



IISER PUNE

भारतीय विज्ञान शिक्षा और अनुसंधान संस्थान, पुणे

(शिक्षा मंत्रालय, भारत सरकार का एक स्वायत्त संस्थान)

आईआईएसईआर पुणे परिसर, डॉ होमी भाभा रोड, पुणे-411008

INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH PUNE

(An Autonomous Institution of the Ministry of Education, Govt. of India)

IISER PUNE campus, Dr. Homi Bhabha Road, Pune-411 008.

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Dated 14/11/2022

कोटेशन आमंत्रित करने की सूचना NOTICE INVITING QUOTATION

निदेशक, आईआईएसईआर पुणे की ओर से अधोहस्ताक्षरी द्वारा एतद्वारा विद्युत कार्यों के लिए उपयुक्त श्रेणी में सीपीडब्ल्यूडी, महाराष्ट्र राज्य पीडब्ल्यूडी, एमईएस, रेलवे के साथ पंजीकृत से 24/11/2022 को अपराह्न 3.00 बजे तक नीचे उल्लिखित कार्य के लिए मुहरबंद कोटेशन आमंत्रित किए जाते हैं। ठेकेदार को कार्य के निष्पादन के लिए महाराष्ट्र अग्निशमन सेवा, महाराष्ट्र सरकार द्वारा अधिकृत एजेंसियों से संबद्ध होना आवश्यक है। पंजीकरण प्रमाण पत्र निविदा प्राप्त होने की अंतिम तिथि तक वैध होना चाहिए। या महाराष्ट्र अग्नि निवारण और जीवन सुरक्षा उपाय अधिनियम 2006 के उद्देश्य से महाराष्ट्र अग्निशमन सेवा, महाराष्ट्र सरकार की लाइसेंस प्राप्त एजेंसी, और अग्नि हाइड्रेंट सिस्टम के संचालन और रखरखाव के लिए प्रतिष्ठित संगठन और संस्थान के साथ कार्य अनुभव। पंजीकरण प्रमाण पत्र निविदा प्राप्ति की अंतिम तिथि तक वैध होना चाहिए।

Sealed quotations are hereby invited by the undersigned on behalf of the Director, IISER Pune for the work mentioned below up to 3.00 PM on 24/11/2022 from registered with CPWD, Maharashtra State PWD, MES, Railways in appropriate category for Electrical works (Contractor required to be associated with agencies having authorized by Maharashtra Fire Services, govt of Maharashtra for execution of work. The registration certificate should be valid till the last date of receipt of tender.

OR Licensed agency of Maharashtra fire services, Government of Maharashtra for the purpose of the Maharashtra Fire Prevention and Life Safety Measures Act 2006, and having work experience with reputed organization and institute for operation and maintenance of fire hydrant system.

The registration certificate should be valid till the last date of receipt of tender.

कार्य का नाम: - आईआईएसईआर पुणे 2022-23 में अग्निशमन प्रणाली के लिए वार्षिक गैर व्यापक रखरखाव अनुबंध।

NAME OF WORK: - Annual Non Comprehensive Maintenance Contract for Fire Fighting System at IISER Pune 2022-23..

जारी करने के लिए - एजेंसी का नाम और पता -

Issue to - Name and address of the agency -

नियम और शर्तें:

Terms and Conditions:

आवेदक को विद्युत कार्यों के लिए उपयुक्त श्रेणी में सीपीडब्ल्यूडी, महाराष्ट्र राज्य पीडब्ल्यूडी, एमईएस, रेलवे के साथ पंजीकृत होना चाहिए (ठेकेदार को काम के निष्पादन के लिए महाराष्ट्र अग्निशमन सेवा, महाराष्ट्र सरकार द्वारा अधिकृत एजेंसियों से जुड़ा होना आवश्यक है। पंजीकरण प्रमाण पत्र वैध होना चाहिए। निविदा प्राप्ति की अंतिम तिथि तक। या महाराष्ट्र अग्नि निवारण और जीवन सुरक्षा उपाय अधिनियम 2006 के उद्देश्य से महाराष्ट्र अग्निशमन सेवा, महाराष्ट्र सरकार की लाइसेंस

प्राप्त एजेंसी, और अग्नि हाइड्रेंट सिस्टम के संचालन और रखरखाव के लिए प्रतिष्ठित संगठन और संस्थान के साथ कार्य अनुभव। पंजीकरण प्रमाण पत्र निविदा प्राप्ति की अंतिम तिथि तक वैध होना चाहिए। न्यूनतम पात्रता मानदंडों को पूरा नहीं करने वाले बोलीदाताओं को सरसरी तौर पर खारिज कर दिया जाएगा।

The applicant should be registered with CPWD, Maharashtra State PWD, MES, Railways in appropriate category for Electrical works (Contractor required to be associated with agencies having authorized by Maharashtra Fire Services, govt of Maharashtra for execution of work. The registration certificate should be valid till the last date of receipt of tender.

OR Licensed agency of Maharashtra fire services, Government of Maharashtra for the purpose of the Maharashtra Fire Prevention and Life Safety Measures Act 2006, and having work experience with reputed organization and institute for operation and maintenance of fire hydrant system.

The registration certificate should be valid till the last date of receipt of tender. Bidders not meeting the minimum eligibility criteria shall be summarily rejected.

आवेदक को सरकारी संगठन / संस्थान / सार्वजनिक क्षेत्र की इकाई / समकक्ष से पिछले तीन वर्षों के भीतर पूरे किए गए कार्य के अनुभव और समान कार्य के सफल समापन की स्व-सत्यापित प्रतियां प्रस्तुत करनी चाहिए। अनुभव या कार्य पूर्णता प्रमाण पत्र एनआईक्यू के साथ प्रस्तुत किया जाना चाहिए। न्यूनतम पात्रता मानदंडों को पूरा नहीं करने वाले या प्रासंगिक दस्तावेज जमा करने में विफल रहने वाले बोलीदाताओं को सरसरी तौर पर खारिज कर दिया जाएगा।

Applicant should submit self-attested copies of experience & successful completion of similar work for the work completed within last three years from Government organization / institute / Public sector unit / Equivalent. Experience or work completion certificate should be submitted with NIQ. Bidders not meeting minimum eligibility criteria or failed to submit relevant document shall summarily be rejected.

समान कार्यों का अर्थ अग्निशमन प्रणाली के लिए वार्षिक गैर व्यापक रखरखाव अनुबंध है जिसमें हाइड्रेंट, स्प्रिंकलर, हाइड्रेंट लाइन, विभिन्न प्रकार के पंप (टेरेस पंप, डीजल इंजन, मुख्य अग्नि पंप, जॉकी पंप) आदि शामिल हैं।।

Similar works means Annual Non comprehensive maintenance contract for Fire Fighting System which includes hydrants, sprinklers, hydrant line, various types of pumps (Terrace pump, Diesel engine, main fire pump, Jockey Pump) etc.

कार्य पूरा करने की समयावधि आईआईएसईआर पुणे द्वारा कार्य आदेश देने की तिथि से 1 (एक) वर्ष होगी। कोटेशन खोलने के बाद बैक-आउट का कार्य ऐसी एजेंसियों को आईआईएसईआर पुणे के भविष्य के कोटेशन में भाग लेने से वंचित कर देगा। बोलीदाता, रखरखाव@iiserpune.ac.in पर प्रश्न ई-मेल कर सकते हैं या उपरोक्त निर्दिष्ट कोटेशन जमा करने की तिथि से एक दिन पहले सभी कार्य दिवसों में हार्ड कॉपी में आईआईएसईआर पुणे कार्यालय में जमा कर सकते हैं।

Time period for completion of work shall be 1 (One) Year from the date of placing the work order by IISER Pune. The act of backing-out after opening of quotation will debar such agencies for participating in the future quotations of IISER PUNE. Bidder may e-mail queries on maintenance@iiserpune.ac.in or submit to IISER PUNE office in hard copy on all working days one day before submission date of quotation as specified above.

सूचना आमंत्रण (एनआईक्यू) दस्तावेज आईआईएसईआर पुणे से 121, इंजीनियरिंग अनुभाग, मुख्य भवन, आईआईएसईआर पुणे परिसर, डॉ होमी भाभा रोड, पाषाण, पुणे - 411008 से सभी कार्य दिवसों में पूर्वाह्न 10 बजे से शाम 4 बजे के बीच प्राप्त किया जा सकता है। प्रस्तुत करने। आवेदक आईआईएसईआर पुणे की वेबसाइट

<http://www.iiserpune.ac.in/links/tender-notices-and-eoi> से एनआईक्यू दस्तावेज प्राप्त करके कोटेशन जमा कर सकते हैं।

Notice Inviting Quotation (NIQ) document may be obtained from IISER PUNE at 121, Engineering Section, Main Building, IISER PUNE Campus, Dr.Homi Bhabha Road, Pashan, Pune - 411008 between 10 AM to 4 PM on all working days before date of submission. Applicant may submit quotation by obtaining NIQ document from IISER PUNE website at <http://www.iiserpune.ac.in/links/tender-notices-and-eoi>

सभी एजेंसियों को 24/11/2022 को अपराह्न 3 बजे तक और उससे पहले सीलबंद लिफाफे में हार्ड कॉपी में अपना कोटेशन जमा करना होगा। ऊपर निर्दिष्ट तिथि और समय के बाद प्राप्त कोटेशन को स्वीकार नहीं किया जाएगा। किसी भी देरी, डाक देरी आदि पर विचार नहीं किया जाएगा। एजेंसी को सभी मदों के लिए कोट करना चाहिए बीओक्यू। शब्दों में उद्धृत दरों को एल1 बोली लगाने वाले के निर्णय के लिए अंतिम माना जाएगा। बोली मूल बोली दस्तावेज (जैसा कि आईआईएसईआर, पुणे या वेबकॉपी द्वारा जारी किया गया है) में जमा किया जाना चाहिए, जिसमें काम का नाम लिखा हो। कोट की गई दरें कोटेशन खुलने की तारीख से 60 दिनों के लिए वैध होंगी। एनआईक्यू दस्तावेज में उपलब्ध कराए गए स्थानों पर दरों को हाथ से लिखकर उद्धृत किया जाएगा।

All agencies need to submit their quotation in hard copy in sealed envelope on and before 3 PM on 24/11/2022. Quotation received after the date & time specified above shall not be accepted. Any delays, postal delay etc. will not be entertained. Agency should quote for all the items in the BOQ. Rates quoted in words shall be treated as Final for deciding L1 bidder. The bid shall be submitted in the original bid document (as issued by the IISER, Pune or Webcopy) super scribing the name of work. Quoted rates shall be valid for 60 days from the date of opening of quotations. Rates shall be quoted in hand writing at the spaces provided in NIQ document.

कोटेशन उसी दिन अपराह्न 3.30 बजे एजेंसी या उनके अधिकृत प्रतिनिधियों, यदि कोई हो, की उपस्थिति में खोली जाएगी। एजेंसी का प्रस्ताव व्यावसायिक रूप से स्पष्ट होना चाहिए जिसमें एजेंसी द्वारा इस कोटेशन के सभी नियमों और शर्तों की स्वीकृति शामिल है। आईआईएसईआर पुणे बिना कोई कारण बताए कोटेशन को स्वीकार या अस्वीकार करने का अधिकार सुरक्षित रखता है।

Quotations will be opened on the same day at 3.30 PM in the presence of agency or their authorized representatives, if any. The offer of the agency should be commercially clear including acceptance of all terms and conditions of this Quotation by the agency. IISER Pune reserves the right to accept or reject the quotation/s without assigning any reasons.

किसी भी शर्त के साथ जमा किए गए कोटेशन को सशर्त कोटेशन माना जाएगा और आईआईएसईआर पुणे द्वारा सरसरी तौर पर खारिज कर दिया जाएगा।

Quotations submitted with any conditions shall be treated as conditional quotations and shall be summarily be rejected by IISER PUNE.

उद्धृत दरों में सभी सामग्रियों की लागत, श्रम लागत, जीएसटी, सभी कर, चुंगी, शुल्क, नमूने की लागत और प्रयोगशालाओं में सामग्री के परीक्षण के लिए शुल्क, रॉयल्टी आदि शामिल होना चाहिए। अतिरिक्त कुछ भी अलग से भुगतान नहीं किया जाएगा। नहीं, बोलीदाता अपनी बोली से संबंधित किसी भी मामले में बोली खुलने के समय से कार्य आदेश जारी करने के

समय तक आईआईएसईआर, पुणे से संपर्क करेगा। बोलीदाता द्वारा आईआईएसईआर के बोली मूल्यांकन, बोली तुलना या अनुबंध पुरस्कार निर्णयों को प्रभावित करने के किसी भी प्रयास के परिणामस्वरूप उसकी बोली को अस्वीकार किया जा सकता है।

Quoted rates should be inclusive of cost of all the materials, labour cost , GST ,all taxes, octroi ,duties , cost of sample and fees towards testing of materials in labs ,royalties etc. complete. Nothing extra shall be paid separately. No, Bidder shall contact the IISER, Pune on any matter relating to his bid from the time of the bid opening to the time of issue of work order. Any effort by the Bidder to influence the IISER's bid evaluation, bid comparison or contract award decisions, may result in the rejection of his bid.

सभी स्वीकृत निर्माण बीओक्यू में निर्दिष्ट के अनुसार होंगे और सीपीडब्ल्यूडी विनिर्देशों के अनुसार, एजेंसी को तकनीकी डेटा डालना चाहिए और कार्य शुरू करने से पहले आईआईएसईआर पुणे की विभिन्न सामग्रियों के निर्माण पर पूर्व अनुमोदन प्राप्त करना चाहिए। सफल एजेंसी कार्य पूरा होने के मद्देनजर कार्य आदि के लिए सभी उपकरण और टैकल की अपनी व्यवस्था स्वयं करेगी। एजेंसी को एक स्रोत पर बिजली निःशुल्क उपलब्ध कराई जाएगी, एजेंसी को स्रोत से कार्य स्थल तक सुरक्षित रूप से बिजली के दोहन की व्यवस्था स्वयं करनी चाहिए। आईआईएसईआर पुणे द्वारा कोई अग्रिम भुगतान नहीं किया जाएगा। कोट की गई दरें जीएसटी, टीडीएस और अन्य लागू करें सहित होनी चाहिए। काम के बिल से इनकम टैक्स और लेबर सेस की कटौती की जाएगी।

All approved makes shall be as specified in BOQ and as per CPWD specifications, agency should put-up technical data and obtain prior approval on makes of various materials of IISER PUNE before taking-up work. The successful agency shall make his own arrangement for all Tools & tackles for work etc complete in view of completion of work. Electricity shall be provided free of cost to agency at one source, agency should make own arrangement to safely tap of power from source to work location. No advance payment shall be made by IISER Pune. Quoted rates should be including GST, TDS and other applicable taxes. Income Tax and labour cess will be deducted from the bills of the work.

बीओक्यू नवीनतम सीपीडब्ल्यूडी विनिर्देश, आईएस विनिर्देशों और आईआईएसईआर पुणे के निर्देश के अनुसार जब भी सीपीडब्ल्यूडी / आईएस विनिर्देश उपलब्ध नहीं हैं, के अनुसार किए जाने वाले कार्य के लिए विशिष्टता।

Specification for the work to be carried out as per BOQ, latest CPWD specification, IS specifications & as per instruction of IISER PUNE whenever specification CPWD/ IS specification are not available.

ठेकेदार यह सुनिश्चित करेगा कि श्रमिकों और कर्मचारियों को श्रम कानूनों के अनुसार न्यूनतम मजदूरी का भुगतान किया जाना चाहिए। सभी आवश्यक सुरक्षा उपकरणों आदि के साथ काम के निष्पादन के दौरान निर्धारित मानदंडों के अनुसार एल 1 एजेंसी द्वारा मापी गई सभी सुरक्षा का पालन किया जाएगा। निष्पादन एजेंसी सुरक्षा मानदंडों और संबद्ध मुआवजे आदि के सख्त पालन के लिए एकमात्र तकनीकी-व्यावसायिक रूप से जिम्मेदार होगी।

The contractor shall ensure that minimum wages should be paid to the labours and employees in accordance with labour laws. All the safety measures shall be followed by the L1 agency as per prescribed norms during execution of work with all the necessary safety tools etc. Executing Agency shall be sole techno-commercially responsible for the strict adherence of safety norms and allied compensations etc.

एजेंसी को भुगतान के लिए तिमाही आधार पर आईआईएसईआर पुणे को सेवा रिपोर्ट के साथ माप और सार पत्रक प्रस्तुत करना चाहिए।

Agency should submit measurements and abstract sheets along with service report to IISER Pune on Quarterly basis for the payment.

संलग्नक:

अनुलग्नक ए - मात्रा की अनुसूची (5 पृष्ठ)

अनुलग्नक बी - कार्य का दायरा (2 पृष्ठ)

अनुलग्नक सी - निवारक रखरखाव जांच सूची (6 पृष्ठ)

अनुलग्नक डी - फायर पंप विवरण (5 पृष्ठ)

Encl :

Annex A – Schedule of Quantity (5 pages)

Annex B – Scope of work (2 pages)

Annex C – Preventive maintenance Check list (6 pages)

Annex D – Fire pump details (5 pages)



अधीक्षण अभियंता

आईआईएसईआर पुणे

Superintending Engineer
IISER Pune

Date : 14/11/2022

Schedule of Qunatity :

Name of work : Annual Non Comprehensive Maintenance Contract for Fire Fighting System at IISER Pune 2022-23.

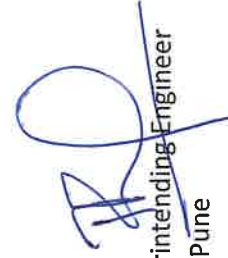
Sr.No.	Item Description	Qunatity	Unit	Rate per Annum (Rs. In words & Figure)	Amount Rs.
1	Servicing of 100 HP fire engine (make Greves cotton Ltd) as per annexure A	1	Nos		
2	Servicing of 85 HP fire engine (make Kirloskar Ltd) as per annexure A	1	Nos		
3	Servicing of 100 HP Main Fire pump (make Crompton Greves Ltd) as per annexure A	2	Nos		
4	Servicing of 100 HP Main fire pump (make Kirloskar) as per annexure A	1	Nos		
5	Servicing of 20 HP Jockey pump (make Crompton Greves) as per annexure A	1	Nos		
6	Servicing of 10 HP Jockey engine (make Kirloskar) as per annexure A	1	Nos		
7	Servicing of 15 HP Booster pump (make Kirloskar) as per annexure A	1	Nos		

8	Servicing of 10 HP Booster pump (make Mather & Platt Pumps Ltd) as per annexure A	10 Nos		
9	Servicing of External Hydrant post valve , size 63 mm, as per annexure A	92 Each		
10	Servicing of Internal Hydrant post valve , size 63 mm, as per annexure A	254 Each		
11	Servicing of Fire Hose Reel Size 25 mm with drum (30 mtrs) as per annexure A	254 Set		
12	Servicing of External Fire Hose Pipe Size 63 mm (15 mtrs) with box as per attached annexure A	92 Set		
13	Servicing of Internal Fire Hose Pipe Size 63 mm (15 mtrs) with try as per attached annexure A	254 Set		
14	Servicing of Fire Sprinkler as per annexure A	800 Each		
15	Servicing of 4 way Size 63 mm as per annexure A	14 Each		

16	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m. Rate to include all royalties, taking statutory approvals as necessary to carry out the works etc., complete : - Excavation in ordinary rock	50	CuM		
17	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m. Rate to include all royalties, taking statutory approvals as necessary to carry out the works etc., complete : - Hard rock (blasting prohibited)	50	CuM		
18	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.: Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	20	CuM		

19	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	100 CuM			
20	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:1½:3 (1 Cement: 1½ coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size)	10 CuM			
21	Providing welding by electrical plant on existing 'C' class heavy duty MS pipe in ground including anticorrosive treatment with coaltar/asphalt tape as per IS 10221, pressure testing for water leakages as per FFS standard. Work includes labour, welders, transport of plant, consumable items, finishing and testing. Work shall be considered as completed on successful testing of joints. Pipe dia Upto 150 mm. One job includes round welding of pipe, coating of anticorrosive with coalter / asphalt tape of 1 sqm size. Work shall be completed as per direction of Engineer in charge.	10 job			

22	Providing welding by electrical plant on existing 'C' class heavy duty MS pipe on surface including painting, pressure testing for water leakages as per FFS standard. Work includes labour, welders, transport of plant, consumable items, finishing and testing. Work shall be considered as completed on successful testing of joints. Pipe dia Upto 150 mm. One job includes round welding of pipe as per length of welding and painting of 1 sqm. Work shall be completed as per direction of Engineer in charge.	10 job			
					Total Rs.
	Total (In words Rs.				
Rates quoted by the agency are inclusive of all GST, labour, transportation etc. Nothing extra shall be paid separately					


 Superintending Engineer
 IISER Pune

Agency (Stamp and Sign)

Annexure A :

Scope of work :

Annual Non comprehensive Maintenance for Fire Fighting system at IISER Pune, 2022-23.

1. All equipment of Fire Pump house including Main Pump, Jockey Pump, Diesel engine, Hydrant valve, hose reel system, booster pumps, all types of starters, connectors etc which are required to be keep the system in healthy condition should be keep in healthy condition by the agency. To maintain the whole system in healthy and efficient for 24x 7, agency should engage their expertise personnel at IISER Pune whenever required.
2. Minimum one visit per month should be done by the authorised, experienced and trained personnel of agency to IISER Pune for Preventive maintenance of system as per schedule attached herewith. (Scope of work and area with schedule of visit is attached herewith).
3. Agency should carried out fire drill with hydrant system once in a three months (Four times in a year). During the fire drill, agency's personnel will train the site technicians for handling of fire equipment, norm of operation etc. which will be helpful for continuous monitoring and healthy operation for whole fire hydrant system of IISER Pune Campus.
4. Any spares & parts required to attend preventive / breakdown maintenance, to keep the system in healthy condition will be provided the IISER Pune(Except point no 8). Agency should submit their report along with required material to IISER Pune in time and on every visit. IISER Pune will provide only required spare and parts of fire hydrant system, required labour, tools, plants, metering, calibration, testing equipment's will be arranging by the agency on their risk.
5. Work excludes major item like excavation in earth, replacement of fire hydrant pipe, attending leakages in underground pipe, replacement of spares, consumable items, consumable items for engine & Pumps.
6. Agency should visit IISER Pune for breakdown of system, minor or major fault in system or to check leakages in the system. Any type of complaint from IISER Pune should be attended within 24 hours by the agency. Required spare and parts should be store at IISER Pune and Material at site should be maintain by the agency with coordination with IISER Pune.
7. Agency should train or educate staff at site for operation and maintenance of Fire hydrant system on every visit. Detailed of training should be submitted the agency on each visit with attendance and program.
8. B check servicing of both Fire Engines including required oil filters, air filters, lubrication oil, fuel filters, O rings, petroleum jelly, coolant, service kit hardware are in scope of agency. Maintenance manual check list of OEM for said Fire Engines should be follow the agency for servicing of both fire engines. Any spare replaced the agency should be identical for their rating and specifications.
9. Agency should provide required technical and legal support for submission of FORM B to fire authority whenever required.
10. Agency should provide technical support to attend any type of breakdown on the whole system of IISER Pune Campus. During AMC contract, If any addition or alternation made in the system by IISER Pune, will be in scope of this AMC.
11. Any cost of spares, excluding only B check maintenance of both Fire Engine will be scope of IISER Pune. IISER Pune will provide any spare or parts to agency, only on confirmation by the agency. Agency should submit their list of item in advance which required on site to IISER Pune during AMC period.

12. Monthly visit reports as per format attached herewith should be submitted by the agency on every visit. Failure of submission of report, visit to site, lack of experience personnel from agency, delayed in attending breakdown call or complaint will be resulted into penalty to the agency as per norm and rules of work order.
13. Agency should submit details of their personnel working on site throughout the AMC period as per format.
14. Refer Annexure A, Annexure B, Annexure C, Annexure D, Annexure E, Format for details of personnel, Format for details of material required at site,

Preventive maintenance checklist (Annexure B)				
Frequency : Monthly			Date :	
Machine Details : Jockey Pumps				
Sr.No.	Details	Observations	Action taken on it	Remarks
1	Shaft alignment between Pump and motor.			
2	Abnormal noise from pump and motor			
3	Greasing of motor and pump bearing.			
4	Cooling system of pump and motor			
5	Pressure gauges of systems.			
6	Starter of pump for healthy operation.			
7	Water leakages from the Pump or gauges.			
8	Priming system of pumps			
9	Operation of NRV and valves.			

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Preventive maintenance checklist (Annexure B)					
Frequency : Monthly		Date :			
Machine Details : Booster Pump					
Sr.No.	Details	Observations	Action taken on it	Remarks	
1	Shaft alignment between Pump and motor.				
2	Abnormal noise from pump and motor				
3	Greasing of motor and pump bearing.				
4	Cooling system of pump and motor				
5	Pressure gauges of systems.				
6	Starter of pump for healthy operation.				
7	Water leakages from the Pump or gauges.				
8	Priming system of pumps				
9	Operation of NRV and valves.				
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Preventive maintenance checklist (Annexure B)					
Frequency : Monthly		Date :			
Machine Details : Main Pumps					
Sr.No.	Details	Observations	Action taken on it	Remarks	
1	Shaft alignment between Pump and motor.				
2	Abnormal noise from pump and motor				
3	Greasing of motor and pump bearing.				
4	Cooling system of pump and motor				
5	Pressure gauges of systems.				
6	Starter of pump for healthy operation.				
7	Water leakages from the Pump or gauges.				
8	Priming system of pumps				
9	Operation of NRV and valves.				

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Agency : Stamp and Sign

Preventive maintenance checklist (Annexure B)				
Frequency : Monthly		Date :		
Machine Details : Sprinkler Pumps				
Sr.No.	Details	Observations	Action taken on it	Remarks
1	Shaft alignment between Pump and motor.			
2	Abnormal noise from pump and motor			
3	Greasing of motor and pump bearing.			
4	Cooling system of pump and motor			
5	Pressure gauges of systems.			
6	Starter of pump for healthy operation.			
7	Water leakages from the Pump or gauges.			
8	Priming system of pumps			
9	Operation of NRV and valves.			
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Preventive maintenance checklist (Annexure C)					
Frequency : Monthly		Date :			
Machine Details : Fire Engine					
Sr.No.	Details	Observations	Action taken on it	Remarks	
1	Air filter element				
2	Radiator				
3	Belts				
4	Battery and Electrolyte				
5	Lubrication oil				
6	Temperature and pressure gauges				
7	Coolant in radiator				
8	Engine and Pump alignment.				
9	water / oil leakages				
10	Governor setting				
11	Engine starters				
12	Abnormal noise from engine				
13	Engine cooling system				
14	B check maintenance (Once in year)				

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Preventive maintenance checklist (Annexure D)					
Frequency : Monthly		Date :			
Machine Details : Hydrant system					
Sr.No.	Details	Observations	Action taken on it	Remarks	
1	Permission for testing of fire hydrant system				
2	Visual inspection of whole area				
3	Visual inspection of all hydrants				
4	Removing , lubrication and refixing of caps				
5	Operation of hydrant valves				
6	flow rate test , if required.				
7	Leakages on any hydrant or pipe etc				
8	flow rate for minimum 3 minutes				
9	Clarity of water of hydrant				
10	Full closing of hydrant				
11	Placing of hose and boxes				
12	Condition of hose boxes (external & internal)				
13	Water pressure into the hydrant system				
14	Water pressure into the sprinklers				

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Agency : Stamp and Sign

	Fire Pump /Equipment Details	Make	Location	Quantity	Unit
	Service block 1				
1	100 HP Fire Engine	Greaves Cotton Ltd .	Service block 1 Pump House	1	No
2	100 HP Main Fire Pump	Crompton Greavs	Service block 1 Pump House	2	Nos
3	20 HP Jocky Pump	Crompton Greavs	Service block 1 Pump House	1	No
4	External Hydrant Post Valve Size- 63 mm		Service block1	4	Each
5	External Fire Hose Pipe Size- 63 mm (15 mtr)with Box		Service block1	4	Each
6	4 way size- 63 mm		Service block1	1	Each
	MLB				
1	10 HP Booster Pump	Mather & Platt Pumps Ltd.	Chemistry Terrece	1	No
2	10 HP Booster Pump	Mather & Platt Pumps Ltd.	Physics Terrece	1	No
3	10 HP Booster Pump	Mather & Platt Pumps Ltd.	Biology Terrece	1	No
4	External Hydrant Post Valve Size- 63 mm		Main Building	18	Each
5	External Fire Hose Pipe Size- 63 mm (15 mtr)with Box		Main Building	18	Each
6	Internal Hydrant Post Valve Size- 63 mm		Main Building	41	Each
7	internal Fire Hose Pipe Size- 63 mm (15 mtr)with try		Main Building	41	Each
8	Fire Hose Reel Size- 25 mm with drum (30 mtr)		Main Building	41	Each
9	4 way size- 63 mm		Main Building	7	Each
	LHC				
1	10 HP Booster Pump	Mather & Platt Pumps Ltd.	LHC Terrece	1	No.
2	External Hydrant Post Valve Size- 63 mm		LHC	6	Each
3	External Fire Hose Pipe Size- 63 mm (15 mtr)with Box		LHC	6	Each
4	Internal Hydrant Post Valve Size- 63 mm		LHC	6	Each
5	Internal Fire Hose Pipe Size- 63 mm (15 mtr)with try		LHC	6	Each
6	Fire Hose Reel Size- 25 mm with drum (30 mtr)		LHC	6	Each
7	4 way size- 63 mm		LHC	1	Each

	Hostel-1				
1	15 HP Booster Pump	Kirloskar	Hostel-1 Terrece	1	No
2	External Hydrant Post Valve Size- 63 mm		Hostel-1	8	Each
3	External Fire Hose Pipe Size- 63 mm (15 mtr)with Box		Hostel-1	8	Each
4	Internal Hydrant Post Valve Size- 63 mm		Hostel-1	40	Each
5	Internal Fire Hose Pipe Size- 63 mm (15 mtr)with try		Hostel-1	40	Each
6	Fire Hose Reel Size- 25 mm with drum (30 mtr)		Hostel-1	40	Each
7	4 way size- 63 mm		Hostel-1	1	Each
	Hostel-2				
1	10 HP Booster Pump	Mather & Platt Pumps Ltd.	Hostel-2 Terrece	1	No
2	External Hydrant Post Valve Size- 63 mm		Hostel-2	8	Each
3	External Fire Hose Pipe Size- 63 mm (15 mtr)with Box		Hostel-2	8	Each
4	Internal Hydrant Post Valve Size- 63 mm		Hostel-2	40	Each
5	Internal Fire Hose Pipe Size- 63 mm (15 mtr)with try		Hostel-2	40	Each
6	Fire Hose Reel Size- 25 mm with drum (30 mtr)		Hostel-2	40	Each
7	4 way size- 63 mm		Hostel-2	1	Each
	Hostel-3				
1	10 HP Booster Pump	Kirloskar	Hostel-3 Terrece	1	No
2	External Hydrant Post Valve Size- 63 mm		Hostel-3	8	Each
3	External Fire Hose Pipe Size- 63 mm (15 mtr)with Box		Hostel-3	8	Each
4	Internal Hydrant Post Valve Size- 63 mm		Hostel-3	44	Each
5	Internal Fire Hose Pipe Size- 63 mm (15 mtr)with try		Hostel-3	44	Each
6	Fire Hose Reel Size- 25 mm with drum (30 mtr)		Hostel-3	44	Each
7	4 way size- 63 mm		Hostel-3	1	Each

	Dining Block				
1	10 HP Booster Pump	Mather & Platt	Dining Terrece	1	No
2	External Hydrant Post Valve Size- 63 mm		Dining Block	7	Each
3	External Fire Hose Pipe Size- 63 mm (15 mtr)with Box		Dining Block	7	Each
4	Internal Hydrant Post Valve Size- 63 mm		Dining Block	8	Each
5	Internal Fire Hose Pipe Size- 63 mm (15 mtr)with try		Dining Block	8	Each
6	Fire Hose Reel Size- 25 mm with drum (30 mtr)		Dining Block	8	Each
7	4 way size- 63 mm		Dining Block	1	Each
	Indoor Stadium				
1	External Hydrant Post Valve Size- 63 mm		Indoor Stadium	7	Each
2	External Fire Hose Pipe Size- 63 mm (15 mtr)with Box		Indoor Stadium	7	Each
	Faculty Housing A & B Wing				
1	10 HP Booster Pump	Mather & Platt Pumps Ltd.	FH A wing Terrece	1	No
2	10 HP Booster Pump	Mather & Platt Pumps Ltd.	FH B wing Terrece	1	No
3	External Hydrant Post Valve Size- 63 mm		Faculty A & B wing	11	Each
4	External Fire Hose Pipe Size- 63 mm (15 mtr)with Box		Faculty A & B wing	11	Each
5	Internal Hydrant Post Valve Size- 63 mm		Faculty A & B wing	44	Each
6	Internal Fire Hose Pipe Size- 63 mm (15 mtr)with try		Faculty A & B wing	44	Each
7	Fire Hose Reel Size- 25 mm with drum (30 mtr)		Faculty A & B wing	44	Each
8	4 way size- 63 mm		Faculty A & B wing	2	Each

	Admin Housing D Wing				
1	10 HP Booster Pump	Kirloskar	D wing Terrece	1	No
2	External Hydrant Post Valve Size- 63 mm		D wing	8	Each
3	External Fire Hose Pipe Size- 63 mm (15 mtr)with Box		D wing	22	Each
4	Internal Hydrant Post Valve Size- 63 mm		D wing	22	Each
5	Internal Fire Hose Pipe Size- 63 mm (15 mtr)with try		D wing	22	Each
6	Fire Hose Reel Size- 25 mm with drum (30 mtr)		D wing	22	Each
7	4 way size- 63 mm		D wing	1	Each
	Animal House				
1	10 HP Booster Pump	Kirloskar	Animal House terrece	1	No
2	External Hydrant Post Valve Size- 63 mm		Animal House	7	Each
3	External Fire Hose Pipe Size- 63 mm (15 mtr)with Box		Animal House	7	Each
4	Internal Hydrant Post Valve Size- 63 mm		Animal House	9	Each
5	Internal Fire Hose Pipe Size- 63 mm (15 mtr)with try		Animal House	9	Each
6	Fire Hose Reel Size- 25 mm with drum (30 mtr)		Animal House	9	Each
7	4 way size- 63 mm		Animal House	1	Each
	Hostel Pump House				
	Pump Details	Make	Location	Quantity	
1	85 HP Fire Engine	Kirloskar	Hostel Pump House	1	No
2	100 HP Main Fire Pump	Kirloskar	Service block 2 Pump House	1	No
3	10 HP Jocky Pump	Kirloskar	Service block 2 Pump House	1	No
4	4 way size- 63 mm		Service block 2 Pump House	1	Each