

TENDER DOCUMENT
FOR
PURCHASE AND INSTALLATION OF FIRE DETECTION AND ALARM SYSTEM
FOR
NEW BIOLOGICAL SCIENCE BUILDING.
INDIAN INSTITUTE OF SCIENCE, BANGALORE 560012

(Expansion of Existing fire detection and alarm system)

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Contact Details:

The Chair, Fire Purchase Committee

Office of Laboratory Safety & Environmental Health (OLSEH), Near Unit 1b,
Chokshi hall Indian Institute of Science Bangalore - 560012

Email: dharmendras@iisc.ac.in

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2 Short Summary

IISc Bangalore invites Indian OEM or its authorized Indian distributor / partner are invited to submit their bid in INR only installation of Fire detection and Alarm system with all its accessories for the purpose of expansion of existing fire detection and alarm system of the building of New Biological Science at IISc campus, Bangalore 560012.

The bids must be addressed to

The Chair, Fire Purchase Committee

Office of Laboratory Safety & Environmental Health (OLSEH),

Near Unit 1b, Choksi hall Indian Institute of Science Bangalore - 560012

Email: - dharmendras@iisc.ac.in

2.1 Important Information:

Tender document Reference Number	Tender : IISc/Purchase/FFE/2020-21/04
Availability of RFQ document	Tender document will be available on our IISc website www.iisc.ac.in/tender from 12th May 2021. The RFQ may be downloaded from the Tender Section of Indian Institute of Science website by the Bidders. No hard copy of the RFQ will be made available by the IISc.
Last date of submission of any query / reporting any error	2 nd June, 2021 by 03:00pm. ALL QUERIES TO BE SUBMITTED THROUGH EMAIL ONLY ON dharmendras@iisc.ac.in
Due date/time	Bid Submission: 2 nd June 2021 by 03:00 PM. Late RFQ will not be accepted under any circumstances including postage delay.
Date and Time of Technical bid Opening	10 th June at 03:30 PM
Contact person	Safety Officer, Mr. Dharmendra Singh Email: dharmendras@iisc.ac.in Tel: 080-22933199
Validity of Offer	The offer should be valid for period of 90 days from the last date for submission of the offer

2.2 Important Definitions

Following terms are used in the document interchangeably to mean:

1. IISc means "Indian Institute of Science".
2. Recipient, Respondent and Bidder, Vendor, means "Respondent to the RFQ Document".
3. Tender means RFQ response documents prepared by the Bidder and submitted to **IISc**.

2.3 Disclaimer

1. IISc reserves the right to reject any / all applications without assigning any reason whatsoever.
2. The above dates are tentative and subjected to change without any prior notice or intimation

3. Bidders should check our website www.iisc.ac.in/tender for any changes / addendums to the above dates and / or any other changes/ update to this RFQ). Bidders are requested to keep themselves updated through our said website from time to time.
4. Please note that Financial Bids will be opened for only those service providers who qualify in the Technical bid stage
5. This tender document is not an agreement and is neither an offer nor invitation by the IISc to the prospective Bidder/s or any other person or entity. The purpose of this RFQ is to provide interested parties with information that may be useful to them in the formulation of their bids pursuant to this tender.
6. This tender document may not be appropriate for all persons, and it is not possible for the IISc, its employees or advisors to consider the investment objectives, financial situation and particular needs of each party who reads or uses this RFQ. While all care has been taken to keep the assumptions, assessments, statements, and information contained in this RFQ as relevant, complete, accurate, adequate, and correct, it may not be taken as final.
7. The bidder must submit the bid as per the terms and condition of this document. The BOQ is enclosed with this document. The BOQ is prepared based on the drawing and the entire system has to be installed as per the above mentioned drawing. During the time of execution of the work, if there is any change/deviation required, the same has to be put up in writing and approval should be obtained from IISc before carrying out the work. However, the drawing will be provided only to the successful bidder once the contract is finalised in all respect.
8. Once the job is completed the contractor has to prepare an as built drawing and submit the same to IISc , duly signed and approved by our consultant .

2.4 Confidentiality

This document is meant for the specific use by the Company / persons interested to participate in the current tendering process. This document in its entirety is subject to Copyright Laws. IISc expects the bidders or any person acting on behalf of the bidders to strictly adhere to the instructions given in the document and maintain confidentiality of information. The bidders will be held responsible for any misuse of the information contained in the document and liable to be prosecuted by the IISc. In the event of such a circumstance is brought to the notice of the IISc. By downloading the document, the interested party is subject to confidentiality clauses.

3 Technical Requirements

3.1 Introduction

1. This tender document has been prepared for the purpose of selecting Vendors / Service Providers for purchase and installation of fire detection and alarm system for the building of New Biological Science of IISc . Bangalore. **This project is an expansion of existing fire alarm system. At present EST-3 fire detection system is in place. Since the task is of expansion of the existing system, the offer for fire detection and alarm system must be of the same make (EST-3) and compatible with the existing system. The existing system is already upgraded to the latest version -5.40.**



Photograph of the present system.

2. In response, Indian Institute of science seeks a detailed technical and commercial proposal from the experienced service providers having experience in similar type of activity.
3. Initially contract will be awarded to successful bidder to supply and installation of the fire detection and alarm system.

3.2 Eligibility

1. The vendor must have a **minimum of five years' experience** in commissioning and maintenance of fire detection and alarm system.
2. **Its Mandatory that Vendor must be Indian OEM or its authorized Indian distributor / partner are invited to submit their bid in INR only.**
3. The vendor should be an authorised vendor by the OEM and along with the bid , the certificate from the OEM must be enclosed to this affect . The bidder shall visit the site before offering the bid and study the existing system. Non-tendered items at the later stage will not be entertained.
4. In the past three years the vendor should have installed/carried out the expansion/repair/maintenance work of **three similar systems**, (Edwards- EST-3 , for which the repair /AMC cost of each system should not be less than 10 lakhs).
5. The bidder should have minimum average yearly turnover of Rs. 5 **crores** or above over last four financial years.
6. The bidder should have a solvency capability of 2 Crores or above. In this regard a certificate from the banker/ CA to be enclosed.
7. **Work Executed.** The bidder shall have carried out similar work during last 05 financial years as under:
 - a. Installation of fire detection System.
 - b. Maintenance of the fire detection and Alarm system (AMC/On Call) for past five years. (Relevant document should be enclosed with the bid)
8. **Product Certification.** The bidder should produce the certificate from the OEM/authorised dealer of the OEM, that the bidder will get all the technical support from the OEM for executing above job.
9. **Performance Certificate:** The applicant should submit a "Satisfactory Performance Certificate" from two Companies/Entities where the applicant has done installation/maintenance of Fire detection and alarm systems. If the bidder has done similar work in the IISc , then there is no requirement of enclosing the certificate.
10. **Manufacture authorisation: As mentioned above (Point No -2)** Bidder shall submit specific manufacturer's authorisation (Written letter from the manufacturer) for this project along with the bid.
11. **Supply & Installation:** The applicant should be able to supply and install the products for which empanelment is sought by themselves. No subletting of the work is permissible.

12. **Past Record:** The applicant should not have been blacklisted by any PSU/PSB/Govt. Organization in past 5 years or services terminated due to poor performance. A certificate be submitted stating that the company/firm or its owner or any sister concern have not been blacklisted. (Annexure A)
13. If IISc has issued a dissatisfactory letter / termination of work contract due to dissatisfactory services to the agency the bid of the company will be rejected.

3.3 Scope of Work

1. The agency shall supply and install a fire detection and alarm system in the building of New Biological Science and **integrate the same with the existing fire alarm system** at IISc. campus, C V Raman Road – Bangalore.

3.4 Technical specification of the product:

The technical specification of the product and other accessories are given below.

FIRE ALARM CONTROL PANEL: Edwards EST-3 - 08 Loop Addressable, Microprocessor based Fire Alarm Control Panel FM Approved with redundant CPU, capable of being networked with other Fire alarm control panel & Repeater panel in the central monitoring Station. The panel shall be with LCD display, zone indicating LEDs as per the detailed specification. Include the cost of inbuilt battery enclosure and battery to last for duration of operation as recommended by NFPA standard with charger for each panel. Vendor shall submit detailed battery calculations. Each loop should have at least 125 Detector & 125 devices and maximum loop length shall be 1200m. FACP shall have RS-485 Port / IP provision. The secondary power supply shall have sufficient capacity to operate the system under quiescent load for minimum of 24 hours and shall be capable of operating the system during a fire or other emergency condition for a period of 15 minutes at maximum connected load. The vendor shall provide detailed battery calculation for the secondary power supply for the panel. Include the Network card).

REPEATER PANEL: EST-3 Repeater panel, FM Approved. Shall be connected to the FACP through a RS485 communication & shall be supplied with necessary interface cards for connecting to FACP. The Panel shall have minimum 2 x 40 characters back lit LCD display which will repeat all the events, alarms, messages displayed by the FACP. Panel will have inbuilt memory to record the event. LCD display annunciators shall mimic the main control panel 80 character displays and shall Not require special programming Repeater Panel shall have the following LEDs for displaying System Status DC Power, Fault ,Fire with necessary battery backup for 24 hrs operation. Panel shall have dedicated buttons for Switches for system acknowledge, alarm silence, and system reset, Etc

MULTI SENSOR DETECTOR WITH STANDARD BASE: Analogue Addressable multi sensor Detector, employing multiple sensing technology to respond to multiple physical stimulus including dust, heat, smoke etc., FM Approved, with Normal/Fire indicating LEDs. The sensor should generate multiple alarm signals & capable of distinguish between a legitimate change of state and adverse ambient conditions that may cause nuisance alarm. The standard base should be provided with the detector.

HEAT DETECTOR WITH STANDARD BASE: Analog Addressable Heat Detector, employing sensing technology to respond to physical stimulus Heat, FM Approved, with Normal/Fire indicating LEDs. The sensor should be rate of rise to generate alarm signals & capable of distinguish between a legitimate change of state and adverse ambient conditions that may cause nuisance alarm. The standard base should be provided.

MANUAL CALL POINT: Double action addressable “Manual Call Points” (MCP), FM Approved. The scope include the supply of suitable GI rough-in box with GI back plate to mount MCP in wall / column with flush or surface mounting accessories with cable gland, clamps/brass screws etc. (Break Glass Type)

HOOTER WITH STROBE LIGHT: Notification Appliance - Hooter with Strobe light, FM Approved, with necessary mounting accessory, GI rough-in box (for wall / true Ceiling and False ceiling mounting).For Wall Mounting back box required.

RELAY MODULE: Addressable Bell Relay Modules, FM Approved. Bell relay module shall be used for activating Notification devices.

FAULT ISOLATOR MODULE (FIM): Fault Isolator Module, FM Approved. Isolator module shall be used to monitoring shorted loop circuit and automatically restore communications when shorted conditions are corrected. FIM’s are used one for every 20 Detector’s & Devises.

INPUT MODULE: Addressable Input Modules , FM Approved, Inputs modules shall be used for Monitoring the Power supply units, Aspiration system (fire & fault status), Gas suppression system (fire, fault & release status), Flow switch, Alarm check valve, Zone & floor control valve and base builder integration.

CONTROL MODULE: Addressable Control Relay Modules, FM Approved with necessary interposing relays. Control module shall be used for emergency control functions including shutting down Fire dampers in AHU's, tripping of AHU's, tripping of Access.

Response Indicators: Response Indicators with Single LED.

Hooter Power supply: 24v DC 10A

Junction Box: Junction Boxes to fix the smoke detectors, with 2"x2" MS box, thickness of 1.6mm Red coloured powdered coated with Glands for above detectors

Cables: FRLS 2Cx 1.5 sq.mm CABLE (ARMOURED) . Fire Retardant Low Smoke (FRLS),BS Approval, 2 Core x 1.5 sqmm size Annealed Tinned Copper multi strands, PE Insulation, Inner PVS Sheathed, Outer PVC FRLS, 1100 Voltage rating, GI Armoured cable with terminal legs, clamping accessories. Distance between each clamp's is 610mmm (2 feet).

4 BOQ

BOQ - FIRE DETECTION AND ALARAM SYSTEM -NBSc BUILDING -EXPANSION			
SI No	Item Description	Make/ Model	Qty
A	FIRE ALARM SYSTEM- MAIN COMPONENTS		

1	<p>FIRE ALARM CONTROL PANEL :- 08 Loop Addressable, Microprocessor based Fire Alarm Control Panel FM Approved with redundant CPU, capable of being networked with other Fire alarm control panel & Repeater panel in the central monitoring Station. The panel shall be with LCD display, zone indicating LEDs as per the detailed specification. Include the cost of inbuilt battery enclosure and battery to last for duration of operation as recommended by NFPA standard with charger for each panel. Vendor shall submit detailed battery calculations. Each loop should have at least 125 Detector & 125 devices and maximum loop length shall be 1200m. FACP shall have RS-485 Port / IP provision. The secondary power supply shall have sufficient capacity to operate the system under quiescent load for minimum of 24 hours and shall be capable of operating the system during a fire or other emergency condition for a period of 15 minutes at maximum connected load. The vendor shall provide detailed battery calculation for the secondary power supply for the panel.</p>	Edwards EST3X	1
a	Network card for Existing panel	Edwards	1
2	<p>REPEATER PANEL: - Repeater panel, FM Approved. Shall be connected to the FACP through a RS485 communication & shall be supplied with necessary interface cards for connecting to FACP. The Panel shall have minimum 2 x 40 characters back lit LCD display which will repeat all the events, alarms, messages displayed by the FACP. Panel will have inbuilt memory to record the event. LCD display annunciators shall mimic the main control panel 80 character display and shall Not require special programming Repeater Panel shall have the following LEDs for displaying System Status DC Power, Fault, Fire with necessary battery backup for 24 hrs operation. Panel shall have dedicated buttons for Switches for system acknowledge, alarm silence, and system reset , Etc</p>	Edwards 3-LCDANN RLCM/B-S	1
3	<p>MULTI SENSOR DETECTOR WITH STANDARD BASE: Analog Addressable multi sensor Detector, employing multiple sensing technology to respond to multiple physical stimulus including dust, heat, smoke etc., FM Approved, with Normal/Fire indicating LEDs. The sensor should generate multiple alarm signals & capable of distinguish between a legitimate change of state and adverse ambient conditions that may cause nuisance alarm. The standard base should be provided with the detector.</p>	Edwards SIGA-PHD SIGA-SB	450
4	<p>HEAT DETECTOR WITH STANDARD BASE: Analog Addressable Heat Detector, employing sensing technology to respond to physical stimulus Heat, FM Approved, with Normal/Fire indicating LEDs. The sensor should be rate of rise to generate alarm signals & capable of distinguish between a legitimate change of state and adverse ambient conditions that may cause nuisance alarm. The standard base should be provided.</p>	Edwards SIGA-HRD SIGA-SB	RO
5	<p>MANUAL CALL POINT: Double action addressable "Manual Call Points" (MCP), FM Approved. The scope include the supply of suitable GI rough-in box with GI back plate to mount MCP in wall / column with flush or surface mounting accessories with cable gland, clamps/brass screws etc.</p>	SIGA-278	162

6	HOOTER WITH STROBE LIGHT: Supply, Installation, Testing and Commissioning of Notification Appliance - Hooter with Strobe light, FM Approved, with necessary mounting accessory, GI rough-in box (for wall / true Ceiling and False ceiling mounting).	Edwards G1RF-HDVM	167
7	RELAY MODULE: Addressable Bell Relay Modules, FM Approved. Bell relay module shall be used for activating Notification devices.	Edwards SIGA-CR	5
8	FAULT ISOLATOR MODULE(FIM): Fault Isolator Module, FM Approved. Isolator module shall be used to monitoring shorted loop circuit and automatically restore communications when shorted conditions are corrected. FIM's are used one for every 20 Detector's & Devises.	Edwards SIGA-IM	25
9	INPUT MODULE: Supply, Installation, Testing, and Commissioning of "Addressable Input Modules" FM Approved, Inputs modules shall be used for Monitoring the Power supply units, Aspiration system (fire & fault status), Gas suppression system (fire, fault & release status), Flow switch, Alarm check valve, Zone & floor control valve and base builder integration.	Edwards SIGA-CT1	10
10	CONTROL MODULE: Supply, Installation, Testing, and Commissioning of "Addressable Control Relay Modules", FM Approved with necessary interposing relays. Control module shall be used for emergency control functions including shutting down Fire dampers in AHU's, tripping of AHU's, tripping of Access control systems	Edwards SIGA-CC1	167
11	Supply, installation, testing and commissioning of Response Indicators with Single LED.	Ravel RE-RI	250
12	Hooter Power supply 24v DC 5A	Micro power	25
13	Supply & Installation of Junction Boxes to fix the smoke detectors, with 2"x2" MS box, thickness of 1.6mm Red coloured powdered coated with Glands for Above detectors		750
B	CABLE & ACCESSORIES		
1	FRLS 2Cx 1.5 sq.mm CABLE (ARMOURED) : Supply, laying, and Terminating of Fire Retardant Low Smoke (FRLS),BS Approval, 2 Core x 1.5 sqmm size Annealed Tinned Copper multi strands, PE Insulation, Inner PVS Sheathed, Outer PVC FRLS, 1100 Voltage rating, GI Armoured cable with terminal legs, clamping accessories. Distance between each clamp's is 610mmm (2 feet).	Varsha	6000
2	Supply and installation of PVC Truff 100/100	MK	20
3	Supply and installation of flexible hose	Reputed	200

C	SERVICE		
1	Project Management		1
2	Testing and Commissioning Charges		1
3	Engineering Drawings and Drafting		1

5 Submission of bid

5.1 5.1 ENVELOPE No.1

The envelope for Technical Bid, "ENVELOPE No.1" shall be super scribed, "TECHNICAL BID for OFFER LETTER for supply and installation of Fire detection and alarm system at Biological Science Main Building - IISc Bangalore-560012.

Shall contain the following: Information as per the Performa **"MANDATORY TECHNICAL REQUIREMENT"** along with copies of the required / supporting documents (Self Attested) as per the **Annexure – B.**

5.2 ENVELOPE No.2

The envelope containing Financial Bid, "ENVELOPE No.2" shall be super scribed "FINANCIAL BID for OFFER LETTER for supply and installation of Fire detection and alarm system at Biological Science Main Building - IISc Bangalore-560012.

Rates for supply and installation of Fire detection and alarm system at Biological Science Main Building - IISc Bangalore (**Annexure – C**) given in the Tender Document **Excluding GST**. Submission of Financial Bid In any format other than the provided format or including any attachment other than the Financial Bid as per the format will not be accepted and the Bid will be rejected.

6 Tender Evaluation

6.1 Process

Bids will be evaluated based on compliance with eligibility, technical specification, other terms and conditions stipulated in the tender document.

1. The bids must be submitted in two parts (under two-cover bid system).
2. Technical Bid (in a single file PDF document format)- As per annexure B
3. Financial Bid or Price Bid (As per Annexure-C).
4. The technical bids will be evaluated first. Incomplete information submission shall attract disqualification.
5. The technical bids of all bidders shall be scrutinized and evaluated by IISc based on eligibility criteria and qualifications as per details provided along-with documents by the bidder in their technical bid. IISc may ask for additional clarification / details / documents / technical presentation etc. For the purpose, any date fixed by IISc, will be final and binding. Decision of IISc, regarding technical evaluation and declaration of technically qualified bidders, will be final and binding.
6. Financial Bids (Price Bid) of only those bidders will be opened, who will be declared technically qualified. Decision of IISc, in this regard, will be final and binding.
7. The price bids (submitted as per annexure-C) of the technically qualified bidders will be evaluated based on the criteria defined below. A comparative chart will be prepared by IISc based on the scoring system given below. The bid with highest total score in sum of marks of Group-A to J as per the methodology provided here shall be declared L-1 bidder and will be issued letter of intent / purchase order. If more than one bid is found to be L-1 in the overall score (sum of the marks of the ten groups – A to C then the bid with the higher discount rate offered for Group-A will be declared as L-1 bid. In case of a tie in the discount rate for Group-A also, the higher total marks in Group-B will be declared as L-1 bid. **Decision of IISc with regard to evaluation of financial bids, calculations of marks and scores and declaration of bidders' ranking will be final and binding.**
8. Note the definition of L1 has changed under the latest rules of GFR. The class of the vendor affects the selection of L1. This tender will follow GFR as they stand on the date of tender release.
9. Bidders other than L-1 bidder, who are ready to match the L-1 bidder's price in all items (for group-A to C) (wherever their offered rate is higher), may be empanelled subject to submission of a formal letter before fulfilling of other conditions viz. performance security, Fidelity Guarantee Bond etc. Other bidder(s) may be empanelled for the purpose of having multiple agencies for distribution of workload between the empanelled agencies. IISc will have sole discretion for work distribution. However, IISc does not guarantee minimum workload. Decision of IISc will be final and binding in this regard.

6.2 Selection of L1

1. Charges which are normally claimed and rates which are sought to be quoted by the bidder are classified in ten groups (A to C) for the purpose of comparison among different bidders. Each Bidder, depending upon its quoted rates will be given marks from 0-100 in each group as per defined marking pattern in the respective group. Finally, different weightage will be given to the marks obtained in each group to calculate the Total Score of each bidder as follows: -

Group	Weight age out of 100
A (Main Components)	40
B (Cable and accessories)	35
C (Services)	25

- a. Following Formula will be used to arrive at Total Score of a Bidder:
- b. Total = $\frac{A*40+B*35+C*25}{100}$
- c. Where A to J are marks obtained in respective groups. Bidder with maximum total score here shall be ranked L-1 and so on).
- d. Marks of a Bidder in an Item in a Group = $\left(\frac{L}{R}\right) * M$ where L is Lowest Rate Quoted in that category / Item among all bidders, R is Rate quoted by the Bidder in that category / Item, and M is Max. marks allotted for that category / item)
2. L1 will be decided after opening the financial bids subject to all eligibility criteria.
3. **The total charges stated for Annexure C will be considered for financial evaluation of the Financial Bid of the tender.** The Total cost of the above for three years including the annual increase will be calculated and considered for evaluation of the Financial Bid.
4. Note:
 - i. * denotes in the above formulae multiplication.
 - ii. Values will be rounded up to two points after decimal.
 - iii. Discounts/Concessions subject to any conditions imposed by the Bidder will be rejected.
 - iv. Details of Group-A to C are provided in the annexure-C.
 - v. Scoring will be done only for those bidders, whose price bids will be opened. Scoring and Marking for all groups will be done by IISc only. Decision of IISc about calculations will be final and binding.

7 Terms & Conditions and Other Details

7.1 Cancellation of Bids

1. IISc reserves the right to reject a tender under any of the following circumstances:-
 - a. If this RFQ document is not submitted or submitted without seal & signature of the Vendor in any of the pages.
 - b. If Tender Documents are incomplete and /or not accompanied by all stipulated documents.
 - c. If any of the terms and conditions and mandatory declarations are not accepted.
 - d. If required information with appropriate documents in support of the same is not submitted as per **Annexure (A to D)**.
 - e. Agency should have been in the business of installation and maintenance of fire detection and alarm system for minimum 5 **years**. This period of 5 Years in business should have been completed on the date of application. Proof for previous three years for services provided to any institution preferably PSUs/PSBs and should submit report of satisfactory service from them.
2. The IISc reserves the right to accept or reject any Bid in part or in full or to cancel the Bidding process and reject all bids at any time prior to contract award, without incurring any liability to the affected bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for the IISc action.

7.2 Validity of Bids:

Bids shall remain valid for a period of 90 Days from the date of opening of the Financial Bid. A bid valid for a shorter period may be rejected by the IISc as non-responsive. Validity of all the eligible bids would be required till the successful bidder/s sign contract with BOB.

7.3 Contacting IISc

1. No bidder/s shall contact the IISc on any matter relating to its Bid, from the time of opening of RFQ/Tender to the time contract is awarded.
2. Any effort by the Bidder/s to influence the IISc in its decision on RFQ/Tender evaluation, comparison or contract award may result in rejection of the Bidder's.

7.4 Award and Signing of Contract

1. IISc will communicate to successful bidder/s (through letter in duplicate by email) that its bid have been accepted. The selected bidder/s have to return the duplicate copy to the IISc within 7 working days duly Accepted, Stamped and Signed by the Authorized Signatory in token of acceptance.
2. It would be mandatory for L1 Bidder to accept the work awarded by the IISc.
3. Successful L1 bidder has to provide unconditional Performance Bank Guarantee of 10% of estimated 1 year's contract value from any Schedule Commercial Bank excluding Co-operative Bank. The Performance Bank Guarantee will be deposited at IISc for a period of 1 years and 03 month from the date of commencement of contract.
4. In case the RFQ is cancelled, IISc reserves the right to take appropriate decision, including calling up of fresh tenders.
5. The successful bidder/s shall be required to enter a contract with the IISc, within 15 days of receipt of formal communication (email or letter) from the IISc about the successful RFQ. Copy of the board resolution or power of attorney showing that the signatory has been duly authorized to sign the acceptance letter and contract should be submitted. In case the bidder/s fails to enter into contract with the IISc within the stipulated time, IISc reserves the right to cancel the order and cancel the RFQ.
6. The IISc reserves the right either to invoke the Performance Bank Guarantee or to cancel the purchase order or both if the Bidder/s fail to meet the terms of this Bid or contracts entered in to with them.

7.5 Payment Terms

The terms of payment are as under:

1. No advance payment against work order.
2. Payment of bills will be made by the IISc after receiving the consolidated quarterly bills with all reports and documents from Service Provider, within 14 working days of submission of such bill.

7.6 Performance Bank Guarantee

1. Successful L1 bidder must provide unconditional Performance Bank Guarantee of 3% of estimated 1-year contract value from any Schedule Commercial bank.
2. The Performance Bank Guarantee shall be adjusted against any loss, damage, delay expense etc. to the IISc. IISc reserves the right to take appropriate decision on the adjustment of the Performance Bank Guarantee. During the period of contract including AMC period supplier should attend to all repairs / defects / replacement of minor spare parts free of cost. In case

of failure on the part of the supplier to attend to the defects within a reasonable period, the IISc on its own will get the defects rectified through another vendor at the risk and cost of supplier and repairs rectified through another vendor in such circumstance will not affect the liabilities of the supplier on the warranty for its remaining period nor will it affect the supplier's liabilities on the stipulated Annual Maintenance Contracts.

7.7 Contract Period

1. The contractor must complete the contracted work within the stipulated period. In this case the contractor **must complete the work within four months or as agreed during the negotiation. The counting of period of completion will start from the date of issuance of purchase order.** In case of any delay without proper reasons, the contractor will be penalised. The penalty clauses will be discussed during award of contract.

7.8 Agreement

The service provider shall be required to enter into an agreement with IISc, based on terms and conditions mentioned in the tender document.

8 Cancellation of Contract

The IISc reserves the absolute right to cancel the contract with the selected bidder/s at any time during the contract period, by giving a written notice of at least one (01) Months, for any valid reason, including but not limited to the following reasons:

1. Delay in execution of orders placed by the IISc.
2. Discrepancies / deviations in the agreed process and / of products.
3. Violation of terms and conditions stipulated in this Bid / Contract.
4. Unsatisfactory performance of the bidder.
5. Any other valid reason.

8.1 IISc Rights

Purchase Committee reserves the right to

1. Reject any and all responses received in response to the RFQ.
2. Waive or Change any formalities, irregularities, or inconsistencies in proposal format delivery.
3. Amend/ modify terms & conditions of RFQ.
4. Extend the time for submission of the RFQ.
5. Select the most responsive Bidder (in case no Bidder satisfies the eligibility criteria in totality)
6. Share the information/ clarifications provided in response to tender by any Bidder, with any other Bidder(s) /others, in any form.
7. Re-negotiate the price and terms of the entire contract with the bidder at more favourable terms in case such terms are offered in the industry at that time.
8. Cancel the RFQ at any stage, without assigning any reason whatsoever.

8.2 Inspection of Facilities

The applicant should not have any objection to IISc inspecting the site where the similar work is being carried out or already executed by the applicant. IISc may also hold enquiries from past / present clients of the applicant.

8.3 Grievance Redressal

Any vendors have a grievance against a decision or action with regards to the provisions of this RFQ may file a request to the OLSEH, Bangalore at safety.olsek@iisc.ac.in. It may please be noted that the grievance can be filed by only that vendor who has participated in Procurement proceedings in accordance with the provisions of this RFQ.

8.4 Indemnity

The Vendor shall indemnify IISc, and shall always keep indemnified and hold the IISc, its employees, personnel, officers, directors, (hereinafter collectively referred to as "Personnel") harmless from and against any and all losses, liabilities, claims, actions, costs and expenses (including attorneys' fees) relating to, resulting directly or indirectly from or in any way arising out of any claim, suit or proceeding brought against the IISc as a result of:

1. IISc authorized / Bonafede use of the Deliverables and /or the Services provided by Vendor under this assignment; and/or
2. Negligence or wilful misconduct of the Vendor and/or its employees, agents, sub-contractors in performance of the obligations under this assignment; and/or
3. claims made by employees or subcontractors or subcontractors' employees, who are deployed by the Vendor, against the IISc; and/or
4. claims arising out of employment, non-payment of remuneration and non-provision of statutory benefits by the Vendor to its employees, its agents, contractors and sub-contractors, or breach of any terms, representation or false representation or inaccurate statement or assurance or covenant or warranty of the Vendor under this assignment; and/or
5. breach of confidentiality obligations of the Vendor; and/or
6. any or all Deliverables or Services infringing any patent, trademarks, copyrights or such other Intellectual Property Rights;
7. IISc shall notify the Vendor in writing as soon as practicable when the IISc becomes aware of the claim, and Co-operates with the Vendor in the defense and settlement of the claims.
8. The Vendor shall have sole control of the defense and all related settlement/ negotiations, and IISc will provide the Vendor with the assistance, information and authority reasonably necessary to perform the above.
9. In the event of successful bidder not fulfilling its obligations under this clause within the period specified in the notice issued by the IISc. IISc has the right to recover the amounts due to it under this provision from any amount payable to the vendor under this assignment.
10. The indemnities under this clause are in addition to and without prejudice to the indemnities given elsewhere in this RFQ.

8.5 Dispute Resolution

1. The IISc and the vendor shall make every effort to resolve amicably, by direct informal negotiation between the respective Safety officer / Fire Purchase committee Chair of the IISc and the vendor, any disagreement or dispute arising between them under or in connection with the contract.
2. If the IISc Safety officer / Fire Purchase committee Chair are unable to resolve the dispute after thirty days from the commencement of such informal negotiations, they shall immediately escalate the dispute to the senior authorized personnel designated by the vendor and IISc respectively.

3. All questions, disputes or differences arising under and out of, or in connection with the contract or carrying out of the work whether during the progress of the work or after the completion and whether before or after the determination, abandonment or breach of the contract shall be referred to arbitration by a sole Arbitrator acceptable to both parties OR the number of arbitrators shall be three, with each side to the dispute being entitled to appoint one arbitrator. The two arbitrators appointed by the parties shall appoint a third arbitrator shall act as the chairman of the proceedings. Arbitration will be carried out at Bangalore. The Arbitration and Conciliation Act 1996 or any statutory modification thereof shall apply to the arbitration proceedings
4. Judgment upon the award may be entered by any court having jurisdiction thereof or having jurisdiction over the relevant Party or its assets.

8.6 Governing Laws

This RFQ and the subsequent contract shall be governed and construed and enforced in accordance with the laws of India. Both Parties shall agree that in respect of any dispute arising upon, over or in respect of any of the terms of this Agreement, only the courts in Bangalore shall have exclusive jurisdiction to try and adjudicate such disputes to the exclusion of all other courts.

9 Annexure

9.1 Annexure A: Offer Letter (On the Agency's Letter Head)

Annexure – A

ENVELOPE - 1 : OFFER LETTER.

To,

The Chairman, Fire Purchase Committee

Office of Laboratory Safety & Environmental Health (OLSEH),

Near Unit 1b, Chokshi hall Indian Institute of Science Bangalore - 560012

Dear Sir,

Re: RFQ/tender document for Supply and installation of fire detection and alarm system at CIDR building of IISc Bangalore-560012

With reference to the RFQ/Tender document

1. Having examined the nature and quantum of work relating to the above mentioned work and having visited and examined the site of the proposed work and having acquired the requisite information relating thereto as affecting the tender invited by you, I / We, the undersigned hereby offer for undertaking Short listing of Service Provider for supplying and installation of fire detection and alarm system at CIDR Building in IISC – Bangalore 560012.
2. I / We agree to deposit a Performance Bank Guarantee (as per Annexure-D) of 10% of estimated of 1 year contract value (refundable on expiry of the contract), which in the event of not carrying out the contracted services, as per terms and condition of the tender, shall be forfeited.
3. I / We certify that the / our Company / firm or owner or any sister concern have not been Blacklisted by any institution of the Central or State Govt. / PSU/PSB in the past three years on any grounds whatsoever.
4. We are complying with all the guidelines issued by the Karnataka Fire Services and State Govt. with regards to Provision & Maintenance of Fire Fighting systems and will also ensure such compliance on any new guidelines issued during the currency of the contract period from time to time.
5. We have read the general Terms and Conditions of the Work Contract and agree to abide and comply with the same.

Yours faithfully

Name & Signature of the Vendor with Seal

Date:

Place:

Enclosures: As above

9.2 Annexure B: Vendor Profile (On the Agency's Letter head)

Annexure – B

ENVELOPE - 1: TECHNICAL BID

MANDATORY TECHNICAL REQUIREMENT

S.No.	Description	Information from the Vendor			Annexure
1.	Name and Address of the Firm				Annexure -1
2.	Telephone Nos. & Email Id.				Annexure - 1
3.	Type of Firm: (Sole Proprietorship/Partnership/Ltd. Co./Other)				Annexure - 1
4.	Name of Contact Person with contact number in relation to this RFQ:				Annexure - 1
	Company / Firm Registration				
	OEM Details				
5.	Address & Tel. No. of the Branch/Service Centre in Bangalore:				Annexure - 1
6.	GST No.	GST copy		Annexure - 2	
7.	PAN No, ESI & PF	PAN Card, ESI and PF copy		Annexure - 3	
8.	The Turnover of the Firm for the last - 4 financial Years for the similar nature of works	Minimum average turnover of Rs. 5 crore during Last four years for a work of similar nature.			Annexure - 4
	Year	Turn Over amt. in Lakhs	Audited Balance Sheet (att. Copy)		
	2017-2018				
	2018-2019				
	2019-2020				
	2020-2021				
9.	Name of Banker with address				Annexure - 5
10.	Details of work carried out for previous clients (attach copy)				Annexure - 6
	Year	Name of Organization	Type of Work	Amount	
	(i)				
	(ii)				
	(iii)				

11.	No. of Authorized Technical Staff				Annexure – 7	
	Name of person	Qualification	Designation	Total Experience in the Firm		
12.	a) Has your company/firm been ever Blacklisted in past 3 years. Give details if Yes				Annexure - 8	
	b) If No, a certificate be submitted stating that the company/firm or its owner or any sister concern have not been so blacklisted by any institution of the Central or State Govt, PSU/PSBs in the past three years on any grounds Whatsoever.					
13.	The vendor must have experience in commissioning and maintenance of fire fighting system in High Rise Buildings of minimum 05 stories. (Attach Copy)				Annexure - 9	
14.	Proof of work executed in last 03 years and satisfactory performance certificates				Annexure - 10	
15.	Whether any of the family members working with IISc (if Yes, Give Details)			YES/NO	Annexure - 11	
16	Solvency Certificate from a bank (scheduled commercial bank as per RBI list) of minimum of Rs. 2 crores issued on or after publication of this tender.				Annexure-12	
17	Signed copy of Tender document				Annexure-13	

Name & Signature of the Vendor

Date:

Place:

Encl : As above.

9.3 Annexure C: Financial Bid (On the Agency's Letter Head)

Annexure – C

ENVELOPE - 2: FINANCIAL BID

To

The Chairman, Fire Purchase Committee
Office of Laboratory Safety & Environmental Health (OLSEH),
Near Unit 1b, Chokshi hall Indian Institute of Science Bangalore - 560012

Dear Sir,

Ref RFQ/Tender for Supplying and installation of fire detection and alarm system in CIDR building of IISc – Bangalore -560012.

We hereby declare that, we are abiding by the following terms and condition.

1. We have gone through the Tender document/RFQ in detail and understood the requirement of the Fire detection and alarm system for CIDR Building in IISc campus. Also, we understood the technical specifications and requirements.
2. We understood the terms and conditions mentioned in the tender/RFQ document.
3. The terms and condition for release of the payment shall be according to the mutually agreed terms and condition during the final negotiation with the selected bidder.

Note: In case of any discrepancy, total cost quoted in words will be considered.

Format to submit the quotation: The quotation should be submitted in the standard format as shown below . The items should be only the items mentioned in the BOQ. The rate for supply and installation should be mentioned separately. The GST should also be shown separately for supply and installation.

Name & Signature of the Vendor

Seal:

Date:

Place:

Format for submission of the financial bid

FIRE ALARM SYSTEM for Biological Sciences (Expansion)								
SI No	Item Description	Make/ Model	Qty	Unit	SUPPLY IN INR		INSTALLATION IN INR	
					Unit Rate	Amount	Unit Rate	Amount
A	FIRE ALARM SYSTEM							
1	<p>FIRE ALARM CONTROL PANEL :- 08 Loop Addressable, Microprocessor based Fire Alarm Control Panel FM Approved with redundant CPU, capable of being networked with other Fire alarm control panel & Repeater panel in the central monitoring Station. The panel shall be with LCD display, zone indicating LEDs as per the detailed specification. Include the cost of inbuilt battery enclosure and battery to last for a duration of operation as recommended by NFPA standard with charger for each panel. Vendor shall submit detailed battery calculations. Each loop should have at least 125 Detector & 125 devices and maximum loop length shall be 1200m. FACP shall have RS-485 Port / IP provision. The secondary power supply shall have sufficient capacity to operate the system under quiescent load for minimum of 24 hours and shall be capable of operating the system during a fire or other emergency condition for a period of 15 minutes at maximum connected load. The vendor shall provide detailed battery calculation for the secondary power supply for the panel. include the Network card)</p>	Edwards EST3	1	Nos				

2	<p>REPEATER PANEL :- Repeater panel, FM Approved. Shall be connected to the FACP through a RS485 communication & shall be supplied with necessary interface cards for connecting to FACP. The Panel shall have minimum 2 x 40 characters back lit LCD display which will repeat all the events, alarms, messages displayed by the FACP. Panel will have inbuilt memory to record the event. LCD display annunciators shall mimic the main control panel 80 character display and shall Not require special programming Repeater Panel shall have the following LEDs for displaying System Status DC Power, Fault ,Fire with necessary battery backup for 24 hrs operation. Panel shall have dedicated buttons for Switches for system acknowledge, alarm silence, and system reset , Etc</p>	Edwards 3-LCDANN RLCM/B-S	1	Nos				
3	<p>MULTI SENSOR DETECTOR WITH STANDARD BASE: Analog Addressable multi sensor Detector, employing multiple sensing technology to respond to multiple physical stimulus including dust, heat, smoke etc., FM Approved, with Normal/Fire indicating LEDs. The sensor should generate multiple alarm signals & capable of distinguish between a legitimate change of state and adverse ambient conditions that may cause nuisance alarm. The standard base should be provided with the detector.</p>	Edwards SIGA-PHD SIGA-SB	577	Nos				

2	<p>REPEATER PANEL :- Repeater panel, FM Approved. Shall be connected to the FACP through a RS485 communication & shall be supplied with necessary interface cards for connecting to FACP. The Panel shall have minimum 2 x 40 characters back lit LCD display which will repeat all the events, alarms, messages displayed by the FACP. Panel will have inbuilt memory to record the event. LCD display annunciators shall mimic the main control panel 80 character display and shall Not require special programming Repeater Panel shall have the following LEDs for displaying System Status DC Power, Fault ,Fire with necessary battery backup for 24 hrs operation. Panel shall have dedicated buttons for Switches for system acknowledge, alarm silence, and system reset , Etc</p>	Edwards 3-LCDANN RLCM/B-S	1	Nos				
3	<p>MULTI SENSOR DETECTOR WITH STANDARD BASE: Analog Addressable multi sensor Detector, employing multiple sensing technology to respond to multiple physical stimulus including dust, heat, smoke etc., FM Approved, with Normal/Fire indicating LEDs. The sensor should generate multiple alarm signals & capable of distinguish between a legitimate change of state and adverse ambient conditions that may cause nuisance alarm. The standard base should be provided with the detector.</p>	Edwards SIGA-PHD SIGA-SB	577	Nos				
4	<p>HEAT DETECTOR WITH STANDARD BASE : Analog Addressable Heat Detector, employing sensing technology to respond to physical stimulus Heat, FM Approved, with Normal/Fire indicating LEDs. The sensor should be rate of rise to generate alarm signals & capable of distinguish between a legitimate change of state and adverse ambient conditions that may cause nuisance alarm.The standard base should be provided.</p>	Edwards SIGA-HRD SIGA-SB	RO	Nos				

5	MANUAL CALL POINT: Double action addressable "Manual Call Points" (MCP), FM Approved. The scope include the supply of suitable GI rough-in box with GI back plate to mount MCP in wall / column with flush or surface mounting accessories with cable gland, clamps/brass screws etc. (Break Glass Type)	SIGA-278	162	Nos				
6	HOOTER WITH STROBE LIGHT: Supply, Installation, Testing and Commissioning of Notification Appliance - Hooter with Strobe light, FM Approved, with necessary mounting accessory, GI rough-in box (for wall / true Ceiling and False ceiling mounting).For Wall Mounting back box required	Edwards G1RF- HDVM	167	Nos				
7	RELAY MODULE: Addressable Bell Relay Modules, FM Approved. Bell relay module shall be used for activating Notification devices.	Edwards SIGA-CR	RO	Nos				
8	FAULT ISOLATOR MODULE(FIM): Fault Isolator Module, FM Approved. Isolator module shall be used to monitoring shorted loop circuit and automatically restore communications when shorted conditions are corrected. FIM's are used one for every 20 Detector's & Devises.	Edwards SIGA-IM	25	Nos				
9	INPUT MODULE: Supply, Installation, Testing, and Commissioning of "Addressable Input Modules" FM Approved, Inputs modules shall be used for Monitoring the Power supply units, Aspiration system (fire & fault status), Gas suppression system (fire, fault & release status), Water leak detection(fire, fault & status) Flow switch, Alarm check valve, Zone & floor control valve and base builder integration.	Edwards SIGA-CT1	RO	Nos				
10	CONTROL MODULE: Supply, Installation, Testing, and Commissioning of "Addressable Control Relay Modules", FM Approved with necessary interposing relays. Control module shall be used for emergency control functions including shutting down Fire dampers in AHU's, tripping of AHU's, tripping of Access control systems	Edwards SIGA-CC1	167	Nos				

11	Supply, installation, testing and commissioning of Response Indicators with Single LED.	Ravel RE-RI	RO	Nos				
12	Hooter Power supply 24v DC 10A	Micropower	15	Nos				
13	Supply & Installation of Junction Boxes to fix the smoke detectors, with 2"x2" MS box, thickness of 1.6mm Red coloured powdered coated with Glands for Above detectors	Reputed	750	Nos				
	Glands for the detectors back box	Reputed	1500	Nos				
B	CABLE & ACCESSORIES							
1	FRLS 2Cx 1.5 sq.mm CABLE (ARMOURED) : Supply, laying, and Terminating of Fire Retardant Low Smoke (FRLS),BS Approval, 2 Core x 1.5 sqmm size Annealed Tinned Copper multi strands, PE Insulation, Inner PVS Sheathed, Outer PVC FRLS, 1100 Voltage rating, GI Armoured cable with terminal legs, clamping accessories. Distance between each clamp's is 610mm (2 feet).	Varsha	6000	Mtr				
	2 Inch Casing and Capping for the Cabling at Labs	Reputed	2500	Mtr				
2	Supply and installation of PVC Truff 100/100	MK	20	Mtr				
3	Supply and installation of flexible hose	Reputed	200	Mtr				
C	SERVICE							
1	Project Management		1	Lot				
2	Testing and Commissioning Charges		1	Lot				
3	Engineering Drawings and Drafting		1	Lot				
	SUB TOTAL							
	GST							
	TOTAL							

9.4 Annexure D: Format for Bank Guarantee for Performance Security (Performance Bank Guarantee)

To be submitted by the successful bidders after placement of the purchase order.

Annexure-D

To

The Registrar, Indian Institute of Science (IISc), Bangalore – 560 012, Karnataka India

Subject: Performance Bank Guarantee (PBG)

Reference: IISc Purchase Order No. _____, dated _____

Dear Sir,

We hereby issue a Bank Guarantee as follows: -

Bank Guarantee No. : ____

Amount of Guarantee Rs : ____

Date : _____

Guarantee covers from : _____ To _____

Last Date for Lodgement of claim : _____

This deed of guarantee executed by the **[Name of Bank]** having its Central Office at **[location]** and amongst other places a branch at **[local branch location]** (hereinafter referred to as "The Bank") in favour of The Registrar, Indian Institute of Science, Bangalore – 560 012 (hereinafter referred to as IISc) for an amount of not exceeding Rs. **[Amount]** (Rupees **[Amount in words]** only) at the request of M/s **[Vendor]** (hereinafter referred to as "Supplier").

IISc has entered into an agreement with Vendor; vide IISc Purchase Order No. **[PO Number]** dated **[date]** with vendor to carry out Annual maintenance contract of fire hydrant and sprinkler system at Indian Institute of Science, Bangalore as per their above order, the Supplier agreed to execute a Bank Guarantee for 3% of the total order value viz. Rs. **[Amount]** (Rupees **[Amount in words]** only) towards performance Security / performance guarantee obligation for a period of 1 years from **[start date]** to **[end date]**

We, the **[Bank Name]**, **[Branch]** (hereinafter referred to as a Guarantor) at the request of the supplier, irrevocably undertake to indemnify and to keep indemnify IISc, without any demur to the extent of Rs. **[Amount]** (Rupees **[Amount in words]** only) in the event of the aforesaid Supplier failing to comply the Warranty / contractual Obligations as per the agreed terms to the full satisfaction of the Company as mentioned in the IISc purchase order.

The Guarantor guarantees that in the event of the said Supplier failing to abide by any of the conditions referred in tender document / purchase order/ performance of the equipment / Machinery / service, etc. this Bank shall pay to Indian Institute of Science, Bangalore on demand and without protest or demur Rs. **[Amount]** (Rupees **[Amount in words]** only).

Guarantor, further agrees that the guarantee herein contained shall remain in full force and affect during the period that would be taken for the performance of the equipment and / or services as stated in the Purchase Order issued by IISc and that it shall continue to be enforceable till the completion of the period and certified that warranty and contractual obligations have been fully carried out by the supplier and accordingly discharges the Guarantee subject. However, IISc shall have no right under after the expiry of the Guarantee on **[end date]**. Guarantor undertakes not to revoke this Guarantee, during its currency except with the previous consent of IISc. in writing.

Notwithstanding anything contained herein, the liability of the Guarantor under the Bank Guarantee shall not exceed Rs. **[Amount]** (Rupees **[Amount in words]** only). The guarantee shall remain in force until, unless a demand or claim under the guarantee is made on our Bank in writing on or before **[end date]** all your rights under the said guarantee be forfeited and we shall be relieved and discharged from all liabilities there under. Guarantor is liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only and only if IISc serve upon us a written claim or demand on or before expiry of date, i.e. **[end date]**. This Guarantor further agrees that the decision of Indian Institute of Science, Bangalore as to whether the said Supplier has committed a breach of any of the conditions referred in tender document / purchase order shall be final and binding. This Guarantor further agrees that the claims if any, against this Bank Guarantee shall be enforceable at branch office at **[local branch location]**.

Details of the Guarantor are given below:

Name of the Bank	
Branch Name	
Branch Code	
IFSC Code	
E-mail Id	
Phone / Mobile No.	

Seal & Signature of the Bank