INDIAN INSTITUTE OF TECHNOLOGY Kharagpur
Kharagpur, West Bengal 721302

E-TENDER DOCUMENT

for

ANNUAL MAINTENANCE OF FIRE DETECTION, FIRE ALARM FIRE-FIGHTING AND PUBLIC ADDRESS SYSTEM IN DIFFERENT BUILDINGS OF IIT Kharagpur.

Notice Invitation Tender Serial No. IIT/IW/EM/NIT/32/2021-22 dated- 02.02.2022

Tender Serial No. ___________________________ Issued to:

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# 1. NOTICE INVITING TENDER

## 1.1. INTRODUCTION

Indian Institute of Technology (IIT) Kharagpur, hereinafter called IITKGP, invites sealed tenders from the eligible contractors for “ANNUAL MAINTENANCE OF FIRE DETECTION, FIRE ALARM FIRE-FIGHTING AND PUBLIC ADDRESS SYSTEM IN DIFFERENT BUILDINGS OF IIT KHARAGPUR” Particulars of the project are as following.

## 1.2. PARTICULARS

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<table>
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<tr>
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<tbody>
<tr>
<td><strong>1.</strong> NIT Number</td>
<td><strong>NIT No.: IIT/IW/EM/NIT/32/2021-22</strong></td>
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<tr>
<td><strong>2. Name of Work</strong></td>
<td>ANNUAL MAINTENANCE OF FIRE DETECTION, FIRE ALARM FIRE-FIGHTING AND PUBLIC ADDRESS SYSTEM IN DIFFERENT BUILDINGS OF IIT KHARAGPUR</td>
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<tr>
<td><strong>3. Location of Work</strong></td>
<td>IIT Kharagpur. Kharagpur-721302</td>
</tr>
<tr>
<td><strong>4. Estimated Cost (including GST)</strong></td>
<td>₹ 4,96,520/- (Rupees Four lakh Ninety six thousand Five hundred and Twenty only)</td>
</tr>
<tr>
<td><strong>5. Time Limit for Execution</strong></td>
<td>365 days from date of start.</td>
</tr>
<tr>
<td><strong>6. Tender Basis and Mode</strong></td>
<td>Two stage (Technical Bid &amp; Financial Bid)</td>
</tr>
<tr>
<td><strong>7. Earnest Money Deposit</strong></td>
<td>14896/- (Rupees Fourteen thousand eight hundred ninety six only)</td>
</tr>
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</table>

8. **Mode of Payment to IITKGP(EMD/Tender fee)**

- i) Original Demand Draft/Pay Order has to be submitted physically at the office of SE (E&M) on or before the due date/extended date of submission of bid.
- ii) Demand Draft/Pay order to be drawn in favour of IIT KARAGPUR payable at Kharagpur.

8. **Date, Time & Venue of Pre-bid Meeting**

- **16th February 2022 at 11.30 am**, in the meeting room of ESTATE (E&M), Head Office, 1st Floor, Old Building, IIT Kharagpur, Kharagpur WB 721302 or online link meeting link: https://meet.google.com/wib‐bvfw‐vou

9. **Closing Date & Time for Receipt of bids**

- 28th February 2022 up to 11:00 AM

10. **Date & Time for Opening Technical of Bid**

- 01st March 2022 at 11:30 AM

11. **Date & Time for Opening of Price Bid**

- To be informed later to the successful bidder

12. **Engineer-in-charge and contact details.**

- Mr Mahesh Kumar, Senior Executive Engineer
- Tel: 03222-282542, Email: maheshkr@hijli.iitkgp.ernet.in

13. **Address for tender issue, submission and opening**

- Office of the Superintending Engineer (E&M), 1st Floor, Old Building, IIT Kharagpur, Kharagpur WB 721302

14. **Website for full and updated information**

- http://www1.iitkgp.ac.in/topfiles/tenders.php
- https://eprocure.gov.in/eprocure/app
1.3. **ELIGIBILITY CRITERIA**

1.3.1. The bidder must be registered in appropriate class of works with Government organization like CPWD/ PWD/ MES or PSUs or OEM or Authorized supplier and installer of OEM (Authority must be signed by OEM official not lower than General Manager or equivalent in corporate structure or those having experience in similar nature of works awarded by Government / Semi Government Organizations/ Government Funded Autonomous Organization.

1.3.2. The bidder must have done at least 1 (ONE) similar work of value of 80% of the estimated cost or 2 (TWO) similar works for projects each of value 60% of the estimated cost or 3 (THREE) similar work for projects each of value 40% of the estimated cost with Government/ Semi-government/ PSU/ Government Funded Autonomous Organization during last 7 (seven) years preceding last date of the month of tender submission.

**Note:**

(i) The estimated cost is Rs. 4,96,520/- (Rupees Four lakh Ninety six thousand Five hundred and Twenty only)

(ii) The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum; calculated from the date of completion to the last date of receipt of applications for tender.

(iii) Similar works shall mean: MAINTENANCE OF FIRE DETECTION, FIRE ALARM and FIRE-FIGHTING works.

1.3.3. The bidder or the specialized agency the bidder intends to associate with must be registered with appropriate government authority as a bonafide business entity and must have GST registration certificate and Permanent Account Number of income tax.

1.3.4. MAINTENANCE OF FIRE DETECTION, FIRE ALARM and FIRE-FIGHTING work shall be executed by selected bidder through agency holding Electrical license valid on date of execution.

1.3.5. The registrations and licenses should be valid during the execution phase.

1.3.6. The Average annual turnover of the bidder as per ITCC or profit & loss statement shall not be less than 30% of the estimated cost of project, not having incurred loss in more than two years, during last 5 years ending 31 Mar 2021. The documents submitted should be duly certified and audited by Chartered Accountant.

Senior Executive Engineer (EW)

Copy to:
1) Registrar
2) Dean, Infra
3) Chief Engineer
4) Superintending Engineer (E&M)
5) Deputy Registrar (F&A)
6) Deputy Registrar (Audit)
7) Deputy Registrar (S&P)
8) Mr. S. Ghosh, Senior Executive Engineer (EW)
9) Executive Engineer (EW)
10) Sr. Assistant Engineer/ Assistant Engineer (E&M)
11) Notice Board
12) Tender Notice uploaded to CPPP portal & Institute Website
2. INFORMATION TO BIDDERS

2.1 SCOPE OF WORK

2.1.1 The IITKGP intends to award the work of ANNUAL MAINTENANCE OF FIRE DETECTION, FIRE ALARM FIRE-FIGHTING AND PUBLIC ADDRESS SYSTEM IN DIFFERENT BUILDINGS OF IIT KHARAGPUR. The work consists of comprehensive repair, renovation and modification of existing FIRE DETECTION, FIRE ALARM FIRE-FIGHTING AND PUBLIC ADDRESS SYSTEM systems. Maintenance and upkeep of existing Fire Fighting, Detection, Alarm and PA system.

2.1.2 The vendor shall work out execution sequence and methodology so as to complete the project within the envisaged time and the estimated cost, duly handling the constraint mentioned above.

2.1.3 The firm will maintain log book with date and time for recording below mentioned maintenance activities.

a) All performed maintenance/Testing as per schedule.

b) After carrying out each test, the entry in the register to be got counter signed from the Engineer.

c) Without prior approval from EIC or his representative, no fitting/material will be removed for repairs. It will be contractor’s responsibility to provide alternative temporary arrangement of such items which is under repair for the period. The item is repaired and put back in to position so that the system remains fully functional all the time.

2.1.4 The Contractor will conduct Half yearly mock fire drill and provide training to the users/ staff after giving prior notice to users for the use of fire Extinguishers /firefighting system.

2.1.5 The checking and maintenance of the batteries for the system shall be done including maintaining specific gravity and distilled water level (if maintenance free batteries fitted, please check their healthiness. However, replacements of defective batteries are not covered in the Scope of this work but agency has to inform IIT Kharagpur 30 days in advance for replacement of defective batteries.

2.1.6 The servicing of the system shall be done smoothly including fire detector system and random checking and heat detectors periodically by heat and smoke.

2.1.7 The system shall be kept in fully working condition till completion of contract. The firm will arrange handing over of the total system in fully functional condition on completion of the contract.

2.1.8 Agency has to inform IIT kharagpur 30 days in advance for replacement of defective / unserviceable items . Agency has to provide list of spares with current year price list..

2.1.9 The firm shall depute one qualified and Skilled supervisor having 3 years relevant Experience in maintenance and operation of firefighting system & Addressable fire alarm system to check the whole system once in every month and shall maintain a test record signed by them and got countersigned by from the Engineer of the IIT Kharagpur. The firm shall submit a list of person deployed for the work.

2.1.10 The firm has to arrange for testing all the fire pumps in the presence of IIT Kharagpur Engineer once in a month. The test include running of the pressurization pumping set in case of loss of pressure of fire hydrant system and running of diesel engine pump by artificial closure of electricity. Creating the pressure loss in the pipelines shall test the electricity driven pump set. Test Pressure at the farthest end, bottom most ends and at pump set one of the yard hydrants shall be taped for operation on the same day by creating the desired jet, such test shall be done at least once in a month in the presence of Engineer.

2.1.11 The IIT Kharagpur Engineer or his representative shall have access to installation during all hours.

2.1.12 Maintaining test being conducted to check the operation/readiness of the system shall be contractor’s responsibility.

2.1.13 The servicing & overhauling of the fire pumps, jockey pump, motor and engine shall be done twice in a year, during the 1st quarter and 3rd quarter of the contract period to the entire satisfaction of the Engineer nothing extra shall be paid on this account. All consumables will be supplied by contractor.

2.1.14 IIT Kharagpur shall be in no way be involved in any dispute of whatever kind between the contractor & the staff engaged by him.

2.1.15 Contractor would be bound to execute such additional item which can be termed as logical essential & necessary (even though not listed in schedule of work) for the effective execution of the work. In totally rates for such extra items of work shall be rationally analyzed/derived & would be binding on the contractor.
2.1.16 Re-filing of Fire Extinguishers will be arranged by IIT Kharagpur at its own cost OR as per Rate contract with the contractor after allotting the job.

2.1.17 The contractor undertaking the job is advised to verify the particular as detailed in annexure-VII & satisfy itself as regards to the conditions & quantity. On termination of the contract the contractor shall have to hand over the installation in good working condition.

2.1.18 No tools & plants shall be supplied by the department.

2.1.19 CONSUMABLES:- Distilled water for batteries, cleaning material such as Vim/surf/cotton/ old dhotis, pilot lamp for indicating lamp, PVC tape etc. gland dori, grease for pump and motors shall be supplied by the contractor.

2.1.20 All sundry spare parts and consumables required in main/zonal control panels like resistance, capacitors, and all cords shall be repaired/replaced free of cost.

2.1.21 All major spare parts required like detectors/sprinklers etc, for keeping the wet riser system in operation shall be arranged by IIT Kharagpur. However, the contractor will promptly inform IIT Kharagpur as and when such requirement arises.

2.1.22 Agency has to submit complaint escalation matrix

2.1.23 Agency has to furnish contact details (Telephone and mobile nos.) of all personnel.

2.1.24 All normal complaints has to be attended within 24 hours, otherwise penalty of Rs. 500/- each complaint shall be imposed due to non-attending the complaints within 24 hours. If any hindrance comes during attending the complaint, the same has to be reported to Engineer.

2.1.25 The Agency shall also attend any breakdown call and emergency call in Fire Pump and Fire Panel immediately within 30 (Thirty) minutes, otherwise penalty of Rs. 1000/- each complaint shall be imposed due to non-attending the breakdown/emergency complaints within 30 minutes. Agency has to furnish arrangement details (Personnel name with contact nos.) for attending breakdown/emergency call.

2.1.26 The Agency should have valid license/Registration from WBFES for related work

2.1.27 The Agency has to follow the guidelines of WBFES/NFA for maintaining the Fire Fighting, detection and alarm system through certified and or licensed personnel.

2.2 GENERAL INSTRUCTIONS

2.2.1 Bidding documents are to be obtained electronically through websites:

http://www1.iitkgp.ac.in/topfiles/tenders.php.

ii) https://eprocure.gov.in/eprocure/app

2.2.2 This bid document shall be read in conjunction with GCC (General Conditions of Contract) available on

http://www1.iitkgp.ac.in/topfiles/tenders.php.

2.2.3 The bidder shall visit and inspect the site and obtain all information on his own responsibility and at own cost, which may be necessary for the purpose of quoting and submitting the tender. No excuse or ignorance as to site conditions and local information shall be accepted after awarding of the contract. Access to the site will be granted by the Engineer-in-charge on all working days within working hours.

2.2.4 IITKGP shall not provide any space at site for labour hutsments.

2.2.5 All clarifications about the tender shall be sought by bidder on or before pre-bid meeting. The bidders may make suggestions which shall be considered during the Pre Bid Meeting. Intending bidder(s) may also send their queries or suggestion, if any, through e-mail to the Engineer-in-charge on maheshkr@hijli.iitkgp.ernet.in on or before 16th February 2022, 10.30 hrs. No queries shall be entertained after notification of replies to noteworthy queries received till the date of pre-bid meeting.

2.2.6 Completion certificate issued by Competent Authority will only be considered as credential. If the Completion certificate issued by Competent Authority does not reflect the type of work, then Final bill / Schedule of Quantity of the qualifying works also to be attached along with the Completion certificates. Certificate from private individuals / organizations for whom such works have been executed shall not be accepted.

2.2.7 The bidding document (consisting of specifications, the schedule of quantities of various types of items to be executed, the set of terms and conditions of the contract and other documents / drawings, if any), Addendum/Corrigenda, Clarifications to Pre-bid queries can be downloaded from the websites:

i) http://www1.iitkgp.ac.in/topfiles/tenders.php; ii)https://eprocure.gov.in/eprocure/app. Corrigenda, if
any shall be published only on these websites at any time before the closing time of tender. The institute shall not be responsible for any delay / difficulties / inaccessibility of downloading facility for any reason whatsoever. The tenderers who have downloaded the tender documents from websites must visit the website and ensure that such addendum(s)/corrigendum(s) (if any) is also downloaded by them. This shall be the responsibility of the prospective registered bidders to check the website for any such corrigendum/addendum before closing time of tender and ensure that bid submitted by them are in accordance with all the corrigendum’s/addendums.

2.2.8 All costs, charges & expenses that may be incurred in connection with the preparation of his tender shall be borne by him and the Institute accepts no liability whatsoever therefore.

2.2.9 Rates quoted by the bidders shall be inclusive of GST (Goods and Services Tax - Central, State and Interstate) and all applicable taxes. Income Tax and all other statutory deductions like labour cess etc. will be deducted from the bill as per prevailing rules.

2.2.10 Exemption to IITKGP against any tax/ duty/ fee/ surcharge/ charge/ cost, if any, found applicable or sought later from IITKGP after award shall be passed on to IITKGP by the contractor without dispute.

2.2.11 IITKGP reserves the right to reject any or all of the bids without assigning any reason.

2.2.12 Bid Validity: Bid shall remain valid for 120 days from the date of submission.

2.2.13 Firm Price: Bidder’s quoted Rates/Prices for executing the activities under the Contract shall remain firm till completion of the entire work & shall not attract any escalation under any circumstances whatsoever.

2.2.14 If any information furnished by the bidder is found as false / fabricated, then his bid will be rejected and treated as cancelled. Even if the such manipulation is detected at any stage after signing of the contract, it would lead to termination of the contract besides forfeiture of Earnest Money Deposit and liabilities towards prosecution. In such cases the bidder will be debarred from participation in future tendering process in IITKGP for next 01 (One) years.

2.2.15 Earnest Money Deposit (EMD): As Money Deposit (EMD) of requisite amount and that in prescribed mode or proof of payment thereof shall be enclosed with the Technical Bid explained in following section.

2.2.16 Refund / Conversion of Earnest Money Deposit: The Earnest Money received shall be refunded to the unsuccessful bidders without any interest after the opening of financial bids. The Earnest Money Deposit of successful bidder shall be retained and converted into part of Security Deposit.

2.2.17 Forfeiture of Earnest Money Deposit: Earnest Money Deposit will be forfeited in any of the following cases:

2.2.18 The bidder withdraws / modifies his tender during the period of Bid Validity.

2.2.19 The bidder, in case of tie between lowest bids, refuse to submit revised offer.

2.2.20 The bidder does not accept the correction of arithmetical errors of his tender.

2.2.21 The bidder fails to deposit Performance Guarantee and information as per format given in GCC within the stipulated time period before award of the work.

2.3 SUBMISSION OF TENDER

2.3.1 Help for Contractors, FAQ, Information about DSC and Bidders Manual Kit containing the detailed guidelines for e-Procurement system are also available on Central Public Procurement Portal.[https://eprocure.gov.in/eprocure/app]

2.3.2 It is mandatory for all the bidders to have a valid Class-II/Class-III Digital Signature Certificate (in the name of person having power of attorney to sign the Bid) from any of the licensed Certifying Agency (Bidders can see the list of licensed CA’s from the link www.cca.gov.in) to participate in e-Procurement of IIT KHARAGPUR.

2.3.3 It is mandatory for the bidders to get their firm/company registered with e-procurement portal https://eprocure.gov.in/eprocure/app to have user ID & password.

2.3.4 Tender documents will be available online on website https://eprocure.gov.in/eprocure/app which can be downloaded free of cost.
2.3.5 Bidders may download and refer the “Instructions for Online Bid Submission” from (https://eprocure.gov.in/eprocure/app;jsessionid=2A56E178EED5C7D8536175EFBB573C9F.eprocgep2?page=HelpForContractors&service=page).

2.3.6 The tender documents shall be submitted online in the prescribed format given on the websites and technical bids received online shall be opened as per NIT or Corrigendum thereof. No other mode of submission is acceptable. Detailed credentials as per the requirement of eligibility criteria and all tender papers except Bill of Quantities are to be submitted in “Technical Bid”.

Bill of Quantities with rates duly filled in are to be submitted in the format provided online in the name of “Financial Bid”. Hence, physical submission of the documents is limited to submission of MSE registration certificate as per provision given in sub-clause 1.2.7 of NIT & 2.2.15 of Information to Bidders.

Representative of the bidder, who chooses to attend, may attend the online opening of the technical bids on the scheduled date and time of Bid opening. However, such representatives shall be allowed to attend the opening of the Technical Bids, only, if such person presents the letter of authority issued in his name by the bidder on his letter head.

2.3.7 Bidders cannot submit the tender after the due date and time of e-bid submission. Time being displayed on Central Public Procurement Portal https://eprocure.gov.in/eprocure/app (“Server System Clock Time”) shall be final and binding on the bidder. e-Bids are required to be submitted by bidders only as per the Indian Standard Time (IST) and not the time as per their location/country.

2.3.8 The bidders are advised to submit their e-bids well before the e-bid due date. IIT KHARAGPUR shall not be responsible for any delay in submission of e-bids for any reason including server and technical problems.

2.3.9 The Technical and Financial Bid shall be digitally signed by the Authorized Signatory of the bidder & submitted “on-line” only. The authorized signatory of the bidder must be in possession of Power of Attorney before submitting the digitally signed bid. Scanned copies of various documents can be prepared in .pdf file format.

2.3.10 Any tender received without original Earnest Money in the form as specified in clause 1.2.7 of tender documents shall not be considered and shall be summarily rejected.

2.3.11 IIT KHARAGPUR reserves the right to cancel the tenders before submission/opening of tenders, postpone the tender submission/opening date and to accept/reject any or all tenders without assigning any reasons thereof. IIT KHARAGPUR’s assessment of suitability as per eligibility criteria shall be final and binding.

2.3.12 Tenderers may note that they are liable to be disqualified at any time during tendering process in case any of the information furnished by them is not found to be true. EMD of such tenderer shall be forfeited. The decision of IIT

2.3.13 KHARAGPUR in this regard shall be final and binding. The sealed EMDs shall be received at the Office of Senior Executive Engineer (Electrical), 1st Floor, Old Building, IIT Kharagpur, Kharagpur WB 721302, up to 11.00 hrs, 22nd December 2020 or Corrigenda otherwise. EMD received after the due date and time shall not be considered. The EMDs shall be submitted in a sealed envelope super scribed “Supplying, Installation, Testing and Commissioning of 60 kVAR APFC Panel for Kolkata Guest House, Salt Lake.” with NIT No. IIT/E/E&M/T/24/2020-21 as NIT No., clearly super scribed as “EMD”

2.4 EVALUATION OF BIDS AND AWARD OF WORK

2.4.1 The Bid of bidder will be opened on the specified date and time. Bids shall, first, be checked for payment of Earnest Money Deposit. Only those bids found to have duly paid/ submitted Earnest Money Deposit shall be considered for evaluation.

2.4.2 The Bid of bidder will be opened electronically on the specified date and time of opening at the Electrical Maintenance Section, 1st Floor, Old Building, IIT Kharagpur, Kharagpur WB 721302 in the presence of willing bidders or their authorized representatives.

2.4.3 Date, time and place of opening of Financial Bid will be informed after evaluation of Technical Bid to the Technically Qualified Bidders.

2.4.4 Evaluation of Technical Bid: The bids received will then be assessed on the eligibility criteria mentioned at Para1.3 of Notice Inviting Tender. Bids found not meeting the eligibility criteria shall be considered non-responsive and shall be rejected summarily.
2.4.5 IITKGP retains the right to revert back to individual bidders with further clarifications / queries on the Technical Bid. The bidder has to respond to the queries within the specified time mentioned in the covering letter.

2.4.6 On the date & time specified for opening of Financial Bid or the Revised Financial Bids as the case may be will be opened on specified date and time.

2.4.7 **EVALUATION OF Financial Bids:** The Financial Bid should contain the complete bid document with duly filled in Schedule of Financial Quote. Financial Bids opened as above will be checked for arithmetical errors.

2.4.8 **Letter of Acceptance:** The successful bidder shall be issued Letter of Acceptance (LOA) of the bid, and be required to furnish a Performance Guarantee as per General Conditions of Contract, Program Schedule with specific Milestones to be achieved as to complete the work within the stipulated time limit, details of his Technical Staff to be deployed as per ANNEXUREI, and complaint handling arrangement for the Defect Liability Period.

2.4.9 **Letter of Award (Work Order) shall be issued to the successful bidder only after receipt of the Performance Guarantee, along with Program Schedule, details of Technical Staffs to be deployed for the work and Complaint Redressal Mechanism as per following para.**

- **(a)** Contractor shall submit Complaint redressal arrangement with name & contact number of the contractor’s authorized representative for the purpose.

2.4.10 **Agreement (Contract)** consisting of complete tender document including conditions, bill of quantities, technical proposal and specialized services, drawings, if any, and acceptance thereof together with any correspondence leading thereto, shall be drawn and signed with the awardee within 10 days of the Letter of Award.

2.4.11 **Date of start of work shall be reckoned from the 07th day of the issue of the Letter of Acceptance.**

2.4.12 **Defect Liability Period (DLP):** In partial modification to clause no.16 of General Conditions of Contract (GCC), the Defect Liability Period shall be **12 months** after the certificate final or otherwise of its completion of work or till the final bill has been prepared.

2.5 **COMPLAINT REDRESSAL MECHANISM**

2.5.1 All maintenance complaints shall be got addressed by the contractor to the satisfaction of Engineer-in-charge within 3 days from the date of issuance of the “Job Card” from IIT Kharagpur.

2.5.2 Complaints requiring completion time more than 3 days shall be responded specifically by the contractor with the scheme, in consultation with Engineer-in-charge, and timeline for compliance, to the Engineer-in-charge within 3 days from the date of issuance of the “Job

2.5.3 Any complaint left unattended by the contractor beyond 3 days without specific reasons on record shall attract levy of penalty of Rs 50/- per complaint per day from 4th day to 7th day and Rs 100/- per complaint per day thereafter recoverable from dues to the contractor.
2. UNDERTAKING BY THE BIDDER

UNDERTAKING

I / We have read and examined the Tender document including terms & conditions, specifications, bill of quantities, drawings and designs, general rules & directions, General Conditions of Contract, Special Conditions of Contract and all relevant other documents, publications and rules referred to in the Conditions of Contract and all other contents in the tender documents for the work.

I / We, hereby tender for execution of the work specified for the Indian Institute of Technology Kharagpur within the time specified and in accordance in all respects with the specifications, designs, drawings and instructions in writing.

We agree to keep the tender open for 120 days from the last date of its submission and not to make any modifications in its terms and conditions. A sum of Rs. __________ has been deposited in cash / demand draft of a scheduled bank / Pay order as earnest money. If I / we, fail to furnish the prescribed performance guarantee within prescribed period, I / we agree that the said Director, Indian Institute of Technology Kharagpur or his authorized officer shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I / we fail to commence work as specified, I / we agree that the Director, Indian Institute of Technology Kharagpur shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said earnest money and the performance guarantee absolutely, otherwise the said earnest money shall be retained by him towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein.

Further, I / We agree that in case of forfeiture of earnest money or both Earnest Money & Performance Guarantee as aforesaid, I / We shall be debarred for participation in the re-tendering process of the work.

I / We hereby declare that I / We shall treat the tender documents, drawings and other records connected with the work as secret / confidential documents and shall not communicate information derived there-from to any person other than a person to whom I / We am / are authorized to communicate the same or use the information in any manner prejudicial to the safety of the State.

Seal & Signature of Contractor
Postal Address

Dated

Witness

Address

Occupation
ANNEXURE-I

TECHNICAL STAFF OF CONTRACTOR

Name of the Work: **ANNUAL MAINTENANCE OF FIRE DETECTION, FIRE ALARM, FIRE-FIGHTING & PUBLIC ADDRESS SYSTEM IN DIFFERENT BUILDINGS OF IIT KHARAGPUR**

<table>
<thead>
<tr>
<th>DISCIPLINE</th>
<th>NAME</th>
<th>QUALIFICATION</th>
<th>EXPERIENCE</th>
<th>CONTACT NUMBER</th>
</tr>
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<tbody>
<tr>
<td>Overall Project In-charge</td>
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<tr>
<td>Engineer - Structure and Civil Works</td>
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<td>Engineer – Electrical &amp; Mechanical Works</td>
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<td>In-charge - Safety, Health &amp; Environment</td>
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<td>In-charge for Maintenance (DLP) period</td>
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Seal & Signature of Contractor
UNDERTAKING FOR GCC COMPLIANCE

UNDERTAKING

We hereby undertake that we shall fulfill all the terms & conditions within the specified time frame, after the acceptance of our offer in case our offer is accepted; failing which IIT KHRAGPUR may go ahead to take necessary action such as reporting the non-compliance to appropriate Government authorities and barring us from future participation in IIT KHRAGPUR works.

Seal & Signature of Contractor

DATED:
ANNEXURE - III

Bid Security Declaration Form

Date:__________________________Tender No.__________________________
__________________________ To (Insert complete name and address of the purchaser)

I/We, The undersigned, declare that:

I/We understand that, according to your conditions, bids must be supported by a Bid Security Declaration.

I/We, accept that I/we may be disqualified from bidding for any contract with you for a period of one year from the date of notification if I am/We are in a breach of any obligation under the bid conditions, because I/We

a) Have withdrawn/modified/amended, impairs or derogates from the tender, my/our Bid during the period of bid validity specified in the form of Bid; or

b) having been notified of the acceptance of our Bid by the purchaser during the period of bid validity (i) fail or refuse to execute the contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the Instruction to Bidders.

I/We understand this Bid Securing Declaration shall cease to be valid if I am/We are not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid.

Signed: (insert signature of person whose name and capacity are shown)

In the capacity of (insert legal capacity of person signing the Bid Securing Declaration)

Name: (insert complete name of person signing the Bid Securing Declaration)

Duly authorized to sign the bid for an on behalf of (insert complete name of Bidder)

Dated: on ................................day of ........................................ (Insert date of signing)

Corporate seal (where applicable)
## ANNEXURE - IV

### DETAILS OF THE FIRM

<p>| | |</p>
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<tr>
<td>1</td>
<td>Name of Firm</td>
</tr>
<tr>
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<td>Registered / Postal Address</td>
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<td>3</td>
<td>Working Office Address</td>
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<tr>
<td>4</td>
<td>Working Email id</td>
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<tr>
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<td>Mobile No.</td>
</tr>
<tr>
<td>6</td>
<td>Telephone No.</td>
</tr>
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<td>7</td>
<td>Particulars of Registration with various government bodies/organization.</td>
</tr>
<tr>
<td>8</td>
<td>Were you ever debarred/ blacklisted by any department during the past seven years?</td>
</tr>
<tr>
<td>9</td>
<td>Name of Directors /Partners with Address</td>
</tr>
<tr>
<td>10</td>
<td>Permanent Account Number (PAN) No</td>
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<tr>
<td>11</td>
<td>GST Registration No.</td>
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</table>
3. MAINTENANCE SCHEDULE:-

Maintenance of Fire Alarm, Fire hydrant and Public Address System. The following work/checks are required to be performed on Monthly / Quarterly / Half Yearly basis and record all the activities in the log book with date and time.

1. Monthly Checks
   a. Check the fire circuit of each zone from the panels.
   b. Check whether signals of fire and fault get transmitted from zonal panel to main panel.
   c. Performance checks of the hooters.
   d. Performance checks of manual call points.
   e. Operational readiness of system during mains failure.
   f. Check battery healthiness in all respect.
   g. All valve, motor and pump functioning.
   h. All motor starter and electrical fire /control panels.
   i. Checking of Water discharge
   j. Checking of detectors
   k. Checking of Diesel driven pump
   l. Checking of PA system

2. Quarterly Checks
   a. Check fault circuit of each zone by actually disconnecting wire by removing a detector.
   b. Check fire circuits by actual smoke to one detector of each zone as per standard practices.
   c. Cleaning of all type of detectors with cloth piece from outside.

3. Half Yearly
   a. Clean all the detectors with cleaner.
   b. Performance of system and smoke to one detector before they are cleaned.
   c. Overhauling of all pumps irrespective of its capacity.
   d. Mock drill of fire fighting system
   e. To maintain the wet riser system the contractor should carry out the following operation in the presence of departmental officials.
      a. Check the system with water pressure of minimum 6 kg/cm²
      b. Running of the fire hydrant pump, motor pump and diesel engine pump.
      c. Checking of water leakage in the system.
      d. Checking of control panel.
      e. Checking of hooters, siren and MCP for proper working.
<table>
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<tr>
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<th>Sprinkler</th>
<th>Hose Reel</th>
<th>Hose Box</th>
<th>Hydrant Valve</th>
<th>RRL Hose</th>
<th>Main Pump</th>
<th>Jockey Pump</th>
<th>Terrace Pump</th>
<th>Elect Panel</th>
<th>Detector</th>
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1. Checklist for Documents to be uploaded on [https://eprocure.gov.in/eprocure/app](https://eprocure.gov.in/eprocure/app)

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<th>Sl. No.</th>
<th>Documents</th>
<th>Reference</th>
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<tr>
<td>1.</td>
<td>Tender Documents (sign. With stamp on each page)</td>
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<tr>
<td>2.</td>
<td>EMD scan copy (has to be submitted physically at the office of SE (E&amp;M) on or before the due date/extended date of submission of bid.)</td>
<td>1.2.5</td>
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<td>3.</td>
<td>Company registered by Govt. Organisation like CPWD/PWD/MES/Autonomous bodies or Other PSUs</td>
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<td>6.</td>
<td>Completion Certificate during last 07yrs.</td>
<td>1.3.2</td>
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<td>7.</td>
<td>Updated Electrical Contractor License</td>
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<td>8.</td>
<td>ANNEXURE-I, II, III and IV</td>
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<td>9.</td>
<td>The Average annual turnover of the bidder as per ITCC or profit &amp; loss statement, during last 5 years ending 31 Mar 2021.</td>
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<td>10.</td>
<td>BOQ under financial bid section</td>
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** Please upload necessary documents only.

Signature of contractor
## 4. SCHEDULE OF QUANTITIES (SOQ)

**Name of the Work:** ANNUAL MAINTENANCE OF FIRE DETECTION, FIRE ALARM FIRE-FIGHTING AND PUBLIC ADDRESS SYSTEM IN DIFFERENT BUILDINGS OF IIT Kharagpur

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<th>LOCATION</th>
<th>Unit</th>
<th>Quantity</th>
<th>RATE</th>
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<td>Year</td>
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<td>2</td>
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<td>Year</td>
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<td>4</td>
<td>VSRC (GIRLS &amp; BOYS 2 BLOCKS)</td>
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<td>MSA (4 BLOCKS)</td>
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<td>8</td>
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<td>9</td>
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<td><strong>TOTAL</strong></td>
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</table>

*Please submit BOQ under financial bid section*
Special Condition for Electrical work

1. The work shall be carried out as per national code or C. P. W. D specifications for works with correction slips issued up-to-date unless otherwise specified in the schedule of quantities for the works.

2. The following Indian Standard Specifications and Codes of Practice will apply to the equipment and the work covered by the scope of this contract. In addition, the relevant clauses of the Indian Electricity Act 1910 and Indian Electricity Rules 1956 as amended up to date shall also apply. Wherever appropriate Indian Standards are not available, relevant British and/or IEC Standards shall be applicable.

   BIS certified equipment shall be used as a part of the Contract in line with Government regulations. Necessary test certificates in support of the certification shall be submitted prior to supply of the equipment.

   It is to be noted that updated and current Standards shall be applicable irrespective of those listed below.

   Low voltage Switchgear and Controlgear specifications IS 13947 : 1993

   Part I – General

   Part 2 – Circuit Breakers

   Part 3 – Switch Fuse Units

   Part 4 – Contactors and Motor Starters

   Part 5 – Control Circuit Devices

   Electrical Relays for power system protection IS 3231 : 1986

   Low voltage Switchgear and Control gear assemblies IS 8623 : 1993

   Marking of Switchgear busbars IS 11353 : 1985

   Degree of Protection of Enclosures for low voltage switchgear IS 2147 : 1962

   Code of Practice for selection, installation and maintenance of Switchgear IS 10118 : 1982

   FIRE DETECTION, FIRE ALARM FIRE-FIGHTING AND PUBLIC ADDRESS SYSTEM IS 15908: 2011

4. No underground work or above the false ceiling shall be covered until the same has got approved by the Engineer-in-charge. The contractor will supply the drawings of specific works for approval, if required

5. All the old wiring has to be dismantled with proper care. The reusable old materials if any are to be handed over to departmental store with proper documentation and the other non-reusable (nil reselling value) will be disposed by the contractor. The contractor shall clear the site thoroughly of all scaffolding materials & rubbish etc. left out of his work & dress the site around the building to the satisfactions & his decision in writing shall be final & binding on all concerned

6. Special care to be taken to avoid any theft of electrical fittings and fixtures while executing the work.

7. The location of Panel / DB / Switch board / Light point / Fan point will be as per existing location or as per the instruction of Engineer-in-charge.

8. All the wiring will be done with feruling and cable / Wire termination by required size or lugs of required materials and It should be noted that license wire man shall only be allowed for the wiring work.

Electrical safety at work site

The contractor will identify one of the supervisors for taking care of implementation of Safety systems.

The Contractor should follow the following General Guidelines governing the safety rules as laid down under:

Usage of eye protection equipment shall be ensured when workmen are engaged for grinding, chipping, welding and gas-cutting. For other jobs as and when site safety co-ordinator insists eye protection has to be provided.

1. All safety appliances like Safety shoes, Safety gloves, Safety helmet, Safety belt, Safety goggles etc. shall be arranged before starting the job.

2. All excavated pits shall be barricaded & barricading to be maintained till the backfilling is done. Safe approach to be ensured into every excavation.

3. All the dangerous moving parts of the portable / fixed machinery being used shall be adequately guarded.

4. Ladders being used at site shall be adequately secured at bottom and top. Ladders shall not be used as work platforms.
5. Material shall not be thrown from the height. If required, the area shall be barricaded and one person shall be posted outside the barricading for preventing the tre-passers from entering the area.

6. Other than electricians no one is allowed to carry out electrical connections, repairs on electrical equipment or other jobs related thereto.

7. All electrical connections shall be made using 3 or 5 core cables, having a earth wire.

8. Inserting of bare wires for tapping the power from electrical sockets is completely prohibited.

9. A tools and tackles inspection register must be maintained and updated regularly.

10. Debris, scrap and other materials to be cleared from time to time from the workplace and at the time of closing of work every day.

11. All the unsafe conditions, unsafe acts identified by contractors, reported by site supervisors and / or safety personnel to be corrected on priority basis.

12. No children shall be allowed to enter the workplace.

13. All the lifting tools and tackles shall be stored properly when not in use.

14. Clamps shall be used on Return cables to ensure proper earthing for welding works.

15. All the pressure gauges used in gas cutting apparatus shall be in good working condition.

16. Proper eye washing facilities shall be made in areas where chemicals are handled.

17. Connectors and hose clamps are used for making welding hose connections.

18. All underground cables for supplying construction power shall be routed using conduit pipes.

19. Spill trays shall be used to contain the oil spills while transferring / storing them.

20. Tapping of power by cutting electric cables in between must be avoided. Proper junction boxes must be used.

21. Non-compliance to above shall invite a penalty recovery as per 3.22.8.