

# **TENDER FOR WORKS**

## *Fire Alarm and Suppression System at NCPOR*



*NATIONAL CENTRE FOR POLAR AND OCEAN RESEARCH*

*(Ministry of Earth Sciences, Govt. Of India)*

*Headland Sada, Vasco-da-Gama*

*GOA -403 804, INDIA.*

*Tel: 91- (0) 832 252542*

*ESTATE- SECTION*

*Email: [ravikant@ncpor.res.in](mailto:ravikant@ncpor.res.in)*

*Website: [www.ncpor.gov.in](http://www.ncpor.gov.in)*

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## **E-Tender Notice**

### **PUBLIC TENDER**

Director, National Centre for Polar& Ocean Research (NCPOR) invites **e-tenders** in Two-parts (Technical and Commercial bid) from well-established Bidders for works of the following through only online e-procurement portal i.e. <http://eprocure.gov.in/eprocure/app>

| Sl. No. | e-Tender No.               | Item Description                           | Type of tender | Qty.   | EMD in RS. |
|---------|----------------------------|--------------------------------------------|----------------|--------|------------|
| 01      | NCPOR/Estate/ET-03/2025-26 | Fire Alarm and Suppression System at NCPOR | Two bid        | 01 Lot | 3,54,000/- |

Bidders can download complete set of bidding document from e-procurement platform [http://eprocure.gov.in/eprocure /app](http://eprocure.gov.in/eprocure/app) from **03.11.2025 18.00** Hrs. onwards.

The e-tender notice is also available in our website <http://www.ncpor.gov.in>.

Bidders have to submit the bids online by uploading all the required documents through <http://eprocure.gov.in/eprocure/app>

Bid Submission End date : **24.11.2025 17.00 Hrs.**

Bid Opening date : **26.11.2025 10.00 Hrs.**

**Bids for this tender will be accepted through online only. Manual bids will not be accepted under any circumstances.**

The Director, NCPOR reserves the right to accept or reject any quotation in full or part thereof without assigning any reason.

**Sd/-**  
**For & on behalf of NCPOR**

**NATIONAL CENTRE FOR POLAR AND OCEAN RESEARCH**  
**(Ministry of Earth Sciences, Govt. Of India),**  
**HEADLAND SADA, VASCO-DA-GAMA,**  
**GOA - 403 804**

**E-TENDER NO: NCPOR/Estate/ET-03/2025-26**  
**FIRE ALARM AND SUPPRESSION SYSTEM AT NCPOR.**

e-Procurement portal i.e. <http://eprocure.gov.in/eprocure/app>  
**Manual bids will not be accepted under any circumstances.**

|    |                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                             |
|----|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| 1. | <b>Fire Alarm and Suppression System at NCPOR:</b> | As per Annexure-IV,V,VI,VII,XII & XV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                             |
| 2. | General Terms and Conditions                       | As per Annexure I, II, III, VIII, IX, X, XI, XIII & XIV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             |
| 3. | EMD                                                | <p><b>Bidders shall submit EMD either by DD drawn in favor of NCPOR, for a sum of Rs 3,54,000/-/- (Rupees Three lakh, Fifty-Four Thousand only) payable at Vasco-da-Gama only.</b></p> <p style="text-align: center;"><b>Or</b></p> <p><b>In the form of a bank guarantee for a sum of Rs 3,54,000/-/- (Rupees Three lakh, Fifty-Four Thousand only) The scanned copy of DD/BG is to be uploaded in the CPP Portal while submitting the bid.</b></p> <p><b>The Original DD/BG towards EMD should reach NCPOR within the bid submission date and time for the tender.</b></p> <p><b>Bids received without EMD will be rejected.</b></p> |                             |
|    | Critical Dates                                     | <b>Date<br/>(DD/MM/YYYY)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Time<br/>(Hrs. Mins)</b> |
|    | Tender Publishing date                             | <b>03.11.2025</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>18:00</b>                |
|    | Document download start date                       | <b>03.11.2025</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>18:00</b>                |
|    | Document download end date                         | <b>23.11.2025</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>17:00</b>                |
|    | Seek Clarification end date                        | <b>17.11.2025</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>17:00</b>                |
|    | Bid Submission start date                          | <b>03.11.2025</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>18:00</b>                |
|    | Bid Submission end date                            | <b>24.11.2025</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>17:00</b>                |
|    | Bid opening date                                   | <b>26.11.2025</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>10:00</b>                |

**Instruction for online Bid Submission:**

The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The Instruction given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More Information useful for submitting online bids on the CPP Portal may be obtained at:

<https://eprocure.gov.in/eprocure/app>.

**REGISTRATION**

- 1) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <https://eprocure.gov.in/eprocure/app> by clicking on the link "Online Bidder Enrollment" on the CPP Portal which is free of charge.
- 2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- 3) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- 4) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any certifying Authority recognized by CCA India (e.g. Sify/TCS/nCode/eMudhra etc.), with their profile.
- 5) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC's to others which may lead to misuse.
- 6) Bidder then logs into the site through the secured long-in by entering their user ID/password and the password of the DSC/e-Token.

**SEARCHING FOR TENDER DOCUMENTS**

- 1) There are various search options built in CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, date, other keywords etc. to search for a tender published on the CPP Portal.
- 2) Once the bidders have selected the tenders they are interested in, they may download the requirement documents/tender schedules. These tenders can be moved to the respective 'My Tenders' folder, this would enable the CPP Portal to intimate the bidders through SMS/e-mail in case there is any corrigendum issued to the tender document.

- 3) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification/help from the helpdesk.

### **PREPARATION OF BIDS**

- 1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- 2) Please go through the tender advertisement and the tender document carefully to understand these documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents-including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- 3) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender documents/schedule and generally, they can be in PDF/XLS/RAR/DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- 4) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Space" or "other Important documents" area available to them to upload such document. These documents may be directly submitted from the "My Space" area while submitting a bid, and need to be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

### **SUBMISSION OF BIDS**

- 1) Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- 2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender documents.
- 3) Bidder has to select the payment option as "offline" to pay the EMD as applicable and enter details of the instrument.
- 4) Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The detail of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy

and the data entered during the bid submission time. Otherwise then uploaded bid will be rejected.

- 5) Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BOQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BOQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed the bidder should save it and submit it online, without changing the filename. If the BOQ file is found to be modified by the bidder, the bid will be rejected.
- 6) The server time (which is displayed in the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during the bid submission.
- 7) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured socket Layer 128 bit encryption technology, data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric keys. Further this key is subjected to asymmetric encryption using buyers/ bid openers public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 8) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 9) Upon the successful and timely submission of bids (i.e. after clicking "Freeze Bid Submission in the portal), the portal will give a successful bid submission message and a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
- 10) The bid summary has to be printed and kept as an acknowledgement of the submission of the bid and may be used as an entry pass for any bid opening meetings.

#### ASSITANCE TO BIDDERS

- 1) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.

- 2) Any queries relating to the process of the online bid submission or queries relating to CPP Portal in the general may be directed to the 24x7 CPP Portal Helpdesk. The contact number for the helpdesk is 180030702232.

**INSTRUCTION TO THE BIDDERS**

1) The Director, National Centre for Polar and Ocean Research (NCPOR) invites online e-Tender in two part from the reputed firms for the **“Fire Alarm and Suppression System at NCPOR” through only online e-procurement portal** i.e. <http://eprocure.gov.in/eprocure/app> as per the specifications given in Annexure-I. **Bids for this tender will be accepted through online only. Manual bids will not be accepted under any circumstances. The Eligibility Criteria is as below:**

Eligibility Criteria: The bidder should have,

- (a) Executed at least One ‘Single work’ of Rs. 94 Lakhs or above or Two ‘Single work’ of Rs.59 Lakhs or above or Three ‘Single work’ of Rs 47 Lakhs or above during the last seven years ending March 2025 in any Government/PSU/Reputed Organizations. ‘Single work’ here is defined as ‘Execution of Fire alarm system’.
- (b) Minimum Average Annual Turnover of the bidder (For Last 3 Years) 70 Lakhs or above ending March 2025. (Please provide audited Balance sheet/ CA Certified P/L Statement and ITR)
- (c) GST Registration
- (d) PAN/TAN number
  - The bidder should fulfill all above eligibility criteria to become eligible for participating in this tender.
  - Self-attested copies of all above documents should be uploaded. The original documents should be presented for verification as & when asked.

2) The time period for completion of work is 120 days from the date of award of the work order.

3) The bids should be submitted in Two Bid containing **Technical and Commercial bid**.

**I) Technical bid should contain** all details and specifications of the item offered, delivery schedule, payment term, etc.

In the TECHNICAL BID, the Bidder should furnish the Name and address of the Purchaser placed orders on similar item with order No, date, Description and quantity, Date of Supply without price along with Contact person Telephone No, Fax No, and e mail address of Purchaser.

**II) Commercial bid should contain** details of the price(s) of the item(s) quoted in the technical bid. **The price bid or Bill of Quantity** will be in Excel format. The bidders are requested to note that they should necessarily submit their financial bids in the format provided in the tender and no other format is acceptable. Bidders are requested to download the BOQ file, open it and complete the unprotected cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. **Once the details have been completed the bidder should save it and submit it online without changing the file name.** If the BOQ file is found to be modified by the bidder, the bid will be rejected.

4) Overwriting and corrections should be attested properly. The bid should be complete in all respects and should be duly signed, the signed bid only should be uploaded. **Incomplete and unsigned bids will not be considered at all.**

5) The bid should contain all relevant technical literature pertaining to items quoted **with full specifications** (Drawing, if any), information about the products quoted, including brochures if any.

6) Any/Firm/company which is black listed from any organization&/or facing/having faced any legal/criminal action/case are not eligible for this tender & should not apply.

7) If the bidder is registered under MSME, NSIC and claiming any exemptions should submit valid certificates along with the quotes, failing which exemptions will not be considered.

8) Bid should be **valid for a period of 90 days** from the date of tender opening for the purpose of acceptance and award of work.

**9) Technical bid should contain EMD.**

Bidders shall submit EMD either by DD drawn in favor of Director, NCPOR, on any nationalized bank for a sum of **Rs 3,54,000/- (Rupees Three lakh, Fifty-Four Thousand only)** payable at Vasco-da-Gama or in the form of a bank guarantee for an sum of **Rs 3,54,000/- (Rupees Three lakh, Fifty-Four Thousand only)** from any reputed bank (scheduled bank) initially valid for 180 days from the date of closing tender as per the proforma (Annexure XIV). The scanned copy of DD/BG is to be uploaded in the CPP Portal while submitting the bid.

The Original DD/BG towards EMD should reach NCPOR within the bid submission date & time for the tender.

Bids received without EMD will be rejected.

The EMD of unsuccessful bidders shall be returned within 30 days of the award of contract.

The earnest money will be liable to be forfeited, if the tenderer withdraws or amends, impairs or derogates from the tender if any respect within the period of validity of his tender.

10) NCPOR requires that the bidders, suppliers and contractors observe the highest standard of ethics during the procurement and execution of such contracts. In pursuit of this policy, the following are defined:

“Corrupt practice” means the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the action of a public official in the procurement process or in contract execution:

“fraudulent practice” means a misrepresentation or omission of facts in order to influence a procurement process or the execution of contract;

“collusive practice” means a scheme or arrangement between two or more bidders, with or without the knowledge of purchaser, designed to establish bid prices at artificial, noncompetitive levels; and

“coercive practice: means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the procurement process or affect the execution of contract;

NCPOR will reject a proposal for award if it determines that the Bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for the contract in question; The Decision of Director, NCPOR shall be final and binding.

11) A tender is liable for disqualification, if bidder is found to have mislead or furnished false information in the forms / statements / certificates submitted in proof of qualification requirements or record of performance such as abandoning execution of the works, litigation history &/ or financial failures and or suppression of material facts and information.

14) A Committee constituted by the Director, NCPOR for the purpose reserves the right to open the bids. Technical & Financial bids will be decrypted and opened online on the date and time mentioned in the tender document.

15) A technical Committee/engineer constituted/appointed by the Director will assess the work done by supplier for their quality and their conformity to the specifications provided by the firm in their quotations. Any item(s) identified by the Committee/engineer to be not as per the specifications or are found to be of inferior quality will be rejected, and the bills towards the work will not be processed for payment till proper replacements are provided.

16) The submission of tender shall be deemed to be an admission on the part of the tenderer, that the contractor is fully acquainted with the specifications, drawings etc. and no claim other than what stated in the tender shall be paid in the event of award of Work Order.

17) Acceptance of this tender form and submission of the quote within the stipulated time would be treated as:

a) The tenderer has understood all requirements as described in our Tender document.

b) Acceptance to provide/establish all the facilities mentioned in our tender without any price escalation, if the tenderer finds it necessary to add any hardware or software or any other materials during implementation.

c) Agreeing to execute order to the satisfaction of NCPOR or its authorized representatives within the stipulated time.

18) NCPOR will not be liable for any obligation until such time NCPOR has communicated to the successful bidder of its decision to release the Work Order.

19) Bidders shall note that NCPOR will not entertain any correspondence or queries on the status of the offers received against this Tender Invitation.

20) The Director, NCPOR does not bind to accept the lowest quotation and reserves the right to himself, to reject or partly accept any or all the quotations received without assigning any reason.

21) All disputes arising in connection with executing the Work order will be subject to the Jurisdiction of the Courts in Goa only.

22) Defects Liability Period (DLP): The DLP for the entire work is One year or if beyond, it should be as per standard OEM warranty from the date of completion of the entire work as certified by the Estate In

charge. If any defect is found in the work during DLP, the Contractor has to rectify the same immediately at his own cost. In case agency fails to rectify the defects as per satisfaction of the engineer-in-charge, the same shall be got rectified from the guarantee bond amount available with the department. In such situation additional penalty @ Rs. 1000/- per defect not rectified by the agency shall also be imposed against the agency. This shall be in addition to the recovery of actual cost of defect rectification work got executed by the engineer-in-charge.

24) Security Deposit (SD): It is 10% amount of the final bill value. It is an interest free deposit which will be released only after successful completion of the CAMC period of 05 years in totality. EMD of the successful bidder will be converted into SD. The balance SD will be deducted from the Final bill amount of the Contractor.

25) **Payment Terms:** No advance payment shall be made. Payment to the Contractor will be made within 30 days upon submission of the bill in duplicate after satisfactory completion of the entire work as per the actual quantity executed after deduction of statutory taxes. Measurements pertaining to the bill such as the quarterly activity reports and service report are to be recorded jointly by representative of the contractor and Engineer in charge NCPOR. [As per the Govt. of India norms, payment to the Contractors are made online through Public Financial Management System (PFMS). The Contractor should submit his bank & other details in the prescribed format along with the bill.]

26) Successful bidder should commence the work within two weeks from the date of award of work order if not the earnest money will be forfeited.

27) Tenders with conditional Pricing or Conditional tender will not be considered. The evaluation of the tender shall be done based on the technically qualified L1 lump-sum price of the work.

28) It is mandatory to quote all items of the BoQ. If all items are not quoted then bid will be considered incomplete & will be rejected outrightly.

29) In case of termination of contract, the Security deposit shall be forfeited

30) Project management: The agency to submit a detailed program chart for the execution of work, clearly indicating all the activities from start to completion of project before commencement of work. The representative drawing for major components of the project has been provided in the tender. However, the actual drawing for execution, of each of these items, should be submitted to NCPOR, for approval, before proceeding ahead with the work. The agency also to submit a tentative program chart of execution of the project, along with technical bid.

ANNEXURE – IISTANDARD TERMS AND CONDITIONS OF THE CONTRACT**1. INTERPRETATION:**

- a. In construing these conditions the Specifications, the Schedule of Rates, additional Conditions and Agreement, the following words shall have the meanings herein assigned to them except where the subject or context otherwise requires.
- b. The contract shall comprise of the Articles of Agreement, General Conditions of Contract, Additional Conditions, Scope of Work, the Schedule of Rates, Specifications, Drawings, Work Order, Work Order Acceptance and other documents mentioned in the tender.

**WORK OR WORKS:** shall mean all work or works defined in Schedule of Rates. Specifications, Scope of Work and such other work or works as the Contractor may be entrusted with for carrying out under the contract.

**EMPLOYER:** shall mean the Director, NCPOR (National Centre for Polar and Ocean Research) or any Officer authorized by the Director for the purpose.

**ENGINEER:** shall mean the NCPOR Engineer designated by the Employer to superintend and perform other duties as indicated in the contract.

**CONTRACTOR:** shall mean the individual or Firm or Company, whether incorporated or not, undertaking the work and shall include the legal personal representative or such individual or the persons composing such Firm or Company or the successors of such Firm or Company and the permitted assignees of such individual or Firm or Firms or Company.

**SITE:** shall mean the site of the contract works including any buildings and erections thereon and any other land adjoining thereto (inclusive) as aforesaid allotted by the Employer or the Engineer for the Contractor's use.

**2. CONTRACTOR TO PROVIDE EVERYTHING NECESSARY**

- a. The Contractor shall provide at his own cost all materials, (except such materials, if any as may in accordance with the contract, be supplied by the Employer), Plants, tools, appliances, implements, ladders, scaffolding, temporary works etc. requisite for the proper execution of the work whether original, altered or substituted and whether included in the specifications or other documents forming part of the contract or which may be necessary for the purpose of satisfying or complying to the requirements of Engineer, as to any manner as to which under these conditions he is entitled to be satisfied together with carriage therefore to and from the work. The Contractor shall also supply without any extra cost the requisite number of persons with means and materials necessary for the purpose of setting out works and counting, weighing and assisting in the measurement or examination at any time and from time to time of the work or materials. Failing his so doing, the same may be provided by the Engineer at the expense of the Contractor and the expenses may be deducted from any money due to the Contractor under the contract and /or from his Security Deposit.
- b. The Contractor should personally supervise each work till completion or may appoint a qualified Supervisor, pre-approved by the Engineer till the completion of work.  
No separate supervision charges will be paid.
- c. NCPOR shall provide requisite quantity of water, electricity for carrying out the work free of cost, subject to availability in the NCPOR campus.
- d. The Employer on no account shall be responsible for the expenses incurred by the Contractor for anything hired, which the Contractor needs to complete the ordered work.

### 3. DUTIES & TAXES

Rates quoted by the Contractor shall include excise and all duties, octroi, toll tax, levies, royalties and all other taxes in respect of this contract. Goods and Service Tax (GST) as applicable is to be stated specifically in the prescribed columns of the price bid. In absence of any such stipulation, it will be presumed that rates quoted are inclusive GST and no claim whatsoever in this respect will be entertained later.

Bidders may quote the current GST rate in the bid document but for the bid evaluation purpose a uniform GST rate 18% will be considered for all items for all bids. But payment will be made to the Contractor as per the GST quoted by him or as per the prevailing GST rate against submission of documentary evidence.

### 4. MODE OF PAYMENT

Payment to the Contractor will be made within 30 days upon submission of bill in duplicate after satisfactory completion of the entire work as per the actual quantity executed after deduction of statutory taxes. If the Contractor wishes provision of RA Bill can be followed for payment as per actual work and quantity executed at site. Measurements pertaining to the bill such as the quarterly activity reports and service report to be recorded jointly by representative of the contractor and Engineer in charge NCPOR. [As per the Govt. of India norms, payment to the Contractors are made online through Public Financial Management System (PFMS). The Contractor should submit his bank & other details in the prescribed format along with the bill.]

### 5. TESTING OF MATERIALS

The Contractor shall provide assistance, instruments, materials, labour and any other arrangement normally required for testing, checking of materials and workmanship as stipulated in the specifications and by statutory authority at his own cost. The Employer has the right to appoint the testing authorities. The Contractor shall pay for the cost of test samples, its packing, transportation including testing fees. Failing his so doing the same shall be provided by the Engineer at the expense of the Contractor and the expenses may be deducted from any money due to the Contractor under the contract and/or from the Security Deposit or proceeds thereof or of a sufficient portion thereof.

6. **SAFETY & SECURITY:** The Contractor should take utmost care while executing any such work performing at height & make proper adequate safety measures for his workers. Safety & Security of the Contractor's manpower shall be sole responsibility of the Contractor. In case of any accident occurs due to any reasons during the work, NCPOR will not be responsible in any way for it. No extra compensation shall be made to the Contractor and No claim what so ever nature will be given or paid on this account and Contractor is fully responsible for such eventualities and he should indemnify NCPOR from such happening.

The Contractor shall provide all safety gadgets to his workers like Full Body Harness, Helmets, Shock resistant Hand Gloves, Safety shoes, Goggles, Masks etc.

### 7. CONTRACTOR'S ENGINEERS/FOREMAN & WORKMEN

- a. The Contractor shall give all necessary personal superintendence during the execution of the work and as long thereafter as the Engineer may consider necessary until the expiration of the Defects Liability Period. The Contractor shall employ qualified, experienced & competent Site-Engineer/Foreman. Any directions, explanations, instructions or notices given by the NCPOR Engineer to the Contractor's Site-Engineer/Foreman or any other authorized person shall be held to be given to the Contractor.
- b. The Contractor shall on the intimation of the NCPOR Engineer immediately dismiss from the works any person employed thereon who may in the opinion of the Engineer be unsuitable or

incompetent or behaved misconduct himself.

## **8. ACCESS**

- a. The Engineer and the Employer or its representative shall at all reasonable time have free access to the works and /or workshops, factories or other places the materials are being prepared or constructed for the contract work and also to any place where the materials are lying or from which they are being obtained and the Contractor shall give every facility to them for inspection. Except the representatives of the Employer or Statutory Authorities, no other person shall be allowed on the works at any time without permission of the Engineer.
- b. If any work is to be done at a place other than the site of works, Contractor shall obtain written permission of the Engineer.

## **9. VALUATION & PRICE FOR VARIATION**

The Engineer with the approval of the Employer shall have power to make any alterations/omissions/additions and /or substitutions from the original specifications, drawings, designs and written instructions and such alterations, omissions, additions, substitutions shall not invalidate the contract and any altered , additional , or substituted work which the Contractor may be directed to do, in the manner specified above as part of the work shall be carried out by the Contractor on the same conditions in all respects on which he agreed to do the main work. The rates for such altered additional or substituted work under this clause shall be worked out in accordance with the following provisions in their respective order.

- a. If the rates for the altered, additional, or substituted work are specified in the contract for the work the Contractor is bound to carry out the altered additional, or substituted work at the same rates as are specified in the contract.
- b. If the rates for the altered, additional or substituted work are not specifically provided in the contract for the work the rates will be derived from the rates for a similar class of work as are specified in the contract for the work.
- c. Under no circumstances the Contractor shall suspend the work on the plea of non-settlement of rates of items falling under the clause.

## **10. FAULTY MATERIALS, WORKMANSHIP & DEFECTS AFTER COMPLETION**

- a. The Engineer shall have powers to require the removal from the site of all materials and work, which in his opinion are not in accordance with specifications and in case of default , the Engineer shall be at liberty to employ other persons to remove the same without being answerable or accountable for any loss or damage that may happen or arise to such materials to be substituted thereof and in case of default the Engineer may cause the same to be supplied and all costs which may attend such removal and/or substitution are to be borne by the Contractor.
- b. If it shall appear to the Engineer or to the Estate In-charge that any work has been executed with unsound imperfect or unskillful workmanship or with materials of any inferior description or that any materials or articles provided by him for the execution of the work are unsound or of a quality inferior to that contracted for or otherwise not in accordance with the contract any defects , shrinkage or other faults which may appear within the defects liability period of Six months from the date of completion arising in the opinion of the Engineer, the Contractor shall on demand in writing which shall be made within six months of the completion of the work from the Engineer specifying the work, materials , articles defects or other faults complained of notwithstanding that the same may have been passed, certified and paid for forthwith rectify or remove and reconstruct the work so specified in whole or in part as the case may require or as the case may be removed the materials or articles so specified and provide other proper and Suitable materials or articles at his own cost. In case of any such failure, the Engineer may rectify or remove or re-execute the work or remove and replace with others, the material or articles complained of as the case may be at the risk and cost in all respects of the Contractor.

- c. In lieu of rectifying the work not done in accordance with the contract, the Employer may, allow such work to remain, and in that case make allowance for the difference in value, together with such further reduction as in his opinion may be reasonable.
- d. Provided always that nothing in this clause shall relieve the Contractor from his liability to execute the works in all respects in accordance with the terms and conditions of this contract, or from his liability to make good all defects.

## **11. WORKS TO BE OPEN FOR INSPECTION**

- a. All work under or in course of execution or executed in pursuance of the contract shall at all times be open to the inspection and supervision of the Engineer and the Contractor shall at all times during the usual working hours, and at all other times at which reasonable notice of the intention of the Engineer to visit the works shall have been given to the Contractor, either himself be present to receive order and instruction or have a responsible agent duly accredited in writing present for that purpose.
- b. The Contractor shall give not less than seven days' notice in writing to the Engineer before covering up or otherwise placing beyond the reach of measurement any work in order that the same may be measured and correct dimensions thereof be taken before the same is so covered up or placed beyond the reach of measurement and shall not cover up and place beyond the reach of measurement, any work without the consent in writing of the Engineer and the Engineer shall within the aforesaid period of seven days inspect the work , and if any work shall be covered up or placed beyond the reach of measurement without such which the same was executed.

## **12. INDEMNIFYING AGAINST DAMAGES TO PERSONS, PROPERTY & STATUTES**

The Contractor shall take all precautions to avoid all accidents by exhibiting necessary caution boards day and night, speed limit boards, red flags, red lights and providing barriers. He shall be responsible for all damages and accidents caused due to negligence on his part. No hindrance shall be caused to traffic during the execution of work.

- a. The Contractor shall be responsible for all injury to persons, animals or things and for all damage whether such injury or damage arises from carelessness or accident in any way connected therewith. This clause shall be held to include interalia any damage due to causes as aforesaid to work, building (whether immediately adjacent or otherwise) and to roads, streets, foot paths, bridges or ways as well as all damage caused to the buildings and works forming the subject of this contract by inclemency of weather. The Contractor indemnifies the Employer and holds him harmless in respect of all expenses arising from such injury or damages as aforesaid and also in respect of any award of compensation or damage consequent.
- b. The Contractor shall reinstate all damage of every sort mentioned in this clause so as to deliver the whole of the contracted works complete and perfect in every respect and so as to make good and otherwise satisfy all claims for damage as foresaid to the property of third Parties.
- c. The Contractor also indemnifies the Employer against all claim which may be made upon the Employer for acts during the currency of this contract by any employee or representative of an employee of the Contractor or any sub-Contractors, employed by him for any injury to or loss of life of such employees or for compensation payable under any law for the time being in force to any workmen or to the representative of any deceased or incapacitated workmen.
- d. The Employer shall be at liberty and is hereby empowered to deduct the amount of any damages compensation costs charges and /or expenses arising or occurring from or in respect of any such claim and/or damages as aforesaid from any sum or sums due or to become due to the Contractor or security deposit.
- e. The Contractor shall indemnify the Employer against any action claim or proceedings relating to infringement or use of any patent or design or any alleged patent or design rights and shall pay any royalties which may be payable in respect of any article or part thereof included in the contract. In the event of any claims made under or action brought against the

Employer in respect of any such matters as aforesaid the Contractor shall be immediately notified thereof and the Contractor shall be at liberty at his own expense to settle any dispute or to conduct any litigation that may arise there from provided that the Contractor shall not be liable to

indemnify the Employer if the infringement of the: patent or design of any alleged patent or design right is the direct result of an order passed by the said Employer or his authorized representative.

### **13. IN CASE OF DEATH OF CONTRACTOR**

Without prejudice to any of the rights or remedies under this contract, if the Contractor dies the Employer shall have the option of terminating the contract without any compensation to the Contractor.

### **14. COMPLIANCE TO LABOUR LAWS**

The Contractor shall comply with all the provisions of the Minimum Wages Act, 1948. Contract Labor (Regulation and Abolition) Act, 1970 and rules and orders framed there under and other labor laws affecting contract labor and the rules and orders framed there under that may be in force or brought into force from time to time. NCPOR will not take any responsibilities towards any injury or compensation etc.

### **15. EXTENSION OF TIME**

- a. If the Contractor shall desire an extension of time for the completion of the work on the grounds of his having been unavoidably hindered in its execution or any other ground, he shall apply in writing to the employer within seven days of the date of hindrance on account of which he desires extension as aforesaid and the Employer shall if in his opinion (which shall be final) reasonable grounds shown therefore authorize such extension of time if any which may in his opinion be necessary or proper.
- b. In the event the value of work exceeds the value of the Bill of Quantities owing to variations the Contractor shall be entitled to ask for extension of time in proportion to the increased value of work.

16. **VALIDITY OF THE OFFERS:** The offers will have to be kept valid for a period of 90 days from the date of opening of bids. In case of finalization of the tender is likely to be delayed, the tenderer will be asked to extend the same without change in the prices or any terms and conditions of the offer. If any change is made, original or during the extended validity period, the offers will be liable for outright rejection without entering into further correspondence in this regard.

17. **STATUTORY VARIATION:** Any statutory increase or decrease in the taxes and duties subsequent to suppliers offer if it takes place within the original contractual delivery date will be to the Employers account subject to the claim being supported by documentary evidence. However, if any decrease takes place after the contractual delivery date, the advantage will have to be passed on to the Employer.

18. **REPEAT ORDERS:** NCPOR reserves the right to issue repeat orders / additional orders to the Contractor up to 25% of the total value of the original Work Order at the same rate, terms and conditions up to One Year from the date of completion of the Original Work.

19. **PENALTY & TERMINATION OF CONTRACT:** Time is the essence of the contract. If the Contractor fails to maintain the required rate of progress or to complete the work and clear the site on or before the completion date or extended date of completion, he shall without prejudice to any other right or remedy available under the law, pay compensation the amount calculated at the rates stipulated below or as the Employer may decide (whose decision in writing shall be final and binding) on the amount of the tendered value of the work for every completed day / week (as applicable ) that the progress remains below or that the work remains incomplete.

In case, the work is delayed/not completed within the period stipulated in the contract, penalty shall be levied @ 0.5% per week of the total contract cost subject to maximum of 10% of the total contract cost. The Engineer may without prejudice to his any other rights or remedy against the Contractor in respect of any delay, inferior workmanship, any claims for damages and / or any other provisions of this contract or otherwise, and whether the state of completion has or has not elapsed, can take decision & inform the Contractor by notice in writing in any of the following cases.

- i. If the Contractor fails to rectify/replace the defects in spite of written notice by Engineer.
- ii. If the Contractor suspends the progress of work so that in the opinion of the Engineer he will be unable to secure completion of the work by the date of completion and do not improve performance even after written notice.
- iii. If the Contractor neglects to carry out his obligation under the contract and / or commits defaults in complying with any of the terms and conditions and does not remedy if even after written notice.

When the Contractor makes himself liable for action under any of the aforesaid cases, fails to complete the work even after six weeks after the completion period or in case the work is found not in accordance with the prescribed specification, drawings, Employer shall exercise its discretionary power either:

- a. To recover, from the Contractor as agreed by way of penalty clause above, OR
- b. To terminate the contract. Upon such termination, the full security deposit recoverable under the contract shall be forfeited/recovered and shall be absolutely at the disposal of the Employer, OR
- c. After giving notice to the Contractor to measure up the work done by him, get the balance work done by another Contractor. Any expenses which may be incurred in excess of the sum which would have been executed by another Contractor, shall be borne and paid by the original Contractor and may be deducted from any of his dues.

Due consideration will be given for waiver / levy of penalty only for the reasons absolutely beyond Contractor's control for which documentary evidence will have to be provided. The request for extension of time in writing giving reasons for delay with supporting documents shall have to be made immediately.

## **20. PENALTY FOR REPAIRS AND MAINTENANCE: -**

- a) For non-Compliance of Maintenance requirement and Repairs: 05 % of the total quarterly CAMC amount would be levied as penalty, in the event of failure of the contractor to comply with the complaint within stipulated time frame of 72 hours in case of minor defects and one week in case of major defects, the Institute shall be at liberty to engage other agency and get the work done and expenditure so incurred shall be recovered from the Contractor.
- b) Non-compliance to any of the complaints and not done satisfactorily would be recorded and recurrence of such incidents may lead to cancellation of the contract.
- c) All repairs should be made at the NCPOR premises as much as possible. In case any part/equipment needs to be taken outside NCPOR for repair, then necessary gate pass is required to be submitted to Security office. The Contractor shall repair & bring back the same part/equipment within two working days.
- d) Any delay in conducting maintenance/repair/replacement of critical component which leads to malfunctioning/stoppage of any of the functionaries would be dealt seriously & treated as break-down of the entire system and the entire loss incurred out of such incident will be recovered from the Contractor and decision of NCPOR authorities will be final in such matters.

21. **POST TENDER CORRESPONDENCE / ENQUIRIES:** Any correspondence or enquiry subsequent to opening of the bids is not desirable, if the same is indulged into, it will be considered for disqualifying the tender. The Tenderer will be required to abstain from pursuing / canvassing the matter, directly or indirectly with any Officers of NCPOR, as otherwise the same would also amount to disqualification of the tender. However, bidder can ask their queries in writing regarding bidding conditions, bidding process prior to the bid opening and/ or rejection of its bid, reason for rejecting a tender after opening of bids.
22. **CLARIFICATIONS FROM BIDDERS:** To assist the process of examination, evaluation and comparison of bids, the Employer may ask all the bidders or any bidder individually for clarification, if any, of their bids, including breakdown of unit rates and price. The request for clarification and the response should be in writing, but no change in the price or substance of the bid will be sought, offered or permitted, except as required to confirm the correction of arithmetical errors discovered by the Employer in the course of scrutiny.
23. **GUARANTEE:** If the goods, stores and equipment's found defective due to bad design or workmanship the same should be repaired or replaced by you free of charge if reported within six months from the date of commissioning of items/equipment's whichever. The Contractor will be responsible for the proper performance of the equipment's / materials for the respective guarantee period.
24. **SETTLEMENT OF DISPUTES/ARBITRATION:** The decision of the Director, NCPOR shall be final and binding for any dispute whatsoever. All questions, disputes or differences whatsoever which may at any time arise between the parties to this tender contract touching the agreement or subject matter thereof, arising out of or in relation there to and whether as to construction or otherwise shall be referred to the decision of the Sole Arbitrator, appointed by the Director of NCPOR and the decision of the said Arbitrator shall be final and binding upon the parties.
25. **RIGHT TO CANCEL TENDER/WORK ORDER/CONTRACT:** In case of strike, accident or any other unforeseen conditions causing stoppage of work, NCPOR reserves the right to cancel and/ or modify the tender / work order without any liability for any compensation and / claim or any description.
26. **FORCE MAJEURE :** If any time, during the continuance of this contract, the performance in whole or in part by either party under obligation as per this contract is prevented or delayed by reasons of any war or hostility, act of the public enemy, civil commotion, sabotage, fire, flood, explosion, epidemic, quarantine restrictions, strike, lockout or acts of God (hereinafter referred to "eventuality"), provided notice of happening of any such eventuality is given by either party to the other within 21 days of the date of occurrence thereof, neither party shall be reason of such an "eventuality" be entitled to terminate this contract nor shall either party have any claim or damages against the other in respect of such non-performance or delay in performance and deliveries under the contract. The contract shall be resumed as soon as practicable after such "eventuality" has come to an end or ceased to exist. In case of any dispute, the decision of Director, NCPOR, shall be final and conclusive, provided further that if the performance in whole or part of any obligation under this contract is prevented or delayed by reason of any such eventuality for a period exceeding 60 days, either party may at its option, terminate the contract. Provided also that if the contract is terminated under this clause the Employer shall be at liberty to take over from the Contractor at a price to be fixed by the Employer, which shall be final, all unused, undamaged and acceptable materials, bought out components and other stores in the course of manufacture which may be in the possession of the Contractor at the time of such termination, or such portion thereof as the Employer may deem fit except such material, as the Contractor may, with the concurrence of the Employer, elect to retain.
27. **JURISDICTION:** All questions, disputes or differences arising under out of or in connection

with the Tender / Contract if concluded shall be subject to the exclusive jurisdiction of the court under whose jurisdiction the place from which the tender / Acceptance of tender is issued, is situated i.e. Goa.

28. **Samples:** Samples, where asked for, shall be submitted or a factory visit to be provided, free of all charges. The sample should reach us before the execution of the Work. The sample must be carefully packed and labeled clearly and with the technical specification's brochure (if any). NCPOR shall not be responsible in any way for the loss or damage of samples due to any reasons whatsoever. In the event of the non-acceptance of the sample, the contractor will have to remove the samples at his own expense.

ANNEXURE – IIIGENERAL TERMS AND CONDITIONS

1. The contractor shall make his own arrangement for all tools & tackles for unloading/ shifting, testing kits, measuring instruments, safety equipment's for installation, with skilled manpower required.
2. The contractor should be OEM or authorized by OEM.
3. The interested bidders shall visit the site well in advance to get themselves acquainted with the site and technical information before tendering if needed any.
4. The Engineer-in-charge shall reserve the right to instruct the contractor to remove the material which, in his opinion, is not technically sound.
5. Contractor shall bring sample of the materials for approval of the Engineer-in-charge. Sample of approved materials must be kept at sight for inspection/comparison with materials to be used in work.
6. All material shall be delivered with manufactures test certificates and technical catalogues, instructions manuals, wiring diagram etc.
7. All sundry equipment, fittings, unit assemblies, accessories, hardware items, foundation bolts, termination lugs for electrical connections, and all other items which are useful and necessary for efficient assembly and installation of equipment and components of the work shall be deemed to have been included in the tender irrespective of the fact whether such items are specifically mentioned in the tender documents or not. Nothing extra on account of same shall be paid.
8. The Contractor must include all additional materials/consumables required for the work to be commissioned. No additional payment will be made for any such items.
9. As this work will be carried out in areas where offices are operational, the contractor must ensure that their activities cause minimal disruption & disturbance to the occupants/services therein and entire furnishing inside the offices, corridor, other areas to be covered using plastic sheets/tarpaulin during work execution and same to be cleared immediately after work completion.
10. Also, any damage to the NCPOR property while executing the work will have to be rectified by the agency at his own cost and on priority while executing the work in that area and restore to its original condition by doing all civil work, including the painting the area to its original shade on damaged area and on new wire.
11. The billing of CAMC should be done on quarterly bases after execution of preventive maintenance on quarterly basis and submission of service report against the same along with the activity chart.
12. Final inspection and testing will be done by the Engineer-in-charge or his representative as per details indicated in General Specifications for Electrical works Part-VI (Detection and Fire Alarm System-2018).
13. **Storage and custody of materials:** The agency has to make his own arrangement for storage and custody of materials. No separate storage accommodation shall be provided by the department. Watch and ward of the stores and their safe custody shall be the sole responsibility of the contractor till the final taking over of the installation by the department.
14. **Care of the Building:** Care shall be taken by the contractor while handling and installing the various equipment and components of the work to avoid damage to the building. If any, he shall be responsible for repairing all damages and restoring the same to their original finish at his own cost. He shall also remove at his own cost all unwanted waste/debris/dust materials arising out of the installation work.
15. **Completion period:** The completion period of 120 days shall be allotted for the entire work i.e. design, supplying, installation, testing, commissioning and handing over of the entire system to the satisfaction of the Engineer-in-Charge from the date of work order signing.
16. **Data Manual and Drawings to be furnished by the tenderer:**

The successful tenderer would be required to submit the following within one month of award of work order for approval before commencement of work:

- i. Project planning schedule.
- ii. Project execution drawing/Layout.
- iii. Technical manuals / catalogue / brochures of all equipment to Engineer-In-Charge. Only after approval, tenderer should place order for all equipment and bring it to the site.
- iv. Any other drawing/information not specifically/mentioned above but deemed to be necessary for the job by the contractor.
- v. In case the contractor wants to supply equivalent and approved make of fittings other than mentioned category in schedule, then the contractor shall have to supply the sample fittings along with light distribution diagram and technical literature of the proposed fitting to the Engineer-in-charge for obtaining approval. The decision of Engineer- in- Charge shall be final.

**17. POST COMPLETION HANDING OVER DOCUMENTS: The complete documentation should be submitted as mentioned below/not specified, at the time of handing over of the system:**

- i. Manufacturer's specifications, technical data sheet, warranty terms and conditions for all items that are commissioned.
- ii. As-built Drawings & all other associated project operational documentation such as Installation details, operation & maintenance manuals of all equipment.
- iii. Test & warranty certificates of all the installed equipment.
- iv. Preventive maintenance schedule with check list.
- v. Statutory documents required for record.

**18. Warranty:**

- i. The Contractor should ensure warranty of the system for 01 year and shall give service backup within 72 hrs against any failure of a software/hardware problem, etc.
- ii. The supplier shall give warranty on all material and equipment furnished under this contract and shall be new and free from all defects/faults, shall be of highest grade, consistent with the established and generally accepted standards for materials of the type ordered and shall perform in full conformity with the specifications and drawings.
- iii. Replacement under warranty clause shall be made by the supplier free of all charges at site including freight, insurance and other incidental charges.

**19. Comprehensive maintenance:**

- i. After completion of warranty period of 01 year, the contractor has to provide 05 years comprehensive maintenance service.
- ii. The Contractor should ensure that the system is working at place and shall give service backup within 72 hrs against any failure, software/hardware problem, etc.
- iii. The preventive maintenance should be carried out as per IS standard and company policy.
- iv. The complete system is covered under the CAMC.
- v. All the breakdown calls shall be addressed and rectified upon receipt of the complaint and the detailed service report to be submitted to the Engineer-In-Charge.
- vi. **Preventive maintenance visit:** Vendor's service engineer will carry out following jobs during the periodic maintenance visit:
  - a) Cleaning of panels, cards, modules, detectors sensors, MCP, Hooter/strobe, etc. using vacuum cleaner/ soft cloth/ any specialized equipment necessary etc.
  - b) Check the system errors and alarms and rectifying the same.
  - c) Check and note down the revision no. of various software and hardware. This shall help in identifying correct replacement and for future system upgrade.
  - d) Power supply checks.
  - e) AC voltage across: - 1. Phase & Neutral, 2. Phase & Earth, 3. Neutral and Earth.
  - f) Checking of DC voltage across the DC power supply.
  - g) Communication cables to be checked for loose terminations
  - h) LED indication check in all modules

**20. List Of Standards**

- a) **For Fire Alarm System (FAS):**  
National Fire Protection Association (NFPA).  
Standards: NFPA 72/ NFPA 70/IS 11360-1985/IS 2189/IS-2175/EN54, IS 15493,  
EFGS/F/97/005. Approvals: VdS/UL/LPCB or equivalent.
- b) **For Cables:**
  - i. IS :694: Specification for PVC insulated electric cables.
  - ii. IS :5608: Specification for low frequency wires and cables with PVC insulation PVC and sheath.
  - iii. IS:5831- 1984: PVC insulation testing and sheathing for electrical cables.
  - iv. IS:10810: Method of test for cables.
  - v. IS:1554: Part-1 1988 for insulation testing.
- c) Smoke generation test as per ASTM D-2843.
- d) Flammability test as per IEEE-383, IEC-332-2, SS-424147 Class F-3.

**ANNEXURE – IV****LIST OF RECOMMENDED MAKES & MODELS**

| <b>Sr. No</b> | <b>Item Description</b>       | <b>Make list</b>                                           |
|---------------|-------------------------------|------------------------------------------------------------|
| 1             | MAIN FIRE/ REPEATER PANEL     | BOSCH/ Any equivalent make.                                |
| 2             | HEAT DETECTORS                | BOSCH/ Any equivalent make.                                |
| 3             | SMOKE DETECTORS               | BOSCH/ Any equivalent make.                                |
| 4             | MANUAL CALL                   | BOSCH/ Any equivalent make.                                |
| 5             | HOOTER/ SOUNDER               | BOSCH/ Any equivalent make.                                |
| 6             | RESPONSE INDICATOR            | BOSCH/ Any equivalent make.                                |
| 7             | CONTROL MODULE                | BOSCH/ Any equivalent make.                                |
| 8             | FIRE SURVIVAL CABLE           | Polycab/ Kei/ Fusion/Havells/ Any equivalent make.         |
| 9             | TUBE BASED SUPPRESSION SYSTEM | Honeywell/Ceasefire/Intime fire                            |
| 10            | HDPE DWC PIPE                 | Reliance/Jain Pipes/Oriplast/Supreme/ Any equivalent make. |
| 11            | GI PIPE                       | Tata/Jindal(Hisar)/Surya/Prakash/ Any equivalent make.     |
| 12            | GI FITTINGS                   | Unik/Avr/Zoloto/ Any equivalent make.                      |
| 13            | SPD                           | Axis/Phoenix/Havells/Siemens/Mersen                        |
| 14            | ELECTRICAL CABLE              | Havells/Finolex/RRKable/Polycab                            |
| 15            | SWITCH SOCKET & DB            | Anchor Roma/Legrand/ Any equivalent make.                  |
| 16            | ANY OTHER ITEMS               | With prior approval of Engineer In-Charge                  |

**Note:** The Engineer-in-charge has the right to approve any other equivalent/alternative make material for any of the items due to non-availability or due to any other reason as found necessary by the Engineer-in-charge.

**SCOPE OF THE WORK**

The scope of work involves design, supply, installation, testing and commissioning of Fire alarm and suppression system in the Horizon House, Cryosphere Bhavan, Administrative Bhavan, Satcom Hut, Container Labs, Expedition Hub, Vision Bhavan, Security Cabin, Ancillary along with integration with existing Bosch system in the Sagar Bhavan and Polar Bhavan building. The work includes designing the complete system, submission of layout and SITC of main panel, repeater panel, loop cards, detectors, MCP, hooter/strobe, cables, electrical connections, gas suppression system, SPDs, etc. and any other work incidental to the project at NCPOR, Goa, as per the ‘CPWD General Specifications for Electrical Works - Part VI Fire Detection and Alarm System 2018.’

The detailed scope of work is as below:

**1. Fire Alarm System****i. Design, Supply, Installation, Testing & Commissioning of 2 Loop Addressable Fire Alarm Panel.**

- The detail execution drawing of the Fire alarm system and Co-ordinated drawings shall be prepared by the contractor and approval for the same must be sought from the Engineer-in-charge prior to the execution of the work.
- It includes SITC of intelligent analogue addressable fire alarm system including its accessories, all equipment, panels, all interconnecting cables between fire alarm control panel to the repeater panel, detectors and input/output devices, etc. as required for the satisfactory operation of the system.
- The two main panels should be installed and configured for the Horizon House, Cryosphere Bhavan, Administrative Bhavan, Satcom Hut, Container Labs, Expedition Hub, Vision Bhavan, Security Cabin, Ancillary Building.
- All components should be supplied with the latest manufacturing date.
- The technical data sheets (TDS) of all components should be submitted and have to be approved from the Engineer-in-charge before delivery of the components at site, if any components are supplied without TDS approvals, the same shall be rejected.
- Each loop card should support minimum 2km loop.
- The main fire alarm panel should support the integration of PA system.
- The panel should have integrated LCD Display.
- The panel should be wall mounted type.
- The panel must be installed in the passage area in coordination with the Engineer-in-charge.
- All messages to be shown on the display with a bright color. The displayed messages must contain the following information: a. Message type, b. Type of the triggering element, c. Description of the exact location of the triggering element, d. Logical zone and sub-address of the triggering element.
- Operation and display elements should be positioned at eye level.
- Final as-built drawing shall be submitted as per work done at site with proper indication and nomenclature of each component to be provided in the legend box and highlighted on the drawing.
- The final as-built drawing of the said buildings shall be prepared on A3 sheet, laminated and affixed next to each of the main panels as approved by the Engineer-in-charge.
- The necessary training after the successful commissioning of the FAS should be given on the operation & trouble shooting to the Engineer-in-charge and its sub coordinate staff.
- Any work carried out which damages the current area/ road/ lawn/ building aesthetics/ etc. should be restored to its original condition soon after work completion.

- All materials shall be delivered with manufacturer's test certificates and technical catalogues, instructions manuals, wiring diagram, etc. and same shall be handed over to the Engineer-in-charge.
- For all such items/equipment requiring initial inspection at manufacturer's plant, the contractor shall be intimated in writing to the NCPOR.

**ii. Addressable Multi sensor Detector with Base plate:**

- Detector should have inbuilt isolator and no separate control module(isolate) shall be used.
- Location for Multi Detectors should be planned as per the site requirement and installation guidelines.
- The system should be surface/recessed mounted.
- Distance between two detectors in the passage/rooms should be maintained as per the installation guidelines.
- Detector LED light indication should be clearly visible.

**iii. Manual Call Point with Key:**

- Location for Manual call point should be planned as per the site requirement in the corridors and as per installation guidelines.
- An installation height of 1400 mm  $\pm$  200 mm, measured from the center of the manual call point to the finished floor level, must be maintained.

**iv. Hooter/Strobe:**

- It should be installed in the passage/corridors.
- The sound pressure should be maximum of 112 dB(A).
- The hooter should be loop powered, no separate power supply should be provided and it should independently run on the same loop.

**v. Cable:**

- 2x1.5sq mm FRLS Armored copper cable to be laid using GI saddles inside and outside the buildings, including miscellaneous civil work, necessary excavations, making and closing cutouts using POP or white cements and cable laid outside the building through ground should be laid through DWC HDPE/GI pipe and same shall be laid at the depth of min 0.75 mtrs, repainting the open and closed surface with same color on the walls, necessary support and grouting, drilling, etc.
- The spacing between the two adjacent saddles should be 0.3Mtrs.
- The cable laying should be carried out with the help of line rope marking on all the surfaces inside the buildings.
- Existing fire alarm panels installed in all the buildings (Polar bhavan, Sagar Bhavan, Expedition hub, security cabin, substation) should be connected through a loop and made into a peer-to-peer single network.
- New security cabin fire alarm system cable connection should be done for single peer to peer network of FAS system.

**2. Tube based gas suppression system:**

The scope covers Supply, Installation, Testing and Commissioning of Automatic Clean agent panel gas-based suppression System complete for electrical panels, Server racks, Modular UPS with heat detection tube, cylinder, heat sensors, pressure switch, end of line adaptor, end of line plug, T- connectors, pressure gauges, Alarm Control Panel for status monitoring, etc. Each gas-based suppression system panel should be integrated with main fire alarm panel for signaling and monitoring. It shall also cover the points as follows:

- Providing Direct Panel Gas Flooding System with linear heat detection tube inside the Electrical Panel etc. / any Enclosure.
- Arrangement of Clean Gas Agent for flooding inside the panels.

- Audio-visual annunciation devices for indicating incidence of Fire.
- Any other item required for the successful commissioning of the system.
- The electrical panel fire suppression system shall be completed with Direct Clean Gas of required capacity, extinguishing agent as specified, adaptors, pressure switches, control equipment and all necessary accessories and push in fittings to form a complete and working installation to protect the Electrical panel, UPS, Server racks in case of Fire.
- The Electrical panel, UPS, Server racks etc. to be protected shall be finalized in confirmation with the Engineer-in-charge, NCPOR.
- The above system shall be configured with Main Fire Alarm and Control Panel and in case of fire the main Panel should indicate it's discharge status.
- Each Clean Agent extinguishing unit must include an automatic (non-electric) detection system that releases the agent into the electrical panel or enclosure without causing damage to the equipment.
- In direct Clean Agent systems, the tubing must detect heat, activate the system, and discharge the agent. They are to be installed in the Electrical Panels, UPS, Server Racks and it must connect to the agent container and remain pressurized. In the event of a fire, the tubing ruptures to release the agent through a nozzle. Optional gauges or switches should be provided to monitor the status of the system. Place the tubing above protected areas.
- Clean Agent supply cylinders to be installed in close proximity to each hazard area to ensure optimal effectiveness and rapid response in the event of fire.
- Calculations for pressure drop, flow rates, and discharge time are required. The manufacturer must submit these calculations along with the complete specifications of gas-based suppression system.
- All doors and holes/openings in the enclosed/equipment should be closed or sealed by using appropriate sealing compounds to maintain tightness of the enclosure.
- **Heat Detection Tube:** The tube must be a fixed, temperature sensing device made from advanced polymer material, ensuring long-term leak resistance, flexibility, and consistent, accurate heat sensitivity. Tube length for each cylinder shall be 15 mtrs approx.
- **Clean Agent Extinguisher Cylinder Assembly:** The Clean Agent Extinguisher Cylinder should include a cylinder with gas agent, tube throughout the panels, mounting bracket/stand, fire suppression panel, direct low-pressure valve, a pressure gauge, end valve and a ball valve for pressure regulation. The valve should remain closed until a rapid pressure drop in the Fire Detection Tube causes it to open, releasing the agent instantly and completely to the fire source through the ruptured tube.

### 3. Comprehensive annual maintenance (CAMC)

- The CAMC shall start after expiry of defect liability period of 01 year from the date of work completion and successful handing over of the system in place for the entire new installation.
- The preventive maintenance (PM) visit for the entire system must be carried out every quarter and the same should be carried out as per the attached activity chart and as per the regular maintenance protocol to maintain the entire system in working condition. After successful execution of PM every quarter, a service report along with activity chart shall be submitted to the Engineer in-charge.
- The CAMC for existing new Fire detection & alarm system along with PA system for all the components installed in Polar Bhavan building shall start after expiry of warranty period from June 2026 till the completion of the entire work order period.
- The CAMC for existing new Fire detection & alarm system along with PA system for all the components installed in Sagar Bhavan building shall start after expiry of warranty period from January 2027 till the completion of the entire work order period.
- The CAMC of Fire alarm system of all the components installed in Expedition Hub & Vision Bhavan buildings shall start from the date of commissioning of new items & making the entire system functional and till the completion of the entire work order period and as per tender Scope of Work, terms and conditions, etc.

- The CAMC includes all components of the fire alarm system and its accessories, cable, etc. as a complete system.
- The Comprehensive annual maintenance (CAMC) to be carried out as per the activity chart detailed in the tender even during the defect liability period.
- The CAMC shall be applicable in case of power surge due to lightning, voltage fluctuation, short circuit due to high voltage, etc. However, the stable power through UPS shall be provided.
- **Mock Drill:** The agency shall carry out the mock drill of the entire system twice a year and as per instruction of Engineer In charge during the quarterly Maintenance. A prior written permission shall be sought from NCPOR for conducting Mock drill.
- **Preventive maintenance visit:** Vendor's service engineer will carry out following jobs during the periodic maintenance visit:
  - i) Cleaning of panels, cards, modules, detectors sensors, MCP, Hooter/strobe, etc. using vacuum cleaner/ soft cloth/ any specialized equipment necessary etc.
  - j) Check the system errors and alarms and rectifying the same.
  - k) Check and note down the revision no. of various software and hardware. This shall help in identifying correct replacement and for future system upgrade.
  - l) Power supply checks.
  - m) AC voltage across: - 1. Phase & Neutral, 2. Phase & Earth, 3. Neutral and Earth.
  - n) Checking of DC voltage across the DC power supply.
  - o) Communication cables to be checked for loose terminations
  - p) LED indication checks in all modules.

**TECHNICAL SPECIFICATIONS****1) Fire alarm control panel (FACP)**

1. The Addressable Fire Alarm Control Panel (FACP) shall be networkable type. FACP shall have its own microprocessor, software and memory. In the event of failure of the central or communication breakdown between the central station and the FACP, the FACP shall automatically operate on stand-alone mode without sacrificing any functions.
2. The networking should be peer to peer type wherein all information is available on all the panels (FACP and Repeater panel), such that all the panels should be connected to each other through CAN bus.
3. The panel should be modular microprocessor based in nature and should be expandable from single loop to up to 32 loops with each loop capable of up to 240 devices.
4. FACP shall supervise detection circuits and shall generate an alarm in case of abnormal conditions.
5. The main fire alarm panel shall have provision for redundancy both at controller & loop level.
6. FACP shall provide general purpose inputs for monitoring such functions as low battery or AC power failure. FACP shall provide tamper protection and commendable outputs, which can operate relays or logic level devices.
7. Smoke detectors shall be powered using the FACP-based smoke detection circuits. FACP shall provide for resetting smoke detectors, fault-isolation and sensor loop operation. It shall be possible to mix different fire devices within the same FACP to optimize field wiring.
8. It shall be possible for the panel to have a loop length with different modules offering up to 2 km Loop length of devices from the panel.
9. The main panel should have in-built battery power back-up connected through battery control module (BCM) to support during power failure
10. FACP shall meet the following requirements to assure the integrity and reliability of the system:
  - a. The FACP shall be Vds listed independently as a fire alarm control panel.
  - b. The FACP should have integrated power distribution module and fixed cabling done internally to guarantee a clear and tidy cable feed.
  - c. FACP should have menu Based operation.
  - d. All materials and components used in the panel are specified as per Vds Certification.
  - e. The panel should have a 120V/230V AC power supply unit in plug-in design with rack and panel connector is a 24VDC/6A single output power supply. The module should be protected against overvoltage and reverse polarity. The output voltage is monitored and regulated externally.
  - f. LCD display at the FACP shall be provided to indicate point in alarm or trouble. In such systems, means for manually scanning the points in trouble shall be provided a trouble and alarm LED shall be used to indicate that there are points in alarm/trouble. The alarm/trouble LED shall only extinguish when all alarm/troubles are cleared from the loop.
  - g. It shall be possible to command test, reset and alarm silence from the FACP. FACP should have freely configurable detector zone displays from 1 to 32,000.
  - h. FACP should have a programmable software timer for automatic switching of day operation mode to night operation mode, switching of mode of operation of automatic multi-criteria fire detectors.
  - i. FACP one freely programmable key switch with 2 switch positions for code mode, day operation, switch-off and reset.
  - j. FACP modules encapsulated for rugged handling as EMC protection for electronics.
  - k. Programming & logging in of all panels in network is possible from any panel.
  - l. FACP should have at least 10,000 history logs.
  - m. The fire panel must display the mixed operation of bidirectional, digital data transmission between detector and control panel for uniform switching of fire peripherals via a two-

wire stub and/or loop topology in a local security network (LSN) and direct current line technology (conventional zone)

- n. Direct connection of a stub line to a loop at any location without additional interfaces.
  - o. Graphics-capable touch screen with white background lighting and screen size of at least 14.5 cm for display and operation of alarm messages, malfunctions, switching and control procedures and plain text displays of customer-specific data such as location data.
  - p. Individual detector and detector zone switch-off.
  - q. Output of stored messages in plain text on touch screen.
  - r. Linking of detector information for generating switch commands, e.g. to panels, as well as activation of monitored LSN control elements.
  - s. The FACP shall have Drift Compensation facility to compensate for environment.
- \* Fire alarm panel and repeater panel should be compatible for integrating with the existing Fire Alarm control panel of the make “Bosch” through CAN bus for peer-to-peer type networking already installed at NCPOR.**

## **2) Repeater Panel:**

1. The Addressable Fire Alarm Control Panel (FACP) shall be networkable type. FACP shall have its own microprocessor, software and memory. In the event of failure of the central or communication breakdown between the central station and the FACP, the FACP shall automatically operate on stand-alone mode without sacrificing any functions.
2. The networking should be peer to peer type wherein all information is available on all the panels (FACP and Repeater panel), such that all the panels should be connected to each other through CAN bus.
3. FACP shall supervise detection circuits and shall generate an alarm in case of abnormal conditions.
4. The main fire alarm panel shall have provision for redundancy both at controller & loop level.
5. FACP shall provide general purpose inputs for monitoring such functions as low battery or AC power failure. FACP shall provide tamper protection and commendable outputs, which can operate relays or logic level devices.
6. Smoke detectors shall be powered using the FACP-based smoke detection circuits. FACP shall provide for resetting smoke detectors, fault-isolation and sensor loop operation. It shall be possible to mix different fire devices within the same FACP to optimize field wiring.
7. FACP shall meet the following requirements to assure the integrity and reliability of the system:
  - a. The FACP shall be Vds listed independently as a fire alarm control panel.
  - b. The FACP should have integrated power distribution module and fixed cabling done internally to guarantee a clear and tidy cable feed.
  - c. FACP should have menu Based operation.
  - d. All materials and components used in the panel are specified as per Vds Certification.
  - e. The panel should have a 120V/230V AC power supply unit in plug-in design with rack and panel connector is a 24VDC/6A single output power supply. The module should be protected against overvoltage and reverse polarity. The output voltage is monitored and regulated externally.
  - f. LCD display at the FACP shall be provided to indicate point in alarm or trouble. In such systems, means for manually scanning the points in trouble shall be provided a trouble and alarm LED shall be used to indicate that there are points in alarm/trouble. The alarm/trouble LED shall only extinguish when all alarm/troubles are cleared from the loop.
  - g. It shall be possible to command test, reset and alarm silence from the FACP. FACP should have freely configurable detector zone displays from 1 to 32,000.
  - h. FACP should have a programmable software timer for automatic switching of day operation mode to night operation mode, switching of mode of operation of automatic multi-criteria fire detectors.
  - i. FACP one freely programmable key switch with 2 switch positions for code mode, day operation, switch-off and reset.

- j. FACP modules encapsulated for rugged handling as EMC protection for electronics.
  - k. Programming & logging in of all panels in network is possible from any panel.
  - l. FACP should have at least 10,000 history logs.
  - m. The fire panel must display the mixed operation of bidirectional, digital data transmission between detector and control panel for uniform switching of fire peripherals via a two-wire stub and/or loop topology in a local security network (LSN) and direct current line technology (conventional zone)
  - n. Direct connection of a stub line to a loop at any location without additional interfaces.
  - o. Graphics-capable touch screen with white background lighting and screen size of at least 14.5 cm for display and operation of alarm messages, malfunctions, switching and control procedures and plain text displays of customer-specific data such as location data.
  - p. Individual detector and detector loop switch-off.
  - q. Output of stored messages in plain text on touch screen.
  - r. Linking of detector information for generating switch commands, e.g. to panels, as well as activation of monitored LSN control elements.
  - s. The FACP shall have Drift Compensation facility to compensate for environment.
- 3) **Detectors & addressable devices**
- 1. **Built-in-response indicator:** Each detector shall incorporate indicator “LED” at the detector which shall blink in normal condition and glow steady on actuation of the detector to locate the detector which is operated while on fire. The detector shall not be affected by the failure of the response indicator lamp. The Led should be visible from a 360 deg view.
  - 2. Each detector should have in-built isolator for protection against internal short circuits, etc.
  - 3. **Maintenance:** All detectors shall be fitted either with plug-in system or bayonet type connections only, from the maintenance and compatibility point of view.
  - 4. **Construction:** The components of the detectors must not be damaged by static over voltage.
- 4) **Addressable Multi sensor Optical Smoke cum heat Detectors**
- 1. Multi sensor detectors shall be addressable devices, and shall connect with two wires to one of the Fire Alarm Control Panel loops. All sensor signals should analyze continually by the internal evaluation electronics (Intelligent Signal Processing – ISP) and are linked with each other via an inbuilt microprocessor. The detectors shall be ceiling mounted type.
  - 2. Each detector should have in-built isolator for protection against internal short circuits, etc.
  - 3. The detectors shall provide electronic address-setting by means of configuration software.
  - 4. The area covered by each smoke/heat detector shall be as per EN - 54 guidelines.
  - 5. Each detector shall have in built fault isolation unit.
- 5) **Addressable Manual Stations**
- 1. Addressable manual stations with loop powered shall be provided to connect to the Fire Alarm Control Panel loops.
  - 2. The manual stations shall on command from the Control Panel send data to the panel representing the state of the manual station.
  - 3. Stations shall be suitable for surface mounting.
  - 4. Each should have in-built isolator for protection against internal short circuits, etc.
- 6) **Addressable Sounder cum strobe (Visual)**
- 1. The Addressable Sounder with loop powered shall be compatible with the Fire alarm panel offered.
  - 2. It shall be roof mounted or wall mount type.
  - 3. It shall be microprocessor based intelligent, addressable type.
  - 4. It shall work at the same operating voltage of detectors.
  - 5. It shall generate audio alarm on command from the fire detection and alarm panel.
  - 6. It shall be able to carry out self-diagnosis and automatic device mapping.
  - 7. It should be able to generate at least 32 different types of tones.

8. Each should have in-built isolator for protection against internal short circuits, etc.

7) **Tube based gas suppression system:**

1. Extinguishing medium: LUKEFK-5-1-12, HFC 227/236fa UL recognized.
2. Body: Mild steel sheet having max of 0.2% carbon, 0.05% Phosphorous and 0.05% Sulphur.
3. Neck ring: Mild steel.
4. Valve: DLP type.
5. Siphon Tube: PVC/Aluminum.
6. Pressure gauge/ Indicator: Provide with Red and Green zone indication.
7. Should have wall mount bracket of mild steel.
8. All panel and cylinder should have anti-corrosive treatment on it.

Bill Of Quantity**I. SITC of Fire alarm and Suppression System.**

| SI No. | Description of items  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | QTY | Unit |
|--------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| 1      | <b>Main Panel</b>     | Supplying, installation, testing and commissioning of micro processor based intelligent addressable main fire alarm panel, central processing unit with the following loop modules and capable of supporting not less than 240 devices (including detectors) and minimum 120 detectors per loop and loop length up to 2 km, network communication card, minimum 320 character graphics/ LCD display with touch screen or other keypad and minimum 4000 events history log in the non volatile memory (EPROM), power supply unit (230 + 5% V, 50 hz), 48 hrs. back-up with 24 volt sealed maintenance free batteries with automatic charger. The panel shall have facility to connect printer to printout log and facility to have seamless integration with analog/digital voice evacuation system (which is part of the schedule of work under SH: PA System) and shall be complete with all accessories . The panel shall be compatible for IBMS system with open protocol BACnet/ Modbus over IP complete as per specifications and as instructed by engineer-in-charge: <b>Two Loop Panel.</b> | 4   | nos  |
| 2      | <b>Loop cards</b>     | Supplying, installation, testing and commissioning of Loop cards of 04 loops for above two panels to be installed for Cryosphere Bhavan and Admin building.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2   | nos  |
| 3      | <b>Repeater Panel</b> | Supplying, installation, testing & commissioning of repeater panel with 320 character/ Touch screen LCD display with inbuilt reset, acknowledge and silence switches complete as required and as instructed by engineer-in-charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3   | nos  |
| 4      | <b>Multi-Detector</b> | Supplying, installation, testing & commissioning of intelligent analog addressable photothermal detector complete with mounting base complete as required and as instructed by engineer-in-charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 369 | nos  |
| 5      | <b>Heat-Detector</b>  | Supplying, installation, testing & commissioning of intelligent addressable thermal detector with rate of rise cum fixed temperature thermistor complete with base as required and as instructed by engineer-in-charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4   | nos  |
| 6      | <b>MCP</b>            | Supplying, installation, testing & commissioning of addressable manual call point and along with fault isolator complete with base as required and as instructed by engineer-in-charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 34  | nos  |
| 7      | <b>Sounder</b>        | Supplying, installation, testing & commissioning of addressable horn cum strobe and along with fault isolator complete with base as required and as instructed by engineer-in-charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 38  | nos  |
| 8      | <b>Control Module</b> | Supplying, installation, testing & commissioning of addressable fire control module, for integration of gas based suppression panel with main FAS panel in case of fire incident and gas cylinder discharge, etc. complete as required and as instructed by engineer-in-charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 23  | nos  |

|    |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |       |
|----|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|
| 9  | <b>Remote monitoring system</b> | Supplying, installation, testing & commissioning of central graphical fire alarm management system to centrally monitor and operate the fire alarm system complete as required. It shall have facility to change the sensitivity of any detectors. The software shall have more than 2000 data points + min 20% extra data points for future expansion.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1    | nos   |
| 10 | <b>Cable</b>                    | Supplying & laying of 2x1.5 sqmm fire alarm armored cable, 600/1000V rated with annealed copper conductor having XLPE insulation, steel wire armoring & FRLS outer sheath complete as required and as instructed by engineer-in-charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5900 | mtrs. |
| 11 | <b>Gas suppression system</b>   | Supply, Installation, Testing and Commissioning of panel tube based gas suppression system of 02 KG direct variant cleaning agent CA HFC 236 and heat-sensitive polymer tube is connected to an extinguishing agent container via a pressure release valve, including mounting stand & its mounting accessories, complete integration with main fire alarm system. The cylinder shall be made up with sheet metal thickness 1.6mm, external epoxy powder coating, including testing and commissioning, complete as required and as instructed by engineer-in-charge.(For LT/HT panels, Server racks)                                                                                                                                                                                                                                                                                                                                    | 23   | nos.  |
| 12 | <b>DWC pipe</b>                 | Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc. Direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required and as instructed by engineer-in-charge: <b>63 mm dia (OD-63 mm &amp; ID-51 mm nominal)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 900  | mtrs. |
| 13 | <b>GI Pipe</b>                  | Providing and fixing following size G.I pipes complete with G.I fittings including trenching and refiling, etc, external work: <b>80mm dia nominal bore.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 50   | mtrs. |
| 14 | <b>DC SPD</b>                   | SITC of Type 3 Surge Protection Device (SPD), two-pole with three terminals (Positive, Negative, and Earth), suitable for 30VAC/DC systems, conforming to IEC 61643. The SPD shall be DIN rail mountable, encapsulated MOV-based design with fire-resistant sheath material and LED status indication. It shall provide protection against switching surges, with a nominal discharge current (In) of 10 kA and a maximum discharge current (Imax) of 20 kA per pole (8/20 $\mu$ s waveform). The device shall support a continuous operating voltage (Uc) of 30 V or higher and have a voltage protection level (Up) less than 51 V, including 12 way PVC/metal DB box, 10 sq mm, four core cable + plus 10 sq.mm green colour cable for interconnection & earthing, including its connection, testing and any other item, accessories required to complete the work in totality and as per the instructions of the Engineer-Incharge. | 20   | nos.  |

|    |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |       |
|----|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------|
| 15 | AC SPD           | SITC of Type 1+2 Surge Protection Device (SPD), two-pole (suitable for phase and neutral), rated for 230 VAC, conforming to IEC 61643. The SPD shall be DIN rail mountable, encapsulated MOV-based design with fire-resistant sheath material. It shall provide protection against both lightning and switching surges, with a nominal discharge current (In) of 30 kA, maximum discharge current (Imax) of 60 kA, and impulse current rating (Iimp) of 12.5 kA per pole (10/350 µs waveform). The device shall support a continuous operating voltage (Uc) of 255 V or higher and have a voltage protection level (Up) less than 1.5 kV, including 10 sq mm two core cable + plus 10 sq.mm green colour cable for interconnection & earthing, including its connection and testing and any other item, accessories required to complete the work in totality and as per the instructions of the Engineer-Incharge. | 10  | nos.  |
| 16 | Electrical cable | Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 160 | mtrs. |
| 17 | GI Box           | Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required: <b>3 Module (100mmX75mm)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 23  | nos.  |
| 18 | Switch socket    | Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |       |
|    |                  | 5/6 A switch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 23  | nos.  |
|    |                  | 3 pin 5/6 A socket outlet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 23  | nos.  |

## II. CAMC

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |      |  |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|--|
| 1   | CAMC after expiry of warranty period of One (01) Year for Sl No: 01 - 10:                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   |      |  |
|     | Total yearly charges for Comprehensive AMC of Fire alarm system for all the component's mentioned at sl no 01 to sl no: 10, after expiry of DLP/warranty period of 01 year.<br>The CAMC includes all parts and its accessories, cable, etc. as a complete system.<br><b>Note: A stable power supply will be provided through UPS to the panels, however, any damage to the installed components should also be covered in case of power surge due to lightning, voltage fluctuation or short circuit due to high voltage.</b> |   |      |  |
| 1.1 | 1st year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1 | Year |  |
| 1.2 | 2nd year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1 | Year |  |
| 1.3 | 3rd year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1 | Year |  |
| 1.4 | 4th year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1 | Year |  |
| 1.5 | 5th year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1 | Year |  |

|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |      |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|
| <b>2</b> | <b>CAMC for the existing newly commissioned Fire alarm &amp; PA system installed at the Sagar Bhavan building at NCPOR:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   |      |
|          | <p>Total yearly charges for Comprehensive AMC of Fire alarm and PA system for all the component's installed (<i>Main Panel: 01 (Model: AVENAR 2000 PWM), Detectors: 65(BFC), 25(AFC), Response indicator:25 , MCP: 07, Sounder: 07, Hooter: 06, PA rack: 01, PA Amplifier: 02, PA Mixer: 01, Mic: 02, ceiling speaker: 42, wire, etc</i>) at Sagar Bhavan building after the expiry of its warranty period since January 2027.</p> <p>The CAMC includes all parts and its accessories, including cable, etc. as a complete system.</p> <p><b>Note: A stable power supply will be provided through UPS to the panels, however, any damage to the installed components should also be covered in case of power surge due to lightning, voltage fluctuation or short circuit due to high voltage.</b></p> <p>Note: PA system Make: HONEYWELL and FAS Make: BOSCH are installed.</p> |   |      |
| 2.1      | 1st year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1 | Year |
| 2.2      | 2nd year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1 | Year |
| 2.3      | 3rd year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1 | Year |
| 2.4      | 4th year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1 | Year |
| 2.5      | 5th year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1 | Year |

|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |      |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|
| <b>3</b> | <b>CAMC for the existing newly commissioned Fire alarm &amp; PA system installed at the Polar Bhavan building at NCPOR:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |      |
|          | <p>Total yearly charges for Comprehensive AMC of Fire alarm and PA system for all the component's installed (<i>Main Panel: 01(Model: AVENAR 2000 PWM), Detectors: 544, Response indicator: 227, MCP: 20, Sounder: 20, Repeater Panel: 01, PA rack: 01, PA Amplifier: 04, PA Mixer: 01, Mic: 01, ceiling speaker: 214, surface speaker: 33, wire, etc</i>) at Polar Bhavan building after the expiry of its warranty period since June 2026.</p> <p>The CAMC includes all parts and its accessories, including cable, etc. as a complete system.</p> <p><b>Note: A stable power supply will be provided through UPS to the panels, however, any damage to the installed components should also be covered in case of power surge due to lightning, voltage fluctuation or short circuit due to high voltage.</b></p> <p><b>Note:</b> PA system Make: HONEYWELL and FAS Make: BOSCH are installed.</p> |   |      |
| 3.1      | 1st year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1 | Year |
| 3.2      | 2nd year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1 | Year |
| 3.3      | 3rd year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1 | Year |
| 3.4      | 4th year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1 | Year |
| 3.5      | 5th year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1 | Year |

|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |      |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|
| <b>4</b> | <b>CAMC for the existing fire alarm system installed at the Expedition Hub at NCPOR:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   |      |
|          | <p>Total yearly charges for Comprehensive AMC of Fire alarm system for all the component's installed (<b>Detector: 112, MCP: 10, Sounder: 10</b>) at <i>Expedition Hub</i> building since day one of commissioning of new items and making the entire system functional and till 05 years.</p> <p>The CAMC includes all parts and its accessories, cable, etc. as a complete system.</p> <p><b>Note: A stable power supply will be provided through UPS to the panels, however, any damage to the installed components should also be covered in case of power surge due to lightning, voltage fluctuation or short circuit due to high voltage.</b></p> <p>Note: Existing all other installed components are BOSCH make.</p> |   |      |
| 4.1      | 1st year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1 | Year |
| 4.2      | 2nd year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1 | Year |
| 4.3      | 3rd year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1 | Year |
| 4.4      | 4th year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1 | Year |
| 4.5      | 5th year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1 | Year |

|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |   |      |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|
| <b>5</b> | <b>CAMC for the existing fire alarm system installed at the Vision Bhavan buildings at NCPOR:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |   |      |
|          | <p>Total yearly charges for Comprehensive AMC of Fire alarm system for all the component's installed (<b>Smoke Detector:81, Multi detector: 49, Beam detector: 03, Remote indicator: 11, MCP:14, Sounder: 10, Photo Luminescent exit signage: 12</b>) at <i>Vision Bhavan</i> buildings since day one of commissioning of new items and making the entire system functional and till 05 years.</p> <p>The CAMC includes all parts and its accessories, cable, etc. as a complete system.</p> <p><b>Note: A stable power supply will be provided through UPS to the panels, however, any damage to the installed components should also be covered in case of power surge due to lightning, voltage fluctuation or short circuit due to high voltage.</b></p> <p>Note: Existing all other installed components are BOSCH make.</p> |   |      |
| 5.1      | 1st year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1 | Year |
| 5.2      | 2nd year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1 | Year |
| 5.3      | 3rd year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1 | Year |
| 5.4      | 4th year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1 | Year |
| 5.5      | 5th year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1 | Year |

**Annexure-VIII****WORK COMPLETION PROFORMA**

Pl provide details of works (a) executed at least One 'Single work' of Rs. 94 Lakhs or above or Two 'Single work' of Rs.59 Lakhs or above or Three 'Single work' of Rs 47 Lakhs or above during the last seven years ending March 2025 in any Government/PSU/Reputed Organizations. 'Single work' here is defined as 'Execution of Fire alarm system'.

| Sr. | Name of the Work | Location of site | Value of work completed (Rs) | Date of completion of work | Name & Contact details of the Organization & the Officer under whom work is done. |
|-----|------------------|------------------|------------------------------|----------------------------|-----------------------------------------------------------------------------------|
|     |                  |                  |                              |                            |                                                                                   |

\* Pl. enclose self-attested copies of work orders & work completion certificates. Original documents will have to be submitted for verification as & when asked.

**Name & signature of the tenderer with the seal :**

**Annexure-IX****PARTICULARS OF THE TENDERER**

Name of the Contractor : \_\_\_\_\_

Name of the Firm : \_\_\_\_\_

Telephone No. (Office) : \_\_\_\_\_

Telephone No. (Residence) : \_\_\_\_\_

E-mail ID\* / website : \_\_\_\_\_

(\* Email ID should be provided which will be used for official correspondence)

Office Address : \_\_\_\_\_

: \_\_\_\_\_

Residential Address : \_\_\_\_\_

: \_\_\_\_\_

Mobile No : \_\_\_\_\_

\*PAN /TAN No. of the Firm : \_\_\_\_\_

\*GST Regn. No. : \_\_\_\_\_

\*Shop Act/Trade Licence No. : \_\_\_\_\_

\*Contractor Registration No: \_\_\_\_\_

(with other organizations, if any)

Have you ever black listed from any Company/Organization/Institute etc. : YES / NO

(\*pl. enclose true copies)

**Name, Signature of the Tenderer with seal:**

**CHECK LIST****(Documents to be enclosed with Technical Bid-Cover 1)**

1. **UNPRICED TECHNICAL BID:** With detailed Technical Specifications of the products used in work.
2. Particulars Of the Tenderer
3. Copy of registration certificate with GST numbers.
4. Permanent account number (PAN).
5. Reference of reputed Customers.
6. Scanned copies of EMD (Original to be sent by post) MSME/NSIC certificate (if any).
7. Copies of last 03 years of income tax return and CA Certified P/L statement / Audited Balance sheet.
8. Copies of Work orders as a proof of Work completed as per Performa as per Annexure VIII.
9. Technical Specifications/Literature/Brochure.
10. Tender Acceptance Undertaking Annexure XIII
11. Technical compliance sheet Annexure XII

**Annexure-XI****SPECIAL INSTRUCTIONS TO THE CONTRACTORS/BIDDERS FOR THE E-SUBMISSION OF THE BIDS ONLINE THROUGH EPROCUREMENT PORTAL**

1. Bidder should do Online Enrolment in this Portal using the option Click Here to Enroll available in the Home Page. Then the Digital Signature enrollment has to be done with the e-token, after logging into the portal. The e-token may be obtained from one of the authorized Certifying Authorities such as eMudhraCA/GNFC/IDRBT/MtnlTrustline/SafeScrip/TCS.
2. Bidder then logs into the portal giving user id / password chosen during enrollment.
3. The e-token that is registered should be used by the bidder and should not be misused by others.
4. DSC once mapped to an account cannot be remapped to any other account. It can only be Inactivated.
5. The Bidders can update well in advance, the documents such as certificates, purchase order details etc., under **My Documents** option and these can be selected as per tender requirements and then attached along with bid documents during bid submission. This will ensure lesser upload of bid documents.
6. After downloading / getting the tender schedules, the Bidder should go through them carefully and then submit the documents as per the tender document, otherwise, the bid will be rejected.
7. The BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for that tender. Bidders are allowed to enter the Bidder Name and Values only.
8. If there are any clarifications, this may be obtained online through the eProcurement Portal, or through the contact details given in the tender document. Bidder should take into account of the corrigendum published before submitting the bids online.
9. Bidder, in advance, should prepare the bid documents to be submitted as indicated in the tender schedule and they should be in PDF/XLS/RAR/DWF formats. If there is more than one document, they can be clubbed together.
10. Bidder should arrange for the EMD as specified in the tender. The original should be posted/couriered/given in person to the Tender Inviting Authority, within the bid submission date and time for the tender.
11. The bidder reads the terms and conditions and accepts the same to proceed further to submit the bids.
12. The bidder has to submit the tender document(s) online well in advance before the prescribed time to avoid any delay or problem during the bid submission process.
13. There is no limit on the size of the file uploaded at the server end. However, the upload is decided on the Memory available at the Client System as well as the Network bandwidth available at the client side at that point of time. In order to reduce the file size, bidders are suggested to scan the documents in 75-100 DPI so that the clarity is maintained and also the size of file also gets reduced. This will help in quick uploading even at very low bandwidth speeds.

14. It is important to note that, **the bidder has to Click on the Freeze Bid Button, to ensure that he/she completes the Bid Submission Process. Bids which are not Frozen are considered as Incomplete/Invalid bids and are not considered for evaluation purposes.**
15. In case of Offline payments, the details of the Earnest Money Deposit(EMD) document submitted physically to the Department and the scanned copies furnished at the time of bid submission online should be the same otherwise the Tender will be summarily rejected
16. The **Tender Inviting Authority (TIA)** will not be held responsible for any sort of delay or the difficulties faced during the submission of bids online by the bidders due to local issues.
17. The bidder may submit the bid documents online mode only, through this portal. Offline documents will not be handled through this system.
18. At the time of freezing the bid, the eProcurement system will give a successful bid updation message after uploading all the bid documents submitted and then a bid summary will be shown with the bid no, date & time of submission of the bid with all other relevant details. The documents submitted by the bidders will be digitally signed using the e-token of the bidder and then submitted.
19. After the bid submission, the bid summary has to be printed and kept as an acknowledgement as a token of the submission of the bid. The bid summary will act as a proof of bid submission for a tender floated and will also act as an entry point to participate in the bid opening event.
20. Successful bid submission from the system means, the bids as uploaded by the bidder is received and stored in the system. System does not certify for its correctness.
21. The bidder should see that the bid documents submitted should be free from virus and if the documents could not be opened, due to virus, during tender opening, the bid is liable to be rejected.
22. The time that is displayed from the server clock at the top of the tender Portal, will be valid for all actions of requesting bid submission, bid opening etc., in the e-Procurement portal. The Time followed in this portal is as per Indian Standard Time (IST) which is GMT+5:30. The bidders should adhere to this time during bid submission.
23. All the data being entered by the bidders would be encrypted at the client end, and the software uses PKI encryption techniques to ensure the secrecy of the data. The data entered will not be viewable by unauthorized persons during bid submission and not viewable by any one until the time of bid opening. Overall, the submitted bid documents become readable only after the tender opening by the authorized individual.
24. During transmission of bid document, the confidentiality of the bids is maintained since the data is transferred over secured Socket Layer (SSL) with 256 bit encryption technology. Data encryption of sensitive fields is also done.
25. The bidders are requested to submit the bids through online eProcurement system to the TIA well before the bid submission end date and time **(as per Server System Clock).**

Technical Compliance Sheet**I. SITC of Fire alarm and Suppression System.**

| SI No. | Description of items  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | QTY | Unit | Offered Make & Model | Complied /Not Complied |
|--------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|----------------------|------------------------|
| 1      | <b>Main Panel</b>     | Supplying, installation, testing and commissioning of microprocessor based intelligent addressable main fire alarm panel, central processing unit with the following loop modules and capable of supporting not less than 240 devices (including detectors) and minimum 120 detectors per loop and loop length up to 2 km, network communication card, minimum 320 character graphics/ LCD display with touch screen or other keypad and minimum 4000 events history log in the non-volatile memory (EPROM), power supply unit (230 + 5% V, 50 hz), 48 hrs. back-up with 24 volt sealed maintenance free batteries with automatic charger. The panel shall have facility to connect printer to printout log and facility to have seamless integration with analog/digital voice evacuation system (which is part of the schedule of work under SH: PA System) and shall be complete with all accessories. The panel shall be compatible for IBMS system with open protocol BACnet/ Modbus over IP complete as per specifications and as instructed by engineer-in-charge:<br><b>Two Loop Panel.</b> | 4   | nos  |                      |                        |
| 2      | <b>Loop cards</b>     | Supplying, installation, testing and commissioning of Loop cards of 04 loops for above two panels to be installed for Cryosphere Bhavan and Admin building.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2   | nos  |                      |                        |
| 3      | <b>Repeater Panel</b> | Supplying, installation, testing & commissioning of repeater panel with 320 character/ Touch screen LCD display with inbuilt reset, acknowledge and silence switches complete as required and as instructed by engineer-in-charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3   | nos  |                      |                        |
| 4      | <b>Multi-Detector</b> | Supplying, installation, testing & commissioning of intelligent analog addressable photothermal detector complete with mounting base complete as required and as instructed by engineer-in-charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 369 | nos  |                      |                        |
| 5      | <b>Heat-Detector</b>  | Supplying, installation, testing & commissioning of intelligent addressable thermal detector with rate of rise cum fixed temperature thermistor complete with base as required and as instructed by engineer-in-charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 4   | nos  |                      |                        |
| 6      | <b>MCP</b>            | Supplying, installation, testing & commissioning of addressable manual call point and along with fault isolator complete with base as required and as instructed by engineer-in-charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 34  | nos  |                      |                        |
| 7      | <b>Sounder</b>        | Supplying, installation, testing & commissioning of addressable horn cum strobe and along with fault isolator complete with base as required and as instructed by engineer-in-charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 38  | nos  |                      |                        |
| 8      | <b>Control Module</b> | Supplying, installation, testing & commissioning of addressable fire control module, for integration of gas based suppression panel with main FAS panel in case                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 23  | nos  |                      |                        |

|    |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |       |  |  |
|----|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|--|--|
|    |                                 | of fire incident and gas cylinder discharge, etc. complete as required and as instructed by engineer-in-charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |       |  |  |
| 9  | <b>Remote monitoring system</b> | Supplying, installation, testing & commissioning of central graphical fire alarm management system to centrally monitor and operate the fire alarm system complete as required. It shall have facility to change the sensitivity of any detectors. The software shall have more than 2000 data points + min 20% extra data points for future expansion.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1    | nos   |  |  |
| 10 | <b>Cable</b>                    | Supplying & laying of 2x1.5 sqmm fire alarm armored cable, 600/1000V rated with annealed copper conductor having XLPE insulation, steel wire armoring & FRLS outer sheath complete as required and as instructed by engineer-in-charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5900 | mtrs. |  |  |
| 11 | <b>Gas suppression system</b>   | Supply, Installation, Testing and Commissioning of panel tube-based gas suppression system of 02 KG direct variant cleaning agent CA HFC 236 and heat-sensitive polymer tube is connected to an extinguishing agent container via a pressure release valve, including mounting stand & its mounting accessories, complete integration with main fire alarm system. The cylinder shall be made up with sheet metal thickness 1.6mm, external epoxy powder coating, including testing and commissioning, complete as required and as instructed by engineer-in-charge. (For LT/HT panels, Server racks)                                                                                                                                                                                                                                                                                                                                   | 23   | nos.  |  |  |
| 12 | <b>DWC pipe</b>                 | Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc. Direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required and as instructed by engineer-in-charge: <b>63 mm dia (OD-63 mm &amp; ID-51 mm nominal)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 900  | mtrs. |  |  |
| 13 | <b>GI Pipe</b>                  | Providing and fixing following size G.I pipes complete with G.I fittings including trenching and refiling, etc, external work: <b>80mm dia nominal bore.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 50   | mtrs. |  |  |
| 14 | <b>DC SPD</b>                   | SITC of Type 3 Surge Protection Device (SPD), two-pole with three terminals (Positive, Negative, and Earth), suitable for 30VAC/DC systems, conforming to IEC 61643. The SPD shall be DIN rail mountable, encapsulated MOV-based design with fire-resistant sheath material and LED status indication. It shall provide protection against switching surges, with a nominal discharge current (In) of 10 kA and a maximum discharge current (Imax) of 20 kA per pole (8/20 $\mu$ s waveform). The device shall support a continuous operating voltage (Uc) of 30 V or higher and have a voltage protection level (Up) less than 51 V, including 12 way PVC/metal DB box, 10 sq mm, four core cable + plus 10 sq.mm green colour cable for interconnection & earthing, including its connection, testing and any other item, accessories required to complete the work in totality and as per the instructions of the Engineer-Incharge. | 20   | nos.  |  |  |

|    |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |       |  |  |
|----|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------|--|--|
| 15 | AC SPD           | SITC of Type 1+2 Surge Protection Device (SPD), two-pole (suitable for phase and neutral), rated for 230 VAC, conforming to IEC 61643. The SPD shall be DIN rail mountable, encapsulated MOV-based design with fire-resistant sheath material. It shall provide protection against both lightning and switching surges, with a nominal discharge current (In) of 30 kA, maximum discharge current (Imax) of 60 kA, and impulse current rating (Iimp) of 12.5 kA per pole (10/350 µs waveform). The device shall support a continuous operating voltage (Uc) of 255 V or higher and have a voltage protection level (Up) less than 1.5 kV, including 10 sq mm two core cable + plus 10 sq.mm green colour cable for interconnection & earthing, including its connection and testing and any other item, accessories required to complete the work in totality and as per the instructions of the Engineer-Incharge. | 10  | nos.  |  |  |
| 16 | Electrical cable | Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 160 | mtrs. |  |  |
| 17 | GI Box           | Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required: 3 Module (100mmX75mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 23  | nos.  |  |  |
| 18 | Switch socket    | Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |       |  |  |
|    |                  | 5/6 A switch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 23  | nos.  |  |  |
|    |                  | 3 pin 5/6 A socket outlet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 23  | nos.  |  |  |

### III. CAMC

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |      |  |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|--|
| 1   | <b>CAMC after expiry of warranty period of One (01) Year for SI No: 01 - 10:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                              |   |      |  |
|     | Total yearly charges for Comprehensive AMC of Fire alarm system for all the component's mentioned at sl no 01 to sl no: 10, after expiry of DLP/warranty period of 01 year.<br>The CAMC includes all parts and its accessories, cable, etc. as a complete system.<br><b>Note: A stable power supply will be provided through UPS to the panels, however, any damage to the installed components should also be covered in case of power surge due to lightning, voltage fluctuation or short circuit due to high voltage.</b> |   |      |  |
| 1.1 | 1st year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1 | Year |  |
| 1.2 | 2nd year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1 | Year |  |
| 1.3 | 3rd year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1 | Year |  |
| 1.4 | 4th year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1 | Year |  |
| 1.5 | 5th year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1 | Year |  |

|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |   |      |  |  |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|--|--|
| <b>2</b> | <b>CAMC for the existing newly commissioned Fire alarm &amp; PA system installed at the Sagar Bhavan building at NCPOR:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |      |  |  |
|          | <p>Total yearly charges for Comprehensive AMC of Fire alarm and PA system for all the component's installed (<b>Main Panel: 01 (Model: AVENAR 2000 PWM), Detectors: 65(BFC), 25(AFC), Response indicator:25 , MCP: 07, Sounder: 07, Hooter: 06, PA rack: 01, PA Amplifier: 02, PA Mixer: 01, Mic: 02, ceiling speaker: 42, wire, etc)</b> at <b>Sagar Bhavan building</b> after the expiry of its warranty period since January 2027.</p> <p>The CAMC includes all parts and its accessories, including cable, etc. as a complete system.</p> <p><b>Note: A stable power supply will be provided through UPS to the panels, however, any damage to the installed components should also be covered in case of power surge due to lightning, voltage fluctuation or short circuit due to high voltage.</b></p> <p>Note: PA system Make: HONEYWELL and FAS Make: BOSCH are installed.</p> |   |      |  |  |
| 2.1      | 1st year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1 | Year |  |  |
| 2.2      | 2nd year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1 | Year |  |  |
| 2.3      | 3rd year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1 | Year |  |  |
| 2.4      | 4th year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1 | Year |  |  |
| 2.5      | 5th year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1 | Year |  |  |

|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |      |  |  |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|--|--|
| <b>3</b> | <b>CAMC for the existing newly commissioned Fire alarm &amp; PA system installed at the Polar Bhavan building at NCPOR:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |      |  |  |
|          | <p>Total yearly charges for Comprehensive AMC of Fire alarm and PA system for all the component's installed (<b>Main Panel: 01 (Model: AVENAR 2000 PWM), Detectors: 544, Response indicator: 227, MCP: 20, Sounder: 20, Repeater Panel: 01, PA rack: 01, PA Amplifier: 04, PA Mixer: 01, Mic: 01, ceiling speaker: 214, surface speaker: 33, wire, etc)</b> at <b>Polar Bhavan building</b> after the expiry of its warranty period since June 2026.</p> <p>The CAMC includes all parts and its accessories, including cable, etc. as a complete system.</p> <p><b>Note: A stable power supply will be provided through UPS to the panels, however, any damage to the installed components should also be covered in case of power surge due to lightning, voltage fluctuation or short circuit due to high voltage.</b></p> <p>Note: PA system Make: HONEYWELL and FAS Make: BOSCH are installed.</p> |   |      |  |  |
| 3.1      | 1st year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1 | Year |  |  |
| 3.2      | 2nd year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1 | Year |  |  |
| 3.3      | 3rd year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1 | Year |  |  |
| 3.4      | 4th year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1 | Year |  |  |
| 3.5      | 5th year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1 | Year |  |  |

|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |      |  |  |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|--|--|
| <b>4</b> | <b>CAMC for the existing fire alarm system installed at the Expedition Hub at NCPOR:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   |      |  |  |
|          | <p>Total yearly charges for Comprehensive AMC of Fire alarm system for all the component's installed (<b>Detector: 112, MCP: 10, Sounder: 10</b>) at <b>Expedition Hub</b> building since day one of commissioning of new items and making the entire system functional and till 05 years.</p> <p>The CAMC includes all parts and its accessories, cable, etc. as a complete system.</p> <p><b>Note: A stable power supply will be provided through UPS to the panels, however, any damage to the installed components should also be covered in case of power surge due to lightning, voltage fluctuation or short circuit due to high voltage.</b></p> <p>Note: Existing all other installed components are BOSCH make.</p> |   |      |  |  |
| 4.1      | 1st year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1 | Year |  |  |
| 4.2      | 2nd year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1 | Year |  |  |
| 4.3      | 3rd year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1 | Year |  |  |
| 4.4      | 4th year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1 | Year |  |  |
| 4.5      | 5th year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1 | Year |  |  |

|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |   |      |  |  |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|--|--|
| <b>5</b> | <b>CAMC for the existing fire alarm system installed at the Vision Bhavan buildings at NCPOR:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |   |      |  |  |
|          | <p>Total yearly charges for Comprehensive AMC of Fire alarm system for all the component's installed (<b>Smoke Detector:81, Multi detector: 49, Beam detector: 03, Remote indicator: 11, MCP:14, Sounder: 10, Photo Luminescent exit signage: 12</b>) at <b>Vision Bhavan</b> buildings since day one of commissioning of new items and making the entire system functional and till 05 years.</p> <p>The CAMC includes all parts and its accessories, cable, etc. as a complete system.</p> <p><b>Note: A stable power supply will be provided through UPS to the panels, however, any damage to the installed components should also be covered in case of power surge due to lightning, voltage fluctuation or short circuit due to high voltage.</b></p> <p>Note: Existing all other installed components are BOSCH make.</p> |   |      |  |  |
| 5.1      | 1st year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1 | Year |  |  |
| 5.2      | 2nd year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1 | Year |  |  |
| 5.3      | 3rd year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1 | Year |  |  |
| 5.4      | 4th year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1 | Year |  |  |
| 5.5      | 5th year charges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1 | Year |  |  |

**Annexure-XIII****TENDER ACCEPTANCE UNDERTAKING**

(To be submitted on the Bidder's Letter Head)

Offer Reference No:.....

Date:.....

To,  
 Director, National Centre For Polar & Ocean Research  
 Headland Sada,  
 Vasco-Da-Gama, Goa 403 804.

Dear Sir,

Sub : Submission of Offer against your Tender No: .....

**I/We hereby offer to carry out the work detailed in your above Tender described as 'Fire Alarm and Suppression System at NCPOR' in accordance with the terms and conditions thereof.**

I/We have carefully perused the Tender documents connected with the above work and agree to abide by the same.

I/We hereby declare and confirm that I/we have visited the Work Site as referred in NCPOR Tender on (date)..... and acquired full knowledge and information about the Site conditions including geographical location, climate, wage structure, the office law & order and other conditions prevalent at and around the Site. We further confirm that we shall not raise any claim of any nature due to lack of knowledge of Site conditions.

I/We further agree to execute all the works referred to in the said Tender documents upon the terms and conditions contained or referred to therein and as detailed in the appendices annexed thereto.

I/We have submitted self-declaration in lieu of EMD & will submit the requisite Earnest Money Deposit (EMD)/Bid security as per the tender terms.

I/We, hereby certify that all the information and data furnished by me with regard to the above Tender Specification are true and complete to the best of my knowledge. I have gone through the specifications, conditions, stipulations and all other pertinent issues till date, and agree to comply with the requirements and Intent of the specification.

I further certify that I am authorized to represent on behalf of my Company/Firm for the above mentioned tender and a valid Power of Attorney to this effect is also enclosed.

I/We, hereby certify that all the documents submitted by us in support of possession of "Qualifying Requirements" are copies of the original and are fully compliant required for qualifying / applying the bid and shall produce the original of same as and when required by NCPOR.

I / We hereby further confirm that no tampering is done with documents, BoQ submitted in support of our qualification as bidder. I / We understand that at any stage (during bidding process or while executing the awarded works) if it is found that fake / false / forged bid qualifying / supporting documents / certificates were submitted, it would lead to summarily rejection of our bid / termination of contract. NCPOR shall be at liberty to initiate other appropriate actions as per the terms of the Tender / Contract.

I/We hereby confirm that we have not changed/ modified/materially altered any of the tender documents as downloaded from the website/ issued by NCPOR and in case of such observance at any stage, it shall be treated as null and void.

We also hereby confirm that we have neither set any Terms and Conditions and nor have we taken any deviation from the Tender conditions together with other references applicable for the above referred Tender Specification.

I/We hereby confirm that my/our firm was never black listed from any office/institute/organization.

We confirm to have submitted offer in accordance with tender instructions and as per aforesaid references.

I/We hereby also declare that we will not share any details of our bid for this tender with any other person/company/firm & maintain confidentiality of document & information till the opening of bids.

Yours faithfully,

(Signature, date & seal of the Tenderer)

Annexure-XIV**BANK GUARANTEE FORMAT FOR FURNISHING EMD****To****NATIONAL CENTRE FOR POLAR & OCEAN RESEARCH  
Headland Sada, Vasco-da-Gama, GOA 403 804, INDIA**

Whereas \_\_\_\_\_  
 (Hereinafter called the “tenderer”  
 has submitted their offer dated \_\_\_\_\_  
 for the Work of \_\_\_\_\_  
 (Herein after called the “tender”

WE \_\_\_\_\_ of having our registered office  
 At \_\_\_\_\_ are bound unto the NATIONAL  
 (Hereinafter called the Bank)

CENTRE FOR POLAR & OCEAN RESEARCH, Ministry of Earth Sciences, Govt. Of India having its office at Headland Sada, Vasco Goa 403 804, India (herein after called NCPOR which expression shall unless repugnant to the context or meaning thereof include all its successors, administrators, executors and assigns) in the sum of \_\_\_\_\_ for which payment will and truly to be made to. NCPOR, the Bank binds itself, its successors and assigns by these presents. Sealed with the common seal of the said Bank this \_\_\_\_\_ day of \_\_\_\_\_ 2025.

**THE CONDITIONS OF THIS OBLIGATION ARE:**

- 1) If the tenderer withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of this tender.
- 2) If the tenderer having been notified of the acceptance of his tender by NCPOR during the period of its validity.
  - a) If the tenderer fails to furnish the Performance security for the due performance of the contract.
  - b) Fails or refuses to execute the contract

We undertake to pay NCPOR up to the above amount upon receipt of its first written demand, without NCPOR having to substantiate its demand, provided that in its demand the NCPOR will note that the amount claimed by it is due to it owing to the occurrence of one or both the two conditions, specifying the occurred condition or conditions.

This guarantee is valid until the \_\_\_\_\_ day of \_\_\_\_\_ 2025.

**Signature of the bank**

Annexure-XVQuarterly Activity Chart

**Fire Alarm System**  
Quarterly Activity Chart

| Quarter: |              | Date:                                                                   |                         |                          |                             |                             |                    |                       | Remarks if any    |                 |  |
|----------|--------------|-------------------------------------------------------------------------|-------------------------|--------------------------|-----------------------------|-----------------------------|--------------------|-----------------------|-------------------|-----------------|--|
| Sr. No.  | Date of Test | Any previous log entry on panel<br>Yes/No (if yes Kindly mention below) | Battery Voltage (Volts) | Battery Charging Voltage | Mock Drill Zone test Yes/No | All Detector working Yes/No | MCP Working Yes/No | Sounder Strobe Yes/No | RI working Yes/No | Panel Condition |  |
|          |              | Description                                                             | Date                    | Type of error            |                             | Beam                        | Multi              |                       |                   |                 |  |
|          |              |                                                                         |                         |                          |                             |                             |                    |                       |                   |                 |  |
|          |              |                                                                         |                         |                          |                             |                             |                    |                       |                   |                 |  |

SIC (I&amp;M)

Engineer In-charge

Service In-charge

# END OF TENDER DOCUMENT