



RESERVE BANK OF INDIA

Estate Department

Kolkata

Notice Inviting Tender

(Only through MSTC e-procurement portal)

Design, Supply, Installation, Testing and Commissioning of Microprocessor Based Intelligent Analog Addressable Fire Alarm System for the Bank's Main Office Building & Annex Building RBI Kolkata -700001.

1. E-Tender in two parts is invited for “Design, Supply, Installation, Testing and Commissioning (DSITC) of Microprocessor Based Intelligent Analog Addressable Fire Alarm System for the Bank's Main Office Building & Annex Building at RBI Kolkata-700001”.

2. The bidder / tenderer having the following qualification and will be eligible to participate in the e-tendering process.

(i) The bidder must be either OEM of offered Fire Alarm system or their authorized system integrator with valid authorization letter in the specified format.

(ii) The bidder must be a single entity, registered as a Company under the Companies Act 2013 or Companies Act, 1956, or Partnership Firm registered under the Indian Partnership Act, 1932, or LLP registered under the Limited Liability Partnership Act, 2008 and should have been in existence in India.

Note: The bidder shall submit a copy of Certificate of Registration/ Incorporation under the respective Acts in India and the respective Memorandum of Association/ Partnership as documentary evidence.

(iii) The bidder must have **minimum 5 years of experience** in the field of similar work*

Note: The bidder shall submit a copy of work order for the work of Design, Supply, Installation, Testing and commissioning of Intelligent Analog Addressable Fire Alarm for the large commercial/ office building (of any amount) issued on or before October 31, 2020, and a copy of the respective completion certificate and TDS certificate (as applicable).

(iv) The bidder must have **experience in executing similar works*** of Design, Supply, Installation, Testing and commissioning of Intelligent Analog Addressable Fire Alarm for the large commercial/ office building in last five years ((work completion should be after October 31, 2020, and on or before October 31, 2025) having minimum value of executed works as under:

(a) Minimum three works each costing not less than the amount equal to 40% of the estimated cost

or

(b) Two works each costing not less than the amount equal to 50% of the estimated cost

or

(c) One work costing not less than the amount equal to 80% of the estimated cost

Note: The bidder shall submit a copy(ies) of work order(s) for the work of Design, Supply, Installation, Testing and commissioning of Intelligent Analog Addressable Fire Alarm for the large commercial/ office building (satisfying the amount meeting above criteria) issued after October 31, 2020, and a copy of the respective completion certificate and TDS certificate (as applicable).

*** Similar work means work of Supply, Installation, Testing and commissioning of Intelligent Analog Addressable Fire Alarm for the large commercial/ office building.**

(v) Have a minimum annual turnover of Rs. 80.00 lakh during the last 3 financial years (2022-23, 2023-24 and 2024-25) and should have non-negative net worth during last three accounting year (i.e., year ending March 31, 2023, March 31, 2024, March 31, 2025)

(vi) Should furnish solvency certificate / Banker certificate issued by the applicant Banker for an amount not less the estimated cost **as per the pro forma given Annexure-C**

(vii) Full-fledged service setup should be available at Kolkata where from required after sales services can be regularly provided.

Note: Certificate from the manufacturers / any other valid document in support of having a full-fledged service setup at Kolkata should be uploaded.

3.The Tenderers should invariably furnish the following information/documents along with the tender documents to satisfy the Bank about their eligibility for participation in the e-Tendering process.

(a)	Composition of the firm	Full particulars (whether contractor is an individual, or a partnership firm, or a company etc.,) of the composition of the firm of contractors in details should be uploaded along with name(s) and address (es), of the partner's copy of the Articles of Association/ Power of Attorney/other relevant document.
(b)	Work experience & Completion of similar works of specified value during the specified period	Copies of the detailed work orders for the qualifying works 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 i.e., "DSITC of Intelligent Analog Addressable Fire Alarm System" should be enclosed 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 uploaded.
(c)	Credit worthiness of the contractor and 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.
(d)	Name(s) and 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 bankers by the Bank, in case it is so needed) should be uploaded.
(e)	Details of bank accounts	Full particulars of their Bank accounts, like account no. type, when opened etc., should be uploaded.

(f)	Name(s) and address(es) of the Clients and their present contact executives	Written 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 clients by the Bank in case it is so needed) should be uploaded.
(g)	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 officers/ authorities/ departments under whom the work(s) was/ were executed should be uploaded.
(h)	Service set up	Certificate from the manufacturers/any other valid document in support of having a full-fledged service setup at Kolkata should be enclosed.

4. In the event of intending Tenderer's failure to satisfy the Bank; the Bank reserves the right to reject the bid submitted by them. A pre-bid meeting (off-line mode) of the intending bidders will be held in Estate Department, Reserve Bank of India, Kolkata- 700001 and the duly filled in tender documents shall be uploaded on MSTC site. **For timelines the Schedule of Tender (SOT) may be referred.**

5. Tender documents will be available at MSTC website i.e., www.mstcecommerce.com on November 25, 2025. This e-Tender needs to be mandatorily filled up / online submission through MSTC website i.e., www.mstcecommerce.com. Deadline for filing up and submitting the e-Tender is by **3:00 p.m. on** December 16, 2025 Part I of the e-Tender will be opened at 3:30 PM **on** December 16, 2025. Detailed guidelines on submission of the e-Tender by the firms have been mentioned in [Annexure-1](#) following the Schedule of Tender (SOT). After scrutiny of part I of the e-Tender document along with the supporting documents, if any of the firms not found to possess the required eligibility, their e-Tenders will not be accepted by the Bank for further processing.

6. Filled and signed tender documents in prescribed form shall be uploaded on MSTC website. Part- I of the tender will contain the Bank's standard technical and commercial conditions for the proposed work and Tenderers' covering letter.

7. Earnest Money Deposit (EMD): Tenderers shall submit to the Bank Earnest Money Deposit (EMD) of an amount of ₹ 1,60,000/- (**Rupees One Lakh Sixty Thousand only** in the form of an Irrevocable Bank Guarantee (of equivalent amount) issued by any scheduled Bank in India as per Proforma at **Annexure-E** initially valid up to **March 31, 2026** or through **NEFT** to - **A/c No – 186003001 & IFSC CODE – RBIS0KLPA01**) or a demand draft favoring Reserve Bank of India payable at Kolkata. Such Bank Guarantee (BG) submitted by the tenderer toward EMD shall be suitably extended by the tenderer, if necessary

The bidders should send the proof of NEFT remittance with transaction number (transaction slip) to estatekolkata@rbi.org.in or should submit the EMD in the form of Demand Draft or Bank Guarantee to the Bank in a sealed envelope. The envelop should be titled as **EMD of E-Tender for Design, Supply, Installation, Testing and Commissioning of Microprocessor Based Intelligent Analog Addressable Fire Alarm System for the Bank's Main Office Building & Annex Building RBI Kolkata** and addressed to **Sh. Sudhanshu Prasad, Regional Director, Reserve Bank of India, Estate Department, 3rd floor, Reserve Bank of India, 15, N S Road, Kolkata – 700 001**. Such EMD (in case of DD / BG) or proof of EMD (in case of NEFT) must reach to the Bank on or before **03:00 pm on December 16, 2025**, failing which e-tender submitted by such bidder will not be considered. A tender without EMD or with inadequate EMD shall not be opened and will be rejected. Under no circumstances, Earnest Money Deposit will be accepted in any other form.

8. The tenderers have to upload the following documents on MSTC portal

- a. All annexures and certificate mentioned in the tender.
- b. All the documents mentioned in para-3 above.
- c. Make, model and technical data of offered equipment as indicated in Section-VII
- d. Section-VIII, IX as mentioned in the tender.
- e. Valid license issued by Fire Authority of Kolkata for undertaking works pertaining to Installation & maintenance of Addressable Fire Alarm system.

9. Regarding Client's certificate, for works carried out for Government/ public sector companies, the certificate should be signed by the concerned Executive Engineer or an officer in an equivalent or higher rank. For works carried out for Private companies, Copy of TDS has to be submitted for proving the credentials/contract amount The Bank shall have the right to independently verify these certificates.

10. The Bank shall evaluate the said reports before evaluation of price bid of the e-Tenders. If any Tenderer is not found to possess the required eligibility for participating in the e-Tendering process at any point of time and/or his performance reports received from his clients and/or his bankers are found unsatisfactory, the Bank reserves the right to reject his offer even after opening of Part-I of the e-Tender and his EMD shall be returned back to him as it is. The Bank is not bound to assign any reason for doing so.

11. Any amendments / corrigendum to the tender, if any, issued in future will only be notified on the RBI Website and MSTC portal as given above.

12. All information submitted in response to this tender shall be the property of Reserve Bank of India and it shall be free to use it to its advantage.

13. The Bank is not bound to accept the lowest e-tender and reserves the right to accept either in full or in part any e-Tender. The Bank also reserves the right to reject all the e-Tenders without assigning any reason thereof.

Place: Kolkata

Date: November 25, 2025

Regional Director
Reserve Bank of India



SCHEDULE OF TENDER (SOT)

S. No	EVENT	Details
1	e-Tender No.	RBI/Kolkata Regional Office/Estate/20/25-26/ET/648[DSITC -Fire Alarm Sys BMOP RBI]
2	Name of the Work:	“Design, Supply, Installation, Testing and Commissioning of Microprocessor Based Intelligent Analog Addressable Fire Alarm System for the Bank’s Main Office Building & Annex Building RBI Kolkata -700001.”
3	Mode of Tender:	e-Procurement System (Part I – Techno-Commercial Bid and Part II - Financial Bid) through MSTC website (https://www.mstcecommerce.com/eprocn)
4	Date of issue of NIT	November 25, 2025
5	Date and Time of the Pre-Bid Meeting (offline)	December 03, 2025 at 03:30 PM (The meeting shall be held at conference Room on 3 rd floor Main Office Building Kolkata. (Participants who are willing to attend the Pre-Bid meeting are requested to remain present at venue and date & time)
6	Publication of minutes of Pre-Bid meeting/addendum, if any	On or before December 05, 2025
7	Bidding start date of Techno-commercial Bid and Financial Bid at MSTC Portal	December 06, 2025 from 11:00 AM. onwards
8	Date of closing of online e-Tender for submission of Techno-commercial Bid and Financial Bid	December 16, 2025 at 03:00 PM.
9	Last date of submission of DD/ Bank Guarantee/NEFT for EMD	Up to 03:00 PM. on December 16, 2025
10	Date & Time of opening of Part-I (i.e. Techno-Commercial Bid)	On or after 03:30 PM on December 16, 2025
11	Estimated cost of the work:	₹80 Lakh (Rupees Eighty Lakh Only)
12	Earnest Money Deposit (EMD)	₹1,60,000 (Rupees One Lakh Sixty Thousand Only)

13	Date & Time of opening of Part- II (i.e. Financial Bid)	Will be intimated to the eligible bidders.
14	Transaction fee	<p>Payment of transaction fee through MSTC payment gateway either by NEFT/RTGS through challan or by Online payment through Net banking/Debit card/Credit card in favour of MSTC LIMITED. Upon receipt of payment, system will automatically authorize the payment.</p> <p>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.</p>

Important instructions for e-procurement of MSTC Portal

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.

1) Process of E-tender:

A) Registration: The process involves vendor's registration with MSTC e-procurement portal which is free of cost. Only after registration, the vendor(s) can submit his/their bids electronically. Electronic Bidding for submission of Techno-Commercial Bid as well as Price Bid over the internet will be done. The Vendor should possess Class III signing type digital certificate. Vendors are to make their own arrangement for bidding from a P.C. connected with Internet. MSTC/RBI is not responsible for making such arrangement. (Bids will not be recorded without Digital Signature).

SPECIAL NOTE: THE PRICE BID AND THE COMMERCIAL BID HAS TO BE

SUBMITTED ON-LINE ONLY AT www.mstcecommerce.com/eprocn/ (Version 3)

- 1) Vendors are required to register themselves online with www.mstcecommerce.com/eprocn/
Register as Vendor --Filling up details and creating own user id and password
Submit .For further details, go to Download Guide /Video /Registration
Vendors will receive a system generated mail confirming their registration in their email which has been provided during filling the registration form. In case of any clarification, please contact RBI/MSTC, (before the scheduled time of the e- tender).

Contact details:

a) Contact person (MSTC) For Vendors:

HO Central Help Desk: (For vendors)

Phone Number : 07969066600; Email ID:

helpdeskho@mstcindia.co.in (Please mention "HO Helpdesk" as subject while sending emails)

Availability: 9:30 AM to 5:00 PM on all working days for all technical issues, e-Tenders, System settings etc.

b) Contact person (MSTC)

Shri. Sabyasachi Mukherjee – 7278030407; Email id:

smukherjee@mstcindia.co.in

Shri. Kranti Kumar– 9174009882; Email id: kkkumar@mstcindia.co.in

MSTC Help Line:9499054101/2/3/4; Email id : helpdesk@mstcindia.co.in

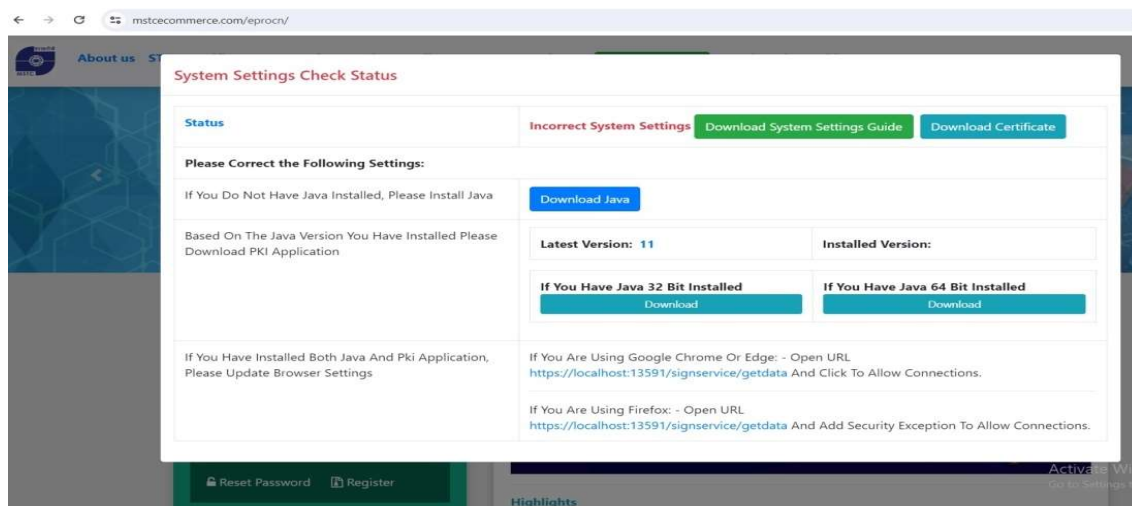
c) Contact person at Estate Department, RBI, Kolkata

1. Sh. R. N Kisku, Mgr (Tech-Elec) rnkisku@rbi.org.in , 9831914122	2. Sh. Kiran Paul, AGM kiranpaul@rbi.org.in , 9674033358
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B) System Requirement:

The detailed manual is available in the link <https://www.mstcecommerce.com/eprocn> --> System Settings -> Download Guide/Edge Setting (for edge browsers) for configuring the system to participate in e-tender.

For more details, vendor may refer to the **Vendor Guide** and **FAQ** available at <https://www.mstcecommerce.com/eprocn>



- 2) The Techno-commercial Bid and the Price Bid shall have to be submitted online at <https://www.mstcecommerce.com/eprocn>. Tenders will be opened electronically on specified date and time as given in the Tender.
- 3) All entries in the tender should be entered in online Technical & Commercial Formats without any ambiguity.
- 4) **Special Note towards Transaction fee:** The vendors shall pay the transaction fee using "Transaction Fee Payment" Link against the specific tender in the "Bid Floor"/through the "Pay Transaction fee" in "Event catalog" through their login. Service Provider / Contractor / Vendor shall have the facility of making the payment either through NEFT or Online Payment. On selecting NEFT, Service Provider / Contractor / Vendor shall generate a challan by filling up a form. Service Provider / Contractor / Vendor shall remit the transaction fee amount as per the details printed on the challan without making change in the same. On selecting Online Payment, Service Provider / Contractor / Vendor shall have the provision of making payment using its Credit / Debit Card / Net Banking. Once the payment gets credited to MSTC's designated bank account, the transaction fee shall be auto authorized.

Transaction fee is non-refundable. A vendor will not have the access to online e-tender without payment of the transaction fee.

NOTE: Bidders are advised to remit the transaction fee well in advance before the closing time of the event so as to give themselves sufficient time to submit the bid.

- 5) Information about tenders / corrigenda shall be sent by email only during the process till finalization of tender. Hence the vendors are required to ensure that their corporate

email I.D. provided is valid and updated at the time of registration of vendor with the MSTC Ltd. Vendors are also requested to ensure validity of their class III signing and encryption type of DSC (Digital Signature Certificate).

6) E-tender cannot be accessed after the due date and time mentioned in NIT (Notice inviting tender).

7) Bidding in E-tender:

All bidders need to submit EMD before opening of Part-I of the tender. The process involves Electronic Bidding for submission of Technical and Commercial Bid.

- a) The vendors who have submitted transaction fee can only submit their Technical Bid and Commercial Bid through internet in MSTC website www.mstcecommerce.com→e-procurement → New Common Portal → Bid Floor Manager→ live event →Selection of the live event→ Transaction fee->Common terms->Attach Documents->Price Bid.
- b) The vendors should allow running JAVA application. This exercise has to be done immediately after opening of Bid floor. Then they have to fill up Common terms/Commercial specification and save the same. After that click on the Technical bid. If this application is not run, then the vendors/ BIDDER will not be able to save/submit his technical bid.
- c) After filling the Technical Bid, vendors should click 'save' for recording their Technical bid. Once the same is done, the Commercial Bid link becomes active and the same has to be filled up and then vendors should click on "save" to record their Commercial bid. Then once both the Technical bid has been saved, the vendors can click on the "Final submission" button to register their bid.
- d) vendors are instructed to use Attach Doc button to upload documents. Multiple documents can be uploaded.
- e) In all cases, vendors should use their own ID and Password along with Digital Signature at the time of submission of their bid.
- f) During the entire e-Tender process, the vendors will remain completely anonymous to one another and to everybody else.
- g) The e-Tender floor shall remain open from the pre-announced date & time and for as much duration as mentioned above. All electronic bids submitted during the e-Tender process shall be legally binding on the vendors. Any bid will be considered as the valid bid offered by that vendors and acceptance of the same by the Buyer will form a binding contract between Buyer and the vendors for execution of supply.

- h) It is mandatory that all the bids are submitted with digital signature certificate. otherwise, the same will not be accepted by the system.
 - i) Buyer reserves the right to cancel or reject or accept or withdraw or extend the tender in full or part without assigning any reason thereof.
 - j) No deviation of the terms and conditions of the tender document is acceptable. Submission of bid in the e-Tender floor by any vendors confirms his acceptance of terms & conditions of the tender.
 - k) Any order resulting from this tender shall be governed by the terms and conditions mentioned therein.
 - l) The tender inviting authority has the right to cancel this e-Tender or extend the due date of receipt of bid(s) without assigning any reason thereof.
 - m) Vendors are requested to read the vendors guide and see the video in the page www.mstcecommerce.com/eprocn to familiarize them with the system before bidding.
- 8) Any order resulting from this open e-tender shall be governed by the terms and conditions mentioned therein.
 - 9) No deviation to the technical and commercial terms & conditions are allowed.
 - 10) RBI, Kolkata has the right to cancel this e-tender or extend the due date of receipt of bid(s) without assigning any reason thereof.
 - 11) The online tender should be submitted strictly as per the terms and conditions and procedures laid down in the website <https://www.mstcecommerce.com/eprocn> of MSTC Ltd.
 - 12) The tenderers must upload all the documents required as per terms of NIT. Any other document uploaded which is not required as per the terms of the NIT shall not be considered.
 - 13) The bid will be evaluated based on the filled-in technical & commercial formats.
 - 14) The documents uploaded by tenderer(s) will be scrutinized. In case any of the information furnished by the tenderer is found to be false during scrutiny, EMD of defaulting tenderer(s) will be forfeited. Punitive action including suspension, banning of business and debarment can also be taken against defaulting tenderers.

E-tender cannot be accessed after the due date and time mentioned in NIT.



भारतीय रिज़र्व बैंक / RESERVE BANK OF INDIA

संपदा विभाग / ESTATE DEPARTMENT

कोलकाता / KOLKATA

Address: 15, NS Road, Kolkata 700001

Email: estatekolkata@rbi.org.in

**RBI/Kolkata Regional Office/Estate/20/25-26/ET/648[DSITC -Fire Alarm Sys BMOP
RBI]**

e-TENDER

**Name of work: Design, Supply, Installation, Testing and Commissioning of
Microprocessor Based Intelligent Analog Addressable Fire Alarm System for the
Bank's Main Office Building & Annex Building RBI Kolkata -700001**

Part I (Techno-Commercial Bid)

बोलीकर्ता का नाम/Name of Bidder _____

पता/Address _____

अनुमानित लागत / Estimated cost: ₹ 80 Lakhs

बोली पूर्व बैठक की तारीख

Date, time and venue of Pre-Bid meeting

**कार्यक्रम-स्थल / Venue: Estate Department, RBI Kolkata, 3rd Floor, BMOP, Kolkata -
700 001 at 2:30 hrs on December 03, 2025**

ई-निविदा जमा करने की नियत तिथि और समय:

Due Date and time of Submission of e-Tender: 15:00 hrs on December 16, 2025

ई-निविदा खुलने की तिथि

Date of opening of e-Tender: On or after 15:30 hrs on December 16, 2025

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अस्वीकरण

भारतीय रिज़र्व बैंक, सम्पदा विभाग, कोलकाता ने इस दस्तावेज़ को इच्छुक पक्षों को परियोजना के बारे में पृष्ठभूमि की जानकारी देने के लिए तैयार किया है। हालांकि भारतीय रिज़र्व बैंक ने यहां मौजूद जानकारी तैयार करने में आवश्यक सावधानी बरती है और उसके अनुसार यह सूचना सही है लेकिन इस दस्तावेज़ में दी गई जानकारी की पूर्णता या सटीकता या इसके साथ दी गई किसी सूचना के बारे में भारतीय रिज़र्व बैंक या उनके अधिकारियों या एजेंसियों या उनसे कोई भी संबंधित अधिकारियों, कर्मचारियों, एजेंटों या सलाहकारों द्वारा कोई भी वारंटी या उसका दावा, चाहे वह व्यक्ति या अंतर्निहित हो, नहीं किया जाता है।

व्यक्त जानकारी संपूर्ण नहीं है। इच्छुक पार्टियों को स्वयं पूछताछ करने और प्रतिवादियों को लिखित रूप में पुष्टि करने की आवश्यकता होगी कि उन्होंने ऐसा किया है और वे केवल निविदा प्रस्तुत करने के लिए भारतीय रिज़र्व बैंक द्वारा दी गई जानकारी पर निर्भर नहीं हैं। यह जानकारी इस आधार पर दी जाती है कि यह भारतीय रिज़र्व बैंक या इसके किसी भी प्राधिकारी या एजेंसियों या उनके संबंधित अधिकारियों, कर्मचारियों, एजेंटों या सलाहकारों के लिए बाध्यकारी नहीं है।

भारतीय रिज़र्व बैंक परियोजना को आगे बढ़ाने या परियोजना के स्वरूप को बदलने के लिए, इस दस्तावेज़ में दर्शाई गई समय सारणी को बदलने या लागू होनेवाली प्रक्रिया या प्रणाली को बदलने का अधिकार सुरक्षित रखता है। यह इस परियोजना में रुचि दिखाने वाले किसी भी पक्ष से इस मुद्दे पर चर्चा करने से इनकार करने का अधिकार भी रखता है। इस परियोजना में रुचि दिखाने वाले किसी भी पक्ष या संस्थाओं को किसी भी प्रकार की लागत की प्रतिपूर्ति नहीं की जाएगी।

Disclaimer

Reserve Bank of India, Estate Department, Kolkata has prepared this document to give background information on the Contract to the interested parties. While Reserve Bank of India has taken due care in the preparation of the information contained herein and believe it to be in order, neither Reserve Bank of India nor any of its authorities or agencies nor any of their respective officers, employees, agents or advisors give any warranty or make any representations, express or implied as to the completeness or accuracy of the information contained in this document or any information which may be provided in association with

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 Reserve Bank of India in submitting the e-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 Contract or to change the configuration of the Contract, to alter the time table 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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3.	Section-III. General instructions to e-Tenderer & special cond.
4.	Safety code & fire safety code
5.	Section-IV. The condition hereinafter referred to
6.	Section-V. Appendix Hereinbefore Referred To
7.	Section-VI. System Requirement & Special Condition
8.	Section-VII, Technical Specification
9.	Section-VIII, Schedule of commercial and Technical deviation
10.	Section -IX. Check list (commercial condition)
11.	Annexure-A, Proforma for U/T for Mtc. Confirmation by the bidder
12.	Annexure-B, Format of Client's Certificate
13.	Annexure-C, Format for Bankers' Certificate
14.	Annexure-D, Format for Power of Attorney.
15.	Annexure-E, Proforma for Bank Guarantee in lieu of EMD
16.	Annexure-F, Proforma of Performance Bank Guarantee (PBG) in lieu of Security Deposit
17.	Annexure-G, Format of authorization from the OEM & Mtc U/T from the OEM
18.	Annexure-H, Proforma for providing input for NEFT for Payment
19.	Annexure-I, Proforma for Indemnifying the Employer Against Non-Compliance to Contract Labor Rules/ regulations
20.	Annexure-J, Proforma for Indemnifying the Employer against Patent Rights
21.	Annexure-K, Performa for Undertaking / Declaration / Certificate by the Bidder regarding country sharing land border with India
22.	Annexure -L, undertaking to be included in tender regarding declaration of debarment by public institution(s)
23.	Annexure -M, details for Bidder's Eligibility Criteria
24.	Annexure -N, Proforma of the tenderer's Confirmation of technical sufficiency to deliver the objective of proposed Fire Alarm system
25.	Annexure -O, Proforma for Undertaking / Declaration / Certificate by the OEM of Fire Alarm system regarding country sharing land border with India
26.	Part-II (Unpriced Bid / Bill of Quantity)

SECTION- I
Form of Tender

To,
Regional Director
Reserve Bank of India
Estate Department,
Kolkata-700001.

Sir,

We have carefully examined the specifications 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 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 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 Microprocessor Based Intelligent Analog Addressable Fire Alarm System for the Bank's Main Office Building & Annex Building at RBI Kolkata-700001
(b)	Estimated cost	Rs. 80.00 lakh /-
(c)	Terms of payment	As per clause 3.11 General Instructions to Contractors and Special Conditions.
(d)	Earnest Money	Rs. 1,60,000.00
(e)	Performance Bank Guarantee	10% of Contract value
(f)	Time allowed for completion of work	Refer para 3.14.4 of this tender for details

1. We also agree that our tender will remain valid **for acceptance by the Bank for 90 days from the date of opening of Part I of the 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 tender, as per enclosed proforma ([Annexure E](#)).

2. Should this tender be accepted, I/we hereby agree to abide by and fulfil all the Terms and Conditions of the 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 tender together with the written acceptance of the Contract.

3. 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 ₹ 1,60,000/- 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.

4. The tender submitted will be only through e-procurement of MSTC Portal.

Dated this _____ day of _____ 2025

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 uploaded in MSTC portal).

Witnesses

(1) Signature with

Name, address and date

(2) Signature with

Name, address and date

Place: _____

SECTION-II

Articles of Agreement

(On Non-Judicial Stamp Paper of appropriate value)

ARTICLES OF AGREEMENT made the _____ day of _____ between the Reserve Bank of India having its Regional Office at Kolkata 700001 (hereinafter called "the Employer") of the one part and _____ (hereinafter called "the Contractor") of the other part.

WHEREAS the Employer is desirous of Design, Supply, Installation, Testing and Commissioning (DSITC) of Microprocessor Based Intelligent Analog Addressable Fire Alarm System for the Bank's Main Office Building & Annex Building at RBI Kolkata - 700001 and has caused drawings 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

(a) the Contractor has agreed to execute upon the subject work to the conditions set forth herein and to the conditions set forth in the special conditions and in the schedule of quantities and conditions of Contract as modified and finally accepted by both the parties (all of which are collectively hereinafter referred to as "the said Conditions") the works shown upon the said drawings and/or described in the said Specifications and included in the Schedule of quantities at the respective rates therein set forth, amounting to the sum as therein arrived at or such other sum as shall become payable there under (hereinafter referred to as, the said Contract Amount").

(b) The Contractor has agreed to maintain the Fire Alarm System installed by them including the retained cabling during the one-year Defect Liability Period (DLP) and Nine years of Comprehensive Annual Maintenance Contract (CAMC) thereafter at the amounts for respective years as quoted by them in tender part II.

NOW IT IS HEREBY AGREED AS FOLLOWS

1. In consideration of the said Contract Amount to be paid at the times and in the manner set forth in the said Conditions, the Contractor shall upon and subject to the said Conditions, execute and complete the work described 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. The Employer shall administer and directly arrange for supervision of works, certification of bills, making payments and implementation of various terms, conditions and stipulations of the contract.
4. The Said Conditions, various schedules and Appendix thereto and any correspondence exchanged between the Employer and the contractor in connection with the said work till the date of letter of acceptance of their tender shall be read and construed as forming part of this Agreement and the parties hereto shall respectively abide by, submit themselves to the said Conditions and perform the agreements on their part respectively in the said Conditions contained.
5. The 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 make good any damages done to walls, floors etc. after the completion of such works. The Employer reserves to itself the right of altering the nature of the work by adding to or omitting any items of work or having portions of the same carried out without prejudice to this contract.
8. Time shall be considered as the essence of the contract and the Contractor hereby agrees to commence the work and to complete the entire work as mentioned in para 3.14.4 subject nevertheless to the provisions for extensions of time.
9. All payments by the Employer under this contract will be made only at Kolkata.
10. All disputes arising out of or in any way connected with this agreement shall be deemed to have arisen at Kolkata and only Courts at Kolkata shall have jurisdiction to determine the same.
11. That the several parts of this Contract have been read by the Contractor and fully understood by the Contractor.
12. Where the business or undertaking of the contractor, is taken over by any other person / entity in any legally recognized mode of take-over, then unless the contractor is entitled

to continue to provide to the Bank the services contemplated under this Agreement, it shall be duty of the contractor to ensure that such other person / entity is obligated to provide the services contemplated under this Agreement under the same terms and conditions. In case the contractor does not so ensure and consequently maintenance services are not provided, or the successor of the contractor fails to honour the terms of this Agreement, then –

- a) Any sums due to the contractor towards CAMC shall be liable to be forfeited and successors of the contractor shall not be entitled to claim any money due to the contractor; and
- b) The Bank shall arrange to get the CAMC services through their successor or any other contractor mutually agreed with the Bank, at the risk and cost of the Contractor/ successor, as the case may be.

13. The Bank shall have right to forfeit the earnest money deposit, security deposit, retention money, performance Bank Guarantee submitted by the Contractor in case of failure by the Contractor to provided satisfactory services.

14. Obligations of the Contractor and the Bank during Defect Liability Period and Comprehensive Annual Maintenance Contract Period.

A. Obligations of the Contractor:

- a) The Contractor shall provide all-inclusive Comprehensive Annual Maintenance for the Fire Alarm system which includes periodic routine/ preventive and also any number of breakdown calls along with supply of all spares and labour involved for the supplied/ installed equipment and its accessories in order to ensure proper functioning of the system. The CAMC period will commence from expiry of one year defects liability period and accordingly shall be valid for a period of Nine years.
- b) **Security Deposit and Performance Bank Guarantee** for due fulfilment of contract including DLP and CAMC, as prescribed in the tender shall be submitted by the contractor.
- c) The contractor shall ensure that the required spares etc. for proper maintenance are readily available with them and for the satisfactory completion of DLP and CAMC period. The contractor shall also ensure to keep spare equipment as detailed in

general instructions at site to ensure prompt rectification of the defect during DLP and CAMC period.

- d) The Complaint/ Message may be sent by the Bank to the address/ Telephone Number/ email of the Contractor.
- e) While submitting the invoice towards annual maintenance to Bank, the Contractor has to furnish a satisfactory working service reports from the Bank. The certification given by the Bank is final and shall not be subject to any dispute.
- f) The Contractor has to replace any defective parts with the Manufacturer's genuine parts under intimation to the Bank's authorized personnel.
- g) The Contractor shall be responsible to take and accordingly obtain all the insurance required for its employees carrying out the CAMC works under this agreement, such as Workmen Compensation or any other requisite and necessary insurance.
- h) The Contractor shall keep the Bank indemnified in case any action is taken against them by any Authority on account of contravention by the Contractor or its employees, of any of the provision of any act or rules made there under pertaining to maintenance of the equipment(s). If the Bank is made liable to pay or reimburse any amount due to non-observance, if any, on the part of Contractor, of any provision stipulated in the notification by law/act/rules/regulations etc., then Bank, shall have the right to deduct any money due to the Contractor under this Agreement.
- i) The Contractor shall deploy adequate number of qualified and duly experienced service engineers and such other skilled personnel with necessary certification wherever necessary for carrying out the services, attending repairs and maintenance for the scope of work under this Agreement and considering the nature of working of the Bank, shall ensure availability of its maintenance personnel as and when required.
- j) The Contractor shall only employ its own employees / OEM's employees for rendering the services contemplated under this Agreement. The Contractor shall ensure that all the personnel deployed by it, act with proper demeanour and in case the Bank notifies the Contractor that any of its personnel need to be replaced for any

reason, the Contractor shall promptly act upon such notice by the Bank and replace the concerned personnel.

- k) The Contractor shall familiarize itself and fully comply with the provisions of all the Acts/ Rules/ Regulations and orders of the State/ Central Government applicable to the work, including the Payment of the Wages Acts, Workman's Compensation Acts, Contract Labour (R&A) Act etc. and shall be fully responsible and liable for due observance of the same.
- l) The Contractor shall abide by all existing or future labour related enactments and rules and regulations made there under, notifications issued, etc. by the State or Central Govt. or Local Authorities

B. Obligations of the Bank:

- a) **Terms of Payment for Maintenance Services:** Bank shall be responsible for making all payments to the Contractor during the CAMC period for rendering satisfactory maintenance services as per scope of works stated herein. **Quarterly payment** shall be made by the Bank to the contractor after rendering of satisfactory services during the quarter subject to submission of bill along with requisite service reports.
- b) **Rate of CAMC Charges:** The annual rate of CAMC Charges shall be as under:

Year	Comprehensive AMC charges (Including all applicable taxes, insurance, statutory charges, payment, etc.as applicable (including GST)
DLP	<i>Not applicable</i>
1 st Year CAMC	<i>As quoted in price bid</i>
2 nd Year CAMC	<i>As quoted in price bid</i>
3 rd Year CAMC	<i>As quoted in price bid</i>
4 th Year CAMC	<i>As quoted in price bid</i>
5 th Year CAMC	<i>As quoted in price bid</i>
5 th Year CAMC	<i>As quoted in price bid</i>
6 th Year CAMC	<i>As quoted in price bid</i>
7 th Year CAMC	<i>As quoted in price bid</i>
8 th Year CAMC	<i>As quoted in price bid</i>
9 th Year CAMC	<i>As quoted in price bid</i>

15. Penalty for Delay in Services during Defect Liability Period (DLP) and Comprehensive Annual Maintenance Contract (CAMC) period: This being an emergency i.e., Bank's fire & safety equipment, any fault in the system shall be rectified as per the rectification time given below failing which penalty shall be applied during DLP and Comprehensive maintenance period

S. No.	Condition	Rectification time	Penalty
(a)	Any defects resulting in total failure of the system	24 hours	Rs.2500/- per day
(b)	Any defects in independent devices, components, cables which may not result in total failure of the system	48 hours	Rs.1000/- per day

Note: Penalty subject to maximum of 50% of the annual maintenance charges, if the defect in the system is not rectified within the time as stated above. In addition to this, if the system is not rectified within the period of 3 days, the Bank shall have right to rectify the system at risk and cost of the contractor. The Bank shall have also right to invoke the BG as a penalty for delay in rectifying the system and terminate the contract, if service rendered by the contractor is found to be unsatisfactory.

16. Non-Disclosure Clause: - The contractor shall not disclose directly or indirectly any information, materials and of the Bank's infrastructure/ system/equipment's 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 ant 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.

17. Prevention of Sexual Harassment clause: -

- a) The Contractor / Agency shall be solely responsible for full compliance with the provisions of "the Sexual Harassment of women at work place (Prevention, Prohibition and Redressal) Act, 2013" 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 workplace and related issues.
- e) The contractor shall provide a complete and updated list of its employees who are deployed within the Bank's premises.

18. Force Majeure (applicable during the currency of the completion period and subsequent committed DLP period):- If either party is unable to perform its obligations under this Agreement due to the occurrence of an event beyond its control (such as acts of God, war like situations, riots, labor strike, government actions, earthquakes, cyclones, typhoons, and other natural calamities, etc.), that party will not be deemed to have defaulted under this Agreement. Each party agrees to use all reasonable efforts to enable performance under this Agreement to continue. If the period of non-performance due to a force majeure event exceeds 30 days, the party whose ability to

perform has not been so affected may, by giving written notice, terminate this Agreement.

19. **Performance Bank Guarantee (PBG)** as security deposit for completion period: - We 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 towards entire period of currency of Contract for due fulfilment of the Contractual obligations by the contractor + DLP (1 year) + 60 days.

20. Please refer to clause 29, 30, 35 under Section-IV for **termination of Contract**.

21. Please refer to clause 3.17 of Section-III for scope of work during **CAMC**

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 present 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 hereinabove written.

Signatures (If the contractor is Company.)
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
If the party is a partnership firm or an individual should be signed by all or on behalf of all the partners.

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

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 its common seal, the signature clause should tally with sealing clause in the Article of Association.

Note: Bank reserves the right to modify the contents of the Articles of the Agreement before the Agreement is entered with the Contract.

SECTION- III

General Instructions to Tenderers and Special Conditions

3.0 Online Submission of Tender: -

The Tender shall be submitted 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 as per SOT. 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. Insertions, post scripts, additions and alterations shall not be valid unless confirmed by the tenderers signature.

3.1 Tenderers are advised to use only the forms (tender books) available on the website. Each page of the forms shall be signed uploaded. Tenderers are advised to submit tender on MSTC website (www.mstcecommerce.com) within the stipulated time schedule.

3.2 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 uploaded online. The tender should be uploaded and submit online within the stipulated time / date as per SOT.

3.3 Part I – Technical & Commercial

3.3.1 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. The EMD shall be deposited through NEFT / Bank Guarantee / Demand draft. The NEFT details after submitting EMD through NEFT shall be uploaded with the tender and Bank Guarantee / Demand Draft in lieu of EMD shall be submitted in person to Estate Dept., 3rd floor, Reserve Bank of India, 15, N S Road, Kolkata – 700001 as per SOT.

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

- a) **Power of Attorney/** authorisation with the seal of the tenderer in the name of the person signing the tender documents (Annexure D).

- b) Duly filled in (sealed and signed) **Tender Part-I** issued by the Bank.
- c) Signed and stamped **Un-priced Bill of Quantities** without writing any rates therein
- d) List of the **makes/ models of various equipments** (FACP, detectors, Hooter, cable etc.) offered by the tenderer for this project.
- e) Duly filled in (sealed and signed) **compliance sheet for technical specifications** of the offered equipments (FACP, detectors, Hooter, cable etc.) and technical literature thereof.
- f) **Undertaking for maintenance confirmation** by the tenderer for after sales service as per Annexure A.
- g) The tenderer's **confirmation of technical sufficiency** to deliver the objective of proposed system as per Annexure N
- h) **Time schedule for Work Execution (Bar Chart)**: Schedule indicating timelines for delivery of various equipment, installation, testing, commissioning and handing over system to Bank within the tender stipulated time period. The schedule should be prepared keeping in view seamless transfer of existing system to the new system without any shutdown.
- i) Letter of Authorisation from the **Original Equipment Manufacturers (OEMs)** as per Annexure G.
- j) Undertaking by the **Original Equipment Manufacturers (OEMs)** of the offered equipments on their letter head duly sealed and signed by their authorized signatory in the format given at Annexure O on **conformity to the rules on Countries sharing Land Border with India** issued by Public Procurement Division, Department of Expenditure, Ministry of Finance, Government of India, vide Office Memorandum (OM) F. No. 6/18/2019-PPD dated July 23, 2020, and sequent revisions thereon.
- k) **Compliance to the technical specifications** of the offered makes/ models **from the OEM** on their letter head.
- l) **Road map for end of sale and end of support** of the offered makes/ models **from the OEM** on their letter head. The product offered should have end of support at least up to **March 2036**.
- m) Escalation matrix with designation of the officials and contact details (phone/ mobile/ Email Id etc.) to whom the issues can be addressed by the Bank's offices during the execution / maintenance period.
- n) Any other technical information the tenderer wishes to furnish.

3.3.2 **Pre-qualification Criteria:** - As mentioned in Notice Inviting Tender will be applicable.

3.3.3 The Tenderers are advised to visit the site of installation and acquaint themselves with the site conditions before submit tender.

3.3.4 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.

3.3.5 The tenderers shall upload full details of the patent, trade mark, 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.

3.3.6 All information, correspondence letters shall be submitted in duplicate and addressed to Regional Director, Estate Department, Reserve Bank of India, 15, N S Road, Kolkata – 700001.

3.4 **Part II - Price bid:** - Part II containing price bid.

- (a) This part shall contain prices in Indian Rupees only as per format (Part II) given in the e-tender. No other enclosure is permitted in Part II. Changes of terms and conditions and technical deviations, if any, found in Part II of the tender will not be considered and will be treated as null and void.
- (b) Rates should be quoted in columns specified through online process. No request entertain for any change in rate or conditions after the opening of the part II tender will be entertained.
- (c) The rates quoted shall be deemed to be for the finished work i.e. charges for all materials, labour, insurance, transportation etc. **and excluding GST** and shall be firm and binding without any escalation whatsoever till the system is handed over to the Bank. **However, GST shall be calculated by the system.**
- (d) 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.

3.5 **Pre-Bid Meeting**

Pre-Bid meeting with the intending Tenderers, to clarify any point/doubt raised by them in respect of the tender, will be held at time and venue mentioned in SOT. No separate

communication will be sent for this meeting. All the intending Tenderers are advised to attend the meeting and study the tender documents. Kindly note that site visit, if necessary, shall be a part of this pre bid meeting. No bidder shall be allowed to visit the site separately before or after the date of pre bid meeting. Hence, all prospective bidders are advised to attend this meeting and carry out site visit to ascertain themselves of the feasibility of carrying out the entire work as per scope of the tender, before quoting their rates. The bidders may send an e-mail before the date of pre-bid at estatedepartment@rbi.org.in or kiranpaul@rbi.org.in for their queries or indicate any points/conditions/specifications which need to be clarified during the meeting. They may also indicate any points/conditions/specifications which need to be clarified during the meeting. These issues will be discussed, and all the Tenderers will be advised suitably. The Tenderers are expected to get all the issues clarified during this meeting and therefore should desist from deviating from the Bank's tender conditions/specifications in their technical (Part I) and Price bids (Part II). Any Queries after the pre-bid meeting will not be entertained.

3.6 Opening of e-Tender: -

Part-I of the e-tenders will be opened on the time as mentioned in SOT. 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.

3.7 Scope of Work: -

The scope of work shall include the followings.

- a) **Maintenance of exiting Fire Alarm system:** Taking handover of the Maintenance of the existing Fire Alarm System from one months of the date of commencement of work (i.e., one months and 10 days from the date of award of the work) and providing all-inclusive comprehensive maintenance service for all component / equipments of existing Fire Alarm system viz. FACP, detectors, software, etc. to keep the existing Fire Alarm system functional until the new system is commissioned successfully. For this purpose, the tenderer will depute their team at least ten days before the due date of takeover and understand the system thoroughly. During this period, the contractor shall make all efforts to keep the system operational. The charges for this maintenance work shall be as quoted by the bidder in the price-bid.
- b) Delivery of all equipment's, materials to Bank's site at Kolkata including packing,

handling, transporting, insurance, loading / unloading at site.

- c) Obtaining Insurance Policies and any other work as stipulated in the tender document.
- d) Installation, testing, commission and handling of the above cited Fire alarm control panel (FACP) and its allied equipment's (as specified in this tender) to Bank. Installation, testing and commissioning shall be done without hampering fire & safety requirements of Bank.
- e) Providing all-inclusive service including all spares, etc. during warranty period and comprehensive AMC period.
- f) **The installation of Fire Alarm Control Panel (FACP) shall be inspected and certified by the official of the Original Equipment Manufacturer (OEM) of FACP for healthy installation & commissioning of entire FACP system before handing over the same to Bank.**
- 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:
- h) The Tenderer shall carefully check the specifications and shall satisfy himself that the equipment offered is suitable as per the Bank's Technical Specifications.
- i) Carefully removing the detectors, FACP, MCPs, Hooters, etc. and storing them safely at designated place identified by the Bank.
- j) Taking away the items under buyback as approved by the Bank and dispose through instructions complying with e-waste guidelines.

Note: - The replacement of old detector / devices by new one will be carried out during and/or beyond office hours on working days and/or on Saturday / Sunday / Bank's holidays as directed by Bank.

Before submission of tender, tenderers are requested to visit site and plan accordingly as regard involvement of efficient manpower, cost etc. to complete the project in all respect within the timeframe as stipulated in the tender.

3.8 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.

3.9 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

3.10 Earnest Money Deposit, Security Deposit, Contract Value, Retention Money, Performance Bank Guarantee: -

3.10.1 Earnest Money Deposit: All Tenderers shall deposit Earnest Money as prescribed in NIT. The EMD deposited of all the tenderer other than successful tenderer shall be refunded on expiry of bid validity (including extended validity) or on award of work to the successful tenderer whichever is earlier. No interest shall be paid on the said deposit. Under no circumstances, Earnest Money Deposit will not be accepted in the form of fixed deposit receipts or insurance guarantee or cheque or cash.

If the Tenderer, after submission of the tender, deviates from his offer or modifies the terms and conditions thereof, the EMD shall be forfeited (including the Bank Guarantee shall be liable to be enforced). The EMD will be forfeited if the tenderer withdraws their bid after opening of the Techno-Commercial Bid (Part I).

The EMD of successful tenderer shall be released on acceptance of the tender **and** on production of a Bank Guarantee called “**Performance Bank Guarantee (PBG)**” from any scheduled bank in the form prescribed by the Bank in Annex-F towards security deposit for due fulfilment of the Contract.

On receipt of intimation from the Bank of the acceptance of his/their tender, the successful tenderer shall be bound to implement the Contract **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.

EMD will be forfeited in the following situations: a) If the vendor / contractor withdraws bid after opening of the Techno-Commercial Bid (Part I). b) If the vendor / contractor fails to commence the work awarded to him / her within the prescribed time limit.

3.10.2 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.

3.10.3 Performance Bank Guarantee (PBG)

- a) **Security Deposit during Project execution and DLP:** The successful tenderer would be required to submit a Bank Guarantee, from any scheduled Bank in the form prescribed by the Bank as per Annexure IV, towards “**Security Deposit**” for an amount equal to **5% (Five percent) of the contract value** within fourteen days of the award of work. Should the successful tenderer fail to furnish the Security Deposit in any office within specified time, charge for delay in such submission shall be recovered from the bills of the contractor at Bank rate. This Bank Guarantee shall be initially valid for a period of minimum one year and shall be kept valid by the tenderer till completion of defect liability period of one year. The Bank Guarantee towards EMD shall be suitably extended, if necessary, by the successful tenderer till furnishing the PBG towards security deposit for Security Deposit.

Contract Value: The Contract Value mentioned in this document means the total value of capital cost of work, excluding buyback value, CAMC, etc., at which the work is awarded.

(b) Bank Guarantee towards CAMC (i.e. Comprehensive Annual Maintenance Contract) period:

After completion of the DLP of 1 year from the date of virtual completion, the successful tenderer may extend the validity of above stated PBG or shall furnish an amount equal to 10% (Ten percent) of the Contract value (project work) in the form of BG (Bank Guarantee) from any schedule Bank in the form prescribed by the Bank as per Annex towards Security Deposit for the due fulfilment of the terms and obligations of the CAMC period. This 10% BG should be valid for a period of CAMC i.e., 9 years with a claim period of three months.

The Bank reserves the right to enforce the Bank Guarantee in case of unsatisfactory performance of the terms & conditions of DLP and CAMC set out in the tender at any time during the currency of committed period of 10 years (1 yr. DLP + 9 years CAMC).

3.10.4 **Retention Money Deposit (RMD)**: In addition to Security Deposit (as mentioned in 3.11.3(a) above), retention Money @ 5% of certified amount will be deducted from each bill. The RMD may also be released on successful completion of DLP after receipt of the PBG for CAMC period as mentioned in above para.

3.10.5 Security Deposit and Retention Money shall be released after the completion of defect liability period of one year and on submission of new BG for an amount equal to 10% of contract value as **Performance Bank Guarantee** (as mentioned in para 3.10.3(b) above) for due fulfilment of the terms and obligations towards Committed Comprehensive Annual Maintenance Contract (CAMC) Period for Nine years.

3.11 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) 70% 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.
 - c. Policies of insurance covering all the risk as mentioned at para 3.13.
- 2) Balance 15% of the quoted rates against installation and testing.
- 3) Balance 15% of the quoted rates after commissioning and handing over of the entire system and submission of PBG as per clause 3.10.3.

3.12 Taxes:-

The rates should be quoted exclusive of GST. However, the bidders shall quote applicable GST in respective rows, failing which the bids are liable to be rejected without any further correspondence. In case the bidders are having any partial or full exemption from payment of GST, the same should be supported by applicable certificate issued by competent authority. Further, the evaluation of bids shall be on base rate only. As per Indian laws, income tax will be deducted at source and a certificate for the same will be issued to the contractor.

3.13 Insurance:-

3.13.1 The contractor shall take the following insurance policies for the work in the joint names of the Bank and the contractor (Bank's name being first) for the full contract value. The policies shall remain valid **from delivery of material at site till virtual completion of work for each phase:**

- a) Contractor All Risk Policy of contract value including Storage, installation, testing and commissioning.
- b) Workmen compensation policy for the employees of the contractor at site.
- c) Third party liability policy for a total of Rs.50 lakhs and with a limit of Rs10 lakh per accident.
- d) Fire Insurance, Flood insurance, earthquake, if not covered in policy at (a) above.

3.13.2 In case of any delays in the completion of the work for any reason whatsoever, the contractor shall arrange to renew these policies without any additional cost to Bank.

3.13.3 If the above policies are not submitted / renewed by the contractor in time, the Bank reserves the right to take the above insurance policies and recover the cost of insurance along with the administrative charges from the contractor's bill.

3.14 Completion Period: -

3.14.1 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 10th day of issue of the letter of acceptance of tender. 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 "Appendix herein before referred to" of the contract.

3.14.2 The contractor shall submit a Bar Chart for completion of the work within the contractual completion period. 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.

3.14.3 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.

3.14.4 **Completion Period:** DSITC of fire Alarm system in Bank's main office building

and Bank's Annex building shall be completed within 50 days from 10th day of the issue of work order.

3.14.5 Liquidated Damages and Milestones: Time allowed for carrying out the work is as mentioned above shall be strictly observed by the Contractor. The work shall, throughout the stipulated period of the contract, be proceeded with all due diligence. If the contractor fails to complete the work within this specified period, he shall be liable for liquidated damages **@ 0.25% of the value of work** per week of delay subject to a maximum of 10% of the contract value (contract value means the total value of capital cost of work, excluding buyback value etc., at which the work is awarded) as defined in "Appendix herein before referred to" of the contract. This will be in addition to any expenses incurred by the tenderer in keeping the existing (old) system functional for such extended period due to delay in completion. The liquidated damages will be levied in following manner:

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 her/ 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. The projects are broken down in the following three milestones indicating time and amount for achieving each milestone. In case, the contractor does not achieve a particular milestone(s), if any, mentioned in the Contract or rescheduled milestone(s) in terms of time extension clause, the amount to be calculated based on the targeted financial progress for the milestone and the delay up to the Running Account bill under processing shall be withheld (as per the method given below) 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 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, however, the amount to be withhold from a R.A. bill before reaching to a particular milestone(s) shall be calculated for the delay until the

date of R.A. bill. The application of liquidated damages shall not effect a change in the milestone or release the Contractor of her/ 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 instalment of payment becoming due and payable to the contractor in terms of this contract or from the retention money.

Specimen Milestone Chart:

Milestone	Due date	Milestone Target amount
Project Start	D0	0
1st	D1	T1
(N-X) th	D(N-X)	T(N-X)
(N-X+1) th	D(N-X+1)	T(N-X+1)
(N-X+2) th	D(N-X+2)	T(N-X+2)
(N-1) th	D(N-1)	T(N-1)
N th	D(N)	T(N)

Say a RA bill received on D_(R) is certified for gross amount of R where:

- $T_{(N-X)} \leq R < T_{(N-X+1)}$ i.e., Progress reached up to (N-X)th milestone
- RA Bill date D_(R) is after D_(N) i.e. Nth milestone has become due as on RA bill date
- Withhold amount for not achieving Nth milestone

$A_{(N)} = (0.0025/7) * (D_R - D_N) * (T_N - T_{(N-1)})$ where $T_{(N-1)}$ will be zero if Nth milestone is the first in the series of delayed milestones.

Gross Withhold amount for current RA bill: The withhold amount shall be calculated as follows:

- Withhold amount for milestones achieved with delay till previous RA Bill = P
- withhold amount for milestones achieved with delay during current RA bill = Q
- withhold amount for milestone due but not achieved till current RA bill. = R

$$P = A_{(1)} + A_{(2)} + \dots + A_{(N-X-1)}$$

$$Q = A_{(N-X)}$$

$$R = (0.0025/7) * ((D_R - D_{(N-X+1)}) * (T_{(N-X+1)} - T_{(N-X)}) + (D_R - D_{(N-X+2)}) * (T_{(N-X+2)} - T_{(N-X+1)}) + \dots + (D_R - D_N) * (T_N - T_{(N-1)}))$$

For the Project N=3 i.e., three milestones as follows:

Milestone	Due date	Milestone Target amount
Project Start	D ₀	0
1 st	D ₁ = 1 months from scheduled commencement of work	T ₁ = 30% of contract value
2 nd	D ₂ = 1.5 months from scheduled commencement of work	T ₂ = 70% of contract value
3 rd	D ₃ = 2 months from scheduled commencement of work	T ₃ =100% of contract value

3.15 Defects Liability Period (DLP) and Comprehensive Annual Maintenance Contract (CAMC) after DLP period:

The entire system shall be warranted against all types of defects including any manufacturing/design/ installation defects etc. for a minimum period of one year from the date of handing over of the equipment to the Bank and the system shall be maintained under CAMC for nine years thereafter.

Any defects in the system/sub-assemblies found within this period shall be rectified /replaced by the tenderer without any additional cost to Bank. During this period, servicing at not less than FOUR servicing or as prescribed by the manufacturer shall be carried out, further attending to ANY NUMBER of breakdown calls as when required within the amount quoted. Tenderer shall also indicate the service facility they can offer at the place of installation and the telephone number & address of their service center. The tenderers shall also quote their charges separately for Annual comprehensive maintenance contract after the expiry of the guarantee period as per the scope. This rate for the service contract shall be valid for a period of 9 years after expiry of DLP and payment shall be made on quarterly basis on rendering satisfactory service. The service contract rate shall also take into account all the cost, including travel cost from the nearest service station. This being a Bank's emergency equipments, any fault in the system shall be rectified as per the rectification time given below failing which penalty shall be applied.

S. No.	Condition	Rectification time	Penalty (Rs. Per day)
(a)	Any defects resulting in total failure of the System	24 hours	Rs.2500/-
(b)	Any defects in independent devices, components, cables which may not result in total failure of the system	48 hours	Rs.1000/-
Note: Penalty subject to maximum of 50% of the annual maintenance charges, if the defect in the system is not rectified within the time as stated above. In addition to this, if the system is not rectified within the period of 3 days, the Bank shall have right to rectify the system at risk and cost of the contractor. The Bank shall have also right to invoke the BG as a penalty for delay in rectifying the system and terminate the contract, if service rendered by the contractor is found to be unsatisfactory.			

3.15.1 The tenderers shall indicate details such as the service center from which the proposed systems at Kolkata will be serviced, the staff strength at that center and the availability of spares for the system at that center.

3.15.2 Any penalty during the DLP period shall be recovered from any dues payable to the contractor or invoke from the Bank Guarantee.

3.16 Comprehensive Annual Maintenance Contract (CAMC) after DLP period:

(a) The Tenderers shall quote their charges separately for comprehensive annual maintenance service of complete system as per schedule of quantities which will be applicable after one year of defect liability period (DLP). **The rates for CAMC shall also include the charges for the insurance of the workmen for carrying out the above job).**

(b) During DLP and CAMC period the system will be inspected and checked by deputing a competent, trained service engineer. The periodicity shall be on a **weekly basis** by creating a fire / smoke simulation in the loops as per following schedule:

S.No.	Time	Activity	Remarks
1	7.00 am	General inspection of panel for faults, fire alarms etc.	
2	7.30 am	Cleaning and Checking of FIVE detectors selected at random in	During the weekly visit FIVE loops will be

		any of the loops. including critical area detectors like server / UPS room etc.	selected and one detector in each loop will be selected at random and tested
3	8.45 am	Resetting of panel and generation of printed report of fire alarm	
4	9 am	Handing over of Fire alarm report and panel in good working condition to internal security officers / fire officer.	If fault exist, corrective action should be initiated

Critical area detectors viz server rooms/UPS rooms etc should be invariably included and checked during the weekly and quarterly visits.

ii) Suitable service/ breakdown reports indicating faults, rectification done with date & time of breakdown should be Maintained and got signed from the fire officer.

iii) Bank will not provide any assistance in the form of men/material during the currency of the guarantee and service contract. 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.

iv) The comprehensive Annual Maintenance contract includes, but is not limited to, procurement, including import, and replacement of all components and accessories wherever required, and repair/ replacement of all faulty mechanical/ electrical/ electromagnetic/ electronic parts of fire alarm and any other component needed to ensure the working of fire alarm control panel in the original state in which it is handed over to the Bank.

v) **Spares** and consumables are to be used of manufacturers make or approved makes/model only and shall be approved by Bank's Engineer / fire officers before usage. Non-availability of spares/ components shall not be accepted as a reason for waiving of penalty towards delay in rendering prompt services. The contractor shall, therefore, also ensure that the required spares etc. for proper Maintenance are readily available with them for complete life span of the system. The following spare equipment shall necessarily be maintained by the contractor at site:

S. No.	Equipment	Minimum Quantities to be kept as spare at site	Penalty for not maintaining spares at site (Rs. /day)
1	CPU	one	1000
2	Power Supply	one	500
3	Network card	one	500
4	Loop Card	one	250
5	Multi criteria detector	two	100

Note: In case, the Fire Alarm Control Panel supplied consists of hot standby CPU, Power Supply and Network card the spares may against those items may not be required. However, the defective component needs to be repaired / replaced within the time specified.

vi) The firm shall arrange for updating/ upgradation of software / licenses of various components as and when required throughout the CAMC period, free of cost without any extra cost to the Bank.

vii) During the DLP and CAMC period, **additional requirement** of the equipments, if any, may be met by procuring the equipments form the contractor based on the quoted rates and variations on the exchange rate, prices indices etc. In case the rates so offered are not found acceptable by the Bank due to any reason, the Bank may procure the same directly from the market and the same shall be handed over to the CAMC contractor along with all the warranty documents etc. for installation, testing and commissioning of the same in time bound manner as directed by Bank, for which the CAMC contractor will be **paid 5% of the cost of procured material**. The items so installed will be an integral part of the Fire Alarm System and the CAMC contractor shall maintain along with entire Fire Alarm system. After installation, these items shall remain under warranty for a period as prescribed in purchase document and thereafter shall be covered under CAMC. During first year of CAMC, the CAMC charges for these items will be paid to the CAMC contractor on pro rata basis (based on the cost of such additional installation) at rate the quoted by the CAMC Contractor in their tender:

Example:

Capital Cost of the Fire Alarm system	: Say Rs.10,00,000/-
CAMC Charges quoted by the tenderer	: Say 6.0%
Cost of Additional Installation	: Say Rs. 1,00,000/-
Pro rata CAMC Charges for additional Installation	: Rs. 6,000/-

The CAMC charges for additional equipments will be revised for further years as per CAMC percentage quoted for original equipment by the tenderer for further years. The operation of such additional equipments being an integral part of the Fire Alarm system shall be the responsibility by the CAMC contractor maintaining the entire system.

(c) The charges for comprehensive annual maintenance service shall include replacement of any part of the system, including all required spares, consumables etc. during service contract period. Any defects in the system/sub-assemblies, found within the maintenance period, shall be rectified / replaced by the Tenderer without any additional cost to the Bank.

(d) Penalty for delay in rectification during CAMC:

During the comprehensive annual maintenance service period (after DLP period), any fault in the system shall be rectified within timeline mentioned above on receipt of intimation of the defect in the system. The quoted rates shall, therefore, take into account all the cost, including travel cost from the nearest service station. The penalty for delay in rectification during CAMC is similar to the penalties during DLP as given below.

(e) Payment for Comprehensive Annual Maintenance Contract (CAMC):

The payment during the CAMC period shall be made on quarterly basis on rendering satisfactory service. The service contract shall be renewed for an additional period of at least 9 (Nine) years after the initial CAMC period of 1 (one) year. In other words, an assured life and service support will be provided for a total of 10 years (including one-year DLP) 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 one years and for all subsequent years, the new contract amount will be arrived at based on the CAMC charges and annual increment quoted by the bidder in the price bid.

The successful Tenderer shall enter into an agreement for comprehensive annual maintenance contract of the system with the Bank.

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 Office Building, Kolkata.

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 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 the tender 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 Sufficiency of Schedule of Quantities: -

3.20.1 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.

3.20.2 The quantities in the schedule of quantities approximately indicate the total extent of work, however, it may vary to any extent and even be omitted thus altering the

aggregate value of the contract.

3.21 Language

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

3.22 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.

3.23 Evaluation of e-Tender

Tenders will not only be evaluated based on capital cost but also considering the rates quoted for Comprehensive Annual Maintenance Contract (CAMC) for a period of 9 years after expiry of one-year DLP. Tenders will, therefore, be evaluated based on the total cost of ownership (TCO) for 10 years which will be arrived at as under.

Total cost of ownership (TCO) = $C - B + (F1 \times A1 + F2 \times A2 + + F3 \times A3 + F4 \times A4 + F5 \times A5 + F6 \times A6 + F7 \times A7 + + F8 \times A8 + F9 \times A9)$

Where:

- i) The capital cost (C) quoted for SITC of Fire Alarm System
- ii) Less buy back amount (B) quoted for removal and taking away of existing (old) Fire Alarm systems (except retained cabling) as indicated in BOQ.
- iii) A_n = The amount quoted for nth year Comprehensive Annual Maintenance Contract (CAMC) charges subject to minimum CAMC rates as indicated in the following para, for a period of 9 years after expiry of Defect Liability Period of one year
- iv) F_n is the NPV factor for the CAMC of the Nth year. For arriving at the NPV factor i.e. F_n will be computed as per the following parameters

(a)	Annual Increment	5% per annum
(b)	Discount factor	8% per annum
(c)	Period of CAMC	9 years (after DLP of one year)
9d)	Payment terms of CAMC	Quarterly payment after satisfactory completion of service.

Based on the above, the NPV multiplying factors are as follows:

Year	Minimum Comprehensive AMC charges in terms of percentage of quoted capital cost (Including all applicable taxes, insurance, statutory charges, payment, etc.as applicable)	NPV Multiplying factor F_n
1 st	DLP	DLP
2 nd	5.00%	1st Year CAMC (F_1) = 0.882647
3 rd	5.35%	2nd Year CAMC (F_2) = 0.858129
4 th	5.72%	3rd Year CAMC (F_3) = 0.834292
5 th	6.13%	4th Year CAMC (F_4) = 0.811117
6 th	6.55%	5th Year CAMC (F_5) = 0.788586
7 th	7.01%	6th Year CAMC (F_6) = 0.766681
8 th	7.50%	7th Year CAMC (F_7) = 0.745384
9 th	8.03%	8th Year CAMC (F_8) = 0.724679
10 th	8.59%	9th Year CAMC (F_9) = 0.704549

(v) Minimum Base Rate for Comprehensive AMC: Tenderers are required to quote rate of CAMC for first year after DLP(A1) in terms of percentage of capital cost of the system and percentage of annual increment in the CAMC charges till completion of CAMC of nine years. If the tenderer quotes lower than the minimum threshold mentioned below, then the threshold rates of CAMC will be considered for calculation of Total Cost of Ownership. However, the payment will be made as per quoted rate only.

S. No.	Description	Threshold value
1	Minimum Comprehensive AMC charges, in terms of percentage of quoted capital cost (Including all applicable taxes, insurance, statutory charges, payment, etc.)	5%
2	Annual increment in terms of percentage of pervious year CAMC charges	7%

3.24 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.

3.25 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.

3.26 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.

3.27 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.

3.28 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.

3.29 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.

3.30 Application of Minimum wages/ gratuity/ Contract Labour Act to the workmen: - The contractor shall ensure that minimum wages/ gratuity as per statutory requirement are paid to all the workmen.

3.31 Labour License: - The contractor shall adhere to various provisions of the Contract Labour (Regulation & Abolition) Act 1970, if applicable under the said contract, and fulfil all the statutory requirements.

3.32 The successful Tenderer must co-operate with the other contractors appointed by the Bank so that the work shall proceed smoothly with the least possible delay.

3.33 Provision of Rule 144(Xi) of the GFR 2017:

Compliance with the Rule 144(xi) of GFR 2017 inserted vide Office Memorandum (OM) F. No. 6/18/2019-PPD dated July 23, 2020 issued by Public Procurement Division, Department of Expenditure, Ministry of Finance, Government of India, the public procurement orders issued in furtherance thereto, and their subsequent revision shall be mandatory.

In this regard, Bidder shall submit a copy of Undertaking / Declaration / Certificate on their letter head duly sealed and signed by the authorized signatory in the format given in **Annexure-L**.

If this Undertaking / Declaration / Certificate submitted by the bidder is found to be false, his/her its tender / work order will be immediately terminated, and any legal action in accordance with law including forfeiting of Earnest Money Deposit / Performance Bank Guarantee / Security Deposit may be initiated and the Bank may also debar the bidder from participating in the tenders invited by the Bank in future.

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:

Seal & Signature of the Tenderer.

FIRE SAFETY

- (i) Cutting / drilling machine and other electrically operated equipment used at site shall be plugged into correctly rated electrical outlets.
- (ii) Only ISI marked 3 pin plug and other appliances and equipment shall be used.
- (iii) 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 Centrals 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

1. In constructing these conditions, the specification, schedule of quantities and Contract Agreement, the following words shall have the meaning herein assigned to them except where subject or context otherwise requires.

a) "Employer"	Shall mean the Reserve Bank of India and shall include its assignees and successors.
b) 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 erection thereon and any other land (inclusively) as aforesaid allotted by the Employer for the Contractor's use.
d) "This Contract"	Shall mean the Article of Agreement, the special conditions, the conditions, the Appendix, the schedule of quantities and specifications attached hereto and duly signed.
e) "Notice in writing"	Shall mean a notice in written, typed or printed or written notice characters sent (unless delivered personally otherwise proved to have been received) by registered post to the last known private or business address or registered office of the addressee and shall be deemed to have been received when in the ordinary course of post, it would have been delivered.
f) "Act of Insolvency"	Shall mean any Act of insolvency as defined by the Presidency Town Insolvency Act, or the provincial insolvency Act or any Act amending such original Act.

g) "The works" Shall mean Tender for Design, Supply, Installation, Testing and Commissioning of Microprocessor Based Intelligent Analog Addressable Fire Alarm System for the Bank's Main Office Building & Annex Building RBI Kolkata -00001.

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 Bank's Engineer. The Bank's Engineer may in his absolute discretion and from time-to-time issue further drawings and/or written instructions, details, direction and explanations which are hereafter collectively referred to as "Bank's Engineer's instruction with regard to":

- a) The variations or modifications of the design, quality or works or the addition or omission or substitutions of any work.
- b) Any discrepancy in the Drawing or between the Schedule of Quantities and/or Drawing and/or specifications.
- c) The removal from the site of any materials brought thereon by the contractor and the substitution of any other material therefor.
- d) The removal and/or re-execution of any works executed by the contractor.
- e) The dismissal from the works of any persons employed thereupon.
- f) The opening up for inspections of any work covered up.
- g) The amending and making good of any defects under clause 20 hereof.

The contractor shall forthwith comply with and duly execute any work comprised in such Bank's Engineer's instructions provided always that verbal instructions, directions and explanations given to the Contractor or his representative upon the works by the Bank's Engineer shall, if involving a variation, be confirmed in writing by the Contractor within seven days, such shall be deemed to be Employer's instructions within the scope of the Contract.

The contractor shall submit a statement of variations giving 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.

3. The Contract shall be executed in triplicate and the Bank's Engineer, the Employer and the Contractor shall be entitled to one executed copy each for his use. Before the issue of the final certificate to the Contractor he shall submit to the Bank's Engineer all catalogues and Specifications data sheet.
4. The Contractor shall provide at his cost everything necessary for the proper execution of the works according to the intent and meaning of the Drawings, 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 therefrom, and if the Contractor finds any discrepancy in the Drawings or between the Drawings, Schedule of quantities and Specifications, he shall immediately and in writing refer the same to the Bank's Engineer, who shall decide which is to be followed.
5. **Authorities, notices and patents:** 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 any water, electricity supply and other companies and/or authorities with whose system the structure 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 Bank 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 within ten days receive such instructions 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 17 hereof.

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.

The Contractor shall indemnify the Employer against all claims in respect of patent rights and shall defend all actions arising from such 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.

6. **Setting out of work:** The contractor shall set out the works and shall be responsible for the true and perfect setting out of the same and for the correctness of the positions levels,

dimensions and alignment of all parts thereof. If at any time any error in this respect shall appear during the progress of the works or 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 Bank's Engineer.

7. **Materials and Workmanship to conform to description**: 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 contract and the Contractor shall furnish to the Employer 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.
8. **Contractor's superintendence and representative on the works**: The Contractor shall give all necessary personal superintendence during the execution of the works and so 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 to work. Any directions, explanations, instructions or notice given by the Bank's Engineer to such representative shall be held to be given to the Contractor.
9. **Dismissal of workmen**: The Contractor shall on the request of the Bank's Engineer immediately dismiss from the works any person employed thereon by him who may, in the opinion of the Bank's Engineer, be incompetent or misconduct himself and such persons shall not be again employed on the works without the permission of the Bank's Engineer.
10. **Access to works**: The Employer, shall at all reasonable times, have free access to the works and/or to the workshops, factories or other places where materials are lying or from which they are being obtained and the Contractor shall give every facility to the Employer necessary for Inspections and examination and test of the materials and workmanship. No person not authorized by the Employer except the representatives of public authorities shall be allowed on the works at any time.
11. **Bank's 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.

The Bank's Engineer, or the Employer shall have power to give notice to the Contractor or to his representative of non-approval or 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 Assistant 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 a stage of the works or after the same is completed. Subject to the limitations of this clause the Contractor shall take instructions only from the Bank's Engineer.

12. Assignment and Subletting: The whole of the works included in the Contract shall be executed by the Contractor and the contractor shall not directly or indirectly transfer, assign or under-let the Contract or any part share thereof or any interest therein without the prior written consent of the Employer and not undertaking shall relieve the Contractor from the full and entire responsibility of the Contract or from active superintendence of the works during their progress.

13. No alteration, omission or variation shall vitiate this contract but in case the Bank's Engineer thinks proper at any time during the progress of the works to make any alterations in, or addition to, or omissions from the works or any alteration in the kind of quality of the materials to be used therein and shall give notice thereof in writing under his hand to the Contractor, the Contractor shall alter, add to, or omit from, as the case may be, in accordance with such notice, but the contractor shall not do any work extra to or make any alterations or additions to or omissions from the works or any deviation from any of the provisions of the Contract. Stipulations, specifications or Contract Drawings without the previous consent in writing of the Employer and the value of such extras alterations, additions or omission shall, in all cases, be determined by the Employer in accordance with the provisions of Clause 17 hereof, and the same shall be added to, or deducted from the Contract Amount, as the case may be accordingly.

14. 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 17 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.

15. Sufficiency of Schedule of Quantities: The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his e- 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.

16. Measurement of works: The Bank's Engineer may, from time to time, intimate to the contractor that he requires the works to be measured, and the Contractor shall forthwith attend or send a qualified agent to assist Assistant Engineer in taking such measurements and calculations and to furnish all particulars or to give all assistance required by any of them.

Should the Contractor not attend or neglect or omit to send such agent then the measurement taken by the Bank's Engineer or a person approved by him shall be taken to be correct measurement of the works. Such measurements shall be taken in accordance with the Mode of Measurements detailed in the Specifications.

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

All authorized extra works, omissions and all variations made with the prior approval in writing of Employer shall be included in such measurements.

17. Prices for extra: The Contractor may, when authorized and shall, when directed, in writing by the 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 Bank's Engineer shall, if confirmed by them in writing within seven days, be deemed to have been given in writing.

No claim for an extra shall be allowed unless it shall have been executed under provisions of clause above hereof with the concurrence of the Employer herein mentioned. Any such extra in herein referred to as authorized 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 in similar character and executed under 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 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 quoted 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 omissions or additions relative the amount of the whole of the Contract works or to any part thereof shall be such that in the opinion of the Bank's engineer, the net rate or price contained in the priced Schedule of Quantities or tender or for any item of the works involves loss or expenses beyond that reasonably contemplated by the contractor or is by reason of such omission or addition rendered unreasonable or inapplicable, the Bank's Engineer shall fix such other rate or price as in the circumstances he shall think reasonable and proper, with the prior approval in writing of the Employer.
- (d) Where extra work cannot be properly measured or valued, the Contractor shall be allowed day work prices as the net rates stated in the tender or the Priced Schedule or Quantities or, if not so stated, then in accordance with the local day work rates and wages for the district provided that in either case vouchers specifying the daily time (the workmen's names) and materials employed be delivered for verification to the Bank's Engineer at or before the end of the week following that in which the work has been executed plus 15% towards establishment charges, contractor's overhead and profits.

The measurement and valuation in respect of the Contract shall be completed within the "period of final measurements" stated in the Appendix or if not stated then within six months of the completion of the Contract works as defined in Clause 21 hereof.

18. Unfixed materials when taken into account to be the property of the Employer

Where in any certificates (of which the Contractor has received payment) the Bank's Engineer has included the value of any unfixed materials included 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.

19. 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 Bank's Engineer are not in accordance with the Specifications, the substitutions of proper materials, and the removal and proper re- execution of any work executed with materials or workmanship not in accordance with the drawings & specifications or instructions and the contractor shall forthwith carry out such order at his own cost. In case of default on the part of Contractor to carry out such order, the Employer shall have the power to employ any pay 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.

20. Defects after virtual completion : Any defect, shrinkage, settlement or other fault which may appear within the "Defects Liability Period" stated in the Appendix hereto, or, if none stated them within twelve months after the virtual completion of the works, arising in the opinion of the Employer from materials of workmanship not in accordance with the contract, shall upon the direction 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, shrinkage settlements or other faults, and all damages loss and expenses consequent thereon are incidental thereto shall be made good and borne by the Employer or may be deducted by the Employer, upon the Bank's Engineer's Certificate in

writing, from any money 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 and in the event of the amount retained under clause 32 hereof being insufficient, recover the balance from the Contractor, together with any expenses the Employer may have incurred in connection therewith. Should any defective work have been done or materials supplied by any sub-contractor employed on the works who has been nominated as provided under clause 12 and 22 hereof, the contractor shall be liable to make good in the same manner as if such work or material had been done or supplied by the Contractor and been subject to the provision of this clause 2 hereof. The contractor shall remain liable under the provisions of this clause the signing of any certificate or the passing of any accounts by the Employer.

21. Certificate of virtual completion and defects liability period: The works shall not be considered as completed until the Bank's Engineer has certified in writing that they have been virtually completed. The defects liability period shall commence from the date of such certificates.

22. Nominated Sub-Contractor: All Specialists, Merchants, Tradesmen and others executing any work of supplying and fixing any goods for which the prime cost prices or provisional sums are included in the Schedule of Quantities and/or Specifications who may be nominated or selected by the Employer or hereby declared to be sub- contractors employed by the contractor and are herein referred to as nominated sub- contractors.

No nominated sub-contractors shall be employed on or in connection with the works against the Contractor shall make reasonable objection are (save where the Bank and the Contractor shall otherwise agree) who will not enter into contract providing.

- (a) That the nominated sub-contractor shall indemnify the contractor against the same obligation in respect of the sub-contract as the contractor is under in respect of this contract.
- (b) That the nominated sub-contractor shall indemnify the contractor against claims in respect of any negligence by the sub-contractors his servants or agents or any misuse by him or them or any scaffolding or other plant, the property of the Contractor or under

any Workmen's Compensation Act in force.

- (c) Payment shall be made to the nominated sub-contractor within fourteen days of his receipt of the Employer's Certificate provided that before any Certificate is issued the Contractor shall upon request furnish to the Bank proof that all nominated sub-contractors accounts included in previous certificates have been duly discharged; in default whereof the Employer may pay the same upon a Certificate of the Bank and deduct the amount thereof from any sums due to the Contractor. The exercise of this power shall not create private of contract as between Employer and Sub-Contractor.

23. Other persons employed by Employer: The Employer reserves the right to use premises and any portion of the site for the execution of any work not included in this Contract which it may desire to have carried out by other persons, and the Contractor shall allow all reasonable facilities for the execution of such work but shall not be required to provide any plant or material for the execution of such work except by special arrangement with the Employer. Such work shall be carried out in such manner as not to impede the progress of the works included in the Contract and the Contractor shall not be responsible for any damage or delay which may happen to or occasioned by such work.

24. Insurance in respect of damage to person and property: The Contractor shall be responsible 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 of either, whether such injury or damage arises from carelessness accident or any other clause whatever in any 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 road, streets, foot-paths, bridges or ways as well as 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 it 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 or compensation or damages consequent upon such claim.

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 to 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.

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 expenses 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 Bank 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 status 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, in the joint names of the Employer and the Contractor against such risks and deposit such policy or policies with the Bank from time to time during currency of the Contract.

The Contractor shall be responsible for any liability which may be executed from the Insurance Policies above referred to and also for all other damage to any person, animal or property arising out of the incidental to the negligent or defective carrying out of this Contract transit, storage, erection, testing & commissioning policy. 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.

The Employer shall be entitled to deduct the amount of any damage, compensation, costs,

charges and expense arising of 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, within 14 days from the date of award of the work, ensure 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 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 within 14 days from the date of award of work.** In default of the contractor, insuring as provided above, the employer may so ensure the works and may deduct the premium 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 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.

25. Date of commencement and completion: The Contractor shall be allowed admittance to the site on "Date of Commencement" stated in the Appendix hereto, or each 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) or before the "Date of Completion" stated in the Appendix subject nevertheless to provisions for extension of time hereinafter contained.

26. Damages for non-completion: If the Contractor fails to complete the works by the date stated in the Appendix or within any extended time under Clause 27 and 20 here 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 money due to the Contractor.

27. 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 contractor's own default or (d) by the works or delays of other contractor or Tradesmen engaged or nominated by the Employer and not referred to in the schedule of quantities and/or specifications or (e) by reasons of Bank's Engineer instruction as per clause 17 hereof (f) by reason of civil commotion, local combination of workmen or strike or lockout affecting any of the building trades or (g) in consequence of the Contractor not having received in due time necessary instructions from the Bank for which he shall have specifically applied in writing or (h) from other causes which the Bank may certify as beyond the control of contractor or (I) in the event, the value of the work exceed the value of the Priced Schedule of Quantities owing to variation, the Bank may make a fair and reasonable extension of time for completion shall as soon as may be given written notice thereof to the bank but the Contractor shall nevertheless constantly use his endeavors to prevent delay and shall do all that may reasonably has required to the satisfaction of Bank to proceed with work.

28. Contractor's failure to comply with Employers instruction: If the Contractor after receipt of written notice from the Employer requiring compliance within 10 days fails to comply with such further drawings and/or Bank's instructions 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 as a debt or may be deducted by him from any moneys due to the Contractor.

29. 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 supervisions of the court and the Official Assignee or 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 Bank that he is able to carry out and fulfill the Contract and to give security therefore, if so required by the Bank.

Or if the Contractor (whether an individual, first 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 Contractors.

Or shall assign to sublet this Contract without the consent in writing of the Employer first had and obtained.

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

- (i) Has abandoned the Contract, or
- (ii) Has failed to commence the works, or has without any lawful excuse under these conditions suspended the progresses of the works for fourteen days after receiving from the Bank notice to proceed, or
- (iii) Has failed to proceed with the work 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 proceed with the work 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
- (v) Has failed to remove materials from the site or to pull down and replace work for seven days receiving from the Bank written notice that the said materials or work were condemned and rejected by the Bank's Engineer under these conditions' or
- (vi) Has neglected or failed persistently to observe and perform all of any of the acts, matter or things by the 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, the whole of which shall continue in force as fully as if the Contract has not been so determined, and so if the works subsequently execute had been executed by or on behalf of the Contractor. And further, the Employer by his agents or servants may enter upon and taken possession of the works and all plant, tools scaffoldings, sheds, machinery, steam and other power utensils 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 own servants and workmen in carrying on and completing the work or by employing any other Contractor or other person or persons to complete the works, and the Contractor shall not in any way interrupt or do any act matter or thing to prevent or hinder such other contractor or other 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 Bank 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 fourteen 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 and certify in writing under his hand what of the said plant and materials so taken possessions or by the Employer and the expenses or loss which the Employer shall have been put to in procuring the works to be completed and the amount. If any, owing the Contractor and the amount which shall be so certified shall thereupon be paid by the Employer to the Contractor or by the Contractor to the Employer, as the case may be, and the Certificate of the Bank shall be final and conclusive between the parties.

- 30. Termination of Contract by Contractor:** If this payment of the amount payable by the Employer under Certificate of the Bank's Engineer 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 interferes with or obstructs the issue of any such Certificate, or if the Employer shall repudiate the Contract, or if the works be stopped for three months under the order of the Bank or 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 in 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 or the Contract.

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 17 hereof.

31. **Delayed Payment:** Any amounts payable by the Employer to the Contractor shall, if not paid within the 'period of honoring Certificates' names 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 sum ought to have been paid by the Employer until the payment.
32. The decision, opinion, direction Certificate (except for payment) with respect to all or any of the matters under Clauses 2(a, b), 4, 5, 14, 20 (a, b, c, d and f) 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, shall be subject to the right of Arbitration and review under the Clause 33 hereof in the same way in all respects (including the provisions as to opening the reference).

33. **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 of otherwise any sum is found to have been overpaid or over certified it shall be lawful for the employer to recover the sum.

34. **Employer entitled to cover compensation paid to workman**

If, for any reason, the Employer is obliged, by virtue of the provisions of the Workmen's Compensation Act, 1923, or any statutory modification 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 the 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 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.

35. Abandonment of works

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

36. Return of surplus materials

Notwithstanding anything to the contrary contained in any or all the clauses of this Contact, where any material for the execution of the Contract is procured with the assistance of the Employer by purchase 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 Bank having due regard to the conditions of the materials, the price to be determined not be 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 permit and/or criminal breach of trust, be liable to Employer for all moneys, advantages or profits resulting or which in the usual course would have resulted to his by reason of such breach.

37. Right of employer to terminate contract in the event of death of Contractor or 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.

38. Non-Disclosure Clause

The contractor shall not disclose directly or indirectly any information, materials and of the Bank's infrastructure/ system/equipment's 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 published, 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.

39. Prevention of Sexual Harassment clause

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

- (e) The contractor shall provide a complete and updated list of its employees who are deployed within the Bank's premises.
- 40. Force Majeure** (applicable during the currency of the completion period and subsequent committed DLP and CAMC period) :- If either party is unable to perform its obligations under this Agreement due to the occurrence of an event beyond its control (such as acts of God, war like situations, riots, labor strike, government actions, earthquakes, cyclones, typhoons, and other natural calamities, etc.), that party will not be deemed to have defaulted under this Agreement. Each party agrees to use all reasonable efforts to enable performance under this Agreement to continue. If the period of non-performance due to a force majeure event exceeds 30 days, the party whose ability to perform has not been so affected may, by giving written notice, terminate this Agreement.
- 41. Debarment of firms from bidding:** A firm/ bidder may be debarred from the bidding/ participation in tender, on the following grounds:
1. If it is determined that the bidder has committed the following acts or omissions in contravention of the code of integrity:
 - a. making offer, solicitation or acceptance of bribe, reward or gift or any material benefit, either directly or indirectly, in exchange for an unfair advantage in the procurement process or to otherwise influence the procurement process.
 - b. any omission or misrepresentation that may mislead or attempt to mislead so that financial or other benefit may be obtained, or an obligation avoided.
 - c. any collusion bid rigging or anticompetitive behavior that may impair the transparency, fairness and the progress of the procurement process.
 - d. improper use of information provided by the procuring entity to the bidder with on intent to gain unfair advantage in the procurement process or for personal gain
 - e. any financial or business transactions between the bidder and any official of the procuring entity related to tender or execution process of contract: which can affect the decision of the procuring entity directly or indirectly.
 - f. any coercion or any threat to impair or harm, directly or indirectly, any party or its property to influence the procurement process.
 - g. obstruction of any investigation or auditing of a procurement process.

- h. making false declaration or providing false information for participation in a tender process or to secure a contract.
 - i. failed to disclose conflict of interest.
 - j. failed to disclose any previous transgressions made in respect of the provisions of sub clause (1) with any public institution/entity in India or any other country during the last three years or of being debarred by any public procuring institution/entity.
2. For any actions or omissions by the bidder other than violation of code of integrity, which in the opinion of the Bank warrants debarment, for the reasons like supply of sub-standard material, non-supply of material, abandonment of works, sub-standard quality of works, failure to abide terms of the tender etc.
3. If the bidder has been convicted of an offence-
- (a) under the Prevention of Corruption Act, 1988; or
 - (b) the Indian Penal Code or any other law for the time being in force, for causing any loss of life or property or causing a threat to public health as part of execution of a public procurement contract.

43. 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 / proof of evidence, on every month, to be submitted to the Bank during period of execution of work and subsequent warranty and AMC period.

44. Labour License:

The contractor shall adhere to various provisions of the Contract Labour (Regulation & Abolition) Act 1970 and fulfill all the statutory requirements.

45. **Settlement of dispute by Arbitration:** All disputes and differences of any kind whatever arising out of or in connection with the contract or the carrying out of the works (whether during the progress of the works or after the completion and whether before or after the determination, abandonment or breach of the contract) shall be referred to and settled by the Employer who shall state its decision in writing. Such decision may be in the form of a final certificate or otherwise. The decision of the

Employer with respect to any of the excepted matters shall be final and without appeal as stated in Clause 43 hereof. But if either party be dissatisfied on any matter, except the excepted matter as above, the party may within 28 days after receiving notice of such decision give a written notice to the other party requiring that the matters in dispute be arbitrated upon. Such written notice shall specify the matters, which are in dispute or difference of which such written notice has been given. If both the parties agree a single arbitrator would be appointed for the purpose. In case no agreement could be reached on the appointment of single arbitrator, both the parties will nominate one person each as an arbitrator on their behalf. The two arbitrators nominated by the parties shall nominate one more person to act as third arbitrator.

The arbitrator or arbitrators, as the case may be, shall have power to open up, review and revise any certificate, opinion, decision, requisition or notice, save in regard to the excepted matters, referred to in the preceding clause, and to determine all matters to dispute which shall be submitted to arbitration and of which notice shall have been given as aforesaid.

The arbitrator or arbitrators, as the case may be, shall make his or their award within one year (or such further extended time as may be decided by him or them as the case may be with the consent of the parties) from the date of entering on the reference. In case during the arbitration proceedings, the parties mutually settle or compromise their dispute or difference, on the parties filing their joint memorandum of the settlement or compromise, the arbitrator or the arbitrators, as the case may be, shall make an award in terms of such settlement or compromise.

Upon any such reference, the decision on the cost incidental to the reference and award respectively shall be in the discretion of the arbitrator or arbitrators, as the case may be, who may determine the amount thereof or direct the same to be taxed as between the party and party and shall direct by whom and to whom and in what manner the same shall be borne and paid.

This submission shall be deemed to be a submission to arbitration within the meaning of the Indian Arbitration and Conciliation Act, 1996 or any statutory modification thereof.

The award of the arbitrator or arbitrators, as the case may be, shall be final and binding

on the parties. It is agreed that the Contractor shall not delay the carrying out of the works by reason of any such matter, question or dispute being referred to arbitration, but shall proceed with the works with all due diligence and shall until the decision of the arbitrator or arbitrators is given, abide by the decision of the Bank. No award of the arbitrator or arbitrators, as the case may be, shall relieve the Contractor of his obligations to adhere strictly to the Bank's instructions with regard to the actual carrying out of the works. The Employer and the Contractor hereby also agree that arbitration under this clause shall be a condition precedent to any right of action under the contract.

The venue of arbitration shall be the centre/city in which the work is being executed.

Place:

Date:

Signature of the Tenderer with Seal.

SECTION-V

Appendix Herein before Referred To

1.	Defects Liability Period	One year from the date of Virtual Completion
2.	Period of Final Measurement	3 months
3.	Date of Commencement	10 th day after the date of issue of work order
4.	Date of Completion	Date of virtual completion certificate
5.	Rate of liquidated damages for non-completion of work.	As per terms of tender
6.	Value of works for interim certificates	10% of the contract value
7.	Period for honoring certificates	One month for interim bills and 3 months for final bill.
8.	Interest for delayed payment	3% per annum
9.	Performance Bank Guarantee	As prescribed in tender

Place:

Seal & signature of Contractor

Date:

SECTION-VI
SYSTEM REQUIREMENT AND SPECIAL CONDITIONS

1. During pre-bid meeting, all the bidders must compulsorily visit the site proposed for the captioned work and quote the rates so as to understand the exact requirement of FACP.
2. Rates should be inclusive of minor civil works necessary to accomplish the task including making hole, grouting using Dash Fasteners and other minor works not specifically mentioned but are compulsory for completing the work.
3. The work should be carried out in such a manner so as to create minimum hindrance and trouble to existing ongoing operation and without hampering the Banks fire and safety emergency.
4. Successful firms should co-operate with other contractor working in the same area. For the work an exclusive engineer should be deputed to supervise and monitor the work.
5. Bank will only provide incoming supply at one point and subsequent wiring using suitable size of copper cable is to be included in the work.
6. Supplier shall submit the performance test report / result for the supplied equipments before installation and commissioning.
7. All the quantities mentioned are approximate and may vary on either side. Successful contractor is advised to procure the material after proper measurement at site.
8. The workmen will not be allowed to stay within the premises.
9. The water required for workmen can be availed from the available source at site free of cost.
10. The electric power required for the work can also be similarly drawn from the supply available at site free of cost.
11. Permission, if any, required from the local bodies shall be obtained by the Contractor.
12. The intending Tenderer can obtain any clarifications regarding the Tender drawings, specifications etc. from the department on any Bank's working day.
13. The Tenderer may please note that, the work has to be carried out during the day time or as per the Bank's instructions. Therefore, the entire work involved shall be carried out with least disturbance to the office occupants and also day-to-day cleaning has to be done by the contractor. The wall/slab/column should be cut by chase-cutter only.
14. The contractor shall prepare three copies of **as done / as build drawing** after completion

of the work and shall submit along with the final bill.

15. 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.
16. 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.
17. 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 made availability of supply during the Evening & night time. Contractor shall take into account the above facts while quoting the rates.
18. 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.
19. The contractor shall depute a qualified supervisor during the execution of the work. No work shall be carried out at site in unsupervised manner. Work to be carried out as per working hours as specified in NIT.

Place:-

Date:-

Seal & Signature of the Tenderer.

SECTION - VII

Technical Specifications

7.0 General Description and Scope of Work

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, Kolkata. 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 existing wiring/cabling will be utilized for installing detectors and devices on every floor of the building. Cabling wherever required for installation of extra detectors / devices within the premises as advised by Bank's Engineer shall be carried out.)

The fire alarm system shall comply with requirements of IS-2189 and NFPA Standard No. 72 other applicable Standards 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.

The Bank's Main Office Building is a high-rise Building. Microprocessor Based Addressable fire alarm system shall cover the G + Mezzanine +12 Floors of Main Office Building and Annex Building. The Fire Alarm system includes addressable Fire Alarm Control Panel (FACP), repeater panel(s) and Networked Graphic Control Station (NCS), detectors, devices, modules, etc. One to one smoke detector (both at true and false ceiling) / response indicator (RI) / manual call point (MCP) / detector / hooter / sounder etc. will be replaced and few detectors including cabling etc. shall be provided in new location within the premises as per guidance of Bank's Engineer and Fire officers.

- The shop drawings shall be prepared and submitted by the successful bidder for Bank's approval prior to execution.
- The system shall comply with a latest version UL/EN/VDS or with equivalent Indian standard. 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 smoke detectors, heat detectors and manual call points, relay & control modules etc. shall be connected. The smoke detectors and heat

detectors shall be provided inside the buildings. For the buildings indoor type manual call points shall be provided.

- Repeater Panels shall also be provided at different points for parallel annunciation of the fire alarm system status. This will have a direct connection with the FACP. -
- In addition, programmable relay controls for controlling Lift movement, AHUs, pressurization fans, smoke extraction fans, ventilation fans, fire pump room, monitoring of sprinkler systems, pumping systems etc. shall be capable to interface 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 a fire situation, the detector shall sense the smoke/heat and send the input signal to the FACP. The panel processes the signal and activates 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.

Basic Performance

- (i) All signals from various types 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 fed from the primary power (through power supply) 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.
- (v) When a fire alarm/trouble condition is detected and reported by one of the systems initiating devices or appliances, the following functions shall immediately occur:
 - (a) The System Alarm LED shall flash, or the system trouble LED shall flash.
 - (b) A local signal in the control panel shall sound.

- (c) The main panel 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.
- (d) 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.
- (e) 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.

Approvals

All the Fire Alarm system equipment shall have proper listing and/or approvals and shall comply to the requirements of the IS 2189 – Indian Standard 4th Revision and one of the following recognized agencies.

- (i) UL – Underwriters Laboratories Inc.:
- (ii) EN 54 - European Standards
- (iii) VDS---German standards or
- (iv) Equivalent Indian standard

7.1 FIRE DETECTION & ALARM PANEL

General

1. The Panel shall be UL864 / EN 54 listed / VDS certified or complying to equivalent Indian standard and shall comply to latest safety provision standards of NFPA 72. –
2. The panel shall be Microprocessor based, Analogue 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 etc. 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-

7.1.1 Main Fire Alarm Control Panel (FACP)

- (i) The control panel shall be a 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.
- (ii) The Fire alarm panel shall be modular with CPU, SLC, Battery, power supply modules and networking cards etc. complete. In the event of CPU failure either one of the following scenarios has to be ensured:
 - a) All signalling loop circuit (SLC), modules shall fall back to degrade mode. Such degrade mode shall treat the corresponding SLC Loop Control Module and associated detection devices as conventional two wire operation. Any activation of a detector in this mode shall automatically activate associated notification appliance in the circuits. However, a completely programmed spare CPU or Controller has to be supplied and kept ready at site for immediate replacement.
 - Or
 - b) The panel shall have redundant CPU or Controller that will automatically start to operate without any manual intervention. When the redundant CPU or Controller will be in operation no outage or limited usage of intended functions of the entire system shall happen.
- (iii) Fire Alarm system shall consist of either one panel of 15-loop panel or maximum of two panels fulfilling the requirement of 15 loops, in network mode with proper communication with each other to deliver all the functions which a single panel is expected to deliver. All the loop cards should be of same size with a minimum capacity of 159 detectors & 90 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.

- (iv) The panel shall maintain a history file of the last 10000 events, each with a time and date stamp. History events shall include all alarms, troubles, operator actions, and programming entries.
- (v) The loop interface board shall be able to drive an NFPA Style 6 twisted shielded circuit not less than 2000 meters 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.
- (vi) 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.
- (vii) 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.
- (viii) 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.
- (ix) The system shall provide means to obtain a variety of reports listing all event, alarm, trouble, supervisory, or security history.
- (x) 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. -
- (xi) The Main Power Supply shall operate on 240 VAC, 50 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.

POWER SUPPLY

- a) The control panel shall drive from addressable 230 Volts AC/ 24 Volts DC from main power supply. In case of failure of main power supply, the panel shall be automatically switched over to standby power supply i.e. battery. The standby battery as secondary supply shall be such that when charged by associated battery charging equipment it can operate independently for a period of 24 hours for normal working operation and capable of operating the system for 30 minutes during an emergency condition or as per manufacturer standard. Batteries shall be of Lead Acid type sealed Maintenance free.
- b) In addition to the batteries, a battery charger suitable for operation on the auxiliary power available in the plant as specified above. The capacity of the charger shall be such that the same can charge the battery (within 8 hrs) while supplying the rated load of the fire detection system. Facilities shall be provided to limit the voltage supplied to fire detection and alarm system to their rated values during the time of charging. The charger shall normally supply the battery trickle charging current and the DC load of the fire detection and alarm system. In case the AC supply on the input side of the charger fails the necessary power for the complete fire detection and alarm system shall be supplied by the battery.
- c) Visible and audible annunciation for troubles or failure in the power supply system like "charger Failure", "Battery Low Voltage", etc. shall be provided.
- d) Battery earth/fault indication/annunciation shall be included in the panel.

Batteries -

- (i) Battery shall have sufficient capacity to power the fire alarm system for not less than 30 Minutes in alarm condition and 24 hours or as per manufacturer standards in normal condition.
- (ii) The batteries are to be completely sealed maintenance free.

7.1.2 Repeater Panel

The Repeater Panel shall be with minimum suitable display or touchscreen 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/EN 54 Listed.

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.

Repeater Panel may be installed at following location-

- (i) GM (ID) cabin (ii) Security Officer Cabin at 4-th Floor (iii) Police commander Cabin
- (iv) Security Officer Cabin at 4-th Floor

7.2 FIRE ALARM SYSTEM DEVICES

General

1. Each device shall be UL/ EN 54 listed / VDS certified or complying with equivalent Indian standard.
2. Addressable devices shall use simple to install and maintain decade, decimal address switches or with automatic addressing. Devices shall be capable of being set to an address in a range of loop capacity. 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 / EN54 as meeting the calibrated sensitivity test requirements of NFPA Standard 72,

9. Addressable devices shall use simple to install and maintain type address switches or automatic address.

7.2.1 INITIATION DEVICES

7.2.1.1 Intelligent Multi Criteria Detector with floating sensitivity

- (i) The intelligent multi criteria detector shall be an addressable device that is designed to monitor a minimum C 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 applicable 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 or smoke only alarm mode, enabled by a special command from the main Fire Alarm panel -
- (ii) 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).
- (iii) 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.

7.2.2.2 Addressable Flammable LPG Detector -

- (i) The LPG gas detector shall be designed to sense the leak of LPG flammable gas. It shall be connected to the fire alarm panel by use monitor modules and shall be UL/EN Listed.
- (ii) The scale, range, calibration, relay operation and alarm set points of the detector shall all be adjusted via the transmitters' backlit LCD/LED. The detector shall be mountable on a wall or round support pole using universal brackets.

7.2.2.3 ADDRESSABLE BEAM DETECTOR

- (i) Addressable type linear optical beam smoke beam detector having control panel at low height designed to operate as components of fire alarm systems. It should be the combination of transmitter/receiver units that can be connected to a detector loop. -
- (ii) The Infra-Red transmitter generates a beam of light towards a high efficiency reflector. The reflector returns the beam to the receiver where an analysis of the received signal is made. The change in the strength of the received signal is used to determine the alarm condition.
- (iii) The sensitivity of the detector can be set to between 25% and 50% obscuration, providing application flexibility to suit the environment in which the detector will be installed. In addition to four fixed value alarm thresholds, there shall be two variable thresholds that automatically compensate for changes in the environment which could otherwise result in unwanted alarms while remaining within a known sensitivity range.
- (iv) The detector incorporates automatic drift compensation, whereby the detector will adjust its detection thresholds in line with any long-term signal reduction of the beam caused by contamination of the optical surfaces.
- (v) Different alert for Fault and Fire condition.
- (vi) The detector can be adjusted up to 10 degrees vertically and horizontally for alignment. Where greater angular adjustment is required, the multi-mount accessory will be provided.
- (vii) The detectors have a range of 9 m to 50m or higher. (the same may be verified by bidder at site before offering the product)

7.2.2.4 Addressable Manual Call Point

- (i) 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.
- (ii) All operated stations shall have a positive, visual indication of operation and utilize a key type reset.

- (iii) Manual fire alarm boxes shall be constructed of Lexan with clearly visible operating instructions provided on the cover. The word FIRE shall appear on the front of the stations in raised letters.
- (iv) Protective category shall be IP54 for indoors & IP65 for outdoors applications. –

7.2.3 NOTIFICATION DEVICES

7.2.3.1 Strobe cum Alarm Hooters

- (i) 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. Strobe cum Alarm hooters shall be wired as a primary signaling notification appliance.
- (ii) 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 minimum 2 tone options, two audibility options (at 24 volts) and the option to switch between a temporal 3 pattern and a non-temporal continuous pattern. Strobes shall be powered independently of the sounder. The horn on horn/strobe shall operate on a non-coded power supply.
- (iii) The strobe cum alarm hooter shall be loop powered as existing cabling to be used. No additional power supply and power cable should be required. In case any additional cable is required to power this device, the same shall be provided by the vendor without any additional cost to the Bank.

7.2.4 MODULES

7.2.4.1 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 which blinks upon being scanned by the Fire Alarm panel.

7.2.4.2 Control Module (for output from fire alarm panel)

The addressable control module shall be provided to control the operations of the systems like AHUs, Fire Damper, 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, fire damper, firefighting equipment 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, fire damper 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 which blinks upon being scanned by the Fire Alarm panel to indicate its health or fault conditions.

7.2.5 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.

7.3 Networked Graphic Control Station (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 i7 latest Generation, 8 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 or as per OEM's recommended specification whichever is better to be provided. The NCS shall be capable of capturing minimum 5000 detector / device points. 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. Fire Graphic Software must be capable of graphically representing each facility being monitored with floor plans and icons depicting the actual locations of various systems and / or sensors' locations. The software should accommodate current devices with 5000 points (minimum). Upgradation of software and its license key throughout the DLP and CAMC period (i.e., 9 years after 1-year DLP) is within the scope of the Contract. No additional payment shall be made on this account.

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

7.4 Cables

All cables 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 RED coloured FRLS,

twisted armoured 1.5 sq mm multistranded insulated, copper conductor cables, conforming to IS:1554 and shall be of specified make. All the cables shall be properly terminated and labeled.

Installation & constraint of working hours: - Noted with the comments as below

- (i) As the work is to be carried out in existing occupied building, the actual functioning of the existing fire alarm system can not be put under shut down. Therefore, the execution of this work has to be meticulously planned and executed in consultation with Bank's 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 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 junction boxes, supports and hangers shall be concealed in finished areas and may be exposed in unfinished areas as per Bank's direction.
- (vi) **Safely 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 break-glass units (Manual Stations) shall be suitable for surface mounting or semi-flush mounting as existing, and shall be installed not less than 42 inches, not more than 48 inches above the finished floor.

- (x) Working hours to replace old detector / devices by new one for each floor and car parking area at basement will be beyond office hours (i.e., 7 PM to 10 PM) on all working days and 10 AM to 10 PM for all Saturday / Sunday / Bank's holidays. In the said working hours, required new cabling works and installation of new detector / devices will also be carried out. Before submission of tender, tenderer are requested to visit site and plan accordingly as regard involvement of efficient manpower, cost etc. to complete the project in all respect within the timeframe as stipulated in the tender.
- (xi) Dismantling of the old system is in the scope of the contractor, all the old devices, cables, FACP, Repeater panel. MCP etc. related to the old fire alarm system shall be dismantled properly after successful operation of the new fire alarm system.
- (xii) 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 commissioning and acceptance tests shall be apart from the standard or routine tests prescribed and normally conducted by the manufacturer /Design-Build Contractor and will be irrespective of the fact whether the same are covered by such tests or not. All commissioning tests at site will be in line with NFPA 71 and 72. Each sounder circuit shall be energized separately, and the sound level reading taken to check for conformity with the minimum standards.

- Mains failure performance.
- Battery disconnection test.
- Open circuit of each sounder circuit to be tested.
- Short circuit of each sounder circuit to be tested.

The results of the above tests either by fault warning or fire alarm shall be recorded in the logbooks which will be signed both by the Contractor and the employer's Representative.

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 test.
- (x) 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.
- (xi) 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.

Final Inspection

The final inspection of entire FACP system installed by the successful bidder for healthy installation & commissioning of the same shall be made by a well-trained OEM's authorized technicians & a certificate shall be issued & submitted by the OEM.

and

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

Instruction

- (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

Standards to be followed.

	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)
	relevant applicable Fire Prevention & Fire Safety Rule
	IS-2189
	NFPA 70: National Electrical Code (NEC).
	Requirements of the local Authorities Having Jurisdiction
	NFPA-75 Standard for the Protection of Information Technology Equipment's
	1. UL 50 Cabinets and Boxes 2. UL 268 Smoke Detectors for Fire Protective Signaling Systems 16 3. UL 864 9th edition Control Units for Fire Protective Signaling Systems 4. UL 268A Smoke Detectors for Duct Applications 5. UL 521 Thermal Detectors for Fire Protective Signaling Systems 6. UL 228 Door Closers-Holders for Fire Protective Signaling Systems 7. UL 464 Audible Signaling Appliances 8. UL 38 Manually Activated Signaling Boxes 9. UL 346 Water flow Indicators for Fire Protective Signaling Systems 10. UL 1481 Power Supplies for Fire Protective Signaling Systems

	11. UL 1076 Proprietary Burglar Alarm Units and Systems 12. UL 1971 Visual Notification Appliances
	National Building code (NBC) – 2016
	All the equipment's shall be tested, approved, and/or listed by: a. LPCB (Loss Prevention Certification Board), UK b. UL (Underwriters Laboratories Inc.), US c. ULC (Underwriters Laboratories Canada), Canada d. Factory Mutual Systems (FM) Publications e. Factory mutual Approval Guide f. National electrical manufacturers association (NEMA) Enclosures for Industrial Controls and Systems g. ANSI A17.1 Safety code for Elevators and Escalators 1. NFPA-75 Standard for the Protection of Information Technology Equipment's 2. NFPA-76 Standard for the Protection of Telecommunication Facilities

List of approved makes.

S. No	Descriptions of items	Approved makes
1.	Fire Equipment: Control Nodes (Fire Alarm Control Panel, repeater panel, software, etc.), Initiation devices (Smoke and thermal Detectors, Manual Call Points); Notification devices (hooter cum strobes, etc), Control / Relay Modules	Siemens, Bosch, Honeywell, Johnson Control, Cooper, Edward, Tyco or equivalent
2.	FRLS cables - Red colour	Finolex, Havells, KEI, CCI, Polycab or equivalent
3.	Computer / PC	HP, Lenova, Dell or equivalent
4.	Printers	HP, EPSON, Canon or equivalent
5.	Cable gland and lugs	Dowells, Braco, Comet or equivalent

Technical data to be furnished by tenderer.

7.1 Fire Alarm Control Panel (minimum 15 Loops).

Offered Make	Model Number	Country of Origin

S. No	Specification	Compliance (Yes/No)	Reference (Data Sheet / OEM undertaking)
1	Microprocessor based Intelligent Addressable, modular, networkable Fire Alarm Panel.		
	The panel shall have provision to interconnect with Fire Fighting System.		
2	Loop capacity of FACP: 15 (permissible to fulfil the requirement with the use of maximum two panels in network mode with proper communication with each other to deliver all the functions which a single panel is expected to deliver.		
3	Minimum Loop cards in Panel(s): 15		
4	Each Loop shall accommodate minimum 159 detector and 90 devices per loop		
5.	Loop Length (1.5 sq. mm twisted wire) shall support Minimum 2000 mtr		
6.	Redundancy and / or Degrade mode: In the event of CPU failure one of the following has to be ensured a) All signalling loop circuit (SLC), modules shall fall back to degrade mode. Such degrade mode shall treat the corresponding SLC Loop Control Module and associated detection devices as conventional two wire operation. Any activation of a detector in this mode shall automatically activate associated notification appliance in the circuits. However, a completely programmed spare CPU or Controller has		

S. No	Specification	Compliance (Yes/No)	Reference (Data Sheet / OEM undertaking)
	to be supplied and kept ready at site for immediate replacement. Or b) The panel shall have redundant CPU or Controller that will automatically start to operate without any manual intervention. When the redundant CPU or Controller will be in operation no outage or limited usage of intended functions of the entire system shall happen.		
7	The panel shall be provided with 6-inch, minimum 640-character liquid crystal/LED display or touch screen		
8	Field Programming: shall be through Built in Keypad		
9	Panel programming: through Key Pad or an off-line software utility program away from the panel and/or while connected and on-line.		
10.	Password: The system shall support two password levels, master and user. Up to 6 user passwords shall be available.		
11.	Event History: 10,000 Events		
10	Alarm Verification		
11	Occupancy Scheduling feature		
12	Adjustable Alarm Sensitivity Level		
13	Windows based Upload & Download programming Utility		
14	Comply with UL Listed /EN 54(Latest UL/EN 54 Standards to be implemented) / VDS certified / equivalent Indian standard.		
15	Power supply: Should be addressable		
16	Power supply: The capacity of the charger shall be such that the same can charge the battery (within 8 hrs) while supplying the rated load of the fire detection system		

S. No	Specification	Compliance (Yes/No)	Reference (Data Sheet / OEM undertaking)
17	Power supply: In case the AC supply on the input side of the charger fails the necessary power for the complete fire detection and alarm system shall be supplied by the battery		
18	Power supply: Visible and audible annunciation for troubles or failure in the power supply system like "charger Failure", "Battery Low Voltage", etc. shall be provided.		
19	Battery: completely sealed maintenance free		
20	Battery: sufficient capacity to power the fire alarm system for not less than 30 Minutes in alarm condition and 24 hours		

Fire Graphic Command Station

Offered Make	Model Number	Country of Origin

S. No	Parameter	Minimum Requirement	Compliance (Yes/No)	Reference (Data Sheet / OEM undertaking)
A	Hardware			
1	Processor	duel core Intel® i7 or latest version with 2.0 GHz speed,		
2	RAM	8GB		
3	Hard Disk	1TB, 15000RPM		
4	Ethernet Port	1Gbps with Ethernet card		
5	Mouse	Optical mouse		

S. No	Parameter	Minimum Requirement	Compliance (Yes/No)	Reference (Data Sheet / OEM undertaking)
6	Keyboard	Multimedia		
7	Graphics card	2TB NVIDIA or better as per OEM standard		
8	Display	32 inch LED display		
9	Laser Jet Printer	Coloured printer		
B	Software			
1	Operating Software	Windows 11 professional		
2	Network Control software	Shall provide graphical annunciations and control all network activity		
		Capable of capturing minimum 5000 detector / device points		
		Events shall be stored on internal hard disk and shall be capable of back-up storage to a external storage media.		
		The system should be capable of having multiple viewing outputs.		
		It should be capable of monitoring, reset, bypass and control of all field devices over clear, logically arranged and self-explanatory graphics including floor plans and icons, allowing to respond to Alarm conditions in real time and event		

S. No.	Parameter	Minimum Requirement	Compliance (Yes/No)	Reference (Data Sheet / OEM undertaking)
		handling directly from the screen.		

Repeater Panel

Offered Make	Model Number	Country of Origin

S. No.	Specifications	Compliance (Yes/No)	Reference (Data Sheet / OEM undertaking)
1	Microprocessor based intelligent Active Repeater Panel capable of being networked over CAN, LAN and/ or Network card as per site condition.		
2	The panel shall have Dynamic supervision of Intelligent devices with Detector sensitivity monitoring output as per NFPA 72 Chapter 7.		
3.	The panel shall have multiple levels of configurable passwords and logic / timed based controlled output functions.		
4.	The panel shall have ethernet connectivity over TCP/IP/ MODBUS protocol for connection with premise wide LAN		
6	The panel shall be UL listed as per FM standards/ VDS approved as per EN54 standards or complying with equivalent Indian Standards.		

7.2.1.1 Multicriteria Detector

Offered Make	Model Number	Country of Origin

S. No.	Specifications	Compliance (Yes/No)	Reference (Data Sheet / OEM undertaking)
1	The intelligent multi criteria detector shall be capable of operation in heat-only or/and smoke only alarm mode, enabled by a special command from the main Fire Alarm panel		
2	The detector sensitivity shall be a combination of Smoke detection and Heat detection. The smoke detection system shall work on Light scattering type principle using LED, and the Heat detection system shall be of Rate of rise of temperature and Fixed Temperature.		
3.	It shall 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		
4.	The detector shall be programmed to work as optical only or thermal only detector. It shall be have a provision to switch off any component (optical or thermal) of the detector.		
6	The Detectors and the Panel shall together avoid the possibility of false alarm caused due to interferences from sources such as Motors, power cables, Wi-Fi routers, fluorescent lamps, network switches, mobile signals, etc.		
7	The Detectors shall have a visible LED to indicate the healthiness/ trouble/ alarm condition of the detector. The LED shall be located in such a way that it shall be visible from all the 360 degrees from below.		
8	In some cases where the visibility of the detector is obstructed by cable trays, false ceiling etc. Facility for connecting the detector to a response indicator has to be present.		
9	The Detector shall be equipped with inbuilt fault isolators. Detectors without Inbuilt Isolators may be		

S. No.	Specifications	Compliance (Yes/No)	Reference (Data Sheet / OEM undertaking)
	considered with an additional Isolator Module at an interval of not more than 10 detector / devices as per NFPA-72 standard without any price escalation.		
10	The Detector shall have in-built drift compensation facility.		
11	The Detectors shall communicate the ambient reading to the FACP on time-to- time basis, and the FACP shall make the decision about the current status of the detector, whether it is in fire/pre-alarm/maintenance requirement etc.		
12	The Detectors shall have at least 15 levels of sensitivity settings based on the application and room where it is installed		
13	The Detectors shall have Intermediate Alarm Storage, Dual Detector Dependency, Dual group Dependency features that shall be programmed based on site application.		
14	The Detectors shall be capable of detecting both smoldering fires and open fires.		
15	Comply with UL Listed /EN 54(Latest UL/EN 54 Standards to be implemented) / VDS certified / equivalent Indian standard.		

7.2.2.4 Addressable type beam detector

Offered Make	Model Number	Country of Origin

S. No.	Specifications	Compliance (Yes/No)	Reference (Data Sheet / OEM undertaking)
1	Addressable type linear optical beam smoke beam detector having control panel at low height designed to operate as components of fire alarm systems.		
2	It should be the combination of transmitter/receiver units that can be connected to a detector loop.		
3	The Infra-Red transmitter generates a beam of light towards a high efficiency reflector.		
4	The reflector returns the beam to the receiver where an analysis of the received signal is made.		
5	The change in the strength of the received signal is used to determine the alarm condition.		
6	The sensitivity of the detector can be set to between 25% and 50% obscuration, providing application flexibility to suit the environment in which the detector will be installed.		
8	The detector incorporates automatic drift compensation, whereby the detector will adjust its detection thresholds in line with any long-term signal reduction of the beam caused by contamination of the optical surfaces.		
9	The detector can be adjusted up to 10 degrees vertically and horizontally for alignment. Where greater angular adjustment is required, the multi-mount accessory will be		

S. No.	Specifications	Compliance (Yes/No)	Reference (Data Sheet / OEM undertaking)
	provided.		
10	The detectors have a range of 9 m to 50m. (the same may be verified by bidder at site before offering the product)		
11	Comply with UL Listed /EN 54(Latest UL/EN 54 Standards to be implemented) / VDS certified / equivalent Indian standard.		

LPG Detector

Offered Make	Model Number	Country of Origin

S. No.	Specifications	Compliance (Yes/No)	Reference (Data Sheet / OEM undertaking)
1	The LPG gas detector shall be designed to sense the leak of LPG flammable gas.		
2	It shall be connected to the fire alarm panel by use monitor modules and shall be UL/EN Listed.		
3	The scale, range, calibration, relay operation and alarm set points of the detector shall all be adjusted via the transmitters' backlit LCD/LED.		
4	The detector shall be mountable on a wall or round support pole using universal brackets.		

Addressable Manual Call Point

Offered Make	Model Number	Country of Origin

S. No.	Specifications	Compliance (Yes/No)	Reference (Data Sheet / OEM undertaking)
1	Manual call points shall be of Addressable Double Action type and will comprise of an electronic circuit built into it to provide addressing capability. No conventional type MCP with addressable arrangement over interfacing unit will be accepted.		
2	The MCPs shall be provided with inbuilt fault isolator. MCPs without Inbuilt Isolators may be considered with an additional Isolator Module at an interval of not more than 10 detector / devices as per NFPA-72 standard without any price escalation.		
3	The MCP shall have a LED capable of providing local indication.		
4	Protective category shall be IP54 for indoors & IP65 for outdoors applications.		
5	The MCP 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.		
6	Manual fire alarm boxes shall be constructed of Lexan/ABS with clearly visible operating instructions provided on the cover. The word FIRE shall appear on the front of the stations in raised letters.		

Control Relay Module

Offered Make	Model Number	Country of Origin

S. No.	Specifications	Compliance (Yes/No)	Reference (Data Sheet / OEM undertaking)
1	The CRM shall be loop powered type, addressable either by Dip switch or by the Fire Alarm Panel.		
2	The CRM shall provide a dry potential free contact for activating a variety of auxiliary devices and other firefighting/ ventilation equipment.		
3	The CRM shall have inbuilt fault isolator module. CRM without Inbuilt Isolators may be considered with an additional Isolator Module at an interval of not more than 10 detector / devices as per NFPA-72 standard without any price escalation.		
4	The CRM shall have a capability of handling at least 1A @30VDC to integrate with third party system.		
5	The CRM shall be UL listed as per FM standards/ VDS approved as per EN54 standards or complying with equivalent Indian standards.		

Response Indicator

Offered Make	Model Number	Country of Origin

S. No.	Specifications	Compliance (Yes/No)	Reference (Data Sheet / OEM undertaking)
1	The RI shall have compatibility with all detectors.		
2	The RI shall have Dual LED lamps for indication.		
3	The RI shall operate over 24V DC and shall have max. alarm current 10mA.		
4	The RI shall have provision for both Ceiling and Wall Mounting with ABS enclosure fit for indoor use only		

Strobe cum Alarm Hooters

Offered Make	Model Number	Country of Origin

S. No.	Specifications	Compliance (Yes/No)	Reference (Data Sheet / OEM undertaking)
1	The Sounder with Strobe shall be of addressable Loop Powered type. In case of separately powered sounders, cost of the power cable, Supervised Power Supply and Interface Module shall be inclusive in the cost of sounders itself and shall not be paid separately.		
2	The power supply of such sounders shall be fed from main Fire Alarm Panel only.		
3	The Sounder with Strobe shall have inbuilt fault isolator module. Devices without Inbuilt Isolators may be considered with an additional Isolator Module at an interval of not more than 10 detector / devices as per NFPA-72 standard without any price escalation.		
4	The Sounder with Strobe shall be placed in the		

	detection loop only and a separate loop or cables for sounders shall not be used.		
5	The Sounder with Strobe shall have a sound pressure level of 80 db at 10 feet and the volume shall be adjusted from the Fire Alarm Panel. The strobe shall have a synchronized flash rate up to 1 Hz.		
6	The Sounder with Strobe shall be capable of programming at least 2 different tones for alarm detection in different floors or at different time intervals.		
7	The Sounder with Strobe shall have a feature of synchronizing with other sounders in the loop.		
8	The Sounder with Strobe shall be UL listed as per FM standards/ VDS approved as per EN54 standards or complying with equivalent Indian standard.		

Monitor Module

Offered Make	Model Number	Country of Origin

S. No.	Specifications	Compliance (Yes/No)	Reference (Data Sheet / OEM undertaking)
1	The MM shall be loop powered type, addressable either by Dip switch or by the Fire Alarm Panel.		
2	The MM shall provide at least 2 (two) inputs and these inputs shall work independently to monitor 3rd party devices and shall allow to program with different parameters.		
3	The module shall contain an LED which blinks upon being scanned by the Fire Alarm panel.		
4	The MM shall have inbuilt fault isolator module. MM without Inbuilt Isolators may be considered with an additional Isolator Module at an interval of not more than 10 detector / devices as per NFPA-72 standard without any price escalation.		
5	The MM shall be programmed to monitor contacts, Voltage and EOL resistor as per site applications.		
6	The MM when programmed to monitor contacts shall also allow to program to monitor either open/close contacts.		
7	The MM shall be UL listed as per FM standards/ VDS approved as per EN54 Standards or complying with equivalent Indian standard.		

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 Comprehensive Annual Maintenance Contract (CAMC) for a further period of 9 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.

Place:-

Date:-

Tenderer.

Seal & Signature of the

SECTION-VIII

Schedule of Commercial & Technical Deviations

Schedule of Commercial Deviations:

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

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

Note: In addition to the above-mentioned deviations, any deviation mentioned elsewhere will not be considered.

Seal & Signature of Tenderer Name:

Designation:

Date

Schedule of Technical Deviations:

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

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

Note: In addition to the above-mentioned deviations, any deviation mentioned elsewhere will not be considered.

Place:

Date:

Signature of Bidder with seal

SECTION-IX

Commercial Check List

Sr. No.	Description	Bank's Terms and conditions	Acceptance of Bank's terms and conditions (YES/NO)
1	Validity of tender	90 days from opening of e-Tender part-I	
2	EMD	Rs. 1,60,000/-	
3	Terms of payment	As per clause 3.11 in Part I of the tender	
5	Defect Liability Period	One year from date of virtual Completion.	
6	Service after sales during CAMC	Quoted rates shall include the cost of repairs/Maintenance including replacement of any material / assembly / equipment / spares / labour if found necessary. However, GST will be quoted in a separate row.	
7	Completion period	Refer para 3.14.4	
8	Liquidated damages	Refer para 3.14.5	
9	Penalty during DLP & AMC period	As per clause 3.16 in part I of the tender	
10	Insurance polies	As per clause 3.13 in Part I of the tender	
11	Terms of payment for AMC	To be paid on quarterly basis on rendering satisfactory services	
12	Copy of Annexures (as applicable)	To be uploaded with Part I of the tender	

Sr. No.	Description	Bank's Terms and conditions	Acceptance of Bank's terms and conditions (YES/NO)
13.	Section-IX- Commercial Check List	To be uploaded with Part I of the tender.	
14.	Section-VIII- Schedule of variation commercial / Technical)	To be uploaded with Part I of the tender.	
15.	Technical data, offered make / model of the equipment as asked at Section-VII	To be uploaded with Part I of the tender.	

Part II should not contain any terms and conditions but only priced for bill of quantity.
Terms and conditions, if any, incorporated in Part II, will not be valid or considered.

Place

Date

Seal & Signature of Contractor

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				

Proforma of undertaking for maintenance confirmation by the Bidder

(To be uploaded by the tenderer)

To,

The Regional Director,
Reserve Bank of India
Estate Department
Kolkata.

Dear Sir

Design, Supply, Installation, Testing and Commissioning of Microprocessor Based Intelligent Analog Addressable Fire Alarm System for the Bank's Main Office Building & Annex Building RBI Kolkata -700001.

We hereby undertake to maintain the (name of the equipment)_____to be installed by us in your Premises satisfactorily, for a period of not less than 9 years, after expiry of the defect liability period of one years, under comprehensive annual maintenance service contract at the quoted rates in tender and terms and conditions as per the contract conditions with a provision for annual price revision as provided in the tender document.

In the unlikely event of M/s _____, the Original Equipment Manufacturer, failing to provide support in terms of spares / equipment etc. due to technological obsolescence or for any reason, we shall continue to provide all-inclusive service (CAMC) to your satisfaction, by arranging required spares etc. ourselves, within the rate quoted by us for the all-inclusive maintenance contract for the period accepted as above.

Yours faithfully,

()

Authorised signatory

(Name and address of the company with Company Seal)

Date:

CLIENT's CERTIFICATE & PERFORMANCE OF CONTRACTOR

(To be uploaded by the tendered)

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 behavior	Outstanding/Very Good/Good/Satisfactory/poor

Note: All columns should be filled in properly

* countersigned

*Officer of the rank of executive engineer or equivalent

FORMAT OF BANKERS' CERTIFICATE

(To be uploaded with the tender)

1. Composition of the firm (whether Partnership"/ Private Limited/ Proprietorship/ Public Limited.)
2. Name of the Proprietor/ Partners/ Directors of the firm.
3. Turnover of the firm for the last 3 financial years (year wise).
2024-25
2023-24
2022-23
4. Credit facility/ Overdraft facility enjoyed by the firm.
5. Dealings
6. The period from which the firm has been banking with your bank.
7. Any other remarks.

You may also kindly forward your opinion whether the above firm is considered financially sound to be entrusted with the contract for works estimated to cost Rs. 80.00 Lakhs.

(Signature)

For the Bank

Note:- 1. Bankers' certificates should be on letter head of the Bank and addressed to Regional Director, RBI, Estate Department, 15- N S Road, Kolkata -700 001
2. In case of partnership firm, certificate should include names of all partners as recorded with the Bank

FORMAT FOR POWER OF ATTORNEY FOR SIGNING OF PROPOSAL

(On Non-Judicial Stamp Paper of appropriate value)

(To be uploaded with the tender)

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 Design, Supply, Installation, Testing and Commissioning of Microprocessor Based Intelligent Analog Addressable Fire Alarm System for the Bank's Main Office Building ,RBI Kolkata-700001 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).

Annexure – E

Proforma for Bank Guarantee In Lieu Of Earnest Money Deposit

(To be furnished by the bidder before due date for EMD)

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

Place: _____

Date: _____

The Regional Director -----

Dear Sir,

Name of Work

.....
.....

Ref.: NIT/Advt.No. date

WHEREAS

The Reserve Bank of India, having its Regional Office at Kolkata (hereinafter called the 'RBI') has invited tenders for the captioned work (hereinafter called "the said tender") on the terms and conditions mentioned in the said tender documents. It is one of the terms of invitation of tenders that the tenderer shall furnish a Bank Guarantee for a sum of Rs. (Rupees only) as Earnest Money Deposit (EMD). M/s. (Name of the Tenderer/Bidder) _____, (hereinafter called as "the Tenderer/ Bidder"), who are our Clients/Constituents intend to submit their tender/ Bid for the said work and have requested us to furnish Bank Guarantee to RBI in respect of the said sum of Rs. (Rupees only) in respect of EMD.

NOW THIS GUARANTEE WITNESSETH

1. We (Name of the Bank) do hereby agree with and undertake to RBI, their Successors, Assigns that in the event of the RBI coming to the conclusion that the Tenderer have not performed their obligations under the said conditions of the tender or have committed a breach thereof, which conclusion shall be binding on us as well as the said Tenderer; we shall on demand by the RBI, pay without demur to the RBI, a sum of Rs. (Rupees only) or any lower amount that may be demanded by the RBI. Our guarantee

shall be treated as equivalent to the Earnest Money Deposit for the due performance of the obligations of the Tenderer under the said Conditions, provided, however, that our liability against such sum shall not exceed the sum of Rs. (Rupees only).

2. We also agree to undertake to and confirm that the sum not exceeding Rs. (Rupees only) as aforesaid shall be paid by us without any demur or protest, merely on demand from the RBI on receipt of a notice in writing stating that the amount is due to them and we shall not ask for any further proof or evidence and the notice from the RBI shall be conclusive and binding on us and shall not be questioned by us in any respect or manner whatsoever. We undertake to pay the amount claimed by the RBI within a period of one week from the date of receipt of the notice as aforesaid.

3. We confirm that our obligation to the RBI under this guarantee shall be independent of the agreement or agreements or other understandings between the RBI and the Tenderer.

This guarantee shall not be revoked by us without prior consent in writing of the RBI. We hereby further agree that –

a) Any forbearance or commission on the part of the RBI in enforcing the conditions of the said agreement or in compliance with any of the terms and conditions stipulated in the said tender and/or hereunder or granting of any time or showing of any indulgence by the RBI to the Tenderer or any other matters in connection therewith shall not discharge us in any way and our obligation under this guarantee. This guarantee shall be discharged only by the performance by the Tenderers of their obligations and in the event of their failure to do so, by payment by us of the sum not exceeding Rs. (Rupees only).

b) Our liability under these presents shall not exceed the sum of Rs. (Rupees only).

c) Our liability under this agreement shall not be affected by any infirmity or irregularity on the part of our said constituents/clients in tendering for the said work or their obligations there under or by dissolution or change in the constitution of our said constituents.

d) This guarantee shall remain in force upto (six months from the last date of receipt of tender) provided that if so desired by the RBI, this guarantee shall be renewed for a further period as may be indicated by them on the same terms and conditions as contained herein.

e) Our liability under these presents will terminate unless these presents are renewed as provided hereinabove on the or on the day when our said constituents comply with their obligations, as to which a certificate in writing by the RBI alone is the conclusive proof whichever date is later. Unless a claim or suit or action is filed against us within or any extended period, all the rights of the RBI against us under this guarantee shall be forfeited and we shall be released and discharged from all our obligations and liabilities hereunder.

Yours faithfully,

For and on behalf of Bank. Authorized Official (with seal)

(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

Proforma of Bank Guarantee for Security Deposit

(only to be furnished by successful bidder)

(On Non-Judicial Stamp Paper of appropriate value purchased in the name of the issuing bank)

Place: _____ Date: _____

To:

The Regional Director
Reserve Bank of India
Estate Department, 3rd floor.
15, N. S. Road
Kolkata- 700001

Dear Sir

Design, Supply, Installation, Testing and Commissioning of Microprocessor Based Intelligent Analog Addressable Fire Alarm System for the Bank's Main Office Building & Annex Building, RBI Kolkata-700001

WHEREAS Reserve Bank of India, having its Regional Office at Kolkata, (hereinafter called "the RBI") has awarded the Contract for the captioned project (hereinafter called the "Contract") to M/s _____ (Name of the Contractor) (hereinafter called "the said Contractor" which expression shall include its successors and assigns). AND Whereas the Contractor is bound by the said Contract to submit to RBI a Performance Security for a total amount of ₹. _____ (Rupees _____ only) (Amount in figures and words) for the due fulfilment by the said contractor of the terms and conditions contained in the contract. We, _____ (Name of the Bank), (hereinafter called "the Bank"), at the request of M/s _____, the contractor, do hereby undertake to pay to the RBI an amount not exceeding Rs _____ as Performance Guarantee for due fulfilment of the terms and conditions of the contract.

NOW THIS GUARANTEE WITNESSETH

1. We (Name of the Bank) do hereby agree with and undertake to RBI, their Successors, Assigns that in the event of the RBI coming to the conclusion that the Contractor has not performed his obligations under the said conditions of the contract or have committed a breach thereof, which conclusion shall be binding on us as well as the said contractor; we shall on demand by the RBI, pay without demur to the RBI, a sum of Rs. (Rupees only) or any lower amount that may be demanded by the RBI. Our guarantee shall be treated as equivalent to the Performance Guarantee Amount for the due performance of the obligations of the Contractor under the said Contract, provided, however, that our liability against such sum shall not exceed the sum of Rs. (Rupees only).

2. We also agree to undertake to and confirm that the sum not exceeding Rs. (Rupees only) as aforesaid shall be paid by us without any demur or protest, merely on demand from the RBI on receipt of a notice in writing stating that the amount is due to them and we shall not ask for any further proof or evidence and the notice from the RBI shall be conclusive and binding on us and shall not be questioned by us in any respect or manner whatsoever. The Bank shall pay to RBI any money so demanded notwithstanding any dispute/disputes raised by the Contractor in any suit or proceedings pending before any Court, Tribunal or Arbitrator/s relating thereto and the liability under this guarantee shall be absolute and unequivocal. We undertake to pay the amount claimed by the RBI within a period of one week from the date of receipt of the notice as aforesaid.

3. We confirm that our obligation to the RBI under this guarantee shall be independent of the agreement or agreements or other understandings between the RBI and the Contractor

4. This guarantee shall not be revoked by us without prior consent in writing of the RBI.

We hereby further agree that –

a) Any forbearance or commission on the part of the RBI in enforcing the conditions of the said agreement or in compliance with any of the terms and conditions stipulated in the said

Contract and/or hereunder or granting of any time or showing of any indulgence by the RBI to the Contractor or any other matters in connection therewith shall not discharge us in any way and our obligation under this guarantee. This guarantee shall be discharged only by the performance by the Contractor of their obligations and in the event of their failure to do so, by payment by us of the sum not exceeding Rs. (Rupees only).

b) Our liability under these presents shall not exceed the sum of Rs. (Rupees only) .

c) Our liability under this agreement shall not be affected by any infirmity or irregularity on the part of our said constituents/clients or their obligations thereunder or by dissolution or change in the constitution of our said constituents.

d) This guarantee shall remain in force upto--- (60 days beyond the Defect liability period and extended upto CAMC period) provided that if so desired by the RBI, this guarantee shall be renewed for a further period as may be indicated by them on the same terms and conditions as contained herein.

e) Our liability under these presents will terminate unless these presents are renewed as provided hereinabove on the or on the day when our said constituents comply with their obligations, as to which a certificate in writing by the RBI alone is the conclusive proof whichever date is later. Unless a claim or suit or action is filed against us within or any extended period, all the rights of the RBI against us under this guarantee shall be forfeited and we shall be released and discharged from all our obligations and liabilities hereunder.

In witness whereof I/We of the Bank have signed and sealed this guarantee on the -----
-- day of ----- (Month) (Year) being herewith duly authorized.

For and on behalf of _____ (Name of the Bank)

Signature of authorized Bank official

Name:

Designation

Stamp/ Seal of the Bank

Signed, sealed and delivered for and on behalf of the Bank by the above named in the presence of:

Witness 1

Signature

Name

Address

(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)

Annexure- G

Proforma for Letter of Authorization and Maintenance undertaking from the OEMs

(To be issued by the manufacturers of FACP on their letterhead and shall be uploaded by the bidder with the tender)

To

Date:

The Regional Director,
Reserve of India,
Estate Department
Kolkata

Subject: Design, Supply, Installation, Testing and Commissioning of Microprocessor Based Intelligent Analog Addressable Fire Alarm System for the Bank's Main Office Building & Annex Building RBI Kolkata-700001,

Sir,

We _____, (name and address of the manufacturer) the manufacturers of _____ having factories at _____ (addresses of manufacturing / development locations) do hereby authorize M/s _____ (name and address of the tenderer) to bid, negotiate and conclude the contract with you against the above mentioned tender for the equipment manufactured by us.

In the unlikely event of M/s _____ (tenderer) not remaining our authorised dealer, we, the original equipment manufacturer, shall continue to provide support for the products manufactured by us and provided under the scope of the captioned project, either directly or through any of dealer inducted by the Bank for Maintenance of above system, in terms of providing spares/ updates / technical man power etc. i.e. service to your satisfaction, for minimum up to 10 years from the date of virtual completion of the captioned work.

Yours faithfully,

For and on behalf of

M/s _____ (Name of the manufacturer)

Seal and Signature:

Name:

Designation:

Address:

Proforma for providing input for NEFT Payment

RTGS/NEFT/ECS – MANDATE AUTHORISATION FORM

1. Supplier's / Vendor's Name:

2.

3. Supplier's / Vendor's Name as per Bank Records:

Supplier's / Vendor's Name as per Bank Records:				
--------------------------------------------------------	--	--	--	--

[illegible]

3A. Supplier's Code

--	--	--	--	--

3B. Supplier's PAN Number: #

[illegible]

Quoting PAN No. in all the e-returns has become 100% mandatory w.e.f. 14-02-2008, hence ensure to fill- up this and also send a photocopy of PAN duly self-attested. If there is any difference between the name given in the supplier's name and name given in the PAN card, then a note to explain the reason for the difference and the correlation between both.

4.	Supplier's / Vendor's Complete Postal Address:
----	-------------------------------------------------------

4. Supplier's / Vendor's Complete Postal Address:								
----------------------------------------------------------	--	--	--	--	--	--	--	--

Door
No.

[illegible]

Street:

Location
:[illegible]

District:

City:

City:							State									PIN						
-------	--	--	--	--	--	--	-------	--	--	--	--	--	--	--	--	-----	--	--	--	--	--	--

PIN

5.	Supplier's / Vendor's E-mail ID:
----	----------------------------------

[illegible][illegible]

6.	Supplier's / Vendor's Telephone Number & Mobile Phone Number:
----	---------------------------------------------------------------

6.	Supplier's / Vendor's Telephone Number & Mobile Phone Number:
----	---------------------------------------------------------------

M	
---	--

[illegible]

7.	Name of the Bank:
----	-------------------

[illegible][illegible]

8.	Bank (Branch) Postal
----	----------------------

[illegible]

**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
3rd floor, Estate Department,
15, N. S. Road
Kolkata- 700001

Dear Sir

**NAME OF WORK: Design, Supply, Installation, Testing and Commissioning of
Microprocessor Based Intelligent Analog Addressable Fire Alarm System for the
Bank's Main Office Building & Annex Building RBI Kolkata -700001.**

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, 3rd floor.
15, N. S. Road, Kolkata- 700001

Dear Sir,

NAME OF WORK: Design, Supply, Installation, Testing and Commissioning of Microprocessor Based Intelligent Analog Addressable Fire Alarm System for the Bank's Main Office Building & Annex Building RBI Kolkata -700001.

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:

Annexure – K

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, 3rd floor.
15, N. S. Road
Kolkata- 700001

Name of Work: Design, Supply, Installation, Testing and Commissioning of Microprocessor Based Intelligent Analog Addressable Fire Alarm System for the Bank's Main Office Building & Annex Building RBI Kolkata -700001.

I / We (Name and address, including Country of location of bidder) have read and understood the contents of the Office Memorandum (OM) F. No. 6/18/2019-PPD dated July 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. 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 development 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 even in case of contracts where we are permitted by the Bank /RBI to sub-contract I/we(Name of bidder) will not sub-contract any work to a contractor from country (ies) sharing land border with India, unless such contractor fulfils all the requirements contained in the above referred office memorandum / order.

4. I/We know and understand that, if this Undertaking / Declaration / Certificate submitted by us found to be false, Bank shall be free to reject / terminate our tender / Work Order and that the 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 Bidder

With Rubber Stamp

Date:

Place:

Annexure-L

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: Design, Supply, Installation, Testing and Commissioning of Microprocessor Based Intelligent Analog Addressable Fire Alarm System for the Bank's Main Office Building & Annex Building RBI Kolkata -700001.

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.

Bidder's Eligibility Criteria:

1) Date of incorporation/ registration --

(Copy of certification of incorporation /registration to be attached)

2) Details of the works of **SITC of Addressable Fire Alarm System** and its completion certificate (of any amount) to be attached to prove the **experience of five years** (as per clause 2(ii) of NIT) in this field (Date of work order should be on or before October 31, 2020)

S. No.	Name of work and location	Name, Address and Contact details of the Client	Work order ref. No. & date	Contract amount	Stipulated date of completion	Actual date of completion	Any other relevant information including reason, if any, for delay in completion of work.
1.	2.	3.	5.	6.	7.	8.	10.

3) Details of the works of **SITC of Addressable Fire Alarm System** executed by the applicant **during last Five years** (work completed on or after November 01, 2020 and on or before October 31, 2025) to be considered for meeting the **eligibility criteria of minimum value of work** (as per clause 2(iv) of NIT):

S. No.	Name of work and location	Name, Address and Contact details of the Client	Work order ref. No. & date	Contract amount (should not be less than Rs. 32 Lakh)	Stipulated date of completion	Actual date of completion	Any other relevant information including reason, if any, for delay in completion of work.
1	2.	3.	5.	6.	7.	8.	10.

4) Details of Existing Service Centre(s):

S. No.	Location of Service Centre	Full Address	Established Since	Type of Service Centre (service centre / spare depo)	Government Registration Number
1.	2.	5.	6.	7.	8.

5) Yearly **Turn-over** during last three financial years

S. No.	Financial Year	Turnover	Net Worth
1	2022-2023		
2	2023-2024		
3	2024-2025		

Proforma of the tenderer's Confirmation of technical sufficiency to deliver the objective of proposed Fire Alarm system

Date:

To
The Regional Director
Reserve Bank of India
3rd floor, Estate Department,
15, N. S. Road
Kolkata- 700001

Subject: Confirmation of technical sufficiency of design to deliver the objective of proposed Fire Alarm system

Sir,

We have examined the objective, technical specifications and bill of quantities indicated in the tender for the proposed Fire Alarm system. After examining the same, we confirm that the technical specifications and the bill of quantities set out in the tender are sufficient to implement and deliver the stated objective of the tender. In case of any improvement is required to achieve the stated objective, the same will be provided without any additional cost to Bank.

Yours faithfully,

For and on behalf of
M/s _____ (Name of the tenderer)

Signature :

Name :

Designation :

Address :

Date :

Company Seal

**Proforma for Undertaking / Declaration / Certificate by the OEM of Fire Alarm system
regarding country sharing land border with India**

To,
The Regional Director
Reserve Bank of India
3rd floor, Estate Department,
15, N. S. Road
Kolkata- 700001

Date:

Ref: Design, Supply, Installation, Testing and Commissioning of Microprocessor Based Intelligent Analog Addressable Fire Alarm System for the Bank's Main Office Building & Annex Building RBI Kolkata -700001.

Sir,

I / We (*Name and address, including Country of location of the OEM*) have read and understood the contents of the Office Memorandum (OM) F. No. 6/18/2019-PPD dated July 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. I / We certify that (*Name of the OEM*)

- a) is not from a country sharing land border with India, or
- b) is from a country sharing land border with India and has been registered with the Competent Authority, the certificate of which is enclosed, or
- c) is from a country sharing land border with India where Government of India has extended lines of credit, or
- d) is from a country sharing land border with India where Government of India is engaged in development projects.

(*Strikeout whichever of the above is not applicable*).

3. I / We further certify that (*Name of OEM*) 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 even in case of contracts where we are permitted by the Bank/RBI to sub- contract I/we (*Name*

of OEM) will not sub-contract any work to a contractor from country(ies) sharing land border with India, unless such contractor fulfils all the requirements contained in the above referred office memorandum / order.

4. I/We know and understand that, if this Undertaking / Declaration / Certificate submitted by us is found to be false, the Bank shall be free to reject / the product offered / supplied under this tender / Work Order and that the Bank shall also be free to initiate any legal action in accordance with law including and / or debarring us from participating in tenders invited by the Bank in future.

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

Date:

Place:

PART II (unpriced Bid / Bill of Quantity)

e-Tender no: - RBI/Kolkata Regional Office/Estate/20/25-26/ET/648[DSITC -Fire Alarm
Sys BMOP RBI]

Name of work: - Design, Supply, Installation, Testing and Commissioning of Microprocessor Based Intelligent Analog Addressable Fire Alarm System for the Bank's Main Office Building & Annex Building RBI Kolkata -700001.

S. No.	Description of Item	Unit	Quantity
1	<p><u>Fire Alarm Control Panel:</u> Supply, Installation, Testing and Commissioning of Microprocessor based Intelligent analogue addressable Fire Alarm Control Panel (FACP) having minimum 15 loops. The Panel shall have minimum 6 inch LCD/LED display or touchscreen (minimum 640 character). Each loop card shall have a capacity of minimum 159 analog addressable detectors and 90 devices..</p> <p>It shall have multi access levels, flash EPROM, 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 / Fire 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.</p> <p>Cost of FAS panel shall include all the loop cards, Interface cards, control cards, power control cards, etc. as per technical specification mentioned in the Part-I of the tender all complete and as directed by Bank's Engineer.</p> <p>The Panel shall be listed for latest edition UL864/ EN54 / VDS or equivalent Indian certification.</p>	Nos.	1
2	<p><u>Network Control Station (NCS):</u> Supply, Installation, Testing and Commissioning of the Networked Graphic software / Network Control Station (NCS) with the following hardware software for</p>	Nos.	1

S. No.	Description of Item	Unit	Quantity
	<p>control and monitoring of the Fire Alarm system.</p> <p>Fire Graphic software, Microsoft windows 11 licensed version operating system including antivirus having liscence key valid upto CAMC period with real-time fire system status and system control options. The software shall interface directly to the fire system network Gateway.</p> <p>Fire Graphic Software must be capable of graphically representing each facility being monitored with floor plans and icons depicting the actual locations of various systems and / or sensors' locations. The software should accommodate current devices with 5000 points (minimum). The software with PC shall be in fire control location / room.</p> <p>Including supply of 1 no desktop computer / workstation / PC with for NCS with processor duel core Intel® i7 or latest version with 2.0 GHz speed, 8 GB RAM, Disk : 1TB Minimum - 15000 RPM, 1 GB Ethernet Port, Optical mouse, Multimedia Keyboard, Speakers, Preloaded Windows 11 and Antivirus Software, Ethernet card, PCI slot, RS-232 serial COM port, Laser jet Printer and 32" Flat Screen LED monitor. 2TB NVIDIA Graphics card or OEM standards (whichever is better to be considered)</p> <p>Cost shall include all programming charges, software/license upgradation, interface module with other and its components, etc. all complete and as per technical specification mentioned in the Part-I of the tender and as directed by Bank's Engineer.</p>		
3	<p><u>Repeater Panel:</u> Supply, Installation, Testing and Commissioning of Repeater Panel complete with minimum suitable display or touchscreen to indicate the status of system and location of incident etc., back-box and control function. It shall be UL / EN 54 Listed as per technical specification mentioned in the Part-I of the tender all complete and as directed by Bank's Engineer.</p>	Nos.	2
4	<p><u>Multi sensor detector:</u> Supply Installation testing and Commissioning(SITC) of Intelligent Addressable type multi sensor detector below or above false ceiling (Photo + Fixed Tempt. + Rate of Rise Tempt.) with base for use as heat or smoke or combined both automatic electronic addressing, microprocessor type with operating temperature from -20°C to +</p>	Nos.	950

S. No.	Description of Item	Unit	Quantity
	60°C. Detector shall have auto learn, drift compensation etc.		
5	<u>Beam Detector:</u> Supply, Installtion, Testing and Commissioning of Addressable Beam Detector complete with required module(s) including all accessories required for fixing, termination of cable as per technical specification mentioned in the Part-I of the tender and as directed by Bank's Engineer.	No.	4
6	<u>LPG Detector:</u> Supply, Installation, Testing and Commissioning of UL / EN 54 Listed Addressable LPG Detector with inbuilt isolator for the LPG Gas Bank complete with required module including all accessories required for fixing, termination of cable all complete as per technical specification mentioned in the Part-I of the tender all complete and as directed by Bank's Engineer.	Nos.	4
7	<u>Manual Call Station :</u> Supply, Installation, Testing and Commissioning of Addressable Dual Action Manual Call Station, including all accessories required for fixing, required module at FACP, termination of cable all complete as per technical specification mentioned in the Part-I of the tender all complete and as directed by Bank's Engineer.	Nos.	50
8	<u>Hooter cum Strobe Lights :</u> Supply, Installation, Testing and Commissioning of Addressable loop powered Hooter cum Strobe Lights with 110 candelas / 1 Hz Frequency output complete with modules. Including all accessories required for fixing of hooter on true ceiling / false ceiling, termination of cable all complete as per technical specification mentioned in the Part-I of the tender all complete and as directed by Bank's Engineer.	Nos.	55
9	<u>Addressable Control Modules:</u> Supply, Installation, Testing and Commissioning of Addressable Control Modules for synchronization with FACP with AHUs / fire dampers etc. in each floor as per technical specification mentioned in the Part-I of the tender all complete and as directed by Bank's Engineer.	Nos.	24
10	<u>Response Indicator (RI):</u> Supply, Installation, Testing and Commissioning of Response Indicator (RI), including all accessories required for fixing of Indicator on false ceiling, termination of cable all complete. As per Technical specification mentioned in the Part-I of the tender all complete and as directed by Bank's Engineer.	Nos.	220

S. No.	Description of Item	Unit	Quantity
11	<u>FRLS Standard copper conductor cable:</u> Supply and laying of 2 x 1.5 sq.mm twisted armoured RED coloured FRLS Standard copper conductor cable for Fire Loop etc. on ceiling/walls/trays including concealed drops with all hardware accessories (e.g., clamps, lugs, cable numbering plates, saddles, spacers, glands, etc) and fixing materials. As per Technical specification mentioned in the Part-I of the tender all complete and as directed by Bank's Engineer.	Meter	8,000

Place:

Date.

Signature of the Tenderer with seal.