



EMPLOYEES' STATE INSURANCE CORPORATION

Ministry of Labour & Employment, Govt. of India
"PANCHDEEP BHAWAN"

Plot No.-6, Block-GB, Sector-III, Salt Lake, Kolkata - 700 097.

Ph. 033 2335 6021

www.ESIC.nic.in

No. 412.W.17/Fire /18/Tender/

Date :09.09.2019

E-TENDER NOTICE

NOTICE INVITING OF E-TENDER OPERATION, MAINTENANCE, SERVICING, MONITORING OF ENTIRE DOMESTIC WATER DISTRIBUTION (PHE), FIRE DETECTION, FIGHTING AND SAFETY EQUIPMENT FITTED IN THE HOSPITAL PREMISES AT ESIC MEDICAL COLLEGE & HOSPITAL, JOKA, KOLKATA

FOR A PERIOD OF ONE YEAR.

The Regional Director, ESIC Kolkata invites E-tender from eligible Agencies / Contractors for **OPERATION, MAINTENANCE, SERVICING, MONITORING OF ENTIRE DOMESTIC WATER DISTRIBUTION (PHE), FIRE DETECTION, FIGHTING AND SAFETY EQUIPMENT FITTED IN THIS HOSPITAL PREMISES AT ESIC MEDICAL COLLEGE & HOSPITAL, JOKA, KOLKATA FOR A PERIOD OF ONE YEAR.** The The Regional Director reserves the right to reject any or all the tenders without assigning any reason thereof. The bidder has to submit a declaration under his signature and seal stating to complete the work as per tender condition and specification within the prescribed time limit.

Sl. No	Nature of Work	Estimated Cost (Inclusive of GST)	2% Earnest Money to be deposited on estimated cost
01	OPERATION,MAINTENANCE, SERVICING, MONITORING OF ENTIRE DOMESTIC WATER DISTRIBUTION (PHE), FIRE DETECTION, FIGHTING AND SAFETY EQUIPMENT FITTED IN THIS HOSPITAL PREMISES AT ESIC MEDICAL COLLEGE & HOSPITAL, JOKA, KOLKATA FOR A PERIOD OF TWO YEAR	Rs. 63,71,412/-	Rs. 1,27,428/-

*** Rate shall be quoted by bidder must be inclusive of GST & All Other Charges.**

- Bidders are requested that, before quoting their rates tender form may please be read out thoroughly (line by line), otherwise bidder will be held responsible for any error/oversight.
- The form is a standard Form of Tender. Certain clause / clauses may not be applicable in some cases. So, Bidders are requested to ignore such clause / clauses, which are not applicable in the instant case.
- Tender documents is also available for viewing on the 'tenders' link of the website Employees' State Insurance Corporation i. e. www.ESIC.nic.in, & <https://eprocure.gov.in/eprocure/app>.

4. The interested bidders should upload duly filled up tender form and their bids along with scanned copies of all the relevant certificates, documents, etc. in support of their technical & price bids -all duly signed - on the <https://eprocure.gov.in/eprocure/app>. latest by **30.10.2019 upto 13:00 Hours**. All bidders must to submit Earnest Money Deposit (EMD) @ 2% of the Estimated value in the form of Demand Draft drawn in favour of "ESIC FUND A/c No. 1", payable at Kolkata by hand or by post so as at reach Regional Office, Salt Lake, Kolkata before the last date & time of submission of E-Tender.

5. Eligibility :

a) All bidders are requested to follow the checklist at the time of submission of tender documents and must be enclosed self attested photocopy of under mentioned serial no. (i) to (xi).

(i)Tender documents must be signed all pages and total no of pages in tender documents should be numbered serially.

(ii)Work completion certificate along with credential.

(iii)Valid trade license.

(iv) Valid Electrical/Fire license.

(v) ESIC & PF Registration Certificate.

(vi)ESIC & PF current challan copy.

(vii)Audited Balance Sheet of Last 3 Years.

(viii) Audited Income and Expenditure Statement of the bidder.

(ix) Audited Profit and Expenditure Statement of the bidder.

(x) Annual Turnover last years.

(xi) Bankers Solvency Certificate.

b) Agencies having sufficient credential in any Govt. / PSU Sector / Semi Govt. / Autonomous body / Statutory body of India for undertaking similar nature of electrical job within last 3 years are eligible to apply. Agencies are requested to attach their respective credential certificate also with the tender paper at the time of dropping the tender paper.

c) One similar work of value not less than 80% of the value of work to be executed or Two similar works of value not less than 50% of the value of work to be executed for each job within last three years.

6. Acceptance of Tender :

The Corporation reserves the right to change the scope of work and reject any or all tenders without assigning any reason thereof. The Corporation is also not bound to accept the lowest bidder. Successful bidder has to execute the work himself. He will not be allowed to sub-let the work to any other agency. No escalation charges will be paid to the Contractor.

Bidder are advised to follow other terms and conditions furnished in the enclosure carefully before making any entry or quoting rates. Any change/rectification of offered rates will not be considered afterwards. Agency should upload clear scan copies of relevant documents.

Addl. Director & Regional Director ESIC, Plot No.-6, Block-GB, Sector-III, Salt Lake, Kolkata -700097 does not pledge himself to accept the lowest or any tender and reserve to himself the right of accepting the whole or any part of the tender.

Acceptance by the purchaser shall be communicated in due course. You are requested that the instructions contained in the said communication should be acted upon immediately /as asked for.

Sl. No.	Particulars	Date & Time
1	Date of uploading of N.I.T. & other Documents (Publishing Date)	09.09.2019
2	Documents download/sell start date	09.09.2019 4:00 P.M.
3	Documents download/sell end date	30.09.2019 1:00 P.M.
4	Bid submission start date	09.09.2019 4:00 P.M.
5	Bid Submission closing	30.09.2019 1:00 P.M.
6	Technical Bid opening date	01.10.2019 3:00 P.M.
7	Financial Bid opening date	To be notified later
8	Bid Security/EMD(Demand Draft in favour of ESI Fund A/c No.1 payable at Kolkata)	Rs.1,27,428/-



**The Regional Director
West Bengal Region
Employees' State Insurance Corporation**

Instructions for Online Bid Submission

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

More information useful for submitting online bids on the CPP Portal may be obtained at: <https://eprocure.gov.in/eprocure/app>.

REGISTRATION

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

SEARCHING FOR TENDER DOCUMENTS

1. There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
2. Once the bidders have selected the tenders they are interested in, they may download the required documents/ tender schedules. These tenders can be moved to the respective ‘My Tenders’ folder. This would enable the CPP Portal to intimate the bidders through SMS / email in case there is any corrigendum issued to the tender document.
3. The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

PREPARATION OF BIDS

1. Bidder should take into account any corrigendum published on the tender document before submitting their bids.
2. Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents – including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
3. Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
4. To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use “My Space” or “Other Important Documents” area available to them to upload such documents. These documents may be directly submitted from the “My Space” area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

SUBMISSION OF BIDS

1. Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
2. The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
3. Bidder has to select the payment option as “offline” to pay the tender fee / EMD as applicable and enter details of the instrument / scan copy.
4. Bidder should prepare the EMD as per the instructions specified in the tender document. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
5. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BOQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white colored (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BOQ file is found to be modified by the bidder, the bid will be rejected.

6. The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
7. All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid opener's public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
8. The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
9. Upon the successful and timely submission of bids (i.e. after Clicking "Freeze Bid Submission" in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
10. The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

ASSISTANCE TO BIDDERS

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

Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk. The contact number for the helpdesk is 1800 233 7315. Foreign bidder can get help at +91-79-40007451 to 4

OPERATION, MAINTENANCE, SERVICING, MONITORING OF ENTIRE DOMESTIC WATER DISTRIBUTION (PHE), FIRE DETECTION, FIGHTING AND SAFETY EQUIPMENT FITTED IN THIS HOSPITAL PREMISES AT ESIC MEDICAL COLLEGE & HOSPITAL, JOKA, KOLKATA FOR A PERIOD OF ONE YEAR.

The tenders will be opened on 01.10.2019 at 03.00 pm in the presence of bidders or their authorized representatives who may wish to be present on that day. In case tender opening day is declared as holiday, tenders shall be received and opened on next working day as per the above mentioned schedule. The site where **OPERATION, MAINTENANCE, SERVICING, MONITORING OF ENTIRE DOMESTIC WATER DISTRIBUTION (PHE), FIRE DETECTION, FIGHTING AND SAFETY EQUIPMENT FITTED IN THIS HOSPITAL PREMISES AT ESIC MEDICAL COLLEGE & HOSPITAL, JOKA, KOLKATA FOR A PERIOD OF ONE YEAR** is to be done, must be inspected and work schedule is to be understood by the Agency prior to submit the bid. Agency may consult with our E.S.I.C authorities on any working day during office hours (09.45 am- 06.15 pm) if needed. Tenders received after the due date and time will not be accepted under any circumstances. The Regional Director reserves the right to accept or reject any or all the tenders without assigning any reason(s) thereof.

The tenders are requested to submit their bid online on <https://eprocure.gov.in/eprocure/app> within stipulated time.

Earnest Money in the form of Demand Draft drawn in favour of **“ESIC Fund A/c No. 1”** shall be scanned and uploaded to the e-tendering website within the period of bid submission.

The physical EMD shall be deposited at ESIC, R.O. Salt lake, Kolkata by all the bidders before the bid submission closing date & time failing which the bid shall be rejected and enlistment of the agency shall be withdrawn by the enlisting authority. The agency shall be debarred from tendering in ESIC.

Bidder must provide the valid Tel No. and e-Mail ID with the tender. The bidder is required to submit an undertaking as per the Performa enclosed on **Annexure III**. The tender must attach all the documents as mentioned in the checklist attached as **Annexure-V**.

The rates quoted in ambiguous terms such as “Freight on actual basis or “Taxes as applicable etc” or “packing forwarding etc”/ “Govt. taxes as applicable” etc will make their bid liable to rejection.

The rates/ amount should be quoted in I.N.R. The price should be all inclusive lump sum price offered for each item including cost of the equipment, freight, insurance packing forwarding and inclusive of all taxes etc. and including charges for installation and commission with all the men and material required for the same.

The Regional Director
West Bengal Region
Employees' State Insurance Corporation

Annexure-II

Terms and Conditions Governing Contract

The The Regional Director, ESIC, Kolkata does not pledge himself to accept the lowest or any tender and reserves to himself the right of accepting the whole or any part of the tender or portion of the quantity offered and accordingly supply / execution of work would be completed at the rate quoted.

Security deposit/Performance Guarantee: - Successful bidders shall have to deposit 10% Security Money of the total tendered value in the form of Demand Draft/Bankers Cheque / Pay Order or Bank Guarantee from any Nationalized/Commercial Bank to be pledged in favor of "ESIC FUND A/C NO. 1" payable at Kolkata within 07 days on receipt of work order.

Agreement: - The successful bidder has to sign an agreement with the E.S.I.C in stamp paper of appropriate value. Tender condition will be a part of agreement.

The contractor shall not sublet transfer or assign the contract to any part thereof without the written permission of the The Regional Director. In the event of the contractor contravening this condition, The AC & RD may be entitled to place the contract elsewhere on the contractors account at his risk and the contractor shall be liable for any loss or damage, which the The Regional Director, ESIC Kolkata may sustain in consequence or arising out of such replacing of the contract.

Assistance to contractor: The contractor shall not be entitled to assistance either in the procurement of raw materials required for the fulfillment of the contract or in the securing of transport facilities.

Payment:- Payment will be made for the work on satisfactory completion, inspection and measurement by E.S.I.C Engineer. Bills will be paid through ECS/NEFT on satisfactory performance of the contract (else the amount will be confiscated).

Penalty for delay in completion of work: - If there is delay in completing the work, contractor shall be liable to pay liquidated damages in the form of deduction of 1.25% of total cost of work/supply for every week of delay or part thereof subject to maximum of 5% of total cost of work. If the work is not completed within the approved/ extended time by competent authority, security deposit if liable to be forfeited and tender may be canceled. Part work done by the agency, if any, will not be measured and paid for. There will not be any leniency regarding timely completion of work. 'Agency is carry out the works as issued by this office.

Arbitration: - In case of any dispute, the difference arising out of the agreement, the same shall be referred to appointed arbitrator in Kolkata only and his decision shall be binding on both the parties.

The Regional Director
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Format of undertaking to be submitted along with Tender

Undertaking:

1. I the undersigned hereby declare and affirm that I have gone through the Scope of Work, Special Terms and condition, Technical Specification, Make List and General terms and conditions mentioned in the tender document and under take to comply with all the terms and conditions.
2. That the rates quoted by me are valid and binding upon me for the entire period of contract.
3. That the earnest money of Rs deposited by me vide Demand Draft No. Dt. drawn on (Name of the Bank) is attached herewith.
4. The physical EMD shall be deposited by me/us with the PMD Head Calling the bid before the prescribed time otherwise department may reject the bid and also take action to withdraw my/our enlistment/debar me/us from tendering in ESIC.
5. That I/ We authorize The Additional Commissioner & The Regional Director ESIC, Kolkata to forfeit the security deposit money submitted by me/us if any delay or failure to supply the article/completion of the work to the satisfaction of the hospital authority within the stipulated time of the items of desired quality.
6. That I will be in the position to provide contract as per the work explained to me to the satisfaction of the Hospital authority.
7. That there is no vigilance/CBI case or court case pending against me/ my firm debarring me/my firm to undertake contract work/ supply of items quoted.
8. That I hereby undertake to carry out the work as has been explained to me to the satisfaction of hospital authority with in stipulated period.
9. I have been informed that The Additional Commissioner & The Regional Director, ESIC, Kolkata has the right to accept or reject any or all the tenders without assigning any reason thereof.
10. I am ready to sign the agreement with the ESIC which was shown to me.

**Signature & Address of the Bidder
STAMP**

TENDER APPLICATION FORM

S.No.	Items	Details of Bidding Agency
1	Name and full postal address of the Contractor/Agency	
2	PAN No.	
3	GST No.	
4	ESIC and EPF Reg. No. (If applicable)	
5	Telephone/Mobile No (Mandatory)	
6	Fax No.	
7	E-Mail Address (mandatory)	
8	Bank Name and Branch	
9	Bank Account No.	
10	Bank IFSC No.	
11	Are you in the list of approved contractors of any other organization / institution, if any give details (Append extra page if necessary)	
12	Give details of any Government contracts executed during the last twelve months (Append extra page if necessary):-	
13	Any other information which you consider necessary to furnish	

Date:
Place:

Signature of the bidder:
Full Name:
Designation:

(Office seal of the bidder)

**COMPULSORY DOCUMENTS TO BE SUBMITTED ALONG WITH THE
TENDER (Checklist)**

The following documents must be submitted along with the tender, without which the tender is liable to be rejected. The bidder must make a tick against each of the following documents submitted.

Sl. No.	Check List	Please Tick the applicable boxes
1	EMD worth Rs..... dated.....drawn from.....	
2	Copy of documents showing credential(Work completion certificates)	
3	Copy of PAN Card.	
4	Copy of Registration of ESIC and EPF	
5	Copy of Latest Challan of ESIC and EPF	
6	Copy of Trade License with last year deposit receipt /Documents showing the validity of Trade -license	
7	Copy of electrical / Lift License / Document showing validity of Elec. License if applicable	
8	Undertaking as mentioned in Annexure-III (Page no.9).	<input type="checkbox"/>
9	All the tender documents from Page no.1 to 27 with signature & stamp of party. on each page	
10	Audited Balance Sheet of Last 3 years	
11	Audited Income and Expenditure Statement of the bidder.	
12	Audited Profit and Expenditure Statement of the bidder.	
13	Annual Turnover last years	
14	List of works completed by the agency in the last 3 years and ongoing works.	
15	GST Registration Certificate.	
16	Bankers Solvency Certificate.	<input type="checkbox"/>
17 (Any other Document/Information, if necessary).	

Name:

Signature:

Stam

ANNEXURE-VI

CONTRACT AGREEMENT

AGREEMENT FOR THE WORK OF.....

.....
This agreement made at Kolkata on thisday of(Month, Year) between(Name of Agency) having their registered office⁴ at
.....(hereinafter called the FIRST PARTY) of the one part and

The EMPLOYEES STATE INSURANCE CORPORATION represented by **The Regional Director** having their office at New RO Building, Plot No.06, GB Block Salt Lake Sec III Kolkata-700097 (W.B.) (hereinafter called **the SECOND PARTY**) of the other part for the execution of the work of
..... (Hereinafter called the WORKS).

Specific Terms and Conditions of the Contract

1. After completion of the work, the Contractor will submit the Final Bill at the earliest from the date of completion. On receipt of running/final bills, JE will check the measurement along with rates and after checking the same will submit the bill to the AC & RD for their perusal and approval.
2. If there is delay in completing the work as per time schedule given in the Agreement, then the Contractor shall be liable to pay an amount of 1.25% of the total cost of the work of delay or part thereof as liquidated damages to ESIC subject to a maximum of 5% of sanctioned cost of the work. For working out the 1.25% allowance, the odd number of days would be rounded to nearest week.
3. Performance Guarantee/Security Deposit: - As soon as LOI is issued to the successful contractor, the Contractor will submit a Performance Guarantee/Security Deposit @5% of the contract amount within 10 days which will be valid for one year from the date of completion of the work. Before signing the Agreement with the Contractor, the AC & RD or his authorized representative will verify the authenticity / correctness of the Bank Guarantee from the concerned Bank.
4. The funds released shall be utilized only for the sanctioned work and no appropriation of funds will be permitted until and unless approved by competent authority.
5. After completion of work, JE/AE will verify the facts and satisfy themselves that the work has been completed in accordance with the contract. JE will record the completion certificate and Medical Superintendent/Incharge of concerned Hospital will also countersign the same.
6. First Party to whom the work is awarded will execute the work himself. He will not be allowed to sub-let the work to any other agency.
7. JE In-charge will record the measurement of the work and will be 100% responsible for the correctness of the same. The AE will also be overall responsible for the correctness of the bill in general. He will exercise his last check of measurement at least to the extent of 50% by money value. Wherever EE is posted he will exercise the test check to the extent of 10%.
8. No escalation charges will be paid to the Contractor.
9. The contractor shall be responsible for ensuring compliance with the Labour Laws and all other applicable laws that may be in force from time to time. All liabilities on account of non-observance of the same shall be met by the contractor.
10. Similarly the Contractor shall be liable to ensure compliance with the provision of Minimum Wage Act that may be in force from time to time. All liability whatsoever on account of non-observance of the same shall also be met by the Contractor at their risk and cost.

11. No skilled/semi-skilled/un-skilled workers will be employed directly by the RD/SSMC/MS for this works.
12. Arbitration: - In case of any dispute or difference arising out of the Agreement, the same shall be referred to the sole arbitration of the Chief Engineer, ESIC and his decision shall be binding on both the parties.

The witnesses whereof Shri, for and on behalf of First Party and Shri on behalf of Second Party have herein set their hands and seals and signed on the date and year first above written.

For and on behalf of First Party,

For and on behalf of Second Party,

()

()

Witnesses:

Witnesses:

1.....

1.....

2.....

2.....

SCOPE OF WORK

Job: - Operation, maintenance, servicing, monitoring of entire Domestic water distribution, Fire detection, fighting and safety equipment fitted in this Hospital premises at ESIC Medical College & Hospital, Joka, Kolkata for a period of One year.

1. The bidder/agency which is selected after tender process will be responsible for operation and maintenance of Domestic water distribution (PHE) system, storm water drainage (Pond) pumps and fire safety of the hospital by implementing preventative measure, building safety stranded and to undertake the operation and Repair/Maintenance (Planned Preventive Maintenance, Testing/cleaning/Oiling/greasing) of the entire Domestic water distribution (PHE) , fighting and safety equipment fitted in this Hospital premises, which include fire Hydrant, Riser, Sprinkler system, Hose Reel, Butterfly valve, Fire pumps, operation of Fire DG sets, Portable Fire Extinguisher etc. on regularly basis. The agency have to make sure that all the system related to fire fighting arrangement fitted in this hospital are fully operational all the time.
2. Deployment of Manpower: The appointed Contractor will have to deploy minimum manpower as under:

Ser No.	Deployment Type	No. of Persons to be Deployed
(i)	Fire Officer	One (01)
(ii)	Fire Supervisor	One (03)
(iii)	Maintenance Technician- Electrical/Mechanical	One (01)
(iv)	Trained Fire Fighter	Seven(07)
(v)	Pump Operator/maintainer	Three(03)
	Total	Fifteen (15)

3. Working hours for Operation & Maintenance of Domestic water distribution (PHE) system and Fire Fighting System/equipment will be round the clock, seven days a week, 365 days an year including Sundays, Festivals, National Holidays/ Holidays. Adequate number of personnel as per tender document shall be deployed by the Contractor in suitable shift duties. The personnel deployed by the Contractor should be duly qualified and trained having requisite experience of Fire Safety Systems/ Equipment and the safety standards of high-rise buildings. The following minimum criteria are to be adhered to for deployment of Fire Staff for carrying out the duties/works as per requirement:
 - a. **Fire Officer:** He must be at-least Intermediate pass and should have qualified for Sub-Fire/Asst. Fire Officer and should have undergone training at an institution recognized by the government. The Candidate should have served for two (02) years as Fire/Sub-Fire/Asst. Fire Officer or for Three (03) years as Fire Supervisor in high-rise buildings or industry of repute. Fire Safety Officer must be abreast of latest fire fighting developments and technology. The Candidate should be willing to work in any shift as and when directed by ESIC and should have his availability round the clock. The age should not be more than 60 years.
 - b. **Fire Supervisor:** He should at-least 10th standard pass and should have gone firefighting training for at-least two (02) months at a recognized institute. He should have a minimum of 1 year experience as Fire Supervisor or 3 years" experiences as Fire Tender in high-rise buildings or in an industry equipped with latest intelligent firefighting system/equipment. Fire Supervisor (s) must be willing to work in any shift and should have clear understanding of firefighting systems, equipment and evacuation procedure etc. The age should be between 18 to 60 years.
 - c. **Maintenance Technician (Mechanical/Electrical):** The Candidate (s) should be 10th class passed with certificate course in respective trade or must have minimum 03 year practical experience as Mechanical/Electrical technician or fitter. Electrician must be fully trained in rectifying the defects, installing and maintaining in electrical equipment such as Fire Alarm Panel, Smoke Detector, and Manual Call Point, fire pumps, jockey pumps, Motor and sprinkler systems etc. The age should be between 18 to 60 years.

- d. **Fire Fighter/Firemen:** Firemen should be 10th class passed and should have qualified certificate course in fire-fighting from a recognized institute. They should have minimum 1 years" of experience in a high-rise building equipped with latest intelligent fire fighting system/equipment. They should assist pump operator. The age should be between 18 to 45 years.
 - e. **Pump Operator:** They should have minimum 3 years of experience in high-rise building pump equipment and they must be capable and be trained to do fire fighting. The age should be between 18 to 60 years.
4. The appointed Officer and Supervisor should have working and practical knowledge of various fire safety norms of hospital as per West Bengal Fire and Emergency Service (WBF & Es) codes, NBC codes etc. and to make sure the norms and jobs mentioned in the scope of work are implemented religiously. The Officer/supervisor should be able to plan and implement the schedule of jobs, organize and impart fire fighting training to the staffs, make constructive program to fight actual fire, upkeep of maintenance records and log books properly. At the time of real fire they must supervise the fire fighting activity. Minimum one supervisor or Fire officer should be available in each shift in the hospital. Entire communication about all works/ breakdowns / emergency actions required etc. regarding the AMC will be made to the supervisor. The supervisor will be responsible for taking urgent actions in case of breakdown/emergency issues. Role of supervisor may be required at any time during the 24 hours daily slot depending upon emergency requirement at site. The agency has to clearly mention the name of his supervisor along with contact number. The supervisor/ Fire officer to meet Medical Superintendent/Deputy Medical Superintendent/ Deputy director/Assistant Director/OS/ESIC Engineer– in charge/Care Taker for any official purpose.
 5. The bidder/agency which is selected after tender process will have to deploy at list three operators/ Firemen (one pump operator and two fire-fighter) at a time (in one shift) round the clock for Fire fighting, Water supply (PHE), Fire Pump and Fire DG operation. The deployed operator and fire-fighter should have full knowledge of the enter water distribution and fire fighting system in this hospital and can operate necessary Pumps for water distribution and fire fighting system fitted in this hospital efficiently. On duty Firemen and operator should be trained to fight the actual fire. They must carry out the fire fighting/ rescue operation in case of fire or accident inside the Hospital complex. The deployed Firemen and Pump operator should report to Main Gate security Room at the time of joining duty. Duty attendance log book to be maintained and signed for office records.
 6. The agency shall always keep the Fire fighting System/Pump Room always operational, neat and clean condition.
 7. The operating the storm water Pond drainage pumps are also the responsibility of the successful bidder.
 8. The agency shall do the Mock Fire Drill at least once in a week with prior permission from competent authority of this hospital and report along with attendance log book to be submitted for the same.
 9. The agency to organize and impart training to Security, housekeeping, maintenance staff and also to the Staffs & Officers of this hospital regarding various aspects of fire safety and fire fighting procedures, First Aid, using of Fire Extinguisher and building evacuation during emergency situation. The training program for the same is made by the agency such a way that each and every person could be cover in each quarter. A log book to be maintained for the same.
 10. Emergency material, for Example bore well pump set etc. repairing withdrawing and lifting work to be done by the concerned agency without fail whether it in odd or even hour. No excuse will be considered about the manpower arrangement. It will be mandatory and strictly agreed by the agency before starting the work. In case of a fault in any of the submersible / Booster /Emergency Fire Equipment etc, it is mandatory for the agency to arrange for to lift the faulty unit & install a working reserve unit. The withdrawal & installing is to be completed positively within 24 hours from the intimation of occurrence of fault.
 11. The agency to do internal periodic Inspection/Fire Audit as per West Bengal Fire and Emergency Service (WBF & Es) and NBC norm in each quarter and submit reports.

12. Renewal of Fire NOC/ gating the Yearly Fire NOC from WBF & ES, when it is due for renewal is the responsibility of the agency.
13. Monthly inspection of the entire extinguisher including checking its tubes, discharge, hose pipes, nozzle, clamp etc. checking of weight for loss of mass in gas type extinguisher, refilling the same and to keep a record of the same.
14. To perform any additional special tests/ repair as required as per the local fire codes and directed by the ESIC authority. All materials or any part(s) of Fire system which are required to remove any deficiency, defect and additional special tests/ repair in the Functioning of Fire system shall be provided by the agency, for which payment will be made by the ESIC against valid bills along with proof of supply of such material. The requirement of material if any should be approved by Authority of ESIC.
15. All materials provided by the agency should be either BIS certified or should be certified by the agency Designated for the purpose by appropriate Government.
16. All materials or any part(s) of Fire system which is required to be replaced shall be from the same Manufacturer/ supplier who have provided the original equipments/parts.
17. Uniform, Identity Cards, Name Plates and identity cards have to be provided to each and every Staff by the contractor. The fire fighting cloth to the Firemen/fire-fighter to be provided by the contractor.
18. To ensure proper operation & maintenance of safety and fire fighting equipment installed and carry out the fire fighting/ rescue operation in case of fire or accident inside the complex area.
19. In case of fire break out, the agency is responsible to Call and liaise with local fire brigade. To make and provide related reports and documents sought by local fire brigade/insurance company in case of actual fire. Report any incidence of breakout of fire in the form of fire record to PCRA (Petroleum Conservation Research Association).
20. All Tools, Plants, and equipments to carry out the Fire work at site are to be provided by the Contractor free of cost.
21. Shut Downs: No routine shut down shall be permitted during office hours. The Contractor shall be at liberty to carry out maintenance on holidays and after office hours but with prior permission of ESIC.
22. Any type of electrical job/supply item which is not included within the scope of work as mentioned in this schedule is to be done as per the rates of CPWD electrical schedule of 2016, if the job is not basis of rate analysis strictly as per the current market, rate/original bill. The contractor has to submit relevant challan, bill & market price in this context.
23. The vender has to submit valid mobile no of the all the manpower performing duty.
24. Rate should be inclusive of all taxes.
25. The contractors are required to practically verify the areas of responsibilities on sight and to keep in consideration all of the above conditions before quoting.

Plan Preventive Maintenances

Routine Preventive Maintenance Schedule: The Contractor shall also prepare a Preventive Maintenance Schedule of all the systems in compliance with the manufacturers' recommendations and consultation with officer-in-charge of ESIC. Brief schedule may be modified to improve further. The Contractor shall also maintain Fire Fighting system history card giving full details of equipment and frequency of check and overhaul. The Contractor should follow and carry out maintenance schedule briefed below in order to keep the system healthy for operation along with their connected equipment and accessories round the clock.

Regular Maintenance: The Contractor shall ensure Fire-Main System works within the specified limits (as per industry standard) at all the times. The Contractor shall carry out regular maintenance of Pumps, Motors, Sprinklers and other equipment and connected accessories. Monitoring of Fire Pumps and electrical parameters. All the valves & fittings to be checked at regular intervals. Attending to general complaints related to firefighting system and replacement of unserviceable items.

Monthly Maintenance: The Contractor shall carry out thorough internal checking/ cleaning of Panels, Pumps, Alarms, Valves & NRV's etc. and confirming the proper functioning of the system. To check motors mounting bolts for proper tightness. To check motor & pumps for alignment and to rectify them in case of misalignment. To repair pump gaskets and valve gland packing, gaskets, etc., as required. To lubricate and grease motors/ pumps bearings as and when required. To replace tyre-coupling of pump sets in case of its break down or as and when required.

Quarterly Maintenance: The Contractor should carry out servicing of Pumps, Panels, Fire Alarm Panels, Valves, NRVs etc. Merger testing and other parameter checks as required for the electrical installations like electrical Panel & Motors and other electrical installations. The Contractor should maintain proper records of tests. Oiling/ greasing of motors, etc. Testing and draining out of the system.

- While conducting daily/monthly/quarterly maintenance of pumps, valves, pressure gauges and fire equipment, the Fire Officer shall endorse the maintenance report that the maintenance work has been concluded satisfactorily in his presence.
- The Contractor shall maintain adequate stock of frequently required spares/ consumables for rectification works so as to ensure that the faults are rectified immediately without any down-time. It shall be the responsibility of the Contractor to provide special tools, always in readiness, so that break downs are attended immediately on their occurrence. All routine, preventive maintenance, overhauling, breakdown maintenance etc. are included in the „Scope of Work“. The Contractor shall also supply and maintain Electric Arc Welding Machine, sufficient stock of electrodes and safety equipment for the Welder at all the times during the tenure of the Contract.
- Monitoring of Fire Alarm Panel and related accessories such as Smoke/heat detectors, MCPs, Hooters etc. shall be the responsibility of the Fire staff, however maintenance of this system including system software and programming shall be the responsibility of the other Maintenance Contractor. Fire Staff will check Smoke/heat detectors on weekly basis in such a manner so that each detector is checked at-least once in quarter. The fire detectors shall be checked by joint team of firemen and maintenance staff
- Regular servicing/maintenance and replacement of accessories such as hoses, nozzles, valves and hydrants of all the hose boxes. Any water leakage in any pipe lines etc. is to be plugged immediately by welding or any other means.
- The Contractor shall refill all types of fire extinguishers and carry out hydraulic test as and when fall due as per BIS standards. The Contractor shall ensure replacement of fire extinguishers failing hydraulic test or reaching end of life as per standards.

Fire Extinguisher (Co2 Type, ABC Type, and Foam Type):-

Refilling of Extinguishers (annually or if used before of expiring/empty) at schedule rate.

Pressure is at recommended level or not.

Nozzle, Pipe or other discharging paths are not hindered in any way.

The pin & tamper seal are intact.

Check full weight (Quarterly basis).

Shaking of dry powder type to prevent powder from setting /packing.

Certification of all types of fire extinguisher following its inspection, maintenance/refilling etc.

To arrange for proper placement of extinguisher after inspection/ maintenance/ refilling and/ or subsequent to its use during fire drills/demonstration etc.

To maintain record/history card of inspection and maintenance done on each extinguisher.

Fire Hydrant:

Fire water network including hydrants and water monitors.

Monthly discharges test from at least one external hydrant and one internal hydrant (Preferably from top floor or terrace) by attaching single length of fire hose, with nozzle to check automatic starting of pump with hydrant operation.

Hydrant Wet Riser System:

Visual /Physical Check:- weekly to check washers, couplings, valve logo wheel check nuts etc. monthly visual check of Hose/Hose Box for any damage rot/rust etc. Monthly hose reel by actual actuation.

Pump / Jockey Pump:- Weekly physical check/ greasing of nipples.

Automatic start: - Monthly check to test automatic start of Jockey Pump at present pressure and auto stop of Jockey Pump at present pressure.

Pumps and Control:

Starter contacts cleaning twice a month.

Insulation resistance test of pump, motor circuit etc.

The maintenance and repair of Pumps/Motors fitted in STP/ETP plant is also responsibility of the agency.

Any other inspection as contained in manufacturers' literature for pumps & controls.

Fire detector and alarm:

Monthly visual check of each detector.

Quarterly actuation of smoke detector by turn – at least one detector in each floor to be subjected to test.

Circuit test/panel test for fault and fire condition every month, for fault test and every quarter for fire condition.

Manual test of public address system.

Daily routine checks

1. Keep the pump room dry as wet flooring may turn slippery, invite growth of mosquitoes and cause an unhealthy environment.
2. Clean the pump room. Wipe out dirt from external surface of equipment & ensure that the approach to pump room and ventilation openings in pump room are free.
3. Where a priming tank is provided, it should be ensured that it is full.

4. Check to ensure that the selector in control panel is in AUTO mode.
5. Record the readings of voltage of supply, battery voltage at engine and at control panel and pressure of water in the system at pump room and at the top most floors. Record also the current if any electric motor is run.
6. Observe whether there is any external sign of leakage in internal piping network and damage to yard hydrants and attend to the same immediately so as to pressure drop in the system.

Weekly checks of fire pump room

- The starting and stopping of pressurization pump should be checked through operation of the test valve (so that water flows back to the pump). Record the pressure reading of both the operations to ensure that generated pressure in the system is in order.
- While conducting the above said test check, the pumps should be run one by one for 5 minutes each and any abnormality such as excessive noise & vibration, burning smell from cable end, warming of bearing surface etc. should be observed for taking remedial actions .
- Check the alarm systems in the pump room.
- Check the level of electrolyte in the battery of the engine and top up with distilled water as necessary. Check also its specific gravity. If the battery needs charging (as can be judged by the cell voltage) arrange for its charging early and also examine whether trickle charger is defective.

Weekly checks of Wet Riser components:

- Clean the Internal hydrant points at all floors. See that these spaces are not misused for dumping rubbish or for storage.
- Look for damages to or pilferages of components including the front glass cover of door and attend as required.
- Look for leakages in the piping system within the building. Attend as required for example bolts at joints may need tightening, gasket at joints may need replacement etc.
- Visually inspect the roof tank and pump for down comer (if provided) for any defects to take timely actions.

Auto operation of wet riser

- α) All hydrants, internal and external, should be operated to check the operational readiness of the system. For this purpose, open the hydrant valve of one hydrant at a time and stop the pump after 1 or 2 minutes of operation. Take due precaution to see that there is no flooding of areas within the building during testing. Water should be directed towards drains.
- β) While checking the internal hydrants, verify the free turning of fire hose reel. Lubricate if necessary.

Six monthly checks on system components

- a. Roll out the hose pipes in an open space and test for leakage by filling with water. After the test, wash the hose and suspend free from an upper floor vertically in shade (not sunshine) so as to drain and dry evenly. When fully

dry inside and outside, brush the external surface and roll up evenly with the female coupling end at the centre so that roll out for firefighting operation is quick without twisting. Alternatively the hose may be folded at mid length and rolled up evenly from the fold so that both the male and female couplings will be on the periphery.

- b. Check the integrity of all gate valves, in the pump room, internal and external hydrants and elsewhere in the wet riser/ sprinkler system. Lubricate if required.
- c. Clean the sprinkler heads externally and also the sprinkler bulbs carefully to make them free from dirt. See that the sprinkler heads are correctly repositioned after cleaning.
- d. Look for corrosion of metallic surfaces including GI components used for earthing system. Clean up and treat the corroded surfaces with appropriate anti-corrosive paint.
- e. Inspect the electrical control panel and starters to see that all power/control contacts are clean, all terminations are sound and all fuses are intact.
- f. Inspect all cable end terminations in the fire protection system, including control cables and tighten as required.

Annual checks

Drain out static tank, clean and fill up with fresh water. If there is no sedimentation, algae etc. found, this can be done once in a year also.

- a) Flush out the entire piping network in sprinkler system and check that the pipes are clear. Charge the system again.
Check condition of strainer, foot valve (where provided), suction line hardware etc.
- b) Check pump shaft alignment, and condition of anti-vibration mountings for all the pump sets (i.e. with their drives).
- c) Paint all external MS surfaces, machine base plates, hydrants (not the couplers), pipes, supports etc. Take care to see that the sprinkler bulbs and spray outlets are not painted up, check also display boards installed for fire safety at strategic locations.
- d) Inspect the fuel tank for any sedimentation. Clean up if required.
- e) Conduct Megger test on all cabling, mains and control wiring motors and earth test. (Earth test is to be done in summer and Megger test during monsoon).
- f) Replace the engine oil as per hours of operation and recommendation of the manufacturer.

Weekly inspection of Fire Alarm System (FAS) (not maintenance)

- Verify whether any fault indication lamp is on. If it is on with or without an alarm, investigate and rectify the fault.
- Check whether all panel lamps are regulated by the “panel lamp test button” in each panel.
- Check that the system operates under mains failure condition by switching of the mains supply to the C & I panel and testing any zone for fault / fire condition from the zonal panel. Confirm also that the audio visual alarm comes up in the C & I panel. Restore mains supply after the test.

- To check to confirm and ensure that the operation of the system in each zone through the test button in zonal (sector) panel is happening. The check should confirm initiation of audio visual indication in the zonal (sector) panel concerned and in the C & I panel and also in relevant sounders.
- Check the talk back system from both ends and also PA system of C & I panel.
- Check that the Air-conditioning / ventilation blowers are automatically switched off when fire condition is simulated by the Test button in the zonal (sector) panel. It is likely the A/C system is not interconnected with the fire alarm system in many installations. Get the interconnection done for all such (sector) panel at the earliest to avoid hazard. *Page*

Check on associated items

- Check all fire exit lights for satisfactory operation. Clean / replace lamps as may be necessary.
- Check whether the fire lift is operational and the Fireman's switch is intact.
- Inspect the building to ensure that the following are complied with :
 - There is no temporary wiring in the building.
 - There are no joints in the supply cord for window type AC units or office equipment.
 - There is no bare wiring (without metallic conduit or channel cover) over the flooring.
 - Heaters are not used in record rooms.
 - The space in front of SDBs and other distribution switch boards is kept free.
- In single occupancy buildings, have a joint inspection of the installation with the authorized officer of the client department.

Note:-Proper upkeep of maintenance records books is very important. Log books are to be maintained to record the log readings such as System Healthiness/plan preventive maintenance, Fire Training and Fire mock drill, Portable Extinguisher Maintenance, Fire pumps and Fire DG Maintenance etc. The register should indicate actual compliance to the maintenance schedule item wise. Major repairs or replacements should be recorded in the history book for future referencing.

**The Regional Director
West Bengal Region
Employees' State Insurance Corporation**

Annexure-III

Schedule of Contract / Specifications of Items/ BOQ of Contract for quoting rates

Total Estimated Cost: A. Operation and Preventive Maintenance Work- **4705854.00** (Rupees Forty seven Lakh Five Thousand Eight Hundred fifty four only)

B. Maintenance Work (on required basis) - **1665558.00** (Rupees Sixteen lakh Sixty five thousand and five Hundred fifty eight only)

(Rate should be quoted inclusive of GST and all other charges if applicable)

SI No	Job Details	Qty	Unit	Rate	Annual Estimated Value
A.	24X7 round the clock Operation, maintenance, servicing, monitoring of entire Domestic water distribution (PHE) system, Fire Fighting, Fire detection(monitored only), fighting and Fire safety equipment fitted in Hospital premises at ESIC Medical College & Hospital, Joka, Kolkata for a period of Two year by engaging sufficient nos. of manpower. Refer "Scope of work "at Annexure-VII for details. The estimated costs are inclusive of PF, ESI, Bonous and GST provisionally however, PF, ESI and GST shall be paid on actual basis.	(12) Job contact	Per Month	392154.56	4705854.00
Total (A)					4705854.00

(N.B – The estimate cost of manpower are tentative and shall be paid on minimum wages with quoted agency chares as applicable)

B.	Supply, fitting and fixing of various materials/job	Approx Qty	Unit	Rate	Estimated Value
1	Refilling of CO2 -2 Kg Fire Extinguisher				
a	Refilling of CO2 -2 Kg Fire Extinguisher	200	No.	190.00	38000.00
b	Refilling of CO2 -4.5 Kg Fire Extinguisher	200	No.	310.00	62000.00
c	Refilling of Water CO2- 9 Ltr Fire Extinguisher	200	No.	130.00	26000.00
d	Refilling of AFFF- 9 Ltr Fire Extinguisher	400	No.	140.00	56000.00
e	Refilling of DCP-5 Kg Fire Extinguisher	200	No.	210.00	42000.00
f	Refilling of ABC-5 Kg Fire Extinguisher	200	No.	410.00	82000.00
2	Supply of new Fire Extinguisher				
a	CO2 -4.5 Kg Fire Extinguisher.(ISI)(IS:15683)	15	No.	4900.00	73500.00
b	AFFF, Stored pressure type- 9 Ltr Fire Extinguisher.(ISI)(IS:15683)	15	No.	2150.00	32250.00
d	ABC Powder, Stored pressure type-6 Kg Fire Extinguisher(ISI)(IS:15683)	15	No.	1750.00	26250.00
	Wet Riser System				

3	Chipping/Scrapping of corroded portion of MS pipe with sand paper and painting with Red colour Synthetic enamel paint of two coats over one coat of Primer in MS Pipe			
	a25 to 40 mm Nb dia	10mtr.	70	700
	b50 to 80mm Nb dia	10mtr.	120	1200
	c100mm Nb dia	10mtr.	165	1650
	d150mm Nb dia	10mtr.	195	1950
4	SS 63mm dia Fire hydrant valve with femail Adopter Cap and lock pin, for Firt Hydrant Valve system as per IS:5290/93, Type-A	5No.	4800	24000
5	SS short Branch Pipe (for Hydrant system)(ISI marked)	10No.	1750	17500
6	ISI marked SS Female Adopter for Fire Hydrant Valve system as per IS:5290/93, Type – A .	10No.	1650	16500
7	Fire fighting (RRL) Hose Reels of 1x15 mtrs Hose each with SS male & female 63 mm dia coupling binding (ISI marked). (For Hydrant system)	10No.	2630	26300
8	SS male 63 mm dia coupling for fire fighting (RRL) Hose Reels.	10No.	1650	16500
9	SS Female 63 mm dia coupling for fire fighting (RRL) Hose Reels.	10No.	1650	16500
10	SS/Copper Binding for RRL Hose pipe one side	30No.	430	12900
11	Drum for holding "Swing" type Hose Reel 20mm dia, 30 mtrs. long Rubber Hose pipe of 30 mt.(ISI marked)	5No.	3050	15250
12	"Swing" type 30 mtrs. long Rubber Hose pipe of 20mm dia, Type II W.P 10.2 KGt/Cm2 (ISI marked)	5No.	3240	16200
13	PVC Self-closing "Shut-off Valve' Nozzle of 5 to 6 mm outle for Swing" type 30 mtrs. long Rubber Hose pipe of 20mm dia.	20No.	200	4000
14	25 NB Ball Valve and Accessories	30No.	950	28500
15	MS Single Hose Box with glass accessories	5No.	2150	10750
16	MS Double Hose Box with glass accessories	5No.	3250	16250
17	Glass and accessories of fire sigle Hose Box	5No.	180	900
18	Glass and accessories of fire Double Hose Box	10No.	340	3400
19	Fire Sprinkler			
	aPendent Type Sprinkler	5No.	430	2150
	bUpride Type Sprinkler	5No.	450	2250
	cSide wall type Sprinkler	5No.	650	3250
	dRose Plate	5No.	80	400

	e 1.5 mtr flexible Hose for Sprinkler Dropping	5	No.	1850	9250
20	Repairing and servicing of Gate/NRV/ Y-Staner/ Foot valve including necessary replacement of spare parts, packing, washer, nut-bolt etc including fitting and fixing				
	a 250 NB	2	No.	5800	11600
	b 200 NB	2	No.	5100	10200
	c 150 NB	2	No.	4700	9400
	d 100 NB	2	No.	4000	8000
	e 80 NB	2	No.	2300	4600
	f 65 NB	2	No.	1500	3000
	g 50 NB	2	No.	1000	2000
21	Imparting Fire Safety Training (Total Twelve in nos. in a year) with necessary accessories, Mock Drill (Total Fifty two in nos. in a year), Half yearly Fire Safety Audit as per West Bengal Fire and Emergency Service and Obtaining/Renewal of Fire NOC including all charges from West Bengal Fire and Emergency Service.	1	No.	200000	200000
Motor-Pump					
22	Motor over hauling, replacement of both side bearing (SKF) and minor repairing including nuts, bolts and washer of following:-				
	a) upto 5 HP open well submersible pump with motor.	2	Set	1000.00	2000
	b) 5.5/7.5/10 HP open well submersible pump with motor.	4	Set	4,500.00	18000
	c) 10.5 HP to 20 HP boosting pump with motor.	4	Set	4,500.00	18000
23	Motor rewinding with servicing of Pump side complete with painting and minor repairing including nuts, bolts, washer etc. of the following:-				
	a) upto 5 HP open well submersible pump with motor.	1	Set	3,000.00	3000
	b) 5.5 to 10 HP open well submersible pump with motor	4	Set	22,000.00	88000
	c) 3.5 to 7.5 HP boosting pump with motor.	3	Set	14,000.00	42000
	d) 10 to 20 HP boosting pump with motor.	3	Set	22,000.00	66000
23	Replacement and Alignment of pump – motor coupling (rubber, coupling bolt)	5	No.	1,000.00	5000
24	Replacement of gland packing /water seal	20	No.	700.00	14000
25	Repairing & servicing of valve including necessary replacement of spare parts, packing, nut-bolt etc with including fitting & fixing	20	No.	500.00	10000
26	Replacement of gland Nut (Brass)	6	No.	50.00	300
27	Replacement of tie rod of 7.5 HP to 15 HP Pump	10	No.	2,000.00	20000
28	3 pole Contactor-MNX 18, make: L & T	2	No.	840.00	1680
29	ADD on Block - MNX- A1, make: L& T	2	No.	380.00	760
30	Thermal Timer GT 200. Make: L & T	2	No.	2,500.00	5000
31	Replacement of Indicator lamp	10	No.	50.00	500

32	H-Guru 1PSSW2 Stainless Steel Pressure Gauge, 16 Kg/cm2, Dial Size 10 Inch	5	No.	800.00	4000
33	3 c x 2.5 sq mm multi core copper wire (good quality)	100	Mtr	82.00	8200
34	Lifting , lowering and preventive maintenance of Pond submersible pump motor set.	10	Nos.	1,000.00	10000
35	Lifting , lowering and installing of bore well pump motor set.	4	Set	15,000.00	60000
36	Miscellaneous non schedule electrical repairing work and procurement of allied materials to be executed as per necessity on emergency basis in connection with panel, starter, relay, contractor, Timer, single phasing preventer, electrode, water level controller, volt meter, ampere meter, single pump, 1.0 sq mm single core flexible wire, HRC fuse & line, motor, pump parts etc. as & when required. (Agency has to submit Valid Tax invoice for material and 10% profit will be paid to the agency on it.) NB: Material should be checked & verified by electrical department before fixing.	LS, As and when required	1 job	L S	50,000.00
37	Procurement of Emergency Material related to Pipe line i.e. GI Pipe, elbow, socket, Gasket, Valve and any work which is not mentioned in schedule but are required to be done by the agency. (Agency has to submit Valid Tax Invoice for materials and 10% profit will be paid to the agency on it). NB: Material should be checked & verified by electrical department before fixing.	LS, As and when required	1 job	L S	50,000.00
Total					1411490.00
Add GST @ 18%					254068.20
TOTAL AMOUNT (B)					1665558.20

Total Estimated Amount (A+B)		6371412.20
Round up the total estimated value		6371412.00

(N.B: All the above mentioned quantities are approximate/ tentative which may increase/ decrease)

Signature of Tenderer

Full Name of the Tenderer

List of Documents attached:-

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.