

# **RFQ / TENDER DOCUMENT FOR PURCHASE AND INSTALLATION OF FIRE DETECTION AND ALRM SYSTEM (INCLUDING PA SYSTEM) FOR HIGH VOLTAGE ENGINEERING DEPARTMENT BUILDING INDIAN INSTITUTE OF SCIENCE BANGALORE 560012**

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**Contact Details:**

The Chair, Fire Purchase Committee

Office of Laboratory Safety & Environmental Health (OLSEH),

Room No EG-17-New Chemical Science Building, Indian Institute of Science Bangalore - 560012

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**Document Reference No: RFQ No: IISc/Purchase/FFE/2021-22/13**

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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** for purchasing and installation of Fire detection and Alarm system with all its accessories for **the HIGH VOLTAGE ENGINEERING Building** at IISc campus, Bangalore 560012.

**The bids must be addressed and submitted to**

**The Chair, Fire Purchase Committee**

**Office of Laboratory Safety & Environmental Health (OLSEH),**

**Room No EG-17-New Chemical Science Building, Indian Institute of Science Bangalore - 560012**

**Email: - dharmendras@iisc.ac.in**

### 2.1 Important Information:

<b>RFQ Reference Number</b>	RFQ No: RFQ No: IISc/Purchase/FFE/2020-21/13
<b>Availability of RFQ document</b>	RFQ will be available on our IISc website <a href="http://www.iisc.ac.in/tender">www.iisc.ac.in/tender</a> from 21st March 2022. 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.
<b>Last date of submission of any query / reporting any error</b>	11 <sup>th</sup> April 2022 by 03:00pm. ALL QUERIES TO BE SUBMITTED THROUGH EMAIL ONLY ON <a href="mailto:dharmendras@iisc.ac.in">dharmendras@iisc.ac.in</a>
<b>Due date/time</b>	Bid Submission: 11 <sup>th</sup> April 2022 by 03:00pm. Late RFQ will not be accepted under any circumstances including postage delay.
<b>Date and Time of Technical bid Opening</b>	13 <sup>th</sup> April 2022 at 03:30 PM
<b>Contact person</b>	Safety Officer Mr. Dharmendra Singh Email: <a href="mailto:dharmendras@iisc.ac.in">dharmendras@iisc.ac.in</a> Tel: 080-22933199
<b>Validity of Offer</b>	The offer should be valid for period of <b>90 days</b> 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](http://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 RFQ 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 RFQ.
6. This RFQ 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 drawings of the respective building/floors. 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

This Request for Quotation document ('RFQ document' or RFQ)/tender document has been prepared for the purpose of selecting Vendors / Service Providers for purchase and installation of fire detection and alarm system for **HIGH VOLTAGE ENGINEERING** buildings of IISc . Bangalore.

1. 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.
2. 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 three 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. In the past three years the vendor should have installed **three** similar systems, (for which the cost of each system should not be less than 30 lakhs) or at least **one single system** for which the cost should not be less than 75 Lakhs in Government/Public sector /Research institutes. Supporting document should be enclosed.
4. **Minimum yearly turnover of Rs. 3 crores over last three financial years, for work of similar nature.**
5. **Work Executed.** The bidder shall have carried out similar work during last 03 financial years as under:
  - a. Installation of fire detection System. Minimum five such system in last three years.
  - b. Maintenance of the fire detection and Alarm system (AMC/On Call) for past five years. (Relevant document should be enclosed with the bid)
6. **Product Certification.**
  - a. The products of the applicant should have latest UL certification ( UL 268 -7<sup>th</sup> edition)
  - b. The products should be based on latest technology for the specific requirement.
  - c. The certificate of the origin of the country should be enclosed. **OEM must furnish a supporting letter for the same.**
7. **Performance Certificate:** The applicant should submit a "Satisfactory Performance Certificate" from two Companies/Entities where the applicant has done installation/maintenance of Fire systems.
8. **Manufacture authorisation: Bidder shall submit specific manufacturer authorisation (Written letter from the manufacturer) for this project along with the bid. The OEM has to mention that the certificate is issued for the purpose of installing the system in IISc, Bangalore campus. A general authorisation certificate from the OEM is not acceptable.**
- 8a. Trained and Certified Engineers:** Bidder shall have at least two certified Engineers permanently placed in Bangalore for the product offered and shall submit the copy of certificates along with the bid.
9. **Registered Office:** The bidder should have a registered office in Bangalore. If the bidder got a registered main office elsewhere in India, should have a full-fledged registered branch office in Bangalore. The branch office should have a technical team who can promptly attend the calls and rectify the faults. The technical team of IISc is free to visit and verify the same.
10. **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.
11. **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)
12. 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.
13. **Product warranty should be 3 years except consumables items.**

### 3.3 Scope of Work

FAS System for the buildings in department of **HIGH VOLTAGE ENGINEERING.**

1. The agency shall supply and install fire detection and alarm system in the building of High Voltage Engineering department at IISc Campus, C V Raman Road – Bangalore.
2. At present there is no fire detection and alarm system in the building.

### 3.4 Technical specification of the product:

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

- a. The make and model recommended is Notifier since most of the new fire alarm systems installed in the IISc campus are Notifier make. Keeping in mind the future expansion and inter building integration it is decided by the technical experts that the Notifier is most suitable Fire Alarm and control system.
- b. At present the fire alarm and control panels are not connected to the central control room. In view of this, there is a requirement of providing the auto dial unit, which can dial the predefined telephone number triggered by the detection alarm of the incident in the panel. The minimum requirement is up to four predefined numbers.
- c. As specified in BOQ an Addressable Fire Alarm Control panel (FACP) with battery backup for 48 hours normal operation and 30 minutes alarm operation. The battery should be a built-in type with the panel and charged from the panel directly. It shall include a full featured operator interface control and annunciation panel having liquid crystal display, individual colour coded system showing the status through LEDs, and a alphanumeric keypad for the field programming and control of the fire alarm system. The panel including enclosure shall be UL listed complying to UL 864, 10th Edition requirement and FM approved. If the panel programming requires a dongle/key, then the same shall be supplied along with the panel.
- d. Analogue Addressable Flash scan multi-sensing detector (Acclimate type) having Rotary, decimal addressing system with standard base, junction box and other accessories as required. The detector shall be with Visible bi-colour LEDs for 360 deg viewing and shall blink green every time the detector is addressed and illuminate steady red on alarm. Detector shall comply UL 268, 7th edition requirements.
- e. Analogue Addressable Flash scan Rate - of - Rise thermal detector having Rotary, decimal addressing system with standard base, junction box and other accessories as required. The detector shall be with visible bi-colour LEDs for 360 deg viewing and shall blink green every time the detector is addressed and illuminate steady red on alarm. Detector shall comply UL 268, 7th edition requirements.
- f. Analogue addressable Fault isolator module capable of monitoring shorted loop circuit and automatically restore communications when shorted conditions are corrected. Module shall be with back box, LED indication and other accessories all complete as required. It shall work on suitable DC voltage.
- g. Hooter control Module for all the hooters, plus existing hooter if any , integration to be integrated with new FAS panel
- h. Addressable Hooter cum strobe unit as per NFPA shall deliver output up to 90 db at 1 m from source (adjustable at site or from the panel) and candela setting from 15 to 130 cd from its installed location and 75cd flashing at 1 Hz for visual indication. No external 3rd party power supply shall be permitted. Vendor to include all accessories.

- i. Addressable Manual Pull Stations of Single action type with an integrally mounted addressable module that monitors and reports contact status.
- j. Zone Module for removing the Existing Ravel 8 zone panel and converting to the addressable system.
- k. Power Supply units for the Hooter 24volts 10 amps.
- l. 2c x 1.5 sq. mm, PVC insulated FRLS copper armoured conductor multi core cables.
- m. Other accessories as per specification given in the BOQ enclosed.

## 4 BOQ

### BOQ - FIRE ALARM SYSTEM FOR HIGH VOLTAGE ENGINEERING

SI No	Item Description	Mke & Model	Unit	Qty	Price
<b>A</b>	<b>FIRE ALARM SYSTEM</b>				
1	Addressable <b>2 Loop</b> Fire Alarm Control panel (FACP) with battery back up for 48 hours normal operation and 30 minutes alarm operation. It shall include a full featured operator interface control and annunciation panel having liquid crystal display, individual colour coded system showing the status through LEDs, and a alphanumeric keypad for the field programming and control of the fire alarm system. The panel including enclosure shall be UL listed complying to UL 864, 10th Edition requirement and FM approved. If the panel programming requires a dongle/key then the same shall be supplied along with the panel.	Notifier NFS2 3030	1	Nos	
2	Analogue Addressable Flash scan multi-sensing, low-profile detector (Acclimate type) having Rotary, decimal addressing system with standard base, junction box and other accessories as required. The detector shall be with Visible bi-color LEDs for 360 deg viewing and shall blink green every time the detector is addressed, and illuminate steady red on alarm. <b>Detector shall comply UL 268, 7th edition requirements</b>	Notifier FSP/951T B501/WHIT E	100	Nos	
3	Analogue addressable Fault isolator module capable of monitoring shorted loop circuit and automatically restore communications when shorted conditions are corrected. Module shall be with back box, LED indication and other accessories all complete as required. It shall work on suitable DC voltage.	Notifier ISO/X	10	Nos	
4	Analogue Addressable Control Relay Module, for tripping the field devices, with LED indication, automatic mapping device, electronic addressing and working at 24V DC and all other accessories, with back box, all complete, as required. <b>(for AHU, Supply air fans, Exhaust fan, FCU, VHT systems)</b>	Notifier FRM/1	2	Nos	

5	Addressable Hooter cum strobe unit as per NFPA shall deliver output up to 90 db at 1 m from source (adjustable at site or from the panel) and candela setting from 15 to 130 cd from its installed location and 75cd flashintg at 1 Hz for visual indication. No external 3rd party power supply shall be permitted. Vendor to include all accessories.	Notifier SYS/HS	20	Nos	
6	Addressable Manual Pull Stations or Manual Call Point (MCP) of Single action type with an integrally mounted addressable module that monitors and reports contact status.	Notifier NBG-12LX	20	Nos	
7	Analogue Addressable Control module having Rotary, decimal addressing system and shall be capable of providing DPDT contact rated at 24v DC, 2A	Notifier FCM/1	20	Nos	
8	Beam detector (Range- up to 70 Mtrs)		4	Nos	
<b>B</b>	<b>CABLE &amp; ACCESSORIES</b>				
8	2c x 1.5 sq. mm, PVC insulated FRLS copper armoured conductor multi core cables.	Varsha	7000	Mtr	
9	4 modules back box for installing the Detectors, MCP and Hooters	Reputed	134	Nos	
10	Glands for the Detector Back Box	Reputed	-	Nos	
11	2 Inch FRLS Casing and capping	Reputed	3500	Mtr	
12	50X50 truff for cabling	Reputed	500	Mtr	
13	24V 10 amps power supply for hooters	Reputed	3	Nos	
14	Module Enclosures 1 ft X 1 ft	Reputed	3	Nos	
15	Telephone Dialler to integrate with FAS panel with Required cables	Reputed	1	Nos	
<b>C</b>	<b>SERVICE - FAS</b>				
16	Supervision, programming, Drawing charges, Testing & Commissioning and Ladder(18 to 18 feet) charges		1	Lot	

## BOQ

### SUPPLY AND INSTALLATION OF PA SYSTEM FOR HIGH VOLTAGE

SI No	Item Description	Make & Model	Unit	Qty
<b>A</b>	<b>PA System</b>			



1	<p>Supply, installation and testing of the Plena controller with built-in 240 W amplifier, 12 business and emergency control inputs and supporting 6 zones, extendable up to 60 zones, with single or dual channel operation, with loudspeaker line supervision 60849 certified.</p> <p>With Following Features:</p> <ol style="list-style-type: none"> <li>1.Voltage 230VAC, 50/60 Hz</li> <li>2.Max power consumption 600 VA</li> <li>3.Battery power supply Voltage 24 VDC, +15% / -15%</li> <li>4.Output power (rms/maximum) 240 W / 360 W</li> <li>5.Frequency response 60 Hz to 18 kHz</li> <li>6.Distortion &lt;1% at rated output power, 1 kHz</li> <li>7.Programmable Trigger Inputs 12</li> <li>8.Speech filter -3 dB at 315 Hz, high-pass, 6 dB/oct</li> <li>9.Messages Data format WAV-file, 16-bit PCM, mono</li> <li>10.Memory capacity 16 MB Flash ROM</li> </ol>	Bosch LBB1990/00	1	No's
2	<p>Supply, installation and testing of the call station with Six zone selection keys, all-call key and momentary PTT-key for calls and with selectable gain, speech filter, limiter, and output level for improved intelligibility, LED indications for zone selection, fault, and emergency state.</p> <p>With Following features:</p> <ol style="list-style-type: none"> <li>1.Voltage range 24 VDC</li> <li>2.Current consumption &lt;30 mA</li> <li>3.Nominal sensitivity 85 dB SPL</li> <li>4.Nominal output level 700 mV</li> <li>5.Input sound level (max) 110 dB SPL</li> <li>6.Distortion &lt;0.6%</li> </ol>	Bosch LBB1956/00	1	No's
3	<ul style="list-style-type: none"> <li>- 6W ceiling mount speaker with excellent speech &amp; music reproduction</li> <li>- Max Power: 9W, Rated Power: 6Watts, Power Tapping: 6/3/1.5W</li> <li>- Effective frequency range(-10 dB) : 200 Hz to 15KHz</li> <li>- SPL at rated power (1Khz at 1 m) 96 dB</li> <li>- Opening Angle 1 KHz / 4 KHz (-6 dB): 150/70</li> </ul>	Bosch	24	No's
4	2c x 1.5 sq. mm, twisted pair PVC insulated FRLS copper armoured conductor multi core cables.	Polycab	1000	Mtr s
5	2" PVC Casing and Capping for cable	Modi	1000	Mtr s
6	Supply and Installation of 12U Rack for Keeping controller and Amplifier setup	MK	1	No's
<b>B</b>	<b>SERVICE - PAS</b>			
7	Supervision, programming, testing and Drawing preparation Charges		1	Lot

## 5 Submission of bid

### 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 the building of Department of Electrical Engineering - 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 Centre for Sustainable Technology - IISc Bangalore-560012.

Rates for supply and installation of Fire detection and alarm system at Centre for Neuroscience 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 D 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 D) (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.

### 6.1 Selection of L1

1. Charges which are normally claimed and rates which are sought to be quoted by the bidder are classified in four groups (A to D) 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)	20
C (Services)	20
D-PA System	20

- a. Following Formula will be used to arrive at Total Score of a Bidder:
- b. 
$$\text{Total} = \frac{A*40+B*20+C*20+D*20}{100}$$
- c. Where A to D 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 D 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 **3 years**. This period of 3 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 into 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 will be made 100% on after supply of materials and installation amount to be paid after successful completion of work.

## 7.6 Performance Bank Guarantee

1. Successful L1 bidder has to 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 has to complete the contracted work within the stipulated period. In this case the contractor must complete the work within three months or as agreed during the negotiation. The counting of period will start from the day 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.olseh@iisc.ac.in](mailto:safety.olseh@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 / Bonafide 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 defence and settlement of the claims.
8. The Vendor shall have sole control of the defence 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.

**8.7 Payment term and condition:** Payment will be made 100% on supply of material & and installation amount to be paid after successful completion of work.



## 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),**

**Room No EG-17-New Chemical Science Building Indian Institute of Science Bangalore - 560012**

Dear Sir,

Re: RFQ/tender document for Supply and installation of fire detection and alarm system at the building of Department of High Voltage Engineering - IISc Bangalore-560012.

With reference to the RFQ/Tender document

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 the building of Department of High Voltage Engineering - IISc Bangalore-560012.

1. 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.
2. 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.
3. 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.
4. 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: <b>(Sole Proprietorship/Partnership/Ltd. Co./Other)</b>		Copy of Registration certificate		Annexure - 1
4.	Name of Contact Person with contact number in relation to this RFQ:				Annexure - 1
	Company / Firm Registration				
	OEM Details		OEM LETTER		
5.	Address & Tel. No. of the Branch/Service Centrein 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 -5 financial Years for the similar nature of works		Minimum turnover of Rs. 4 crores during Last five financial years for a work of similar nature.		Annexure - 4
	Year	Turn Over amt. in Lakhs	Audited Balance Sheet (att. Copy)		
	2018-2019				
	2019-2020				
	2020-2021				
	2021-2022				
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				

	Name of person	Qualification	Designation	Total Experience in the Firm	
					Annexure – 7
12.	a) Has your company/firm been ever Blacklisted in past 3 years. Give details if Yes				Annexure - 8
	b) If No, a <b>certificate</b> 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.	Signed copy of Tender document				Annexure-12
17	Product warranty should be 3 years except consumables items.				Annexure-13
18	Whether Eligibility criteria (page no-5) has fulfilled		Yes/No		Annexure-14

Name & Signature of the Vendor

Date:

Place:

Encl : As above.

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

#### ENVELOPE - 2: FINANCIAL BID

To

**The Chairman, Fire Purchase Committee**

**Office of Laboratory Safety & Environmental Health (OLSEH),**

**Room No EG-17, New Chemical Science Building, Indian Institute of Science Bangalore – 560012**

Dear Sir,

Ref RFQ/Tender for Supplying and installation of fire detection and alarm system in the building of Department of High Voltage Engineering - 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 HVE Buildings 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.

Name & Signature of the Vendor

Seal:

Date:

Place:

**Format for submission of the Financial Bid:** As shown below

#### BOQ-FIRE DETECTION AND ALARM SYSTEM – FOR HIGH VOLTAGE ENGINEERING DEPARTMENT

SI No	Item Description	Mke & Model	Unit	Qty
A	FIRE ALARM SYSTEM			

1	Addressable <b>2 Loop</b> Fire Alarm Control panel (FACP) with battery backup for 48 hours normal operation and 30 minutes alarm operation. It shall include a full featured operator interface control and annunciation panel having liquid crystal display, individual colour coded system showing the status through LEDs, and a alphanumeric keypad for the field programming and control of the fire alarm system. The panel including enclosure shall be UL listed complying to UL 864, 10th Edition requirement and FM approved. If the panel programming requires a dongle/key then the same shall be supplied along with the panel.	Notifier NFS2 3030	1	Nos
2	Analogue Addressable Flash scan multi-sensing, low-profile detector(Acclimate type) having Rotary, decimal addressing system with standard base, junction box and other accessories as required. The detector shall be with Visible bi-color LEDs for 360 deg viewing and shall blink green every time the detector is addressed, and illuminate steady red on alarm. <b>Detector shall comply UL 268, 7th edition requirements</b>	Notifier FSP/951T B501/WHIT E	100	Nos
3	Analogue addressable Fault isolator module capable of monitoring shorted loop circuit and automatically restore communications when shorted conditions are corrected. Module shall be with back box, LED indication and other accessories all complete as required. It shall work on suitable DC voltage.	Notifier ISO/X	10	Nos
4	Analogue Addressable Control Relay Module, for tripping the field devices, with LED indication, automatic mapping device, electronic addressing and working at 24V DC and all other accessories, with back box, all complete, as required. <b>(for AHU, Supply air fans, Exhaust fan, FCU, VHT systems)</b>	Notifier FRM/1	2	Nos
5	Addressable Hooter cum strobe unit as per NFPA shall deliver output up to 90 db at 1 m from source (adjustable at site or from the panel) and candela setting from 15 to 130 cd from its installed location and 75cd flashintg at 1 Hz for visual indication. No external 3rd party power supply shall be permitted. Vendor to include all accessories.	Notifier SYS/HS	20	Nos
6	Addressable Manual Pull Stations or Manual Call Point (MCP) of Single action type with an integrally mounted addressable module that monitors and reports contact status.	Notifier NBG-12LX	20	Nos
7	Analogue Addressable Control module having Rotary, decimal addressing system and shall be capable of providing DPDT contact rated at 24v DC, 2A	Notifier FCM/1	20	Nos
8	Beam detector (Range- up to 70 Mtrs)		4	Nos
B	<b>CABLE &amp; ACCESSORIES</b>			
8	2c x 1.5 sq. mm, PVC insulated FRLS copper armoured conductor multi core cables.	Varsha	7000	Mtr
9	4 modules back box for installing the Detectors, MCP and Hooters	Reputed	134	Nos
10	Glands for the Detector Back Box	Reputed	-	Nos
11	2 Inch FRLS Casing and capping	Reputed	3500	Mtr
12	50X50 truff for cabling	Reputed	500	Mtr

13	24V 10 amps power supply for hooters	Reputed	3	Nos
14	Module Enclosures 1 ft X 1 ft	Reputed	3	Nos
15	Telephone Dialler to integrate with FAS panel with Required cables	Reputed	1	Nos
<b>C</b>	<b>SERVICE - FAS</b>			
16	Supervision, programming, Drawing charges, Testing & Commissioning and Ladder(18 to 18 feet) charges		1	Lot

## BOQ

### SUPPLY AND INSTALLATION OF PA SYSTEM FOR HIGH VOLTAGE

SI No	Item Description	Make & Model	Unit	Qty
<b>D</b>	<b>PA System</b>			
1	<p>Supply, installation and testing of the Plena controller with built-in 240 W amplifier, 12 business and emergency control inputs and supporting 6 zones, extendable up to 60 zones, with single or dual channel operation, with loudspeaker line supervision 60849 certified.</p> <p>With Following Features:</p> <ol style="list-style-type: none"> <li>1.Voltage 230VAC, 50/60 Hz</li> <li>2.Max power consumption 600 VA</li> <li>3.Battery power supply Voltage 24 VDC, +15% / -15%</li> <li>4.Output power (rms/maximum) 240 W / 360 W</li> <li>5.Frequency response 60 Hz to 18 kHz</li> <li>6.Distortion &lt;1% at rated output power, 1 kHz</li> <li>7.Programmable Trigger Inputs 12</li> <li>8.Speech filter -3 dB at 315 Hz, high-pass, 6 dB/oct</li> <li>9.Messages Data format WAV-file, 16-bit PCM, mono</li> <li>10.Memory capacity 16 MB Flash ROM</li> </ol>	Bosch LBB1990/00	1	No's
2	<p>Supply, installation and testing of the call station with Six zone selection keys, all-call key and momentary PTT-key for calls and with selectable gain, speech filter, limiter, and output level for improved intelligibility, LED indications for zone selection, fault, and emergency state.</p> <p>With Following features:</p> <ol style="list-style-type: none"> <li>1.Voltage range 24 VDC</li> <li>2.Current consumption &lt;30 mA</li> <li>3.Nominal sensitivity 85 dB SPL</li> <li>4.Nominal output level 700 mV</li> <li>5.Input sound level (max) 110 dB SPL</li> <li>6.Distortion &lt;0.6%</li> </ol>	Bosch LBB1956/00	1	No's

3	- 6W ceiling mount speaker with excellent speech & music reproduction - Max Power: 9W, Rated Power: 6Watts, Power Tapping: 6/3/1.5W - Effective frequency range(-10 dB) : 200 Hz to 15KHz - SPL at rated power (1Khz at 1 m) 96 dB - Opening Angle 1 KHz / 4 KHz (-6 dB): 150/70	Bosch	24	No's
4	2c x 1.5 sq. mm, twisted pair PVC insulated FRLS copper armoured conductor multi core cables.	Polycab	1000	Mtrs
5	2" PVC Casing and Capping for cable	Modi	1000	Mtrs
6	Supply and Installation of 12U Rack for Keeping controller and Amplifier setup	MK	1	No's
	<b>SERVICE - PAS</b>			
7	Supervision, programming, testing and Drawing preparation Charges		1	Lot

#### 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