TENDER DOCUMENT

for

Operation of Water Treatment plant and RO plant with water supply to its respective area at Dr. S.P Mookherjee Institute of Medical Science & Research.

NIT No. IW/WW/NIT/22-23/021
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NOTICE INVITING TENDER

1.1. INTRODUCTION
Indian Institute of Technology (IIT) Kharagpur, hereinafter called IITKGP, invites online tenders from the eligible contractors for Operation of Water Treatment plant and RO plant with water supply to its respective area at Dr. S.P. Mookherjee Institute of Medical Science & Research. Particulars of the project are as following.

1.2. PARTICULARS

<table>
<thead>
<tr>
<th>1. NIT Number</th>
<th>IW/WW/NIT/2223/021</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Name of Work</td>
<td>Operation of Water Treatment plant and RO plant with water supply to its respective area at Dr. S.P. Mookherjee Institute of Medical Science &amp; Research.</td>
</tr>
<tr>
<td>3. Location of Work</td>
<td>Dr. S. P. Mookherjee Institute of Medical Science at IIT Kharagpur</td>
</tr>
<tr>
<td>4. Estimated Cost (including 18% GST)</td>
<td>₹ 20,22,448/- (Rupees Twenty Lakhs Twenty Two Thousand Four Hundred and Forty Eight Only).</td>
</tr>
<tr>
<td>5. Earnest Money Deposit</td>
<td>₹ 40,449/- (Rupees Forty Thousand Four Hundred and Forty Nine Only) [Not mandatory for bidders registered under MSE category]</td>
</tr>
<tr>
<td>6. Time Limit for Execution</td>
<td>365 days from Date of Start.</td>
</tr>
<tr>
<td>7. Tender Basis and Mode</td>
<td>Two stage (Technical Bid &amp; Financial Bid)</td>
</tr>
<tr>
<td>8. Mode of Payment to IITKGP (EMD)</td>
<td>i) Original Demand Draft/Pay Order or copy of valid registration certificate under MSE category has to be submitted physically at the office of CE on or before the due date/extended date of submission of bid. &amp; Scanned copy of Demand Draft/Pay Order/Registration under MSE category has to be uploaded on <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a> ii) Demand Draft/Pay order to be drawn in favour of IIT Kharagpur payable at Kharagpur.</td>
</tr>
<tr>
<td>9. Date, Time &amp; Venue of Pre-bid Meeting</td>
<td>7th Feb 2023 15.00hrs, CCM Meeting Room, 1st Fl., Old Bldg., IIT Kharagpur, Kharagpur-721302</td>
</tr>
<tr>
<td>10. Closing Date &amp; Time for Receipt of bids</td>
<td>15th Feb. 2023 upto 15:00hrs</td>
</tr>
<tr>
<td>11. Date &amp; Time for Opening of Technical Bid</td>
<td>16th Feb. 2023 at 15:30hrs</td>
</tr>
<tr>
<td>12. Date &amp; Time for Opening of Price Bid</td>
<td>To be intimated to the eligible bidders subsequently.</td>
</tr>
<tr>
<td>13. Engineer-in-charge and contact details.</td>
<td>Mr. S.K. Biswas, Senior Executive Engineer, Tel: 03222-82621, Email: <a href="mailto:skbiswas@adm.iitkgp.ac.in">skbiswas@adm.iitkgp.ac.in</a></td>
</tr>
<tr>
<td>14. Address for tender issue, submission and opening</td>
<td>Civil Construction &amp; Maintenance Section, 1st Floor, Old Building, IIT Kharagpur, Kharagpur WB 721302</td>
</tr>
<tr>
<td>15. Website for full and updated information</td>
<td><a href="http://www1.iitkgp.ac.in/topfiles/tenders.php">http://www1.iitkgp.ac.in/topfiles/tenders.php</a>; <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a></td>
</tr>
<tr>
<td>16. Website for tender submission &amp; processing</td>
<td><a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a></td>
</tr>
<tr>
<td>17. Hard copy submission of Technical Bid Document</td>
<td>Hard copy submission of Technical Bid documents to be submitted at &quot;Civil Construction &amp; Maintenance Section ,1st Floor ,Old Building ,IIT Kharagpur ,Kharagpur WB 721302&quot; on or before 23.02.2023</td>
</tr>
</tbody>
</table>
1.3. ELIGIBILITY CRITERIA

1.3.1. The bidder must be registered in appropriate class of works with Government organization like CPWD/ PWD/ MES or PSUs or those having experience in similar nature of works awarded by Government / Semi Government Organizations/ Government Funded Autonomous Organization.

1.3.2. The bidder must have done at least 1 (ONE) similar work of value of 80% of the estimated cost or 2 (TWO) similar works for projects each of value 60% of the estimated cost or 3(THREE) similar work for projects each of value 40% of the estimated cost with Government/ Semi-government/PSU/ Government Funded Autonomous Organization during last 7 (seven) years preceding last date of the month of tender submission.

Note:

(i) The estimated is ₹ 20,22,448/- (Rupees Twenty Lakhs Twenty Two Thousand Four Hundred and Forty Eight Only).

(ii) The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum; calculated from the date of completion to the last date of receipt of applications for tender.

(iii) Similar works shall mean: Routine repair/maintenance in plumbing & water supply / Operation of water Treatment Plant.

1.3.3. The bidder must be registered with appropriate government authority as a bonafide business entity and must have GST registration certificate and Permanent Account Number of income tax.

1.3.4. The registrations and licenses should be valid during the execution phase.

1.3.5. The Average annual turnover of the bidder as per ITCC or profit & loss statement shall not be less than 30% of the estimated cost of project, not having incurred loss in more than two years, during last 5 years ending 31 Mar 2022. The documents submitted should be duly certified and audited by Chartered Accountant

Chief Engineer
On behalf of the Director, Indian Institute of Technology Kharagpur

Copy to:

1) Registrar
2) SE(Civil/E&M)
3) Sr.EE(WW/SS/Civil)
4) Executive Engineer (Civil/E&M)
5) Engineer(Telephone)
6) Assistant / Junior Engineer (Civil/ E&M)
7) Notice Board
8) Office file
2. INFORMATION TO BIDDERS

2.1 SCOPE OF WORK

2.1.1 The IITKGP intends for “Operation of Water Treatment plant and RO plant with water supply to its respective area at Dr.S.P Mookherjee Institute of Medical Science & Research.”. The work consists of Operation of all kinds of Pumps and Water treatment plant for water supply at aforesaid area.

2.1.2 Constraint: The job needs to be executed in Campus Residential area without causing any disturbances to the normal functioning of routine activities/road networks.

2.1.3 The vendor shall work out execution sequence and methodology so as to complete the project within the envisaged time and the estimated cost, duly handling the constraint mentioned above.

2.2 GENERAL INSTRUCTIONS

2.2.1 Bidding documents are to be obtained electronically through websites: http://www1.iitkgp.ac.in/topfiles/tenders.php; ii)https://eprocure.gov.in/eprocure/app

2.2.2 This bid document shall be read in conjunction with GCC (General Conditions of Contract) available on http://www1.iitkgp.ac.in/topfiles/tenders.php.

2.2.3 The bidder shall visit and inspect the site and obtain all information on his own responsibility and at own cost, which may be necessary for the purpose of quoting and submitting the tender. No excuse or ignorance as to site conditions and local information shall be accepted after awarding of the contract. Access to the site will be granted by the Engineer-in-charge on all working days within working hours.

2.2.4 IITKGP shall not provide any space at site for labour hutments.

2.2.5 All clarifications about the tender shall be sought by bidder on or before pre-bid meeting. The bidders may make suggestions which shall be considered during the Pre Bid Meeting. Intending bidder(s) may also send their queries or suggestion, if any, through e-mail to the Engineer-in-charge on skbiswaadm.iitkgp.ac.in on or before “7th” Feb 2023, 14:30hrs. No queries shall be entertained after notification of replies to noteworthy queries received till the date of pre-bid meeting.

2.2.6 Completion certificate issued by Competent Authority will only be considered as credential. If the Completion certificate issued by Competent Authority does not reflect the type of work, then Final bill / Schedule of Quantity of the qualifying works also to be attached along with the Completion certificates. Certificate from private individuals / organizations for whom such works have been executed shall not be accepted.

2.2.7 The bidding document (consisting of specifications, the schedule of quantities of various types of items to be executed, the set of terms and conditions of the contract and other documents / drawings, if any), Addendum/Corrigenda, Clarifications to Pre-bid queries can be downloaded from the websites: i)http://www1.iitkgp.ac.in/topfiles/tenders.php; ii)https://eprocure.gov.in/eprocure/app. Corrigenda, if any shall be published only on these websites sat any time before the closing time of tender. The institute shall not be responsible for any delay / difficulties / inaccessibility of downloading facility for any reason whatsoever. The tenderers who have downloaded the tender documents from website must visit the website and ensure that such addendum(s)/corrigendum(s) (if any) is also downloaded by them. This shall be the responsibility of the prospective registered bidders to check the web site for any such corrigendum/addendum before closing time of tender and ensure that bid submitted by them are in accordance with all the corrigendum’s/addendums.

2.2.8 All costs, charges & expenses that may be incurred in connection with the preparation of his tender shall be borne by him and the Institute accepts no liability whatsoever therefor.

2.2.1 Rates quoted by the bidders (in the uploaded Excel Template having form of contract as “Percentage”) shall be inclusive of GST (Goods and Services Tax - Central, State and Interstate) and all applicable taxes. Income Tax and all other statutory deductions like labour cess etc. will be deducted from the bill as per prevailing rules.

2.2.2 Exemption to IITKGP against any tax/ duty/ fee/ surcharge/ charge/ cost, if any, found applicable or sought later from IITKGP after award shall be passed on to IITKGP by the contractor without dispute.

2.2.3 IITKGP reserves the right to reject any or all of the bids without assigning any reason.

2.2.4 Bid Validity: Bid shall remain valid for 120 days from the date of submission.

2.2.5 Firm Price: Bidder's quoted Rates/Prices for executing the activities under the Contract shall remain firm till completion of the entire work & shall not attract any escalation under any circumstances whatsoever.

2.2.6 If any information furnished by the bidder is found as false/ fabricated, then his bid will be rejected and treated as cancelled. Even if such manipulation is detected at any stage after signing of the contract, it would lead to termination of the contract besides forfeiture of Earnest Money Deposit and liabilities towards prosecution. In such cases the bidder will be debarred from participation in future tendering process in IITKGP for next 01 (One) year.

2.2.7 Earnest Money Deposit(EMD) of requisite amount and that in prescribed mode or proof of payment thereof shall be submitted with the Technical Bid explained in following section.
2.2.8 Exemption from EMD: MSEs registration with District Industries Centre, National Small Industries Corporate and specified by Ministry of MSME or Start-ups as recognized by Department of Industrial Policy and Promotion shall be exempted from payment of EMD in the bid. The self-attested photocopy of their evidence should be submitted by the bidder(s) along with the format requested letter for exemption.

i). In case the NSIC/MSEs registration certificate is found invalid during evaluation, the bid of such bidder shall be rejected.

ii). Bidder so exempted for submission of EMD shall have to submit an undertaking as per Annexure-II

iii). Bidder not having NSIC/MSEs registration has to submit EMD along with an undertaking as per Annexure II

2.2.9 Refund / Conversion of Earnest Money Deposit: The Earnest Money received shall be refunded to the unsuccessful bidders without any interest upon executing the Contract Agreement by successful bidder. The Earnest Money Deposit of successful bidder shall be retained and converted into part of Security Deposit.

2.2.10 Forfeiture of Earnest Money Deposit: Earnest Money Deposit will be forfeited in any of the following cases:

2.2.10.1 The bidder withdraws / modifies his tender during the period of Bid Validity.

2.2.10.2 The bidder, in case of tie between lowest bids, refuse to submit revised offer.

2.2.10.3 The bidder does not accept the correction of arithmetical errors of his tender.

2.2.10.4 The bidder fails to deposit Performance Guarantee and information as per format given in GCC within the stipulated time period before award of the work.

2.3 SUBMISSION OF TENDER

2.3.1 Help for Contractors, FAQ, Information about DSC and Bidders Manual Kit containing the detailed guidelines for e-Procurement system are also available on Central Public Procurement Portal.[https://eprocure.gov.in/eprocure/app]

2.3.2 It is mandatory for all the bidders to have a valid Class-II/Class-III Digital Signature Certificate (in the name of person having power of attorney to sign the Bid) from any of the licensed Certifying Agency (Bidders can see the list of licensed CA's from the link www.cca.gov.in) to participate in e-Procurement of IIT KHARAGPUR.

2.3.3 It is mandatory for the bidders to get their firm/company registered with IIT Kharagpur as well as with e-procurement portal to have Vendor Code, User ID & Password. You may follow the below mentioned links

For IIT Kharagpur: https://erp.iitkgp.ac.in/SupplierFacilities/login.htm
For e-procurement portal: https://eprocure.gov.in/eprocure/app https://eprocure.gov.in/eprocure/app
IIT Kgp shall not be liable for delay in processing or non-processing of the payment or refund in the absence of Vendor Code registration.

2.3.4 Tender documents will be available online on website https://eprocure.gov.in/eprocure/app which can be downloaded free of cost.

2.3.5 Bidders may download and refer the “Instructions for Online Bid Submission” from [https://eprocure.gov.in/eprocure/app;jsessionid=2A56E178EED5C7D8536175EFBBB573C9F;eprocgep2?page=HelpForContractors&service=page].

2.3.6 The tender documents shall be submitted online in the prescribed format given on the websites and technical bids received online shall be opened as per NIT or Corrigendum thereof. No other mode of submission is acceptable. Detailed credentials as per the requirement of eligibility criteria and all tender papers except Bill of Quantities are to be submitted in “Technical Bid”.

Bill of Quantities with rates duly filled in are to be submitted in the format provided online in the name of “Financial Bid”. Hence, physical submission of the documents is limited to submission of MSE registration certificate as per provision given in sub-clause 1.2.5 of NIT & 2.2.15 of Information to Bidders.

Representative of the bidder, who chooses to attend, may attend the online opening of the technical bids on the scheduled date and time of bid opening. However, such representatives shall be allowed to attend the opening of the Technical Bids, only, if such person presents the letter of authority issued in his name by the bidder on his letter head.

2.3.7 Bidders cannot submit the tender after the due date and time of e-bid submission. Time being displayed on Central Public Procurement Portal https://eprocure.gov.in/eprocure/app (“Server System Clock Time”) shall be final and binding on the bidder. e-Bids are required to be submitted by bidders, only as per the Indian Standard Time (IST) and not the time as per their location/country.

2.3.8 The bidders are advised to submit their e-bids well before the e-bid due date. IIT KHARAGPUR shall not be responsible for any delay in submission of e-bids for any reason including server and technical problems.

2.3.9 The Technical and Financial Bid shall be digitally signed by the Authorized Signatory of the bidder & submitted “on-line” only. However hard copy of Technical Bid Document shall be submit in a sealed envelope super scribed with “Hard Copy of Technical Bid/Tender document for NIT No-1/WW/NIT/22-23/021 for the work. Operation of Water Treatment plant and RO
Any tender received without original Earnest Money in the form as specified in clause 1.2.5 of tender documents shall not be considered and shall be summarily rejected.

2.3.11 IIT KARAGPUR reserves the right to cancel the tenders before submission/opening of tenders, postpone the tender submission/opening date and to accept/reject any or all tenders without assigning any reasons thereof. IIT KARAGPUR’s assessment of suitability as per eligibility criteria shall be final and binding.

2.3.12 Tenderers may note that they are liable to be disqualified at any time during tendering process in case any of the information furnished by them is not found to be true. The decision of IIT KARAGPUR in this regard shall be final and binding.

2.3.13 The EMDs shall be received at the Civil Construction & Maintenance Section, 1st Floor, Old Building, IIT Karagpur, Karagpur WB 721302, up to 15:00hrs 15th Feb. 2023 or Corrigenda otherwise.

2.3.14 EMDs shall be submitted in an envelope super scribed “Operation of Water Treatment plant and RO plant with water supply to its respective area at Dr.S.P.Mookherjee Institute of Medical Science & Research.” with the NIT No: IW/WW/NIT/2223/021

2.4 EVALUATION OF BIDS AND AWARD OF WORK

2.4.1 The Bid of bidder will be opened electronically on the specified date and time of opening at the Office of CE, 1st Floor, Old Building, IIT Karagpur, Karagpur WB 721302 in the presence of willing bidders or their authorized representatives.

2.4.2 Date, time and place of opening of Financial Bid will be informed after evaluation of Technical Bid to the Technically Qualified Bidders.

2.4.3 Bids shall, first, be checked for payment of Earnest Money Deposit. Only those bids found to have duly paid/ submitted Earnest Money Deposit shall be considered for evaluation.

2.4.4 Evaluation of Technical Bid: The bids received will then be assessed on the eligibility criteria mentioned at Para1.3 of Notice Inviting Tender. Bids found not meeting the eligibility criteria shall be considered non-responsive and shall be rejected summarily.

2.4.5 IITKGp retains the right to revert back to individual bidders with further clarifications / queries on the Technical Bid. The bidder has to respond to the queries within the specified time mentioned in the covering letter.

2.4.6 On the date & time specified for opening of Financial Bid or the Revised Financial Bids as the case may be will be opened on specified date and time.

2.4.7 EVALUATION OF Financial Bids: The Financial Bid should contain the complete bid document with duly filled in Schedule of Financial Quote. Financial Bids opened as above will be checked for arithmetical errors.

2.4.8 The successful bidder shall be issued Letter of Acceptance (LOA) of the bid, and be required to furnish a Performance Guarantee as per General Conditions of Contract, Program Schedule with specific Milestones to be achieved as to complete the work within the stipulated time limit and details of his Technical Staff to be deployed as per ANNEXURE-I

2.4.9 Letter of Award shall be issued to the successful bidder. The Work Order will be issued only after receipt of the Performance Guarantee, along with Program Schedule and the details of Technical Staff to be deployed for the work.

2.4.10 Agreement (Contract) consisting of complete tender document including conditions, bill of quantities, technical proposal and specialized services, drawings, if any, and acceptance thereof together with any correspondence leading thereto, shall be drawn and signed with the awardee after issue of Work Order.

2.4.11 Date of start of work shall be reckoned from 7th day from the date of issue of “Letter of Acceptance”.

2.5 COMPLAINTS HANDALING:

2.5.1 All Maintenance complaints shall be got addressed by the contractor to the satisfaction of Engineer in –charge within 3 days from the date of allotment of the “Job Card”

2.5.2 Complaints requiring completion time more than 3 days shall be responded specifically by the contractor with the scheme, in consultation with Engineer-in-charge, and timeline for compliance, to the Engineer-in-charge within 3 days from the date of allotment of “Job Card”.

2.5.3 Any complaint left unattended by the contractor beyond 3 days within specific reason on record shall attract levy of penalty of Rs 50/-per complaint per day from 4th day to 7th day and 100/- per complaint per day thereafter recordable from dues to the contractor.

2.5.4 In case of emergency situation, contractor should be available 24×7 to attend that specific emergency work.
3. UNDERTAKING BY THE BIDDER

UNDERTAKING

I / We have read and examined the Tender document including terms & conditions, specifications, bill of quantities, drawings and designs, general rules & directions, General Conditions of Contract, Special Conditions of Contract and all relevant other documents, publications and rules referred to in the Conditions of Contract and all other contents in the tender documents for the work.

I / We, hereby tender for execution of the work specified for the Indian Institute of Technology Kharagpur within the time specified and in accordance in all respects with the specifications, designs, drawings and instructions in writing.

We agree to keep the tender open for 120 days from the last date of its submission and not to make any modifications in its terms and conditions. A sum of Rs. ____________ has been deposited in cash/ demand draft of a scheduled bank as earnest money. If I / we, fail to furnish the prescribed performance guarantee within prescribed period, I / we agree that the said Director, Indian Institute of Technology Kharagpur or his authorized officer shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I / we fail to commence work as specified, I / we agree that the Director, Indian Institute of Technology Kharagpur shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said earnest money and the performance guarantee absolutely, otherwise the said earnest money shall be retained by him towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein.

Further, I / We agree that in case of forfeiture of earnest money or both Earnest Money & Performance Guarantee as aforesaid, I / We shall be debarred for participation in the re-tendering process of the work.

I / We hereby declare that I / We shall treat the tender documents, drawings and other records connected with the work as secret / confidential documents and shall not communicate information derived there-from to any person other than a person to whom I / We am / are authorized to communicate the same or use the information in any manner prejudicial to the safety of the State.

Seal & Signature of Contractor

Postal Address

Dated

Witness

Address

Occupation
## TECHNICAL STAFF OF CONTRACTOR

<table>
<thead>
<tr>
<th>DISCIPLINE</th>
<th>NAME</th>
<th>QUALIFICATION</th>
<th>EXPERIENCE</th>
<th>CONTACT NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Project In-charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engineer – Electrical &amp; Mechanical Works</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>In-charge - Safety, Health &amp; Environment</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Seal & Signature of Contractor
UNDEARTAKING FOR GCC COMPLIANCE

UNDERTAKING

We hereby undertake that we shall fulfill all the terms & conditions of G.C.C. of IIT Kharagpur within the specified time frame, after the acceptance of our offer in case our offer is accepted; failing which IIT KUHARAGPUR may go ahead to take necessary action such as reporting the non-compliance to appropriate Government authorities and barring us from future participation in IIT Kharagpur works.

Seal & Signature of Contractor

DATED: 
Profit and Loss Summary statement of Last 5 Financial years
Approved through Chartered Accountants

TO WHOM IT MAY CONCERN

This is to certify that the total turnover and Profit/Loss summary of M/s ................................................................. having its registered office at .................................................................for last five Financial years are as given below:

<table>
<thead>
<tr>
<th>Description</th>
<th>Financial years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annual Turnover from Operations</td>
<td></td>
</tr>
<tr>
<td>Profit (+)/Loss (-) After Tax</td>
<td></td>
</tr>
</tbody>
</table>

The above is true to the best of our knowledge and belief.

(TM BE VERIFIED BY Chartered Accountants)
4. Checklist for Documents to be uploaded on [https://eprocure.gov.in/eprocure/app](https://eprocure.gov.in/eprocure/app)

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Documents</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Tender Documents</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>EMD</td>
<td>1.2.5</td>
</tr>
<tr>
<td>3.</td>
<td>Document support of Bonafide Business Entity</td>
<td>1.3.3</td>
</tr>
<tr>
<td>4.</td>
<td>GST Registration Certificate</td>
<td>1.3.3</td>
</tr>
<tr>
<td>5.</td>
<td>Permanent Account Number</td>
<td>1.3.3</td>
</tr>
<tr>
<td>6.</td>
<td>Average annual turnover of the bidder as per ITCC or profit and loss statement for last 5 year</td>
<td>1.3.5</td>
</tr>
<tr>
<td>7.</td>
<td>Experience Certificate</td>
<td>1.3.2</td>
</tr>
<tr>
<td>8.</td>
<td>ANNEXURES-I,II &amp; III</td>
<td>8-10</td>
</tr>
<tr>
<td>9.</td>
<td>SOQ</td>
<td>12</td>
</tr>
<tr>
<td>S.No</td>
<td>Description of Item</td>
<td>Unit</td>
</tr>
<tr>
<td>------</td>
<td>-------------------------------------------------------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>1</td>
<td>Operation of the existing water treatment plant and RO plant of Dr S P Mookherjee Institute of Medical Sciences in shift basis. This involves operation and control of all kinds of pumps &amp; valves, related with Deep tubewells, Multigrade Filter, Activated Carbon Filter, Softeners of Water Treatment plant and RO system including supplying of water with backwashing of Multigrade Filter, Activated Carbon Filter, Softeners, water quality checking for raw water as well as treated water, preparation of Brine solution by adding industrial salt to the Brine tank, cleaning of inside and outside plant area and plant machinery to keep them free from dust, soot and webs, shift basis throughout the year as per direction. <strong>Note</strong>: If anybody from three shifts is absent and no substitute is provided a penalty equal to 50% rate of the item no-1 per head/per day will be deducted from that day’s payment and if all the operators are absent in a day no payment will be given and an additional penalty equal to 300% rate of the item no-1 ill be recovered from the bill.</td>
<td>Per Shift</td>
</tr>
<tr>
<td>2</td>
<td>Supply of industrial salt Salt for regeneration to maintain water quality standard by mixing the salt to the Brine Tank for preparation of Brine solution</td>
<td>Kg</td>
</tr>
<tr>
<td>3</td>
<td>Supply and mixing of Sodium Hypochlorite for chlorination process to maintain water quality standard. <strong>Note</strong>: Sodium Hypochlorite supplied must have adequate shelf life.</td>
<td>Litre</td>
</tr>
<tr>
<td>4</td>
<td>Cutting of grass, shrubs etc. of the area around of WTP including water supply related valve chambers and removal, disposal of the cutted grass and rubbish up to a distance of 50 m from the periphery of the area or to designated waste disposal site</td>
<td>sqm</td>
</tr>
<tr>
<td>5</td>
<td>Opening the filter part and refixing the same after removing the old media, cleaning &amp; washing the internal part of the filter including removing and disposal of sludge at a distance of 50 m from the Iron removal plant or to our designated waste disposal site</td>
<td>Each Filter</td>
</tr>
<tr>
<td>6</td>
<td>Replacing the old media with new filter media including supply of media sand, gravel, silex etc. with proper screening of the media for MGF</td>
<td>Kg</td>
</tr>
<tr>
<td>7</td>
<td>Replacing the old activated carbon with new media of approved quality including supply of media etc. with proper screening of the media for activated carbon filter</td>
<td>Kg</td>
</tr>
<tr>
<td>8</td>
<td>Replacing the old softner with new resin of approved quality including supply of resin etc for softeners</td>
<td>Litre</td>
</tr>
</tbody>
</table>

**TOTAL=** ₹ 20,22,448.14

**Say** ₹ 20,22,448.00