

National Centre for Polar & Ocean Research
(An Autonomous Society under the Ministry of Earth Sciences)
Headland Sada, Vasco-da-Gama, Goa-403804



Tender Document

Tender No:-NCPOR/EST/CE/02/18-19

**Name of the work: Annual Maintenance Contract for Fire Fighting System
at NCPOR, Goa**

National Centre for Polar & Ocean Research
(Ministry of Earth Sciences, Govt. of India, Headland Sada,
Vasco-da-Gama, Goa-403804

NOTICE INVITING TENDER

Tender No: NCPOR/EST/CE/02/18-19

The Director, NCPOR, invites sealed tenders in one cover system, for the below mentioned work from the eligible contractors of Government/PSU/Reputed Organizations.

Description of work	EMD (Rs)
Annual Maintenance Contract for Fire Fighting System at NCPOR, Goa	11,000/-

The tender documents & other details can be down loaded from NCPOR website www.ncaor.gov.in. Tenders duly completed in all respect should be dropped in the tender box kept in the office of Estate Section on or before **08-01-2019**, 11.00 hrs. Tenders will be opened on the same date at 11.30 hrs in presence of the tenderers, if any.

Director, NCPOR

Instructions to the Bidders

1. The Director, National Centre for Polar & Ocean Research, Goa (NCPOR) invites sealed tenders in one cover system, for the work of Annual Maintenance Contract for Fire Fighting System at NCPOR from the eligible contractors of Government/PSU/Reputed Organizations.
2. Eligibility Criteria :
 - (i) The bidder should be registered with any State/Central Government's Department of Fire & Emergency Services for supply, installation & maintenance of fire protection systems & equipments. *(A valid registration certificate should be enclosed)*
 - (ii) The bidder should have completed at least one single FE work of Rs.3 lakh or above OR Two FE works of Rs. 2 lakh or above or Three FE works of Rs. 1 lakh or above during last five years ending December 2018 *(FE work means work of repair & maintenance of both Fire Extinguishers & Fire Hydrant System)*
 - (iii) The bidder should have work experience of repair & maintenance of both Fire Extinguishers & Fire Hydrant System. *(It is an essential eligibility criteria for this contract.)*
3. The contract will be initially for a period of one year but renewable for two more years on year to year basis, considering the performance of the Contractor on the same rate, terms & conditions.
4. Any/firm/company which is black listed from any organization &/or facing/having faced any legal/criminal action/case is not eligible for this tender & should not apply.
5. The **Earnest Money Deposit Amount (EMD)** is **Rs. 11,000/-** (Rs Eleven Thousand only) to be submitted in the form of a DD from a scheduled bank, drawn in favour of Director NCAOR, payable at Vasco-da-Gama, Goa. Tender received without EMD will be rejected outright. EMD DD of unsuccessful bidders will be returned as it is. EMD of the successful bidder will be converted in to Security Deposit. *(The name of the institute National Centre for Antarctic & Ocean Research (NCAOR) has been changed to National Centre for Polar & Ocean Research (NCPOR) however, it is not yet changed in official bank accounts. Therefore, DD of EMD to be drawn in the name of Director, NCAOR)*
6. EMD of unsuccessful bidders will be refunded after placement of Order on a successful bidder & EMD of the successful bidder will be retained & adjusted against security deposit. EMD or Security Deposit are a non interest deposits.
7. Security cum Performance Guarantee Deposit (SD) : (a) The EMD amount of the successful bidder shall be converted into SD and the 10% amount from each bill will be retained as SD. The SD will be refunded on completion of the Contract Period. In the event of contractor fails to comply the terms and conditions of the awarded contract during the contract period, the SD shall be forfeited. (b) No partial refund of SD shall be made during the Contract Period. (c) In case of termination of contract, SD shall be forfeited and amount necessary to make up this amount shall be recovered from the contractor.
8. Tenderer should quote all items. **If all items are not quoted the tender will be treated as incomplete and will be rejected.**
9. Entire tender document (Signed and Stamped on all pages) should be submitted in a **Single Sealed cover**, super scribed with Tender number, name of the work, date and time of opening. Tenders will be received upto **11.00 am** on **08-01-2019** and will be opened at **11.30 am on the same date**. Tenders should be dropped in the tender box kept in the Estate section before the closing date and time indicated. If the tender opening day happens to be a holiday then tenders will be opened on the next working day on the same time. In case of submission of tender by post/courier, NCPOR is not responsible for any postal/transit delay. Late tenders will be rejected outright.

10. NCPOR does not bind to accept the lowest or any tender and reserves the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rates quoted.
11. Tender submitted shall remain valid for **90 days** from the date of opening for the purpose of acceptance and award of work. The extension of validity beyond 90 days from the date of opening shall be by mutual consent.
12. The tenderer shall quote RATES both in figures and words. He shall also workout the amount for each item of work and write in figures. On checking if there are differences between the rates quoted by the tenderer in words and figures or in the amount worked out by him, the following procedure shall be followed:
 - a) When there is a difference between the rates in figures and in words, the rates, which correspond to the amounts worked out by the tenderer, shall be taken as correct.
 - b) When the amount of an item is not worked out by the tenderer or it does not correspond with the rate written either in figure or in words then the rate quoted by the tenderer in words shall be taken as correct.
 - c) When the rate quoted by the tenderer in figure and in words tallies but the amount is not worked out correctly then the rate quoted by the tenderer shall be taken as correct and not the amount.
13. Before submission of tender, tenderer may inspect the site to acquaint himself about the condition in regard to accessibility of site, nature and extent of ground, working condition of site and locality including stacking of materials, installations of tools and plants etc., conditions affecting movement of labour etc. required for the satisfactory execution of work contract. No claim whatsoever on such account shall be entertained by NCPOR under any circumstance.
14. Tenders with conditional prices / discounts will be rejected.
15. Successful bidder should commence the work within one week from the date of work order, failure of which, EMD will be forfeited.
16. Except writing rates and amount, the tenderer should not write any conditions or make any changes, additions, alterations and modifications in the Price Schedule of tender.
17. The 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 .
18. Checklist : All bidders are advised to submit tender strictly as per the conditions stipulated in the tender document. Please enclose the following documents with the tender,
 - a) Covering letter on letterhead of the bidder.
 - b) Tender fee in the form of DD.
 - c) EMD in the form of DD
 - d) Annexure ó III (EMD & Tender Fee details)
 - e) Annexure ó IV (Particulars of the Tenderer)
 - f) True copy of Trade Registration / GST / PAN / TAN etc.
 - g) Annexure ó V (Work Completion Proforma), along with self attested copies of work orders & work completion certificates.
 - h) Annexure ó VII (Price Bid), with signature & stamp on all pages

*(All above documents should be submitted in a **Single Sealed Envelope** (Single Bid System) superscribing Name of the Tender, Tender Number, Date of opening & Time and address to Director, NCPOR, Headland Sada, Vasco-da-Gama, Goa 403804. Tenders duly completed in all respect should be dropped in the tender box kept in the Estate Section of NCPOR on or before the due date & time)*

General Terms and Conditions

1. All materials used shall be as per specifications and specified brands. If brand is not specified, it should be ISI marked where ever applicable. ISI marking referred to latest BIS code as published by Bureau of Indian Standards.
2. **MODE OF PAYMENT** : Billing will be done on quarterly basis. Payment to the Contractor will be released within 30 days upon submission of bill in duplicate after satisfactory completion of the entire work as per the actual quantity executed on site, as certified by the engineer after deduction of statutory taxes. No part payment / advance will be made. (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.)
3. **PENALTY CLAUSE** : The contractor shall strictly monitor that all Fire extinguishers (FE) & Fire Hydrant system (FH) under AMC are functional all the times. A non functional FE or FH has to be made functional maximum within two working days. Otherwise, 0.5% of the quarterly bill amount will be levied as fine for a delay of each day, subject to a maximum of 10% of the total quarterly bill amount. Even though, if incomplete work is not completed within 3 weeks, the contract will be terminated without any liability.
4. **STATUTORY VARIATION**: In case of any increase or decrease in the taxes and duties subsequent to the Contractor's offer during the contract period then the Contractor can claim the difference by submitting documentary evidence, in case of increase. And if any decrease in the taxes or duties takes place then benefit will have to be passed on to the Employer.
5. **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 NCAOR, 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.
6. **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.
7. All measurements shall be at actual and as per site condition. No allowances shall be permitted for rough cast surfaces or for any aesthetical paintings, design bands, etc. Joint measurement shall be recorded with the Engineer.
8. The safe custody and upkeep of material/various items/equipments/tools & plants of various categories of works brought to site is the sole responsibility of the contractor and he shall employ sufficient supervisory personnel to ensure the safety of these items.
9. While executing/ assembly of the work the contractor shall ensure that existing cables/pipe lines/structures/fittings are not damaged and if due to his negligence, these are damaged, the same shall be set right with no extra cost to the Employer.
10. The contractor shall co-ordinate his work with other agencies employed by the Employer and ensure that the works of other agencies are not hampered in any way during the duration of the contract.

11. After the work is completed, the contractor shall clean all the external surroundings, premise etc. to the satisfaction of the Engineer.
12. Materials shall be brought to the site as supplied by the manufacturer and got approved before being used on the work after inspected and approved by engineer.
13. The bidder may visit the site and study the work involved vis-à-vis the quantity and specification before submission of bid. If any discrepancy is observed the same should be brought to the notice of the engineer.
14. Contractor shall provide all necessary tools and plants and safety devices etc. to his workmen as required.
15. The Contractor shall submit the material samples and relevant information for review and approval.
16. The Engineer at his discretion can make variations as specified below, be necessary for work and for that purpose and he has the authority to instruct the Contractor accordingly which Contractor should agree, follow and accordingly complete the work :
 - (a) Increase or decrease the quantity of any work included in the Contract,
 - (b) Omit any such work,
 - (c) Change the character or quality or kind of any such work,
 - (d) Change the levels, lines, position and dimensions of any part of the Works,
 - (e) Execute additional work of any kind necessary for the completion of the Works, or
 - (f) Change any specified sequence or timing of construction of any part of the Works.

However, where if any modification or change of original work necessitated by some fault of or breach of contract by the Contractor or for which he is responsible, any additional cost attributable to such defaults shall be borne by the Contractor.

17. **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 agreement 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 NCAOR and the decision of the said Arbitrator shall be final and binding upon the parties.
18. **RIGHT TO CANCEL TENDER/WORK ORDER:** 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.
19. **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.

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EMD details

I /we have enclosed,

A crossed DD No. í í í í í í í í í dated í í í í í í í í í .

of **Rs. 11,000/- (Rs. Eleven Thousand only)** drawn in favour of

Director, NCAOR payable at Vasco-da-Gama, Goa, towards **EMD**.

Name & Signature of the Tenderer with seal:

** Pl. note : The name of the institute National Centre for Antarctic & Ocean Research (NCAOR) has been changed to National Centre for Polar & Ocean Research (NCPOR) however, it is not yet changed in official bank accounts. Therefore, DD of EMD to be drawn in the name of **Director, NCAOR***

Particulars of The Tenderer

(Providing the following details is mandatory. Enclose it with the tender)

Name of the Contractor : _____

Name of the Firm : _____

Telephone No. (Office) : _____

Telephone No. (Residence) : _____

E-mail ID / website : _____

Permanent office Address : _____

: _____

Residential Address : _____

: _____

Mobile No : _____

*GST No. : _____

*Trade Registration Licence No. : _____

*Registration with Fire Department : _____
(Regn. Number)

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

(*pl. enclose true copies)

Name, Signature of the Tenderer with seal:

Work Completion Proforma

Pl. provide details of work experience in the following format. The work at least one single FE work of Rs.3 lakh or above OR Two FE works of Rs. 2 lakh or above or Three FE works of Rs. 1 lakh or above during last five years ending December 2018. (FE work means work of repair & maintenance of both Fire Extinguishers & Fire Hydrant System)

* Work Orders & Work Completion Certificates should be enclosed.

Sr. No.	Name of work	Name of the Client and Location of site	Value of work	Date of completion of work	Name of the Contact Person and contact numbers

Signature of the Tenderer with seal :

Date & place:

Scope of work

Comprehensive Annual maintenance of 'Portable Fire Extinguishers' and 'Fire Hydrant System' as listed and described below under the heading A and B respectively. The details of the operations required to be executed during the year for effective maintenance of the above stated fire fighting system has been clearly detailed in A-II and B-I below, which has to be strictly adhered.

A. Comprehensive Annual Maintenance and Refilling of Fire Extinguishers

A-I: One Time Service

- i The contract shall includes a **General Service of Refilling and Reconditioning of FE after due date**. The General service includes removal of existing Fire Extinguisher (FE) from the various locations in NCPOR campus and taking the same to the Contractor's factory for reconditioning, repainting, refilling, hydraulic pressure testing and replacement of spares if any and later installing the cylinders back to the same locations. The service should be carried out as per IS code standard
- ii Intermediate services, if any, with respect to refilling and reconditioning of FE may be taken if FE is emptied due to utilization. Payment for availing 'Intermediate services' will be made on pro rata basis per cylinder.
- iii The refilled & reconditioned cylinders should be labeled with information such as type of refilled material, capacity, method of operation, date of refilling, due date of refilling, date of HPT and other standard necessary details if any.
- iv All extinguishers shall be refilled and pressure tested as per IS 2190:2010 and water type extinguishers shall be refilled with potable water (tube well water shall not be allowed). The FE shall be weighed and refilled in consultation with Engineer In-charge. The Fire Extinguisher should be examined internally for any damage & corrosion before re-filling.
- v All Fire Extinguishers must be discharged/emptied before re-filling of fire extinguishers
- vi The Fire Extinguisher should be examined internally for any damage & corrosion before re-filling

A-II: Four -Routine Services (Quarterly)

- i **Maintenance** of all various types of Fire Extinguishers (FE) owned and installed at different locations in NCPOR. The number may increase/ decrease from time to time and payment for the same will be made on prorate basis.
- ii The Routine service includes repair or replacement of hose clips, hose nozzles, chassis repair general cleaning of fire extinguishers, Checking & replacement of pressure gauges, squeeze, grip, Syphon tube, discharge nozzle, repair/ replacement of brass portion, repair/ replacement of valves/ lids, fixing/ positioning of fire extinguishers, refilling, repair/ replacement of grip handle/ PVC base/ trolley (as required). The contractor has to submit a quarterly Report , w.r.t. refilling and HPT of FE according to the Due date , pressure gauge or indicator, by weighing weight etc., and any other work to maintain the serviceability of the fire extinguishers accordingly, to the Engineer in-charge.

- iii All extinguishers shall be replaced / refilled within 7 days if required and conveyed by NCPOR. The cost of refilling shall be borne by NCPOR.
- iv All Extinguishers shall be numbered and inventory maintained as per NCPOR format

List of Fire Extinguishers to be maintained :

Sr.	Type and detail of Fire Extinguisher	Unit	Qty Nos.
1	CO2 Type -2 kg	Nos	2
2	CO2 Type -3.2 kg	Nos	6
3	CO2 Type-5.2 kg	Nos	3
4	CO2 Type- 4.5 kg	Nos	17
5	CO2 Type -9 Kg	Nos	12
6	ABC dry powder CO2 Type- 5kg	Nos	1
8	ABC dry powder- 2 kg	Nos	37
9	Mechanical Foam (AFFF)- 9 ltr	Nos	8
10	Dry Chemical powder, 5 kgs	Nos	8
11	Dry chemical powder type , 6 kgs	Nos	5
12	ABC Dry Powder Stored pressure Type -6kg	Nos	16
13	Dry chemical powder -25 kgs	Nos	1
14	Mechanical Foam [AFFF] Type- 50 Ltr.	Nos	1
16	Inverted foam Type- 9 ltr	Nos	1
17	ABC Dry Powder stored pressure type-12kg	Nos	2
18	BC-3.2 kg	Nos	7
19	BC- CO2 type -22.5 kg	Nos	1
20	ABC Water Fire Type -9 ltr.	Nos	13
21	BC dry chemical - 5kgs	Nos	2
22	BC-CO2 Type-4.5kgs	Nos	13
Total			156

**B Comprehensive Maintenance of Hydrant System: Four -Routine Services
(Quarterly)**

B- I. Preventive maintenance and procedures to be followed on the quarterly visit:

- i. Each Pump should be tested by operating it on every visit. Discharge of water should be from Hydrant. Unnecessary sound and vibration should be noted and corrected.
- ii. Pump automation should be checked.
- iii. Greasing of pumps and motors to be carried out.
- iv. Checking of electrical terminals, contact points of the starters/contractors, TP & N SFU with HRC fuses and relays installed in main panel.
- v. Hydrants shall be tested with hose and branch pipe rolled out. The jet shall be operated for at least 2 minutes. Hose shall be dried before rolling back.
- vi. First Aid Hose Reels shall be tested by swinging it on its support and partly opening the hose and discharge of water for 60 seconds. Later First Aid Hose Reel shall be extended to full length and water discharged for 120 seconds and the pipe shall be rolled back uniformly line by line. There shall be no leakage from MS piping or from clips holding rubber or even from rubber pipe. Any leakage should be immediately arrested.
- vii. Internal and External Hose Cabinet shutters shall be cleaned on every visit including removal of dust and dirt within cabinet.
- viii. Any rupture/leakage affecting fire fighting system to be checked and immediately rectified.

B- II. Preventive maintenance and procedures to be followed on the bi-yearly visit:

- i. Each Pump should be tested for its insulation resistance and alignment of bearings and shaft. Unnecessary sound and vibration should be noted and corrected.
- ii. Replacement of bushes, bearings, condensers, switches, Overhauling, replacement of leads, minor hard ware replacement and repair of minor damages to core and body, painting of motors are in the scope of Agency.

B-III Preventive maintenance and procedures to be followed Annually:

Painting shall be done annually to all the exposed hydrants, pipes, hose cabinets etc. by scrapping and removing rust, applying one coat of red oxide zinc chromate primer and two coats of good quality synthetic enamel paint of approved brand and shade matching the existing set up.

Details of the Fire hydrant system, required to be operated and maintained :

Sr.	Item	Quantity	Location of Installation
1	Main Pump & motor : Electric driven centrifugal pump of cast iron body ,bronze impeller, stainless steel shaft & mechanical seal, along with 37kw, 50 HP SQ cage induction motor connected to the pump.	1 Set	Pump room
2	Diesel engine driven pump :Diesel engine driven centrifugal pump of cast iron body ,bronze impeller, stainless steel shaft & mechanical seal. <i>(DG will be maintained by NCAOR)</i>	1 No	Pump room
3	Jockey Pump & motor : Electric driven centrifugal pressurization pump of cast iron body ,bronze impeller, stainless steel shaft & mechanical seal, along with 7.5 HP SQ cage induction motor connected to the pump, its pressure gauge and switches.	1 set	Pump room
4	Electrical Panel : Common Electrical Panel for auto and manual operation of pumps and diesel engine control. With Digital Voltmeter ,Ammeter ,TP & N SFU with HRC fuses with suitable HP ,fully automatic star/delta starter with over load protection, current sensing type single phase preventor ,battery charger, complete with all standard relays and accessories for automatic operation.	1 No	Pump Room
5	MS pipe - C' class heavy duty MS pipe of varying sizes b/n 25 -150m with fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc.	1 Set	Located in Pump Room, Auditorium Basement,Shaft Area and Terrace.
6	First -Aid hose reel Sets : First -Aid hose reel with 40m long 20mm dia thermoplastic water hose , 20mm dia gun metal globe valve and nozzle , drum & brackets and 25 mm stop valve connected to riser .	6 Sets	For internal hydrant
7	Hydrants - Single headed internal And external yard hydrant with instantaneous gun metal coupling of		Basement, First floor and

	63mm dia, cast iron wheel , black gun metal cap with chain	12 Nos	second floor
8	Valves -Butterfly valve PN 1.6 with bronze/gun metal seat of sizes - 200,150, 80 mm dia and Non-return valve of sizes -150 mm and 80mm	30 Nos	Pump room 3way ,4 ways sprinkler, basement ,external hydrant and wet riser shaft
9	4 way & 3 way Fire brigade connection -4 way and 3 way fire brigade connection of cast iron body, Gun metal male instantaneous inlet couplings complete with cap and chain.	4 nos	Near Pump Room
10	Air vessel - air vessel made of 250 mm dia, 1200mm in height with air release valve, drain, Gun metal wheel valve, , pressure gauge , with all necessary accessories.	2 Nos	Pump room and Terrace
11	RRL hose pipes -63mm dia, 15mtr. Long RRL hose pipe with 63mm dia Male and Female Gun metal couplings duly binded with GI wire, rivets etc	24 nos	For Internal and external hydrants
12	Hose cabinets - MS sheet Hose cabinet of sizes 900mm x 600mm x 500mm and 400x 400x 400 mm with glazed glass doors i/c necessary locking arrangement	12 Nos	For internal and External Hydrant
13	Sprinkler System - Powder coated pendant sprinkler rated at 68/79 degree centigrade with quartzoid bulb 15 mm dia Orifice K factor 80(5.6)	138 Nos	Basement and auditorium hall i/c stage.
14	Up upright sprinkler - 68°C 15mm dia gunmetal /Brass quartzoid type up upright sprinkler head with quartz bulb and Sprinklers flexible hose with hexagonal check nut gaskets, MS socket and reducer nipple etc.	41 Nos	Basement and auditorium hall i/c stage

Guidelines for maintenance.

- i. In case of breakdown of motor and pump (7.5hp & 50hp), the Contractor has to remove it, transport it outside the NCPOR & get it rewinded/repaired through a proper agency, transport it back to NCPOR & properly re-fit it. The cost for this item will be paid extra as & when required as quoted by you in the price bid. The copper wires, insulation materials, lead wires and other materials used in repair and rewinding, should be of as originally(existing) used and should not be below class F. Rewinding should be done as per the original(existing) winding design.
- ii. In case of breakdown of main panel, maintenance may require replacement of faulty starters, contractors, TP & N SFU with HRC fuses and relays etc should be done for maintaining the auto operation of the Fire Fighting System.
- iii. In case of breakdown due to rupture/leakage of MS pipes maintenance may require welding or involved repairs.
- iv. All types of the non functional valves, pressure gauges and pressure switches beyond repairs shall be replaced with the new ones.
- v. In case of damage/breakage/loss of gasket and glass of hose cabinets , gun metal cap with chain , rubber cap,any related necessary accessories of fire hydrant should be replaced with new ones.
- vi. The coupling attached to RRL pipes if loosened due to damage of binding wire the same to be fixed with new wires.
- vii. Sprinklers if need to be replaced due to usage in fire incident, it has to be replaced by the contractor. Separate payment for same shall be made on actual basis.
- viii. Sprinklers flexible hose with hexagonal check nut gaskets, MS socket and reducer nipple if damaged need to be replaced.

Note: The above details of equipments /system provided are not exhaustive. The contractor has to ensure the maintenance of the entire system in place.

Special Terms and Conditions of maintenance :

- The contractor has to be Registered/certified with from Government –‘Directorate of Fire and emergency services’ for providing services of supply, installation and maintenance of fire protection/fighting system and equipments. A valid certificate related to the same need to be provided in the tender
- Hydraulic Pressure test should be carried out in conformity with the procedure of IS and also contractor has to submit Hydraulic Pressure test and Refilling warranty certificate for refilled fire extinguishers as per standards stated in IS 2190:2010.
- In case of failure of fire extinguishers during the warranty period, the contractor has to replace it with new one at his own cost.
- Prior to Installation, The FE will be tested randomly among the serviced fire extinguishers. During inspection if any FE is found not working satisfactorily then it would be considered as entire lot is defective and will be summarily rejected.
- The contractor should provide live demo for particular class of fire extinguisher on site (NCPOR) at his own cost.
- During Period of servicing, the Contractor should provide minimum no of filled FE (04-05 for each building) for standby arrangement at his own cost.
- The FE to be taken out from NCPOR should be verified, and removed from various locations in presence of NCPOR representative and can be taken out only when proper gate pass is issued by Engineer in charge.

- Contractor will visit the site as and when called by the Engineer In-charge. On his visit he should meet the Engineer In-charge and will report about satisfactory working of all equipment's.
- The contractor should arrange/provide all tools and tackles required for the safe and satisfactory maintenance.
- The contractor has to carry out a quarterly maintenance and submit detail report as per NCPDR format for all the equipments / installations mentioned above in the scope of work.
- If any damage to any equipments and allied accessories occurred due to improper maintenance or negligence in workmanship, the parts/spares will be replaced by the contractor immediately free of cost.

Note: The contractor should visit the site, inspect the Fire Extinguishers, fire hydrant and the entire firefighting system, verify and understand the actual requirement prior to submitting the bid for the work.

List of Indian Standards to be referred:

IS2190: 2010 Selection, Installation and maintenance of first -aid fire extinguishers

IS 15683:2006 Portable Fire Extinguishers- Performance and Construction

IS 13039 (1991, Reaffirmed 2000): External Hydrant system- Provision and Maintenance.

SCHEDULE OF RATES (PRICE BID)

(Only RATE in words and figures. Amount in figures)

(FE = Fire extinguisher)

Sr.no	Item	Unit	Qty	RF (Rate)	HPT (Rate)	Total rate	Total (Rs)
a	b	c	d	e	f	g (e + f)	h (g x d)
A	Providing annual service for the following Fire Extinguishers which includes repairing, refilling, reconditioning, painting, Hydraulic Pressure Tests, necessary replacement of all type of spare parts associated with the fire extinguishers. as per details specified in A-1 & A-2 of Annex-VI.						
1	CO2 Type -2 kgs	Nos	2				
	<i>Only RATE in words:</i>						
2	CO2 Type -3.2 kgs	Nos	6				
	<i>Only RATE in words:</i>						
3	CO2 Type-5.2 kgs	Nos	3				
	<i>Only RATE in words:</i>						
4	CO2 Type- 4.5 kgs	Nos	17				
	<i>Only RATE in words:</i>						
5	CO2 Type -9 Kgs	Nos	12				
	<i>Only RATE in words:</i>						
6	A.B.C dry powder CO2 Type- 5kgs	Nos	1				
	<i>Only RATE in words:</i>						
7	A.B.C dry powder- 2 kgs	Nos	37				
	<i>Only RATE in words:</i>						
8	AFFF- 9 ltrs	Nos	8				
	<i>Only RATE in words:</i>						
9	Dry Chemical powder, 5 kgs	Nos	8				
	<i>Only RATE in words:</i>						
10	Dry chemical powder type , 6 kgs	Nos	5				
	<i>Only RATE in words:</i>						
11	Stored pressure Type ABC-6 KG	Nos	16				

	<i>Only RATE in words:</i>						
12	Dry chemical powder -25 kgs	Nos	1				
	<i>Only RATE in words:</i>						
13	MechanicalFoam (AFFF) Type - 50 Ltr.	Nos	1				
	<i>Only RATE in words:</i>						
14	Inverted type form Type- 9 ltrs	Nos	1				
	<i>Only RATE in words:</i>						
15	ABC Dry Powder stored pressure type-12KG	Nos	2				
	<i>Only RATE in words:</i>						
16	B.C-3.2 kg	Nos	7				
	<i>Only RATE in words:</i>						
17	B.C CO2 Type -22.5 kgs	Nos	1				
	<i>Only RATE in words:</i>						
18	Water Fire Type Abc -9 ltr.	Nos	13				
	<i>Only RATE in words:</i>						
19	BC dry chemical - 5kgs	Nos	2				
	<i>Only RATE in words:</i>						
20	BC-Carbon Dioxide Type-4.5kgs	Nos	13				
	<i>Only RATE in words:</i>						
	<i>Sub Total A</i>						
	GST on Sub total A%						
	Total A						
B	Providing Comprehensive Annual Maintenance for Fire Hydrant system as specified in B1,B2 & B3 of Annexure-VI	-	-	-	-		
	<i>Only RATE in words:</i>						
	<i>Sub Total B</i>						
	GST on Sub total B%						
	Total B						
C	Rewinding of below mentioned motors including, labour and transportation charges etc.						
i)	7.5 HP SQ cage induction motor	No.	1	-	-		

	<i>Only RATE in words:</i>					
ii)	50 HP SQ cage induction motor	No.	1	-	-	
	<i>Only RATE in words:</i>					
	<i>Sub Total C</i>					
	GST on Sub total C..%					
	Total C					
	Grand Total (A + B + C) :					

*all pages of price bid should be signed & stamped.

Grand Total: Rs. _____

Grand Total *in words*: Rs. _____

1. Item Sr. C will be considered for price evaluation however, the amount will be paid only when this service is availed.
2. Discount offered if any, should be included in the quoted rates & should not be shown separately.
3. Bidders should quote all items given in the price bid. If all items are not quoted then the bid will be considered as incomplete bid and will be rejected outright.
4. Price Evaluation Criteria - The Lowest Evaluated Bidder (L1) would be arrived from the Grand Total.

DECLARATION

- 1) We have read and understood the terms & conditions of the above mentioned tender and comply to all Terms & Conditions of your Tender. (In case of any deviation the Bidder must attach a separate sheet clearly mentioning the Clause No. of the Tender and Deviation thereto)
- 2) We certify that the information mentioned above are true and correct to best of our knowledge.
- 3) If the work is awarded to us, we assure that the entire work will be satisfactorily completed within the stipulated time.
- 4) We agree to accept payment through PFMS.

Signature of Authorised Signatory :

Date:

Name :

Designation:

Seal: