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ITER-India, Institute for Plasma Research

Block A, Sangath SKYZ, Bhat- Motera Road, Koteshwar, Ahmedabad 380005 Gujarat, India.

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Email: purchase@iterindia.in

ENQUIRY - LOCAL

OFFICE COPY

ENQUIRY NO

: I-IEN22020

Date

: 20/10/2022

Due Date

: 08/11/2022 by 5:00 PM (IST)

We invite your rate/s for the following item/s. The Instructions to bidders and Terms & Conditions are attached herewith.

Important Note:

1. Enquiry No., Date & Due Date should appear on the envelope otherwise your offer will be rejected.

2. Address quotation only to the Purchase officer.

Sr No.	Material Description	Quantity	Unit
1	AMC - FIRE HYDRANT SYSTEM for ITER India Lab for 2 years	8	QTR
2	AMC for Fire Alarm System for ITER India Lab for 2 years	8	QTR
3	AMC - Fire Extinguishers for ITER India Lab and Sangath Officefor 2	8	QTR
	years		

Note:

- (1) Submit your quotation in hard copy (sealed envelope superscribing enquiry no and due date) AT THE ABOVEADDRESS.
- (2) Any clarification on this enquiry may be sought from the Purchase Officer, ITER-India. (Email id:purchase@iterindia.in)
- (3) Quote with complete technical details.
- (4) Quotation should invariably be submitted in the attached format (Quotation Format) ONLY else ITER-India may not consider your offer.
- (5) Detailed specifications & other terms are as per attached Annexure-A. Complete Annexure-A shall be filled, signed & stamped on each page by bidder & to be return back along with the offer. Signed Annexure-A shall be considered as acceptance by the bidder.
- (6) Bidder need to submit all relevant document for compliance to Evaluation Criteria as per clause 3.1 of attached Annexure-A. Evaluation Criteria compliance is a pre-requisite for all bidders (including MSEs and Start-ups).
- (7) Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. Purchase preference to Micro and Small Enterprises will get precedence over Preference to Make In India.
- (8) Any bidder from a country that shares a land border with India(i), excluding countries as listed on the website of the Ministry of External Affairs(ii), to which the Government of India has extended lines of credit or in which the Government of India is engaged in development projects (hereinafter called 'Restricted Countries') shall be eligible to bid in this tender only if Bidder is registered(iii) with the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT). Bidders shall enclose the certificate in this regard as per Annexure-VII. (i) https://mea.gov.in/india-and-neighbours.htm (ii) http://meadashboard.gov.in/indicators/92 (iii) https://dipp.gov.in/sites/default/files/Revised-Application-Format-for-Registration-of-Bidders-15Oct2020.pdf

- (9) Bidder from such Restricted Countries" means: a) An entity incorporated, established, or registered in such a country; or b) A subsidiary of an entity incorporated, established, or registered in such a country; or c) An entity substantially controlled through entities incorporated, established, or registered in such a country; or d) An entity whose beneficial owner is situated in such a country; or e) An Indian (or other) agent of such an entity; or f) A natural person who is a citizen of such a country; or g) A consortium/ joint venture where any member falls under any of the above.
- (10) In Bids for Turnkey contracts, including Works contracts, the successful bidder shall not be allowed to sub-contract works to any contractor from such Restricted Countries unless such contractor is similarly registered. In such cases, the bidders shall enclose the certificate as per Annexure-V.
- (11) If Bidder has proposed to sub-contract Services or incidental Goods directly/ indirectly from the vendors from such countries, such vendor shall be required to be registered with the Competent Authority. However, if Bidder procures raw material, components, and sub-assemblies from such countries'" vendors, such vendors shall not require registration.
- (12) Site to be visited and details to be entered as per Annexure I & to be submitted along with offer. Bidder can contact Mr.Mehul G Chodavadiya (M) 09328910232 before visiting the site.
- (13) Payment shall be made on quarterly basis within 30 days through RTGS/NEFT from the date of final acceptance of each quarterly services at purchaser"s site and on receipt of error free invoice and other necessary documents at our end.
- (14) Lowest bidder will be decided on Grand Total plus applicable taxes as per "Format for Submission of Quotation".
- (15) Following documents to be submitted by the bidders along with bids.
 - i. Signed & Stamped Annexure-A along with Annexure-I to VI
 - ii. Rates to be quoted as per Annexure-VII Rate Schedule and "Format for Submission of Quotation" (Duly signed & stamped).
 - iii. Documents complying Evaluation Criteria (as per 3.1 of Annexure-A)
 - iv. Self-Declaration by Bidder of a country sharing/not sharing land border with India as per Annexure-VIII.

Encl:- as above

Rakhi Dharamdasani

Sr. Officer (Purchase & Stores)

ITER-India (IPR)

TERMS AND CONDITIONS

- 1. The quotation and any order resulting from this enquiry shall be governed by our Conditions of Order and supplier quoting against this enquiry shall be deemed to have read and understood the same in to
- 2. Where counter terms and conditions have been offered by the Tenderer, the same shall not be deemed to have been accepted by ITER-India unless our specific written acceptance thereof is obtained
- 3. Quotation: Your quotation superscripting our enquiry No., date, due date and brief description of item should be submitted to the Purchase Officer, ITER-India in sealed envelope on or before the due date. Late/ Delayed/incomplete quotations will not be considered. Envelopes received without Enquiry number, date, due date and brief description of item may be rejected. The quoted prices should be firm for a period of 90 days from due date for placing order. ITER-India is not bound to accept lowest rate/s. Bidder shall submit the price bid/offer on bidder's letter head with official seal and sign on each page.
- 4. The bid documents shall be prepared in English language only
- 5. All pages of the bid documents shall be numbered. Each page of the bid document shall be stamped and initialized.
- 6. In the event of any date indicated above is a declared Holiday, the next working day with the same time limit shall become operative for the respective purpose mentioned herein
- 7. In case of deviation in payment terms including demand of advance other than specified in payment schedule and accepted by ITER-India, prevailing Prime lending Rate (PLR) of SBI will beloaded for price comparison purpose
- 8. ITER-India and their authorized representatives may visit the Contractor/Sub-contractors if required as part of technical evaluation process
- 9. ITER-India reserves the right to place order on one or more parties.
- 10. Specifications: Material should be offered strictly conforming to our specifications/drawings, if any, Deviation, if any, should be clearly indicated by the supplier in their quotation. The Tenderer should also indicate the make/Type number of the materials offered and catalogues, technical literature and samples, wherever necessary should accompany the quotation. Clarification/s on specifications/drawings should be obtained from Purchase Officer before submitting quotation.
- 11. Terms of Prices: Quotation should be submitted on door delivery basis, duly packed & insured without extra charge wherever possible.. In the case of Indian suppliers, the material is to be delivered at our stores free of charge duly packed & insured.
- 12. Unit rate/s should be valid throughout the validity of Purchase Order for addition/deletion purposes. Break-up of price should be furnished. The quoted price should not be subject to price escalation for whatsoever reasons. The quoted price shall be firm, fixed and non-revisable during the validity/ extended validity of Purchase Order.
- 13. Prices are required to be quoted according to the units indicated in the tender form/Enquiry. When Quotations are given in terms of units other than those specified in the tender form, relationship between the two sets of units must be furnished.
- 14. Tender should be free from Correction and Erasures. Corrections, if any, must be attested. All amounts shall be indicated both in words as well as in figures. Where there is difference between amounts quoted in words and figures, amount quoted in words shall prevail. Unsigned quotations will summarily be rejected.
- 15. ITER-India shall be under no obligation to accept the lowest or any tender and reserves the right of acceptance of the whole or any part of the tender or portion of the quantity offered and the tenderers shall supply the same at the rates quoted. ITER-India also reserves the right to split the order at its sole discretion.
- 16. Octroi is not applicable at present.
- 17. pelivery date/Period: Delivery period is essence of the Order. Supplier must indicate the firm delivery date by which the materials will be dispatched / delivered by them from the date of our order.
- 18. Delivery period shall be clearly indicated against each item separately.
- 19. Inspection: Materials on its arrival at ITER-India will be inspected by our Engineer/Stores In-Charge, and his decision in the matter will be final. However, where the items are required to be inspected at the Suppliers Premises, Supplier has to give advance notice to the Purchaser regarding readiness of the material to enable Purchase/Stores section to depute his representative for inspection.
- 20. Payment: Payment will be arranged for accepted materials only within 30 days from the date of acceptance of materials at ITER-India and receipt of error free bills in our accounts section, complete in all respects.
- 21. No correspondence will be entertained within 30 days from the date of receipt of material and bills, whichever is later.
- 22. Guarantee: The Stores/Items offered should be guaranteed for a minimum period of twelve months from the date of acceptance, against defective materials, design, workmanship, operation or manufacture. For defects noticed and communicated during the Guarantee period, replacement/rectification should be arranged free of cost within a reasonable period of such notification. In case where our specifications call for a guarantee period more than 12 months specifically, then such a period shall apply.
- 23. The Contractor/Supplier shall at all times indemnify the purchaser against all claims which may be made in respect of the stores for infringement of any right protected by Patent, Registration of design or Trade mark and shall take all risk of accidents or damage, which may cause failure of supply from whatever cause arising and the entire responsibility for sufficiency of all means used by him for the fulfillment of the Order.
- 24. Successful tenderer will have to furnish in the form a bank Guarantee or in Indemnity bond form as called for by the Purchaser towards adequate security for the materials/property provided/issued by the Purchaser as Free Issue material for the due execution of the Order. Insurance for the Free Issue material shall be arranged by the Supplier/Contractor at his risk and cost.
- 25. Non-compliance to tender specifications and/or tender scope and/or tender terms and conditions are liable for rejection. Decision of ITER-India in respect of non-compliance shall be final and binding on the bidders.
- 26. Canvassing in any form with regard to this tender will lead to rejection of the bid.
- 27. The Project director, ITER-India reserves the right to accept or reject any quotations fully or partly or to cancel the enquiry without assigning any reasons.
- 28. This enquiry is not a commitment and the Purchaser reserves the right to reject or cancel any or all offers.
- 29. Jurisdiction: The Order shall be governed by the laws of India for the time being in force. The Courts of Ahmedabad/Gandhinagar only shall have jurisdiction to deal with and decide any legal or dispute arising out of this Order.
- 30. Unsuccessful bidders will not be intimated about the results of the enquiry/tender.
- 31. Purchase will not be responsible for payment of any interest to the Supplier, in case of delay in releasing payment.
- 32. The price evaluation shall be carried out on landed price.

FORMAT FOR SUBMISSION OF QUOTATION

Enquiry No.

: I-IEN22020

Name of Party

: OFFICE COPY

quotation No. & Date

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Due on

: 08/11/2022 by 5:00 PM (IST)

Sr No.	Material Description	Qty	Unit	Rate	Total
1	AMC - FIRE HYDRANT SYSTEM for ITER India Lab for 2 years	8	QTR		
2	AMC for Fire Alarm System for ITER India Labfo years	r2 8	QTR		
3	AMC - Fire Extinguishers for ITER India Lab and Sangath Office for 2 years	8	QTR		
	·			Grand Total	

COMMERCIAL TERMS & CONDITIONS *

Sr.No		Description	Bidder's Compliance
1	Payment:ITER-India payment terms wi	ll apply (Refer Sr. No. 12 of Note)	Comply Yes/No (In case of No
		LO III)	Please provide details)
2	Validity Period (Refer Sr.No. 3 Of Term	s and Condition)	Comply Yes/No (In case of No Please provide details)
3	Above quoted rates are inclusive of G	ST	Comply Yes/No (In case of No
			Please provide details)
4	Applicable GST (% To Specify as application	ıble)	
5	GST No. (To Specify)		
6	SAC Code (To Specify)		
7	Udhyog Aadhar/Udhyam Registration Enterprise)	No. & Category (Micro/Small/Medium	
8	Discount(if any)		
9	Remarks		

	HIII	ın	the	app	licab	le d	ietails	
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Place:

Authorised Signatory:

Date:

Company Seal



ITER-India, Institute for Plasma Research

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Annexure-A

1) INTRODUCTION:

ITER-India Lab building is located at Institute for Plasma Research (IPR) Campus, Bhat village, near Indira Bridge, Gandhinagar and ITER-India Office building is located at Sangath Skyz, Bhat-Koteshwar Road, Ahmedabad.

This tender document is for Comprehensive Maintenance Contract for three fire safety systems installed at ITER India Lab and Office Buildings as follows:

- i. <u>Conventional Fire Alarm and Detection Systems installed at Lab building</u>. For Lab building, total 77 nos. of smoke detectors, 7 nos. of beam detectors, 6 nos. of hooters, 21 nos. of Manual Call Point (MCP), 01 no. of Main Fire Control Panel and 01 no. of Repeater Panel are installed.
- ii. <u>Fire Fighting System (wet hydrant system) installed at Lab Building</u>. It contains a jockey pump, main submersible pump, booster pump with Non-return valves and interconnected piping along with electrical and annunciation panel.
- iii. <u>Fire Extinguishers installed at Lab as well as Office Building</u>. Total 25 nos. of fire extinguishers of various make and capacity are installed at different locations within the Office building and Total 67 nos. of fire extinguishers of various make and capacity are installed at Lab building.

<u>Note:</u> Scope of work is explained in Section 3, 4 and 5 of this document. List of items/equipment for above systems is given in Annexure I.

2) **EVALUATION CRITERIA:**

- i. The bidder shall have experience of inspection, testing and maintenance of Fire Alarm & Detection System for at least one of the well-reputed organization. This contract must not amount to less than Rs. 80,000/- within the period of last three financial years i.e. for 2019-20, 2020-21 and 2021-22. [Bidder shall submit at least one copy of work order and satisfactorily work completion certificate from the respective organization]
- ii. The bidder shall have experience of inspection, testing and maintenance of Fire Hydrant System (FHS) for at least one of the well-reputed organization. This contract must not amount to less than Rs. 1,00,000/- within the period of last three financial years i.e. for 2019-20, 2020-21 and 2021-22. [Bidder shall submit at least one copy of work order and satisfactorily work completion certificate from the respective organization]
- iii. The bidder shall have
 - a). at least one ongoing contract of inspection, testing and maintenance of Fire Alarm & Detection System (FAS) and
 - b). at least one ongoing contract of inspection, testing and maintenance of Fire Hydrant system (FHS). [Bidder shall submit copy of work orders for both a) and b) from the respective organization]
- iv. The bidder shall have its own service center in Ahmedabad or Gandhinagar.

 [Bidder shall submit municipality bill or electricity bill copy or any other proof in this regard]



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3) SCOPE OF WORK for "Fire Alarm and Detection System at Lab Building"

INSPECTION, TESTING AND MAINTENANCE OF FIRE ALARM & DETECTION SYSTEM:

- i. Annual comprehensive inspection, maintenance & service contract covers all-in-all service & maintenance of control panels with all the components, zone circuits with cabling, power circuit with cabling up to power source for the system, detectors, manual call points, batteries, hooters, repeater panel etc. related to Fire Alarm system installed at ITER-India laboratory building. Maintenance is to be carried out as per IS 2189:2008.
- ii. The bidder shall clearly define the zone for the fire alarm system, numbering of each Detector, MCP, Hooter etc. and displayed near Main and repeater control panel.
- iii. There shall be total **Four** preventive maintenance service in a year (i.e. once in a three months' period). The bidder also provides breakdown services as and when required on call basis at no extra charges the preventive maintenance include following works.

Fire Control Panel/Repeater Panel:

- Check any system related error message on control panel.
- Check all zone function working properly or not like RESET, FAULT, ISOLATE, RESET, SILENCE etc.
- Carry out lamp test and check all LEDs are working or not.
- Check the continuity of all cable termination and joints.
- Check the battery for its terminal voltage and charging/discharging.

Smoke & Beam Detector:

- Clean the dust/dirt from all detectors.
- Check the tightness/alignment of terminal connection of detector base.
- Check detector's LED functioning.
- Check the sensitivity of detector.
- Test the function of detector by actual smoke or remote test after maintenance.

Manual Call Point:

- Check the activation knob.
- Check functioning of manual call point.

Hooter:

- Check the activation of siren with strobe light,
- iv. Maintaining the system in proper operating condition by regular & systematic examination, repairs/replacement of all the components of fire alarm system and necessary spares like LED's, PCB's, & any other components of fire alarm system required to keep system in healthy working condition.
- v. Replacement of required spares shall be of identical make & standard. Approval shall be taken from Engineer In-charge for any item needs to be replaced before installation.
- vi. The bidder shall submit the Service and Maintenance Report along with Checklist as per Annexure-II within one week to the Engineer in-charge after each service.

All in all, Comprehensive Maintenance contract for Fire Hydrant system, Fire Alarm system and Fire Extinguishers

Sign & Stamp of Bidder

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4) Scope of Work for "Fire Hydrant System at Lab Building"

A. INSPECTION, TESTING AND MAINTENANCE OF FIRE HYDRANT SYSTEM

- i. The contractor has to provide necessary infrastructure, capability, technical know-how and trained manpower to perform the AMC services. AMC shall perform as per NFPA 25 requirements.
- ii. Consumables like all types of packing, glass panels, Lubricants, Paint for touch up, all types of nut & bolts, rubber lining for hose box, rubber washer, seat washer, rubber 'O' ring etc. shall be within the scope of the AMC. No additional payment shall be made for the same. Necessary tools, tackles, equipment, materials etc. required to carry out the AMC work shall be in the scope of the contractor.
- iii. The contractor has to depute his service engineer/s once in a month to ensure smooth functioning of the Hydrant system. The tentative date for visiting the Institute shall be finalized with mutual understanding.
- iv. The contractor has to do all emergency work and the same shall be within the scope of work of the AMC. All the emergency calls have to be attended within 24 hours without fail.
- v. The contractor has to maintain and update all the Equipment History Sheets for the system.
- vi. Any non-construction civil work if required shall be within the scope of this AMC. IPR shall pay the additional payment in case of work on RCC but the contractor will take the approval in writing from IPR before the commencement of the RCC work. (soft soil digging for repair etc. is in the scope of AMC.)
- vii. The contractor shall at all times keep the site free from the accumulation of waste materials and debris and upon completion of work shall clear away and dispose all the surplus materials, rubbish and temporary works of whatsoever nature and kind. The contractor shall ensure clean and tidy site.
- viii. Necessary records of checking, maintenance shall be done as per Annexure III. The report must be submitted to engineer in charge within 03 (Three) days from the completion of servicing and maintenance.
- ix. Serious note shall be taken if the contractor maintained and serviced the system, but, do not operate during performance testing/drill and/or emergency. The same must be immediately investigated, rectified, detailed report generated and submitted to engineer in charge by the contractor free of cost.
- x. The contractor shall depute technical persons to conduct live demonstration and training in presentation mode to train employees as well as security personnel on half-yearly.
- xi. Thorough supervision and responsibility for flawless services lies with the contractor.
- xii. The contractor has to maintain 18 number of hydrant points, 14 number of hose reel, 30 number of hose boxes containing of 02 nos. of hoses of 15 mtr. Length each and one gunmetal of 63mm short branch. In addition to this, 01 no. of fire water tank filling point and 01 no. of fire brigade inlet is also maintain and service. 01 no. of jockey pump, 01 no. of main submersible pump and complete hydrant pipeline along with its accessories have to be maintained and serviced. AMC also covers the checking, services and maintenance of Fire Hydrant System Panel.
- xiii. Details checking and services has to be done every quarterly as per below mentioned scope of work,
 - 1) Water level in Fire Water Reservoirs.
 - 2) Checking of Motor Pump and the source & discharge of inflow & outflow from the tank.
 - 3) Running of each pump for 10 minutes and recording the same.
 - 4) Carry out Auto Function of Jockey Pump at preset conditions.
 - 5) The condition of Fire Control Panel and Physical condition of Control Cable.
 - 6) Performance of 25% Hose by operating/testing them at testing pressure.
 - 7) Operation of hydrants at least at 6 points or as instructed by Engineer-In-Charge for its performance. Output pressure to be recorded.



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- 8) Oiling of the Landing Valves, Isolation Valves and the pumps and the Hydrant Lugs.
- 9) Cleaning of the Hose Boxes, Hose Pipes and Hose Reels.
- 10) Filling glands in the valves.
- 11) Preventive Maintenance of Jockey Pump and Submersible Pump, whenever required.
- 12) Water level, specific gravity and voltage check of batteries, if any.
- 13) Checking and maintenance of Control Panels and Electrical Control Panel of Hydrant Pumps.
- 14) Working of Pressure Gauges.
- 15) Arrange for calibration of these Pressure Gauges once a year and submit calibration report to Engineer-In-Charge.
- 16) Checking all Pressure Switch and Adjustment if needed.
- 17) Checking all primary arrangement to ascertain that all the system including Valves,
- 18) NRVs, Motors and Control Panels are functioning properly.
- 19) Checking the performance of Gong Bell.
- 20) Checking all the Pipelines physically for any type of leakage.
- 21) Hydrant placing for 5 minutes.
- 22) "Brasso" of Landing Valves.
- 23) Maintenance of the Isolation Valves, Landing Valves, Branches, Pumps.
- 24) Line pressure of 6-7 kg/cm² to be maintained.
- 25) Checking of the Hose Couplings and oiling of the lugs.
- 26) Greasing of nipples and checking of glands etc.
- 27) Checking and maintenance of Sluice Valves, NRV's and Replacement of Gland Packing if required.
- 28) Performance test of each Hose (Test pressure of 10.5 kg/sq. cm) to be maintained.
- 29) Painting of the Hose Boxes & Hydrant Points.
- 30) Overhauling of the pumps.
- 31) Hydraulic Testing of the Hydrant Main Ring (Section wise).
- 32) Flushing the whole line.
- xiv. Cleaning the water tank/ reservoir once in a two year.
- xv. Getting FIRE NOC and its renewal shall be in the scope of the contractor.

<u>Note:</u> The rubber gasket, glass for the hose box, painting of pipe and hose boxes, pressure switch, pressure gauges, Electrical panel parts like, lamps, contactors, mccb, relays, and etc., repairing of the water tanks and other small parts which are not mentioned in the Spares list are needed to be supplied and installed by amc provider with free of cost.



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5) Scope of Work for "Fire Extinguishers at Lab and Office Buildings"

Following works are involved in Inspection, Testing and Maintenance of Fire Extinguishers (FEs):

- i. To carry out checking and maintenance of various type of fire extinguishers as per IS 2190:2010 once in a period of three months (quarterly) as per Annexure IV
- ii. A weather proof tag must be prepared by the contractor, get approved and paste on each of the fire extinguishers. This tag must have,
 - Sr. No., Type, Capacity, Location, Refilling Date, Hydro Test Date, Date of service, Remarks, Sign, Name of Contractor & contact number, Brief method of operating FE.
- iii. Repair and replace the necessary parts (if required) of the fire extinguisher as instructed by the Engineer in-charge, ITER-India. In case of replacement of the parts, new parts shall be provided by ITER-India as a free issue material.
- iv. Necessary records of checking, maintenance and refilling to be maintained as per **Annexure V** (B) The finished report must be submitted to engineer in charge within FIVE (05) days from the completion of servicing and maintenance.
- v. Register showing status of each and every Fire Extinguisher must be prepared and maintained as per Annexure V(B)
- vi. Contractor shall carry out refilling of FE, whenever it is required. The contractor has to collect the empty fire extinguishers from the installed site for refilling within 24 hours after registration of the requirement telephonically or through any other media.
 - Contractor has to ensure that refilled ABC & DCP type FE will be returned back within SEVEN (07) days, refilled CO₂ type FE will be returned back within TEN (10) days and refilled Clean Agent type FE will be returned back within FIFTEEN (15) days.
- vii. Fire extinguishers shall be refilled and/or operated for its performance test as per Annexure VI Every extinguisher installed in premises shall be hydraulically pressure tested as per Annexure VI (B).
- viii. The contractor shall at all times keep the site free from the accumulation of waste materials and debris and upon completion of work shall clear away and dispose all the surplus materials, rubbish and temporary works of whatsoever nature and kind. The contractor shall ensure clean and tidy site
 - ix. Necessary tools & tackles, instruments, weighing machines (for cartridge & extinguishers), etc. required for checking / refilling are in the scope of contractor. The contractor has to submit valid calibration certificates of measuring instruments that are to be used for carrying out maintenance work every time.
 - x. Installation and fixing (as required) of extinguisher at its designated place, is to be done by the contractor.
 - xi. All transportation required for the activities like refilling, testing, checking etc. and the transit insurance shall be in the scope of the contractor.
- xii. Serious note shall be taken if the contractor maintained i.e. serviced, refilled, repaired and/or checked fire extinguishers, do not operate during performance testing and/or emergency. The same must be immediately investigated, rectified including refilling and testing, detailed report generated and submitted to engineer in charge by the contractor free of cost.
- xiii. The contractor shall depute technical persons to conduct live demonstration and training in presentation mode at ITER-India to train employees as well as security personnel at each location on **half-yearly basis** at both the site at ITER-India lab. Building and Office building. All arrangements for demonstration shall be done by the contractor.



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xiv. Thorough supervision and responsibility for flawless services lies with the contractor.

6) SAFETY CODE:

- a. The contractor shall cover his employees/workers under PF, ESI, personal accident insurance policy and applicable laws. Contractor has to submit PF details, ESI No. and insurance policy documents of all employees before commencement of the work.
- b. The contractor shall be fully responsible for the behavior, conduct, theft and any breach at security etc. by his personnel and workers.
- c. The contractor shall comply with all Govt. rules & regulations for his staff in regard to maintain the applicable labor laws, their amendments etc. in force from time to time.
- d. The contactor shall comply with the instructions given by the engineer in charge, regarding safety regulations, safety precautions, protective measures, clean-up practices, housekeeping etc.
- e. The contractor shall ensure adequate safety precautions at site as required under the law of land. Contractor must be entirely responsible for safety of their personnel and provide them safety helmets, safety shoes, other safety gadgets as required and prescribed.

7) Third Party Liability:

The Service Provider will take all possible precautions to avoid damage to the Purchaser's property during its onsite activities. Service Provider shall also take insurance covering third party liability for the personnel and equipments and/or tools deployed at Purchaser's site against all risks, such as injuries, loss of life etc. Service Provider will be fully responsible for payment of compensation. In the event of loss and/or damage to Purchaser's property / any item(s) / equipment and/or injury or loss of life to Purchaser's personnel during the course of onsite activities due to the Service Provider's default. Service Provider will be fully responsible and liable for such damages and/or losses and payment of appropriate compensation as assessed by the Purchaser. Service Provider will relieve the Purchaser from all the risk and liabilities under this clause

8) TERMS AND CONDITIONS:

- i. The mentioned work shall be carried out under direct supervision of responsible person along with at least two trained persons of the contractor and in the presence of personnel of ITER-India. Change of personnel who carries out the services shall not be allowed.
- ii. Care must be taken while carrying out the job to avoid any damage to equipment & property of IPR. Contractor has to pay for the cost of damage.
- iii. The schedule to carry out inspection and maintenance of FAS/FHS/FE shall be fixed at least seven days in advance by the contractor and engineer in charge-ITER-India, with mutual agreement. Any change in schedule must be intimated three days in advance.
- iv. Contractor shall be allowed to execute the work from 9.30 a.m. to 5.30 p.m. on all working days.
- v. Contractor shall respond promptly for any communication made by ITER-India via letter, e-mail or any other mode.

All in all, Comprehensive Maintenance contract for Fire Hydrant system, Fire Alarm system and Fire Extinguishers

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- vi. In case of inspection, servicing or repairing of the system is not carried out as per the schedule, proportionate deduction in payment will be done from the bill.
- vii. In case the contractor fails to carry out the work as per specified scope of work, ITER-India reserves the right to terminate the contract & get the work done from any other party at the risk & cost of contractor.
- viii. In case of failure to execute the scope of work and obey safety code by contractor, ITER-India shall issue the show cause notice. If found guilty, the contractor shall be penalized for Rs.1000/-(Rs One Thousand only) that shall be deducted from the payment due for the work. Work order shall automatically get void if the penalty imposed for three times.
- ix. Initially, the contract shall for the TWO YEAR only. Further extension may be based on vendor's performance.
- x. If FEs are increased in future during the tenure of the contract, the contractor shall agree to include them in the running AMC at the same rate.
- xi. Rate contract is given as Annexure-VII.

Bidder Signature	
Name of the Name signatory & Title	Title
Bidder's Official seal	
Place & Date Place	DD-MM-YYYY

All in all, Comprehensive Maintenance contract for Fire Hydrant system, Fire Alarm system and Fire Extinguishers

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Annexure - I

List of Items/ Equipment

List of Items/ Equipment Used for Fire Alarm System at Lab Building

S. No.	Description	Qty.	Unit
1	Main Fire Control Panel	01	No.
2	Repeater Panel	01	No.
3	Smoke Detectors	77	No.
4	Beam Detectors	07	No.
5	Manual Call Points	21	No.
6	Hooters	06	No.

List of Items/ Equipment Used for Fire Hydrant System at Lab Building

S. No.	Description	Qty.	Unit
1	Submersible Pump (Jacketed Type) with 60 HP, 3 Phase, motor – BatliBoy make	1	Set .
2	Electric motor driven booster pump, 12.5 HP, 3 Phase	1	Set
3	Butterfly Valves 1) 100 mm Dia-2 2) 50 mm Dia-1	3	No.
4	CI double flanged non-return valve 1) 100 mm Dia-2 2) 50 mm Dia-1	3	No.
5	GM gate valve/check valve Size 50 mm dia.	1	No.
6	GM Morris pattern/oblique type outlet hydrant valve 63mm dia	20	No.
7	Fire bridge inlet connection for underground tank having 100 mm dia. header with 4 nos. of 63 mm dia. branch connections	1 .	Set
8	Hose cabinet accommodated with 1 No. of 63mm, 15 mtr. Long hose pipe and 1 no. of GM branch pipe	28	No.
9	Pressure switch for auto operation and pressure gauge with syphon and cock, range 0-300 PSI	4	Set
10	Air vessel (size 250mm dia & 2000mm height) with air valve and other connected fittings	1	Set
11	Kheraj make Gong bell of 9" dia.	1	No.
12	GM branch pipe nozzle 2.5" dia. (AAAG make)	19	No.
13	Hose reel -20mm dia with valves and fittings, complete set	14	Set

All in all, Comprehensive Maintenance contract for Fire Hydrant system, Fire Alarm system and Fire Extinguishers

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14	Siamess connection comprising 1) 1 No. of 63mm dia. GM. Male adopter 2) 100mm Sluice Valve 3) 100mm Non-Return Valve 4) 100mm MS Stand Pipe fitting and flanges.	1	LOT
15	Fire control panel with main incoming MCCB, Star-Delta starters, contactors, relays, Alu. Bus bars, earth bus bar, voltmeter, ammeter, selector switches, indicating lamps, cable alley compartment with terminals other accessories	1	Set
16	Sintex make PVC water tank of 5,000 Liters Capacity with necessary piping connection, valves and fittings	4	No.

List of Fire Extinguishers at Lab and Office Buildings

S. No	Item Description	Location	Qty.	Unit
1	 i) DCP type (5 Kg.) ii) ABC Type (5 kg.) iii) CO₂ Type (4.5 & 6.5 kg.), iv) Clean Agent Type (2 kg. to 5 kg.) 	Lab Building, IPR, Bhat	67	No.
2.	i) ABC Type (4 kg. to 5 kg.) ii) CO ₂ Type (4.5 kg.) iii) Clean Agent Type (2 kg. to 5 kg.)	Office Building, Sangath SKYZ, Bhat-Motera Road, Ahmedabad	25	No.

All in all, Comprehensive Maintenance contract for Fire Hydrant system, Fire Alarm system and Fire Extinguishers

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Block A, Sangath SKYZ, Bhat-Motera Road, Koteshwar, Ahmedabad-380 005, Gujarat

Enquiry No.: I-IEN22020

Annexure - II

Check list for Fire Alarm System (Sample)

Location:

Date of Service: Next Service On:

A. Main and Repeater Control Panel

Sr. No.	Check points	Status	Remarks
1.	Is there any system related error message on control panel?		
2.	Have you checked all zone functions like rest/fault/isolate, reset, silence etc.?		
3.	Have you performed lamp test & all LEDs given in the panel found functioning?		
4.	Have you checked all cable terminations and joints for its continuity?		
5.	Have you checked battery for its terminal voltage and charging/discharging capacity?		
6.	Is INPUT & OUTPUT voltage Checked?		
7.	Is there any observation? Please specify.		

B. Smoke / Beam Detector:

(Specify location & No. of faulty)

Sr.	Check points	Status	Remarks
	Check points	Status	Kemarks
No.			
1.	Have you cleaned dust/ dirt from all		
	detectors?		
2.	Have you checked the tightness of	·	
	terminals connections of detector bases?		
	Is LED functioning?		
3.	Is sensitivity of the detectors set right?		
4.	Is last maintenance date inserted in		
	detectors through remote programmer?		
5.	Have you tested the functioning of the		
	detectors by actual smoke or remote test		
İ	tool after maintenance?		
6.	Is there any other observation? Please		
	specify.		

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C.	Manual	call	point	(MCP)

Sr. Check Point Status Remarks

1. Is activation knob condition OK?

2. Have you tested functioning of the manual call point?

3. Is there any other observation? Please specify.

D.	Hooter

Sr. Check Point Status Remarks

No.

1. Have you tested functioning of the hooter with strobe light?

2. Is there any other observation? Please specify.

E. Any Remarks:

Date:

Signature & Seal of the Contractor

Signature of the representative- ITER-India

All in all, Comprehensive Maintenance contract for Fire Hydrant system, Fire Alarm system and Fire Extinguishers

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<u>Annexure - III</u>

Check list for Fire Hydrant System (Sample)

Location:

Date of Service:

Next Service On:

Sr. No.	Description	Yes/ OK	No/ Not OK	Not Applicable	Comments
1.	Water Level in Reservoirs				
2.	Main pump service & Maintenance				
3.	Jockey Pump service &				
	Maintenance				
4.	Auto function of Jockey pump				
5.	Auto function of Main pump				
6.	Fire Control Panel	2,10,400	7.3.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7		
7.	Operation of fire hydrant points				
8.	System Pressure				
9.	Output Pressure				
10.	Servicing/lubricating of all kind of			***	
	valves, pumps, motors, hydrant				
	points etc.				
11.	Cleaning & Maintenance of Hose				
	Boxes				
12.	Cleaning & Maintenance of Hose				
	Pipes				
13.	Cleaning & Maintenance of Hose				
	Reels				
14.	Filling glands, if required				
15.	Pressure Gauges				
16.	Pressure Switches		-		
17.	Servicing of Non-return valve				

All in all, Comprehensive Maintenance contract for Fire Hydrant system, Fire Alarm system and Fire Extinguishers

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18.	Servicing of Gong Bell			
19.	Entire Pipeline network	-in-compile and accompile		
20.	Servicing of nipples, hose coupling,			
	lugs, etc.			
21.	Any other			

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Signature & Seal of the Contractor

Signature of the representative- ITER-India



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Annexure - IV

Procedure for Maintenance and Services of Fire Extinguishers

A. Dry Chemical Powder (DCP) type Fire extinguisher:

The dry powder extinguishers should be opened in a dry room and for a minimum possible time to avoid effect to atmospheric moisture on powder.

- i. Dry powder extinguisher, where discharge control is fitted on the nozzle, should be operated before opening the extinguisher to ensure that there is no pressure in the extinguisher.
- ii. Weigh the extinguisher to check the correct mass of powder filled in it, which should be marked on the body of extinguisher, and record book when it was first put into service.
- iii. Open the extinguisher and remove gas cartridge and see that sealing disc is intact. Weigh and compare its mass with full mass of cartridge marked on it. In case, loss of mass is more than 10 percent, it should be replaced by new cartridge.
- iv. Check the operating mechanism, discharge control for free movement and closing. Examine nozzle, hose, vent holes, piercing mechanism of cap cartridge holder, grease and wipe clean. Remove the inner shell (if any) and clean port holes.
- v. Empty the dry powder in a dry container and examine for caking, lumps and foreign matter, in which case replace it with new dry powder charge.
- vi. Examine the extinguisher body internally for any damage or corrosion and replace corroded or damaged extinguisher. Clean the extinguisher using dry air.
- vii. Return the original charge to the extinguisher and fit the cartridge and other fittings.
- viii. In case of higher capacity dry powder fire extinguisher as per IS 10658, remove the carbon dioxide cylinder and check the weight marked on the cylinder to ensure that the size conforms to that stipulated in the specification. On weighing, if the loss of mass is more than 10 percent it should be sent for recharging. Also examine the wheel carriage and discharge hose assembly with control nozzle for free flow and test it with dry air.
- ix. In case of dry powder extinguisher for metal fires as per IS 11833, in addition to item 10 above, examine the applicator pipe and the discharge showerhead for freedom from clogging and clean it with dry air. Sample of the dry powder for metal fire may be tested on a small fire of magnesium turning or chips to ensure that the powder is suitable for metallic fire risks.
- x. The safety valves and pressure gauges fitted on higher capacity extinguishers should be calibrated once in 3 years and recorded in the register.

B. Carbon Dioxide (CO₂) type Fire Extinguisher:

- i. Examine extinguisher body externally. Damaged or corroded extinguisher should be replaced. Weigh the extinguisher, compare mass against the mass marked on it for fully, charged extinguisher. It should be sent for refilling if the loss is more than 10 percent of mass. Clean and polish externally.
- ii. Examine and clean hose, horn and assembly. In case of trolley mounted extinguisher, examine the wheel carriage for free movement.

All in all, Comprehensive Maintenance contract for Fire Hydrant system, Fire Alarm system and Fire Extinguishers

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C. Fire Extinguisher, Stored Pressure Type:

- i. Examine and verify that the pressure gauge or any other pressure indicating device fitted in is indicating the internal pressure correctly, if the extinguisher shows a loss of pressure of more than 10 percent, refer to the manufacturer's instructions for appropriate action.
- ii. Examine the extinguisher body externally for corrosion or damage.
- iii. Weigh the extinguisher (with or without the operating mechanism according to the manufacturer's instructions) or use suitable alternate means to check that it contains the correct mass of liquid. Check the mass against the mass recorded when it was first put into service.
- iv. Examine the nozzle and hose and clean if necessary. Examine the hose for wear and replace if not in good condition.
- v. Where the extinguishers are designed to have the operating mechanism removed, check the operating mechanism and discharge control (where fitted) for free movement, clean, rectify or replace, if necessary. Replace safety clip/wire seal or equivalent device as originally fitted.

Note: As this type of extinguisher is pressurized, it can be opened for inspection only after discharge of the extinguisher. It should be subjected to discharge/performance test every two years.

D. Clean Agent Type Fire Extinguisher:

- i. Examine extinguisher body externally. Damage or corroded extinguisher should be replaced.
- ii. Check the pressure gauge to see that extinguisher is pressurized correctly. Extinguisher showing loss in pressure should be sent to manufacturer for pressurization.
- iii. Weigh the extinguisher to check its contents of the extinguishing media and compare it with mass recorded on the cylinder. In case of loss of more than 10 percent, the extinguisher should be sent for recharging.



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Annexure - V

A. CHECKING AND MAINTENANCE REPORT OF FIRE EXTINGUISHERS

Sr. No.	F/E No.	Type	Capacity	Location	Safet y Clip/ Pin	Plunger & Cap/ Squeeze Valve/ Dischar ge Valve	Tag	Handle	Discha rge Hose/ Horn/ Nozzle	Pressure Gauge	Date of Servicing	Remarks

Signature with Stamp of the Contractor:

Name of the person:

B. REGISTER OF FIRE EXTINGUISHER

Sr. No.	Type	Capa-	Year of Mfg.	Make	Location	Qtrly Service Date	Pressure Tested on	Date of discharge	Refilled on	Due for Refilling	Remarks

Signature with Stamp of the Contractor:

Name of the person:

All in all, Comprehensive Maintenance contract for Fire Hydrant system, Fire Alarm system and Fire Extinguishers

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Annexure - VI

FREQUENCY FOR REFILLING/PERFORMANCE TEST AND HYDRAULIC TEST

- A. Extinguishers to be refilled / operated for performance test: -
- 1.1 Once in Two Years
 - a) Portable fire extinguisher, water type stored pressure,

1.2 Once in Five Years

- a) Portable fire extinguisher, water type (gas cartridge),
- b) Fire extinguisher, carbon dioxide type (portable and trolley mounted),
- c) Clean Agent type fire extinguishers,
- 1.3 Once in a Three Years BC and ABC dry powder conforming to IS 4308 and IS 14609.

Important Note:

- Refilling of CO₂ type FE shall be done with liquid Carbon Dioxide confirming IS 307 and as per the code approved by the PESO.
- Refilling shall be done at installed site with DCP powder (Sodium/Potassium Bicarbonate) confirming IS 4308 & ISI marked.
- Refilling of ABC Fire Extinguishers includes refilling of powder and pressurizing with dry Nitrogen Gas.
- Refilling of ABC & DCP type FE shall be done with Mono Ammonium Phosphate Powder confirming IS 14609 (ISI marked) & cylinder to be pressurized more than 15 kg/cm² with dry Nitrogen Gas.
- Refilling of clean agent type Fire Extinguishers includes refilling of clean agent and pressurizing with dry Nitrogen Gas.
- Refilling of Clean Agent type FE shall be done with HCFC Clean gas & cylinder to be pressurized more than 15 kg/cm² with dry Nitrogen Gas.
- Chemical Analysis Certificate and MSDS of all above mentioned refilling shall submit after each refilling of fire extinguishers.

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B. Hydraulic Test for Fire Extinguishers: -

- 2.1 Every extinguisher installed in premises shall be hydraulically pressure tested as per the schedule given below. There shall not be any leakage or visible distortion. Extinguisher which fails in this requirement shall be replaced. The contractor shall submit the hydraulic pressure testing certificate to the Engineer In-charge, ITER-India.
- 2.2The carbon dioxide type and clean agent type fire extinguishers shall be pressure tested every time the cylinders are sent for recharging (after periodic discharge test or otherwise) to the pressure specified in the relevant Indian Standard Specifications. The contractor shall submit hydraulic pressure testing certificate for Carbon Dioxide type which is certified and approved by PESO (earlier known as CCEO).

Sr. No.	Type of Fire Extinguisher	*Test Interval	Test Pressure	Pressure Maintained for
1.	Water type (gas cartridge)	3 year	35 kg/cm ²	2.5 min
	(IS 940)			
2.	Water type (stored pressure)	2 year	35 kg/cm ²	2.5 min
	(IS 6234)			
3.	Dry powder type	3 year	35 kg/cm ²	2.5 min
	(IS 13849)			
4.	Carbon Dioxide (IS 2878)	5 year	250 kg/cm ²	2.5 min
5.	Clean Agent (IS 15683)	3 year	35 kg/cm ²	2.5 min

Note: * Test interval shall be considered either from the date of manufacturing or from the last hydraulic test done on the cylinder.

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Annexure - VII

Rate schedule

Name of Agency

:

Address

:

Telephone No.

:

Enquiry No. & Date

A. Rate Schedule for Checking/ Comprehensive Maintenance/Servicing (Servicing shall be done quarterly. Total Eight (08) services in a 2 year)

Sr. No.	Item Description and location	Frequency for services and maintenance	Rate per Quarterly Service and Maintenance (a)	Total Charges [b = 8 x a]
1.	Fire Alarm System at Lab Building	Quarterly		
2.	Fire Hydrant system at Lab Building	Quarterly		
3.	Fire Extinguishers at Lab and Office Buildings (67 at Lab and 25 at office, total 92 Nos.)	Quarterly		
			Grand Total	

Date:

Signature & Seal of the Contractor

B. Rate Schedule for Refilling & Hydraulic Pressure Testing of Fire Extinguishers

Sr. No.	Туре	Capacity	Refilling Rate per Fire Extinguisher	Rate for Hydraulic Pressure Test per Fire Extinguisher
1.	CO ₂ FE	4.5 Kg		
2.	CO ₂ FE	6.5 Kg		
3.	DCP FE	5.0 Kg		
4.	DCP FE	6.0 Kg		
5.	ABC FE	4.0 Kg		
6.	ABC FE	5.0 Kg		

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7.	ABC FE	6.0 Kg	
8.	CA FE	2.0 Kg	
9.	CA FE	4.0 Kg	
10.	CA FE	5.0 Kg	
11.	CA FE	6.0 Kg	

Date:

Signature & Seal of the Contractor

C. Rate Schedule for Consumables / Spares

Sr. No.	Description	Rate per Unit
DCP Fire	Extinguisher (Capacity 2.0kg to 10 kg.)	
1.	Discharge hose pipe	
2.	Squeeze grip	
3.	Gun metal cap assembly	
4.	S.S. Safety Clip	
5.	Cap Washer	
CO2 Fire	extinguisher (Capacity 2 kg. To 5.0 kg.)	
1.	Discharge hose pipe	
2.	Discharge horn	
3.	Handle	
4.	Safety Pin With Holder	
CO ₂ Fire	extinguisher (Capacity 6.5kg. to 22.5 kg.)	
1.	Discharge hose pipe	
2.	Discharge horn	
3.	Handle	
4.	Wheel set	
5.	Safety Pin With Holder	
ABC Fir	e extinguisher (Capacity 4 kg. To 10 kg.)	
1.	Discharge hose pipe	
2.	Squeeze Valve	
3.	Pressure gauge	
4.	Safety clip with string	
Clean ag	ent Fire extinguisher (Capacity 2 kg. To 6.0 kg.)	
1.	Discharge hose pipe/nozzle	
2.	Squeeze Valve	
3.	Pressure gauge	
4.	Safety clip with string	
Miscella	neous	
2.	CO ₂ horn full size	

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3.	Rayon braided CO ₂ hosepipe for CO ₂ FE	
	(Rate per mtr. length)	
4.	CO ₂ cartridge for DCP / Water CO ₂ FE	
5.	Aluminum valve wheel with nut for CO ₂ FE	
6.	Complete safety pin lock-set for CO ₂ FE	
7.	Washers for CO ₂ /DCP/ABC FE	
8.	Safety Clip/Pin with string for ABC/DCP FE	
9.	Inner Container for DCP FE	
10.	PVC discharge nozzle for DCP/ABC FE	
11.	Inner container for DCP FE	
12.	Pressure gauge for ABC FE	
13.	Valve assembly for ABC FE	
14.	Union cap with plunger assembly for DCP FE	
Fire Ext	inguisher Clamp with Installation	
1.	ABC /4/5/6/ Kg. and Clean Agent 2 /4/5/6 kg.	
2.	DCP /5/6/ Kg.	
3.	CO ₂ /4.5/5/6.5 Kg.	
Note: If	there is any spare requirement other than above mentioned spares	
items kir	dly quote the rate for the same.	

Date:

Signature & Seal of the Contractor



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Annexure-VIII:

Self-declaration by Bidder of a country sharing/not sharing land border with India

[ON THE LETTER HEAD OF THE COMPANY]

Ref: 1) Our bid/offer No. dated

2) Enquiry for All in All, Service & Maintenance Annual Contract for Domestic Air conditioner and water cooler Units

Restrictions on procurement from Bidders from a country or countries, or class of countries under Rule 144(xi) of the General Financial Rules 2017.

We have read the clause regarding restrictions on procurement from Bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries, and solemnly certify that we fulfil all requirements in this regard and are eligible to be considered. We certify that:

- (a) we are not from such a country or, if from such a country, we are registered with the Competent Authority (copy enclosed). and;
- (b) we shall not subcontract any work to a contractor from such countries unless such contractor is registered with the Competent Authority and solemnly certify that we are not from such a country or, if from such country, we are registered with the Competent Authority (copy enclosed). We hereby certify that we fulfil all requirements in this regard and are eligible to be considered."

Penalties for false or misleading declarations:

We hereby confirm that the particulars given above are factually correct and nothing is concealed and also undertake to advise any further changes to the above details. We understood that any wrong or misleading self-declaration by us would be violation of Code of integrity and would attract penalties as mentioned in this tender document, including debarment.

Signature	Bidder's stamp
Name:	
Position:	
Address:	
Tel:	
Fax:	

All in all, Comprehensive Maintenance contract for Fire Hydrant system, Fire Alarm system and Fire Extinguishers

Sign & Stamp of Bidder

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