor type with MS Box.</p>	Nos.	500

	Detector shall have auto learn, drift compensation etc.		
6.	Multi criteria Detector on true ceiling: Supply Installation Testing and Commissioning (SITC) of Intelligent Addressable type multi-sensor detector (Photo + Fixed Tempt. + Rate of Rise Temperature) with base for use as heat or smoke or combined both automatic electronic addressing, microprocessor type with MS Box. Detector shall have auto learn, drift compensation etc.	Nos.	100
7.	Supply, Installation, Testing and Commissioning of Response Indicator (RI) with dual LEDs. Cost of all the accessories required like boxes, back plate, for fixing of RI on concrete roof / false ceiling termination of cable, etc., required accessories, etc., complete have to be included in the rate quoted and comply fully with the detailed specifications set out in Part I of the Tender	Nos.	350
8.	Heat detector: Supply Installation Testing and Commissioning of Analog addressable Rate of Rise Cum Fixed temperature / Heat detector complete with base, LED etc.as required.	Nos.	08
9.	Duct probe detector: Supply Installation Testing and Commissioning of Analog addressable Duct probe detector complete with base, LED etc.as required.	Nos.	19
10.	Beam detector: Supply Installation Testing and Commissioning of Beam detector with complete as required.	Nos.	3
11.	Digital Linear Heat Sensing cable:	Set	5

	Supply Installation Testing and Commissioning of Digital type linear heat Sensing cable (20 meter set) with module.		
12.	<p>Control modules for Ventilation Fans' Panel /AHU's Tripping & Lifts, Fire damper systems etc.:</p> <p>Supply Installation Testing and Commissioning of Addressable UL Listed / EN / VDS Relay control modules for Ventilation Fans' Panel /AHU's Tripping & Lifts, Hooter cum Strobe, Fire damper systems, etc. with Address Switch to program the device, complete as required.</p>	Nos.	25
13.	<p>Monitor modules for Sprinkler Flow Switch etc:</p> <p>Supply Installation testing and Commissioning (SITC) of Addressable UL Listed / EN / VDS monitor modules for Sprinkler Flow Switch, etc. Monitoring with Address Switch to program the device complete as required.</p>	Nos.	12
14.	<p>Manual call Station:</p> <p>Supply Installation Testing and Commissioning of Addressable Manual Call Station.</p>	Nos.	40
15.	<p>Hooter cum Strobe light:</p> <p>Supply Installation Testing and Commissioning of Addressable Hooter cum Strobe light complete with modbus</p>	Nos.	30
16.	<p>FRLS armoured copper multistranded cable: Supply Installation Testing and Commissioning of FRLS armoured 2 C X 1.5 Sq. mm PVC insulated copper multistranded Fire cable (Red) complete with termination, all accessories hardware and testing as per requirement.</p>	RM	1000

17.	FRLS armoured copper multistranded shielded cable: Supply Installation Testing and Commissioning (SITC) of FRLS armoured PVC insulated copper multistranded shielded cable complete with termination all accessories hardware and testing as per requirement for Repeater Panel (Signal).	RM	100
18.	PNG Gas Leak Detector: Supply Installation Testing and Commissioning (SITC) PNG Gas leak detector with mounting brackets, all accessories complete i.e. LED Display, Potential Free Contact & Power supply as required.	Nos.	05
19.	Smoke detector for Harsh environment: Supply, Installation, Testing and Commissioning (SITC) of Analog addressable photoelectric type smoke detector with inbuilt fan and minimum two filters for Harsh environment mounting based LED for hostile area applications for Brickation area. (similar to Notifier's FSH-751 Detector)	Nos.	05
20.	Excavation work: Excavation of earth, concrete, paver or any type of hard soil for routing detection cable in 25 mm GI metal conduit at a depth of 300mm in open areas to be done along the alignment, including trimming and dressing as per site conditions, levelling of beds or trenches to correct grades, disposal of surplus earth or excavated materials as per direction of Engineer-in-Charge & restoration to its original condition.	RM	10
21.	Trench work (GI Pipe): SITC of medium strength 25mm size GI conduit pipe with threaded joints inside excavated trench for routing detection cable underground.	RM	20

A	Total Capital Cost inclusive of all taxes (₹)		
22.	Rebate of removing and taking old material under the Buy-Back scheme: Rebate for dismantling and taking away for the existing fire alarm system including detectors main panel, repeater panels, hooters, strobe lights, etc. after the testing, commissioning, and stabilization of the New Fire Alarm System. The work (Installation of a fire alarm system) will be completed when dismantled material will be taken out from RBI Premises without removal of existing cable of old fire alarm system. The buy is exclusive of old cable and directional sounders. The rate should be inclusive of all taxes, if any.	Job	01
	B Total amount for Rebate (₹)		
23.	Comprehensive Annual Maintenance Service (CAMC) charges for the entire fire alarm system including main panel, devices and cabling, spares, labour, upgradation of software, etc. The rate shall be valid for first year after initial guarantee period of one year	Per annum	01

The above system should follow the following Standards

NFPA 318 (Standards on Critical Area and Clean room applications)

NFPA 76 (Protection of Electronic Computer/Data Processing)

NFPA 72 (Standards on Fire detection)

NFPA 2001 (Standards on Gas Suppression)

NFPA 101 (Standards on Life Saving)

Total owning cost = Net Capital cost (Cost of new equipment – buyback value for old

equipment's) + 5.63 X quoted per annum cost for CAMSC.

Date:

Seal & Signature of the Contractor

Place:

Annexure-I

Proforma of Performance Bank Guarantee (PBG)

(To be submitted on Non-judicial stamp paper of appropriate value purchased in the name of the issuing bank)

No.____ Date __

To:

The Regional Director,
Reserve Bank of India
Estate Department
New Delhi .

Dear Sir

In consideration of your agreeing to accept the security deposit of INR only) furnish able to you by M/s____(hereinafter referred to as "the Contractor") in terms of their contract with you for **Design, Supply, Installation, Testing and commissioning of Intelligent Analog Addressable Fire Alarm system for the Bank's Main Office Building and Annexe Building at RBI New Delhi** as per their Tender dated____and your Special Conditions of Contract and other tender documents relating thereto subject to the conditions and alterations mutually agreed upon the set forth or referred to in your Contract dated in the form of guarantee from us in the manner hereinafter contained, we (Name of the Bank) do hereby covenant and agree with you as follows

1. We undertake to indemnify you and keep you indemnified from time to time to the extent of INR only) against any loss or damage caused to or suffered by or that may be caused to or

suffered by you by reason of any breach or breaches on the part of the Contractor of any of the terms and conditions contained in the said Contract and in the event of the Contractor making any default or default in carrying out any of the work under the said Contract or otherwise in the observance and performance of any of the terms and conditions relating thereto in accordance with the true intent and meaning thereof, we shall forthwith on demand pay to you such sum or sums not exceeding in total the said sum of INR___ INR_____only) as may be claimed by you as your losses and/or damages, costs, charges or expenses by reason of such default on the part of the Contractor.

2. Notwithstanding anything to the contrary, your decision as to whether the Contractor has made any such default or defaults and the amount or amounts to which you are entitled by reasons thereof will be binding on us and we shall not be entitled to ask you to establish your claim or claims under this Guarantee but will pay the same forthwith on your demand without any protest or demur.
3. This guarantee shall continue and hold good until it is released by you on the application by the Contractor after expiry of the relative guarantee period of the said Contract and after the contractor had discharged all his obligations under the said Contract and produced a certificate of due completion of the work under the said contract and submitted a "No Demand Certificate", provided always that this guarantee shall in no event remain in force after the day of _____without prejudice to your claim or claims arisen and demanded from or otherwise notified to us in writing before the expiry of six months from the said date which will be enforceable against us notwithstanding that the same is or are enforced after the said date.
4. Should it be necessary to extend this guarantee on account of any reason whatsoever, we undertake to extend the period of this Guarantee on your request till such time as may be required by you. Your decision in this respect shall be final and binding on us.
5. You will have the fullest liberty without effecting this guarantee from time to time to vary any of the terms and conditions of the said contract or extend the time of performance of the Contractor or to postpone for any time or from time to time any of your rights or powers against the Contractor and either to enforce or forbear to enforce any of the terms and conditions of the said Contract and we shall not be released from our liability under this guarantee by the exercise of your liberty with reference to matters aforesaid or by reason of any time being given to the Contractor or any other forbearance, act or omission on your part or any indulgence by you to the Contractor or by any variation or modification of the said contract or any other act, matter or things whatsoever, which under the law relating to sureties would but for the provisions hereof have the effect of so releasing us from our

liability hereunder provided always that nothing herein
contained will enlarge our liability hereunder beyond the limit of INR _____
(only) as aforesaid.

6. This guarantee shall not in any way be affected by your taking or varying or giving up any securities from the Contractor or any other person, firm or company on its behalf or by the winding up, dissolution, insolvency or death as the case may be, of the Contractor.
7. In order to give full effect to the guarantee herein contained you shall be entitled to act as if we were your principal debtors in respect of all your claims against the Contractor hereby guaranteed by us as aforesaid and we hereby expressly waive all our rights of surety-ship and other rights, if any, which are in any way inconsistent with any of the provisions of this guarantee.
8. Subject to the maximum limit of our liability as aforesaid, this guarantee will cover all your claim or claims against the contractor from time to time arising out of or in relation to the said contract and in respect of which your claim in writing is lodged on us before expiry of six months from the date of expiry of this guarantee.
9. Any notice by way of demand or otherwise hereunder may be sent by special courier, telex, fax or registered post to our local address as aforesaid and if sent by post, it shall be deemed to have been given when the same has been posted.
10. This guarantee and the powers and provisions herein contained are in addition to and not by way of limitation of or substitution for any other guarantee or guarantees heretofore given to you by us (whether jointly with others or alone) and now existing un cancelled and that this guarantee is not intended to and shall not revoke or limit such guarantee or guarantees.
11. This guarantee shall not be affected by any change in the constitution of the contractor or us nor shall it be affected by any change in your constitution or by any amalgamation or absorption thereof or therewith but will ensure to the benefit of and be available to and enforceable by the absorbing or amalgamated company or concern.
12. Any forbearance, act or omission on the part of the Bank in enforcing any of the conditions of the said tender or showing of any indulgence by the Bank to the Tenderer shall not discharge the Surety in any way and the obligations of the Surety under this guarantee shall be discharged only on the intimation thereof being given to the Surety by the Bank.
13. This guarantee is irrevocable during the period of its currency and shall not be revoked without your previous consent in writing.
14. We further agree and undertake to pay you without demur the amount demanded by you in writing notwithstanding any difference or dispute or controversy that may exist or arise

between you and contractor or any other person.

15. Notwithstanding anything contained herein above our liability under this guarantee is restricted to INR _____ only). Unless a written claim is lodged on us for payment under this guarantee within six months from the date of expiry, including extensions if any, of this guarantee all your rights under the guarantee shall be forfeited and we shall be deemed to have been released and discharged from all liabilities thereunder, irrespective of whether or not the original guarantee is returned to us.
16. We have power to issue this guarantee in your favour under the Memorandum and Articles of Association of our Bank and the undersigned has full power to execute this Guarantee under the Power of Attorney granted to him by the Bank.

SIGNED AND DELIVERED

(For & on behalf of the above named Bank)

For & on behalf of (Banker's
Name & Seal)

BRANCH MANAGER
(Banker's Seal) Add

Performa of undertaking for maintenance confirmation by the OEM on behalf of the tenderer.

To,
The Regional Director
Reserve Bank of India
Estate Department,
New Delhi

Dear Sir/Madam

Tender for Design, Supply, Installation, Testing and Commissioning of Intelligent Analog Addressable Fire Alarm System for the Bank's Main Office Building and Annexe Building at RBI New Delhi .

We hereby undertake to maintain the **Intelligent Analog Addressable Fire Alarm System** installed by us in Bank's Main Office Building and Annex Building in New Delhi through M/s_, our authorised dealer/ system integrator satisfactorily, for a period of not less than 7 years after expiry of the defect liability/warranty period of one years from the date of commissioning and handing over the system to the Bank at the rates quoted in the tender towards all-inclusive annual maintenance contract, subject only to the price revision clause specified in the tender.

In the unlikely event of M/s _____ not remaining our authorised dealer/ system integrator, we, the original equipment manufacturer, shall continue to provide support through any of our other dealer/ system integrator in terms of spares/ technical man power etc. i.e. all-inclusive service to your satisfaction, by arranging required spares etc. ourselves, within the rate quoted in the tender for the all- inclusive maintenance contract for the period accepted as above. In case of any such event, the Bank shall be immediately informed about the details of the new authorized dealer/ system integrator.

Yours faithfully,

For _____

(OEM)

Authorized signatory

For _____

(Authorized Dealer/ system Integrator)

Authorised signatory

FORMAT OF BANKERS' CERTIFICATE

On the Letter Head of Bank

Ref. No. _____

Date: _____

Regional Director
Reserve Bank of India
Estate Department
New Delhi
110001

Email: estatenewdelhi@rbi.org.in

Respected Sir/Madam,

Name of Work: Design, Supply, Installation, Testing and Commissioning of Intelligent Analog Addressable Fire Alarm System for the Bank's Main Office Building and Annexe Building at RBI New Delhi .

This is to certify that to the best of our knowledge and information M/s. /Shri..... a customer of our bank having marginally noted address, are/is respectable and can be treated as good for any engagement upto a _____ limit _____ of ₹.....(Rupees). This certificate is issued without any guarantee or responsibility on the bank or any of its officers.

Other particulars are given below for your perusal and record:

S.No.	Particulars	Comments of the Bank
1.	Composition of the firm (whether Partnership"/ Private Limited/ Proprietorship/ Public Limited.)	
2.	Name of the Proprietor/ Partners/ Directors of the firm.	
3.	Credit facility/ Overdraft facility enjoyed by the firm.	
4.	Dealings	
5.	The period from which the firm has been banking with your bank.	
6.	Any other remarks.	

(Signature)
For the Bank

Note:

Bankers' certificates should be on letter head of the Bank, sealed in cover addressed to RBI.

In case of partnership firm, certificate should include names of all partners as recorded with the Bank

List of Clients

Details of similar qualifying works executed during the last 5 years (completed on or **after May 31, 2019**)

Sr. No.	Name of work	Name and address of the firm	No. & capacity of FAD units supplied & commissioned	Value of the work	Whether works completed in time or not (give date of start & and date of completion)	Completion period as per work order	Fax /email /phone number &contact person of the firm

(Attach sheet if required)

Signature of Tenderer:

Date

Proforma For Bank Guarantee In Lieu Of Earnest Money Deposit

(To be submitted on non-judicial stamp paper of appropriate value purchased in the name of the issuing Bank)

This deed of guarantee made this ____ day of ____ two thousand ____ between ____ (Name of Banker) having its registered office at ____ (place) and one of its local offices at ____ (hereinafter referred to as the Surety), and Reserve Bank of India, a Corporation constituted by the Reserve Bank of India Act, 1934, having its Central Office at Central Office Building, Shahid Bhagat Singh Road, Mumbai-400 001 INDIA (hereinafter referred to as the Bank).

WHEREAS _____ (Tenderer's name hereinafter referred to as 'Tenderer') a Company registered under _____ and having its registered office at _____ is bound to deposit with the Bank by way of earnest money INR _____ (INR _____ only) in connection with its Tender for Design, Supply, Installation, Testing and commissioning of Intelligent Analog Addressable Fire Alarm system for the Bank's Main Office Building and Annexe Building at New Delhi and the specifications and terms and conditions enclosed therein.

WHEREAS the tenderer as per clause No. _____ Section II of Instructions to tenderers and special conditions has agreed to furnish a Bank Guarantee valid up to _____ instead of deposit of earnest money in cash.

NOW THIS WITNESSETH:

1. That the Surety in consideration of the above Tender made by the Tenderer to the Bank hereby undertakes to guarantee payment on demand without demur to the Bank the said amount of INR _____ (INR _____ only) within one week from the date of receipt of the demand from the Bank on presentation of this deed of guarantee, which the Tenderer is bound to deposit with the Bank by way of earnest money in connection with his Tender.

2. This guarantee shall not be affected by any infirmity or irregularity on the part of the Tenderer or by the dissolution or any change in the constitution of the Bank, Tenderer or the Surety.

3. The Bank shall be eligible to make any claim under this guarantee if the Tenderer after submitting his Tender, rescinds from his offer or modifies the terms and conditions thereof in a manner not acceptable to the Bank or expresses his unwillingness to accept the order after the Bank has decided to place order with the Tenderer for the above cited work for Bank's main office premises, at New Delhi Office. The Banks' decision in this regard shall be final and binding.

4. The Surety shall not and cannot revoke this guarantee during its currency except with previous consent of the Bank in writing.

5. Notwithstanding anything contained in the foregoing, the Surety's liability under the guarantee is restricted to INR _____ (INR _____ only).

6. This guarantee shall remain in force and effective up to _____ and shall expire and become ineffective on intimation thereof being given to the Surety by the Bank in which event this guarantee shall stand discharged.

7. The Surety will make the payment pursuant to the demand notice issued by the Bank, notwithstanding any dispute that may exist or arise between the Tenderer and the Bank or any other person.

8. Any forbearance, act or omission on the part of the Bank in enforcing any of the conditions of the said tender or showing of any indulgence by the Bank to the tenderer shall not discharge the Surety in any way and the obligations of the Surety under this guarantee shall be discharged only on the intimation thereof being given to the Surety by the Bank.

9. Notwithstanding anything contained hereinabove, unless a demand or claim under this guarantee is made on the Surety in writing on or before _____, the Surety shall be discharged from all liabilities under guarantee thereafter.

10. The Surety has the power to issue this guarantee under its Memorandum and Articles of Association and the person who is hereby executing this deed has the necessary powers to do so under the Power of Attorney granted to him by the Surety.

SIGNED AND DELIVERED
For and on behalf of above named Bank.

For and on behalf of
(Banker's Name and Seal)

Branch Manager
(Banker's seal)

*On the Letter Head of
company/firm/organization*

Ref. No. _____

Date: _____

Reserve Bank of India
Estate Department
6, Sansad Marg New
Delhi -110001

Email: estatenedelhi@rbi.org.in

Respected Sir/Madam,

Name of Work: Design, Supply, Installation, Testing and Commissioning of Intelligent Analog Addressable Fire Alarm System for the Bank's Main Office Building and Annexe Building at RBI New Delhi .

Client's Certificate regarding performance of the Contractor

We confirm that M/s. (Name of the contractor) _____ have carried out the following work/s for us. The firm may be considered sound for entrusting captioned work.

2. Other particulars are given below for your perusal and record:

CLIENT's CERTIFICATE REG. PERFORMANCE OF CONTRACTOR

Name & address of the Client

Details of Works executed by Shri /M/s

- 1 Name of work with brief particulars
- 2 Agreement No. and date
- 3 Agreement amount
- 4 Date of commencement of work
- 5 Stipulated date of completion
- 6 Actual date of completion
- 7 Details of compensation levied for delay(indicate amount) if any
- 8 Gross amount of the work completed and paid
- 9 Name and address of the authority under whom

works executed

10 Whether the contractor employed qualified Engineer/Overseer during execution of work?

11 i) Quality of work (indicate grading)

Outstanding/Very Good/
Good/Satisfactory/poor

ii) Amt. of work paid on reduced rates, if any.

12 i) Did the contractor go for arbitration?

ii) If yes, total amount of claim

iii) Total amount awarded

13 Comments on the capabilities of the contractor.

a) Technical proficiency

Outstanding/Very Good/
Good/Satisfactory/poor

b) Financial soundness

Outstanding/Very Good/
Good/Satisfactory/poor

c) Mobilization of adequate T&P

Outstanding/Very Good/
Good/Satisfactory/poor

d) Mobilization of manpower

Outstanding/Very Good/
Good/Satisfactory/poor

e) General behaviour

Outstanding/Very Good/
Good/Satisfactory/poor

Note : All columns should be filled in properly
“countersigned”

Office Seal of the Client

Yours faithfully,

(Signature of the Responding Officer*) For
S.E (E) / Executive Engineer (E)

Note:

** Responding Officer should be of the Rank of Superintending / Executive Engineer in respect of a Government/Semi- Government organization or a PSU*

** Responding Officer should be of the Rank of General Manager in respect of Private organizations*

** The matter written in italic not to be printed on the final Performance Certificate*

FORMAT FOR POWER OF ATTORNEY FOR SIGNING OF PROPOSAL (On Non-Judicial Stamp Paper of appropriate value)

Know all men by these presents, we.....
(Name of the Bidder and address of their registered office) do hereby constitute, appoint and authorize Mr. / Ms. (Name and residential address of Power of Attorney holder) who is presently employed with us and holding the position of

as our attorney, to do in our name and on our behalf, all such acts, deeds and things necessary in connection with or incidental to our bid for the **Design, Supply, Installation, Testing and Commissioning of Intelligent Analog Addressable Fire Alarm System For Bank's Main Office Building and Annex Building at RBI New Delhi** on Item Rate Contract basis for Reserve Bank of India including signing and submission of all documents and providing information / responses to RBI, representing us in all matters before RBI, and generally dealing with RBI in all matters in connection with our proposal for the said Project.

We hereby agree to ratify all acts, deeds and things lawfully done by our said attorney pursuant to this Power of Attorney and that all acts, deeds and things done by our aforesaid attorney shall and shall always be deemed to have been done by us.

Note:

Power of Attorney should be properly stamped and notarized Power of Attorney furnished shall be irrevocable.

Signature/(s) of the Bidder Name/(s)
Stamp/Seal of the Bidder

(NB: This guarantee will require stamp duty as applicable in the state, where it is executed and shall be signed by the official whose signature and authority shall be verified).

DECLARATION OF COUNTRY OF ORIGIN

(To be furnished by the tenderer)

NAME OF WORK: Tender for Design, Supply, Installation, Testing and Commissioning of Intelligent Analog Addressable Fire Alarm System for the Bank's Main Office Building and Annex Building at RBI, New Delhi

This is to certify that

a) The offered cooling tower is new:

b) The Fire Alarm system will be manufactured, assembled and offered for inspection before dispatch the works/factory of _____(address)

Therefore, Country of Origin of cooling tower shall be _____.

Date : _____

(Name of the Company with address and Company Seal)

Note: Specific address shall be provided for carrying out pre-delivery inspection at the works of the manufacturer.

**Proforma for Indemnifying the Employer Against Non-Compliance to Contract labor Rules/
regulations**

(To be submitted by successful bidder on Non-Judicial Stamp Paper of appropriate value)

The Regional Director
Reserve Bank of India
Estate Department,
New Delhi

Dear Sir

**NAME OF WORK: Tender for Design, Supply, Installation, Testing and Commissioning of Intelligent Analog Addressable Fire Alarm System for the Bank's Main Office Building and Annexe Building at RBI
New Delhi**

We, M/s (Name of contractor), hereby undertake that we shall comply with all the statutory rules/ regulations with regard to the employment of contract labor and their payment.

We also hereby fully indemnify and keep indemnified the Employer, i.e. Reserve Bank of India, against payments to be made to the contract labor and for the observance of the laws in this regard without prejudice to our right to claim indemnity from our sub-contractors.

Yours faithfully,

For _____

Authorised signatory

Name and Address Of The Contractor:

Sign & Seal of The Contractor:

Date:

Place:

Proforma for Indemnifying the Employer against Patent Rights

(On Non-Judicial Stamp Paper of appropriate value)

To,
The Regional Director
Reserve Bank of India
Estate Department,
New Delhi

Dear Sir,

NAME OF WORK: Tender for Design, Supply, Installation, Testing and Commissioning of Intelligent Analog Addressable Fire Alarm System for the Bank's Main Office Building and Annexe Building at RBI New Delhi .

We, M/s _____ (Name of Contractor) hereby undertake to fully indemnify and keep indemnified the Employer i.e. Reserve Bank of India against any action, claim or proceeding relating to infringement or use of any patent or design or any alleged patent or design rights and shall ourselves pay any royalties, license fees etc. which may be payable in respect of any article or part thereof included in the contract or damages, cost and charges of all and every sort that may be legally incurred in respect thereof.

In the event of any claims made under or action brought against Employer in respect of any such matters as aforesaid, we shall, on being notified thereof, at our own expense, settle any dispute or conduct any litigation that may arise therefrom, provided that we shall not be liable to indemnify the Employer if the infringement of the patent or design or any alleged patent or design right is the direct result of an order passed by the Engineer-in-Charge in this behalf.

Yours faithfully,

For _____

Authorised signatory

Name and Address of The Contractor:

Sign & Seal of The Contractor:

Date:

Place:

**Performa for Undertaking / Declaration / Certificate by the Bidder regarding country sharing
land border with India**

(To be submitted by bidders on their letter head duly sealed and signed by the authorized
signatory)

To,
The Regional Director
Reserve Bank of India
Estate Department,
New Delhi

Name of Work: Tender for Design, Supply, Installation, Testing and Commissioning of Intelligent Analog Addressable Fire Alarm System for the Bank’s Main Office Building and Annexe Building at RBINew Delhi .

Dear Sir,

I / We (Name of bidder) have read and understood the contents of the Office Memorandum (OM) F. No. 6/18/2019-PPD dated September 23, 2020 and its subsequent orders / revision issued by Public Procurement Division, Department of Expenditure, Ministry of Finance, Government of India regarding the restrictions on procurement from a bidder of a country which shares a land border with India.

2. Based on the definitions mentioned in the above referred order and its subsequent revisions regarding the bidder, I / We certify that (Name of the bidder)

- i. is not from a country sharing land border with India, or
- ii. is from a country sharing land border with India and has been registered with the Competent Authority, the certificate of which is enclosed, or
- iii. is from a country sharing land border with India where Government of India has extended lines of credit, or iv. is from a country sharing land border with India where Government of India is engaged in developmental projects. (Strikeout whichever of the above is not applicable).

3. I /We hereby certify that (Name of bidder) fulfils all requirements in this regard and is eligible to be considered under the provision of the above referred Office Memorandum and its subsequent orders / revision. I/We also undertake that I/we(Name of bidder) will not sub-contract any work to a contractor from such country(ies) unless such contractor fulfils all the requirements under the above referred office memorandum / order.

4. I have understood that, if this Undertaking / Declaration / Certificate submitted by us found to be false, Bank shall be free to terminate our tender / Work Order. Bank shall also be free to initiate any legal action in accordance with law including forfeiting of Earnest Money Deposit / Performance Bank Guarantee / Security Deposit and / or debarring us from participating in tenders invited by the Bank in future.

Signature and name of the authorized signatory of the firm with Rubber Stamp

Date:

Place:

Undertaking to be included in tender regarding declaration of debarment by public institution(s)

(To be submitted by the tenderer on their letterhead)

Name of Work: Tender for Design, Supply, Installation, Testing and Commissioning of Intelligent Analog Addressable Fire Alarm System for the Bank's Main Office Building and Annex Building at RBI New Delhi.

1. I/We _____ (Name of the bidder) declare that
- a) I/we or any of our allied firm* is/ are not debarred/suspended/ blacklisted by any public institution/entity in India or any other country on bid). (last date of submission of
 - b) I/We or any of our allied firm* have not made any transgression in respect of the code of integrity (as mentioned in the tender) with any public institution/entity in India or any other country in last three years as on (last date of submission of bid).
 - c) we will inform the Bank in writing, in case, I/we or any of our allied firm* is/are debarred/suspended/blacklisted by any public institution/entity in India or any other country on or before award of work for the captioned work.

2 I/We (Name of the bidder) declare that we or our allied firm* (Name of the allied firm(s)) is/ are debarred / suspended/blacklisted by (Name and address of public institution in India or any other country) and the same effective up to (date). A copy of such letter is attached for your information and record.

(seal and signature of the bidder)

Date

Place

(Strike out one of the above two declarations which is not applicable)

*Allied Firm: A firm would be termed as "allied firm" if the management is common, or substantial or majority shares are owned by the banned/ suspended firm and by virtue of this it has a controlling voice. Further all successor firms will also be considered as allied firms.

UNDERTAKING

Regarding site visit by the tenderer in order to understand the work.

To,

Regional Director
Reserve Bank of India.
Estate Department
New Delhi

Respected Sir/Madam,

NAME OF WORK: “Design, Supply, Installation, Testing and Commissioning of Intelligent Analog Addressable Fire Alarm System for the Bank’s Main Office Building and Annex Building at RBI New Delhi.”

We, _____, the tenderer for the above work confirms that we have visited the site and understood the proper details of the existing system, working presently and also the scope of work for the proposed system. We are ready to remove and take away the existing cabling and further ready to provide Comprehensive Annual Maintenance Contract for the new system.

Date:

(Name and address of the company with Company Seal)

Format of Computerized Measurement Book

भारतीय रिज़र्व बैंक
RESERVE BANK OF INDIA
NEW DELHI OFFICE

कम्प्यूटरीकृत मापन पुस्तक

COMPUTERISED MEASUREMENT BOOK

(पेज 1 से __)
(Pages 1 to __)

यह पुस्तक M/s _____ से जारी की गई है

This Book is issued by M/s _____

प्रमाणित किया गया कि इस पुस्तक में __ पृष्ठ हैं
Certified that this book contains __ Pages

जिस अधिकारी को पुस्तक जारी की जाती है,
उसके हस्ताक्षर
Signature of the official to whom
the book is issued

Reserve Bank of India
Estate Department
New Delhi
Measurement
Name of the work:
Name of vendor: M/s
Date of commencement of work:
Work Order No:
Inward No:
Invoice No:
Date of completion of work:

S. No.	Description of item	Unit	Quantity

Page No. - __

Reserve Bank of India
Estate Department
New Delhi
Cash Abstract
Name of the work -
Name of vendor :
Date of commencement of work:
Work Order No:
Inward No:
Invoice No:
Date of completion of work:

S. No.	Description of item	Unit	Quantity	Rate/Unit (in ₹)	Amount (in ₹)
	Total				

Page No. - __

Notes : All the sheets shall be ruled. (sheets shall be in triplicate in three colours - white, yellow and green respectively, as per the proforma given above). Each Measurement Book shall be Hard bound and submitted along with each RA Bill & Final Bill.



Reserve Bank of India / भारतीय रिज़र्व बैंक
Estate Department / संपदा विभाग
New Delhi / नई दिल्ली

e-Tender No: RBI/New Delhi Regional Office/Estate/3/24-25/ET/236
e-Tender For

Design, Supply, Installation, Testing and commissioning (DSITC) of Intelligent Analog Addressable Fire Alarm for the Bank's Main Office Building and Annex Building at RBI New Delhi.

Part -II

Name of Tenderer: _____

Address: _____

Date of Pre Bid Meeting : July 31, 2024 at 11:00 Hrs.

Due date and time for Submission of e-Tender: August 28, 2024 upto 14:00 Hrs.

Date of opening of Part- I of e-Tender : August 28, 2024 at 15:00 Hrs.

Venue : Estate Department **6, Sansad Marg, New Delhi-110001**, India

Design, Supply, Installation, Testing and Commissioning (DSITC) of Intelligent Analog Addressable Fire Alarm System for Bank's Main Office Building and Annexe Building at RBI New Delhi.

PART – II : Bill of Quantity (BOQ)

Sl. No.	Description	Unit	Qty.
1.	<p>Fire Alarm Control Panel (FACP):</p> <p>Supply, Installation, Testing and Commissioning of Microprocessor based 08 loops, Networkable analogue addressable Fire Alarm Control Panel (FACP) expandable upto 10 loops. The Panel shall have minimum 640-character LCD / LED display or touchscreen. The panel should be equipped with sufficient number of loop with 25% spare capacity with each loop shall have a capacity of minimum 300 analog addressable detectors / devices. It shall have multi access levels, flash EPROM and should be operated on 240 volts AC power supply, Automatic battery charger, 24 volts sealed lead acid batteries sufficient for 24 hours normal working and then be capable of operating the system for 2 hours during an emergency condition.</p> <p>Fire Alarm Control Panel shall also be supplied with all the required gateways like Modbus / BACnet, etc., and the required hardware, software, Application Program Interface (API), Software Development Key (SDK), etc., to communicate on open protocol such as Modbus / BACnet, etc., for connectivity with the Command and Control Centre. Cost of FAS panel shall include all the loop cards, Interface cards, control cards, power control cards, etc.</p>	Nos.	1

2.	<p>c) Networked Graphic Control Software (NCS): Supply, Installation, Testing and Commissioning of Networked Graphic Control Software and must be capable of graphically representing each facility being monitored with floor plans and icons depicting the actual locations of the various systems; and / or sensors' locations. The software should accommodate current devices and expandable up to 15000 IBMS (access control, Fire, HVAC etc) points minimum. Future option to cloud connectivity may be there.</p> <p>d) PC with Monitor and Printer: Supply of computer / workstation / PC with Intel i5 12th Generation, 256 MB, 32 GB RAM, Disk : 1TB Minimum - 15000 RPM, 1 GB Ethernet Port, Optical mouse, Multimedia Keyboard, Speakers, Preloaded Windows 11 and Antivirus Software, Laser jet Printer and 32" Flat Screen LED monitor</p> <p>The software with PC shall be in fire control location / room. The software shall provide the facility to monitor 2-way communication from main control room using voice signals over Fire Network along with fire detection signal.</p> <p>Cost shall include all programming charges, interface module with other fire alarm system and its components, BMS system, etc.</p>	Set	1
3.	<p>Repeater Panel: Supply, Installation, Testing and Commissioning (SITC) of Repeater Panel with LCD display. The LCD shall Display all events/detectors, and devices status of complete systems in the network. It shall be UL listed (Locations Guard Room, CCTV Room,</p>	Nos.	5

	GM, Issue, DGM, Security Cabin and in Fire panel Room		
4.	<p>Early Initiating Devices:</p> <p>Supply Installation Testing and Commissioning (SITC) of multi eco-speed sensing type analog spot type addressable very early warning type photo-electric smoke detector with mounting based LED addressable switch complete as required with mounting based LED, Address Switch, complete as required by NFPA 76/ NFPA 318 (DIT Server 3 Nos'; CCTV server room 4 No's; CES Server 2 No's; Telephone exchange Room 1 No.; Battery Rooms 5 No's)</p>	Nos.	15
5.	<p>Multi criteria Detector below false ceiling:</p> <p>Supply Installation Testing and Commissioning (SITC) of Intelligent Addressable type multi-sensor detector (Photo + Fixed Tempt. + Rate of Rise Temperature) with base for use as heat or smoke or combined both automatic electronic addressing, microprocessor type with MS Box. Detector shall have auto learn, drift compensation etc.</p>	Nos.	500
6.	<p>Multi criteria Detector on true ceiling:</p> <p>Supply Installation Testing and Commissioning (SITC) of Intelligent Addressable type multi-sensor detector (Photo + Fixed Tempt. + Rate of Rise Temperature) with base for use as heat or smoke or combined both automatic electronic addressing, microprocessor type with MS Box. Detector shall have auto learn, drift compensation etc.</p>	Nos.	100

7.	Supply, Installation, Testing and Commissioning of Response Indicator (RI) with dual LEDs. Cost of all the accessories required like boxes, back plate, for fixing of RI on concrete roof / false ceiling termination of cable, etc., required accessories, etc., complete have to be included in the rate quoted and comply fully with the detailed specifications set out in Part I of the Tender	Nos.	350
8.	Heat detector: Supply Installation Testing and Commissioning of Analog addressable Rate of Rise Cum Fixed temperature / Heat detector complete with base, LED etc.as required.	Nos.	08
9.	Duct probe detector: Supply Installation Testing and Commissioning of Analog addressable Duct probe detector complete with base, LED etc.as required.	Nos.	19
10.	Beam detector: Supply Installation Testing and Commissioning of Beam detector with complete as required.	Nos.	3
11.	Digital Linear Heat Sensing cable: Supply Installation Testing and Commissioning of Digital type linear heat Sensing cable (20 meter set) with module.	Set	5
12.	Control modules for Ventilation Fans' Panel /AHU's Tripping & Lifts, Fire damper systems etc.: Supply Installation Testing and Commissioning of Addressable UL Listed / EN / VDS Relay control modules for Ventilation Fans' Panel /AHU's Tripping & Lifts, Hooter cum Strobe, Fire damper systems, etc. with Address Switch to program the device, complete as required.	Nos.	25

13.	Monitor modules for Sprinkler Flow Switch etc: Supply Installation testing and Commissioning (SITC) of Addressable UL Listed / EN / VDS monitor modules for Sprinkler Flow Switch, etc. Monitoring with Address Switch to program the device complete as required.	Nos.	12
14.	Manual call Station: Supply Installation Testing and Commissioning of Addressable Manual Call Station.	Nos.	40
15.	Hooter cum Strobe light: Supply Installation Testing and Commissioning of Addressable Hooter cum Strobe light complete with modbus	Nos.	30
16.	FRLS armoured copper multistranded cable: Supply Installation Testing and Commissioning of FRLS armoured 2 C X 1.5 Sq. mm PVC insulated copper multistranded Fire cable (Red) complete with termination, all accessories hardware and testing as per requirement.	RM	1000
17.	FRLS armoured copper multistranded shielded cable: Supply Installation Testing and Commissioning (SITC) of FRLS armoured PVC insulated copper multistranded shielded cable complete with termination all accessories hardware and testing as per requirement for Repeater Panel (Signal).	RM	100
18.	PNG Gas Leak Detector: Supply Installation Testing and Commissioning (SITC) PNG Gas leak detector with mounting brackets, all accessories complete i.e. LED Display, Potential Free Contact & Power supply as required.	Nos.	05
19.	Smoke detector for Harsh environment: Supply, Installation, Testing and Commissioning (SITC) of Analog addressable photoelectric type smoke detector with inbuilt	Nos.	05

	fan and minimum two filters for Harsh environment mounting based LED for hostile area applications for Brickation area. (similar to Notifier's FSH-751 Detector)		
20.	Excavation work: Excavation of earth, concrete, paver or any type of hard soil for routing detection cable in 25 mm GI metal conduit at a depth of 300mm in open areas to be done along the alignment, including trimming and dressing as per site conditions, levelling of beds or trenches to correct grades, disposal of surplus earth or excavated materials as per direction of Engineer-in-Charge & restoration to its original condition.	RM	10
21.	Trench work (GI Pipe): SITC of medium strength 25mm size GI conduit pipe with threaded joints inside excavated trench for routing detection cable underground.	RM	20
A	Total Capital Cost inclusive of all taxes (₹)		
B	Rebate of removing and taking old material under the Buy-Back scheme: Rebate for dismantling and taking away for the existing fire alarm system including detectors main panel, repeater panels, hooters, strobe lights, etc. after the testing, commissioning, and stabilization of the New Fire Alarm System. The work (Installation of a fire alarm system) will be completed when dismantled material will be taken out from RBI Premises without removal of existing cable of old fire alarm system. The buy is exclusive of old cable and directional sounders. The rate should be inclusive of all applicable taxes, if any.	Job	01
C	Total amount for Rebate (₹)		
22.	Comprehensive Annual Maintenance Service (CAMC) charges for the entire fire	Per annum	01

	alarm system including main panel, devices and cabling, spares, labour, upgradation of software, etc. The rate shall be valid for first year after initial guarantee period of one year		
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The above system should follow the following Standards
NFPA 318 (Standards on Critical Area and Clean room applications)
NFPA 76 (Protection of Electronic Computer/Data Processing)
NFPA 72 (Standards on Fire detection)
NFPA 2001 (Standards on Gas Suppression)
NFPA 101 (Standards on Life Saving)

Total owning cost = Net Capital cost (Cost of new equipment – buyback value for old equipment's) + 5.63 X quoted per annum cost for CAMSC.

Note: The prices quoted shall be deemed to have included all taxes including GST, custom duty, excise duty, local levies, works contract tax etc. imposed by Central/State Government/ Local Bodies. If the Tenderer fails to include such taxes and duties in the tender, no claim thereof will be entertained by the Bank afterwards. As per Indian laws, income tax will be deducted at source and a certificate for the same will be issued to the contractor. **The Prices only to be quoted on MSTC Portal.**