

Tender

For

Comprehensive Maintenance & operation of 850kLD MBR based S.T.P. including Effluent treatment tanks, Water softening plant, Inlet tank, pump room, outgoing tank for residential complex installed at AIIMS, Jodhpur.

N.I.T. No.	AIIMS-JDH/EE/ELECT/2022-23/05(Second Call)
NIT Issue Date	17 th March, 2023
Pre Bid Meeting	24 th March, 2023at 03:00PM
Last Date of Online Submission of tender	31 st March, 2023 upto 03:00PM
Last Date of Submission of hardcopy in original of EMD	31 st March, 2023 upto 03:00PM
Date of technical bid opening	1 st April, 2023

Tender Document may be downloaded from Download from following websites
www.aiimsjodhpur.ac.in, <http://eprocure.gov.in/tenders.gov.in>



All India Institute of Medical Sciences, Jodhpur

Basni Phase - II, Jodhpur - 342005, Rajasthan

Telephone: 0291- 2012984,

email: saxenap@aiimsjodhpur.edu.in

website: www.aiimsjodhpur.edu.in

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Executive Engineer (E)
AIIMS, Jodhpur

NOTICE INVITING TENDER

S. No.	Particular	Remarks
1.	Name of work	Comprehensive Maintenance & operation of 850 KLD MBR based S.T.P. including Effluent treatment tanks, Water softening plant, Inlet tank, pump room, outgoing tank for residential complex installed at A.I.I.M.S., Jodhpur
2.	Tender No.	AIIMS-JDH/EE/ELECT/2022-23/05(Second Call)
3.	Contract period	01 year (further extendable to one year as per performance of contractor)
4.	Total estimated cost for One years	₹. 51,000,00/-
5.	Earnest Money Deposit (EMD)	₹ 1,02,000.00 (Rupees One Lakh Two Thousand Only)
6.	Tender documents	Download from following websites- www.aiimsjodhpur.edu.in http://eprocure.gov.in
7.	Pre-bid meeting	24 th March, 2023 at 03:00 PM at Committee room, Administrative Block, Medical College, AIIMS, Jodhpur.
8.	Last date and time online of submission of tender	31 st March, 2023 upto 03:00PM
9.	Last Date of Submission of hardcopy in original of EMD	31 st March, 2023 upto 03:00PM
10.	Date of online technical bid opening	1 st April, 2023
11.	Website for online submission of tender	https://eprocure.gov.in/eprocure/app .

*** Please read carefully the notes given with the tender Notice.**

**Executive Engineer (E)
AIIMS, Jodhpur**

Instructions for the Bidder/ The service provider/ Bidders: -

All India Institute of Medical Sciences (AIIMS), Jodhpur, Rajasthan, an apex healthcare institute established by an Act of Parliament of India under aegis of Ministry of Health & Family Welfare, Government of India, invites Online bids in two bid system for tenders of Comprehensive Maintenance & operation of -

1. 850 KLD MBR based S.T.P. including
2. Effluent treatment tanks,
3. Water softening plant,
4. Inlet tank, pump room, outgoing tank for residential complex installed at A.I.I.M.S., Jodhpur.

Instructions: -

1. Bids shall be submitted online only at CPPP website: <https://eprocure.gov.in/eprocure/app>.
2. The complete bidding process is online. Bidders should be possession of valid digital Signature Certificate (DSC) of class II or III for online submission of bids. Prior to bidding DSC need to be registered on the website mentioned above. For any assistance for e-bidding process, if required, bidder may contact to the helpdesk at 0291-2740741.
3. Bidder/service provider are advised to follow the instructions provided in the 'Instructions to the service providers/Bidders for the e-submission of the bids online through the Central Public Procurement Portal for e-Procurement at <https://eprocure.gov.in/eprocure/app>'.
4. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
5. **Criteria of eligibility:** Bidder who fulfill following requirement in last 7 (seven) years shall be eligible to apply. Joint ventures are not accepted:
Note: Completion certificate to be attached.
“Similar works mean Comprehensive Maintenance & Operation of MBR / MBBR / SBR / SAFF based Sewerage Treatment Plant / Water treatment plant of atleast 425 kLD capacity.”
 - a. Three similar completed works each of value not less than ₹ 21,00,000.00 (Rupees Twenty One Lakh only) or Two similar completed works each of value not less than ₹ 31,50,000.00 (Rupees Thirty One Lakh Fifty Thousand only) or One similar completed work of value not less than of the estimated cost ₹. 42,00,000.00 (Rupees Forty Two Lakh only) put to the tender as on 31-01-2023.
 - b. Satisfactory job completion certificate that should have been signed by Executive Engineer or of similar rank or above; certifying the detailed scope of work handled to include electrical installations, programmable logic control panels, pumping station, digester, Chlorination and having maintained an on-site pollution testing laboratory. The bidder must have completed at least three similar works in last seven years ending 31-01-2023 with Government / Semi-government (As per Annexure-III)
6. Bidder should have Average Annual Financial Turnover of ₹ 51,00,000.00 (Rupees Fifty One Lakh Only) during the last three consecutive financial years ending 31st March 2022 (Scanned copy of Certificate from CA with Unique Document Identification Number (UDIN) to be uploaded).

7. Earnest Money Deposit: The EMD amounting to ₹ 1,02,000.00 (Rupees One Lac Two Thousand Only) shall be deposited in favour of “All India Institute of Medical Sciences, Jodhpur”, Payable at Jodhpur. The EMD will be allowed with validity up to 180 days and of any Scheduled Bank or the State Bank of India in accordance with the appropriate Performa.

The Firm who are registered with Micro Small Medium Enterprises (MSME) / National Small Industries Corporation (NSIC) / OR Small Scale Industries (SSI) are exempted to submit the EMD only (Copy of registration must be provide along with technical bid). No other relaxation shall be allowed. The EMD, in case of unsuccessful Bidders shall be retained by AIIMS, Jodhpur till the finalization of the tender. No interest will be payable by AIIMS, Jodhpur on the EMD.

** The Hard Copy of original instruments in respect of earnest money deposit must be delivered to the AIIMS, Jodhpur on or before the last date of submission of bid. The bid submitted without EMD will be summarily rejected.*

8. Submission of Tender:

The tender shall be submitted online in two part, viz., technical bid and financial bid.

✓ **The offers submitted by email or any other media except CPP portal, shall not be considered. No correspondence will be entertained in this matter.**

I. Technical Bid

The following documents are to be furnished by the bidder along with **Technical Bid** as per the tender document:

- Duly filled format of Technical Bid as per Annexure – I.
- Proof of EMD submitted or exemption under MSME registration.
- Copy of constitution or legal status of the bidder manufacturer / Sole proprietorship / firm / agency etc.
- Copy of Income Tax Return Acknowledgement for last Three consecutive financial years
- Copy of annual financial turnover duly authorized by CA
- Copy of PAN Card Registration.
- Copy of GST registration certificate.
- Certificates as per Annexure- I to VI.

II. Financial Bid

Price bid Form [As per BoQ] - Price must be quoted as per format specified; failing which tender shall be summarily rejected.

Executive Engineer (E)
AIIMS, Jodhpur

ACCEPTANCE OF TENDER CONDITION
(To be submitted on Letter Head of the Company/Firm)

TENDER NOTICE NO: AIIMS-JDH/EE/ELECT/2022-23/05(Second Call)

Percentage Rate Bid for works:

Tender for Comprehensive Maintenance & Operation of 850 KLD MBR based S.T.P. including Effluent treatment tanks, Water softening plant, Inlet tank, pump room, outgoing tank for residential complex installed at A.I.I.M.S., Jodhpur.

T E N D E R

I/We have read and examined the Notice Inviting Tender, General Conditions of Contract, Special Conditions of Contract, Scope of Work, Annexure-I to V,

We agree to keep the tender open for from the due date of its opening of technical bid and not to make any modification in its terms and conditions.

If I/We, fail to furnish the prescribed performance guarantee within prescribed period, I/We agree that the said Director, AIIMS, Jodhpur or his successors, in office 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 Director, AIIMS, Jodhpur or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said performance guarantee absolutely. The said Performance Guarantee shall be a guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in all the conditions of the tender form. Further, I/We agree that in case of forfeiture of Earnest Money or Performance Guarantee as aforesaid, I/We shall be debarred for participation in the re-tendering process of the work. I/We undertake and confirm that eligible similar work(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/ We shall be debarred for tendering in AIIMS, Jodhpur in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee. 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 therefrom 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.

Dated

Witness:

Signature of Contractor:

Postal Address:

Address:

Occupation:

General Conditions of Contract

1. **Rate:** Rates to be quoted as per Financial Bid (BoQ) considering costs of all required works, minimum wages for labour and all their benefits and deductions. The rates shall be quoted only in the schedule of quantities attached with the tender and nowhere else i.e. letter heads etc.
2. **Validity:** The quoted rates and EMD must be valid for a period for **180 days** from the date of closing of the tender. The overall offer for the assignment and bidder(s) quoted price shall remain unchanged during the period of validity. If the bidder quoted the validity shorter than the required period, the same will be treated as unresponsive and it may be rejected. In case the tenderer withdraws, modifies or change his offer during the validity period, bid is liable to be rejected and the earnest money deposit shall be forfeited without assigning any reason thereof. The bidder should also be ready to extend the validity, if required, without changing any terms, conditions etc. of their original tender. In case the last date of sale / of receipt of tender / of opening the tender is declared as Holidays, the respective dates shall be treated as postponed to the next working day accordingly.
3. **Technical Evaluation:**
 - a) Detailed technical evaluation shall be carried out by Institute pursuant to conditions in the tender document to determine the substantial responsiveness of each tender. For this clause, the substantially responsive bid is one that conforms to all the eligibility and terms and condition of the tender without any deviation.
 - b) The Institute's determination of bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence. The Institute shall evaluate the technical bids also to determine whether they are complete, whether required sureties have been furnished, whether the documents have been properly signed and whether the bids are in order. The Director, AIIMS, Jodhpur shall have right to accept or reject any or all tenders without assigning any reasons thereof.
4. **Financial Evaluation:**

After due evaluation of the bid(s) AIIMS, Jodhpur will award the contract to the lowest evaluated responsive tenderer on composite basis i.e. Service charges on labour component and O&M cost. Conditional bid/s will be treated as unresponsive and will be rejected.
5. Right to issue and to accept or reject any or all tenders without assigning any reason thereof is reserved by the Competent Authority.
6. **Award of Contract:** The Institute shall consider placement of orders for jobs on those bidders whose offers have been found technical and financially acceptable. The Institute reserves the right to counter offer price(s) against price(s) quoted by any bidder.
7. **Signing of Contract:** The successful bidder shall be required to execute the Contract Agreement accepting all terms and conditions stipulated herein on a non-judicial stamp paper of Rs. 500/- (Rs. Five Hundred only) within fifteen days of the issue of the Letter of notification of award along with performance security. In the event of failure on the part of the successful bidder to sign the Contract within the period stipulated above, the EMD shall be forfeited and the acceptance of BID shall be considered as cancelled.
8. **Performance bank guarantee:**
 - a. As a contract security for faithful performance of the contract in accordance with all the terms and conditions specified in the tender the obligations under warranty period, the successful tenderer / contractor shall furnish a Performance bank guarantee @ 3% of order value in the form of Fixed Deposit Receipt or Bank Guarantee from any Nationalized Bank duly pledged in the name of the "All India Institute of Medical Sciences, Jodhpur" after receipt of supply order.
 - b. AIIMS-Jodhpur shall have the right to encash the PBG / SD in full or part for non-compliance of any or all the terms and conditions of the tender / contract and to recover any

Liquid Damages and penalties under the contract as well as against defects in the any of the warranty obligations as enumerated in the tender / contract.

- c. In case of part encashment, the validity of the PBG shall have to be kept valid for the remaining period as per contract, for the balance amount or for a period as required by AIIMS-Jodhpur.
 - d. **Refund of PG-** The validity of the PBG shall have to be kept valid for the complete period as per contract and will be refunded after completion of work / contract.
9. **Security Deposit:**
- a. Security Deposit @5% will be deducted from the consecutive running bills of the Contractor.
 - b. **Refund of SD-** Release of Security Deposit of the work shall not be refunded till the contractor produces a clearance deposit after labour certificate from the Labour Officer. As soon as the work is virtually complete the contractor shall apply for the clearance certificate to the Labour Officer under intimation to the Engineer-in-Charge. The Engineer-in-Charge, on receipt of the said communication, shall write to the Labour Officer to intimate if any complaint is pending against the contractor in respect of the work. If no complaint is pending, on record till after 3 months after completion of the work and/or no communication is received from the Labour Officer to this effect till six months after the date of completion, it will be deemed to have received the clearance certificate and the Security Deposit will be released if otherwise due.
9. **Authority of person signing document:** A person signing the tender form or any documents forming part of the contract on behalf of another shall be deemed to warranty, that he has authority to bind such other and if, on enquiry, it appears that the person so, signing had no authority to do so, the Director, AIIMS, Jodhpur may without prejudice to other Civil and criminal remedies cancel contract and held the signatory liable for all cost and damages.
10. **Right of acceptance:** The Director, AIIMS, Jodhpur reserve the right to accepting the whole or any part or portion of the bid; and the bidder shall provide the same at the rates quoted. The Director, AIIMS, Jodhpur reserve the right to reject any or all tenders /quotations or all offers received in response to the tender or cancel or withdraw the tender notice without assigning any reason thereof and also does not bind itself to accept the lowest quotation or any tender and no claim in this regard shall be entertained
11. Information and instruction for Service provider for tendering forming part of NIT and to be posted on website.
12. Right to issue and to accept or reject any or all tenders without assigning any reason thereof is reserved by the Competent Authority.
13. Rate should be quoted in Indian Rupees (INR) on DOOR Basis Delivery at AIIMS, Jodhpur inclusive of all charges. Where there is a difference between the rates in figures and words, lower of the two rates shall be taken as valid and correct rate. The service provider shall take into account all the costs involved in compliance of all the special conditions and as stated above while quoting his rates in his tender for this work.
14. **Subletting of Work:** The firm shall not assign or sublet the work/job or any part of it to any other person/party or will first obtain permission in writing from the Competent Authority of AIIMS, Jodhpur, which will be at liberty to refuse if thinks fit. The tender is not transferable. Only one tender shall be submitted by one bidder.
15. **Breach of Terms and Conditions:** In case of breach of any terms and conditions as mentioned in tender, the Competent Authority, will have the right to reject the bid at any stage without assigning any reason thereof and nothing will be payable by AIIMS, Jodhpur in that event the PG/SD shall also stands forfeited.

16. **Insolvency etc.:** In the event of the firm being adjudged insolvent or having a receiver appointed for it by a court or any other order under the Insolvency Act made against them or in the case of a company the passing any resolution or making of any order for winding up, whether voluntary or otherwise, or in the event of the firm failing to comply with any of the conditions herein specified AIIMS, Jodhpur shall have the power to terminate the contract without any prior notice.
17. The items will have to be supplied at Institute site. No transportation/ cartage charges will be provided for the same.
18. Signed & stamped compliance sheet of the technical specification of the goods with technical printed literature must be enclosed with technical bid.
19. After the evaluation of the bid(s) AIIMS, Jodhpur will award the contract to the lowest evaluated responsive bidder on composite basis. Conditional bid will be treated as unresponsive and will be rejected.
20. **Applicable Law:**
 - The contract shall be governed by laws and procedures established by Govt. of India, within the framework of applicable legislation and enactment made from time to time concerning such commercial dealings/ processing.
 - The contractor shall follow all the government labour laws, minimum wages, labour safety, labour insurance etc. A
 - Any disputes are subject to exclusive jurisdiction of competent court and forum in Jodhpur, Rajasthan, India only.
 - The Arbitration shall be held in accordance with the provision of the Arbitration and conciliations Act, 1996 and the venue of arbitration shall be at Jodhpur. The decision of the Arbitrator shall be final and binding on both the parties.
 - Force Majeure: Any delay due to Force Majeure will not be attributable to the service provider.
21. **Guarantee / Warrantee Period:** The contractor will provide the warrantee / guarantee card for the material replaced during the course of agreement.
22. The contractor is specifically required to quote only one rate against each item. The rate Quoted for any item of material shall conform to the prescribed specifications.
23. The quantities / number of labours are approximate and are liable to change up to any extent on either side. The Engineer-in-Charge reserves right to order deviation from the quantities / number of labours mentioned in the tender. The contractor shall provide the additional quantity on the rates quoted in the tender documents irrespective of deviation limit mentioned elsewhere in the agreement. The contractor shall have no claim to any payment or compensation whatsoever on account of any profit or advantage which be might have derived from the execution of supply in full as mentioned in tender but which did not derive any consequence of the full supply of material mentioned in tender not having been ordered.
24. Any information / document required for verification shall be provided by the bidder.

Executive Engineer (E)
AIIMS, Jodhpur

SPECIAL CONDITIONS OF CONTRACT

1. For all items of Civil, Electrical, plumbing etc.; CPWD / IS specifications with correction slips up to the date of receipt of tender shall be followed. For the items which are not covered under CPWD / IS specifications; the special conditions / B.I.S. specifications shall apply. In this regard the decision of Engineer-in-charge shall be final.
2. Wherever any reference is made of any Indian Standard, it shall be taken as reference to the latest edition with all amendments / revision issued thereto up to the date of receipt of tenders.
3. Other agencies working at site will also simultaneously execute the work entrusted to them and the contractor shall offer necessary co-operation wherever required to other agencies.
4. On account of security consideration, there could be some restrictions on the working hours, movement of vehicles for transportation of materials. The contractor shall be bound to follow all such restrictions and adjust the program for execution accordingly, for which nothing extra shall be paid.
5. The work shall be carried out in a manner complying in all respects with the requirements of relevant bye laws of the local bodies, labour laws, minimum wages act, workmen compensation act and other statutory laws enacted by Central Govt. as well as State Govt.
6. All malba/rubbish/silt/waste, garbage etc. generated due to any operation whatsoever shall be disposed-off on daily basis.
7. No residential accommodation shall be provided to any of the staff engaged by the contractor. The contractor shall not be allowed to erect any temporary set up for staff in the campus.
8. No claims of the labours shall be entertained by the Department including that of providing employment, regularization of services etc.
9. The contractor shall depute required staff having requisite experience. The contractor shall furnish an undertaking about the staff deputed once at site of work that he will not replace them before the period of three years or date of completion whichever is earlier without the consent of Engineer-in-charge. The duty roster should be framed accordingly that the staff will be available at Plant on 24x365 days basis. However, in case of emergency, all the staff shall have to be present even on odd-hours/holidays/Sundays as and when required by the site. For any staff on leave substitute staff shall be provided by the contractor without any extra cost.
10. ***The attendance of all contractor's staff shall be recorded through Biometric machine only. The biometric machine with UPS back-up shall be provided & maintained at the STP plant building by the contractor on his own cost.***
11. Log book, Attendance Register and other records will have to be produced either daily according to the requirement or when asked to do so by the Engineer-in-charge or his authorized representative. Effluent register or others as per guidelines from Pollution Control Board
12. When a register gets completed, it will be handed over to the concerned J.E. / A.E. It will not be returned to the contractor and the same will remain the property of the department.
13. The contractor will have to arrange all the required furniture etc. at his own cost pertaining to his job and he will take all these things back only after the expiry of the agreement for which nothing extra shall be paid.

14. **The personnel and laborers engaged by the contractor under this contract shall wear neat and clean uniforms as approved by the Engineer-in-charge along with name badges. An identity card duly countersigned by Engineer-in-charge or his representative shall be issued to each personnel by the contractor to have proper identifications. The character and antecedents of the staff employed by the contractor shall be got verified from the police by the contractor.**
15. The contractor shall have registration with Employee's Provident Fund commissioner and Employee's state Insurance Corporation for safe guarding interest of his workmen. He shall obtain all other necessary approvals from statutory bodies as per law in vogue.
16. Staff employed by the contractor should be well behaved, Polite & courteous. Any complaint against staff on behavior should be taken very seriously and such staff should be removed by the contractor immediately from the site and replacement shall be provided immediately.
17. The contractor shall make all safety arrangement required for the labour engaged by him at his own cost. All consequences due to negligence or due to lapse of security/safety or otherwise shall remain with the contractor. The department shall not be responsible for any mishap, injury, accident or death of the contractor's staff. No claim in this regard shall be entertained / accepted by the department.
18. Contractor shall be fully responsible for any damages caused to govt. property or allottee's property by his or his labour in carrying out the work and shall be rectified by the contractor at his own cost.
19. GST as applicable shall be paid to the contractor on production of challans on actual basis along with an undertaking also to be provided.
20. Required Space will be handed over to the contractor free of cost by the department.
21. The agency shall restore back the premises and other articles provided by the department to the department at the time of closure of the contract.
22. Any reference made to any Indian standards specifications in these documents, shall imply to the latest version of that standard, including such revisions/amendments as issued by the Bureau of Indian Standards up to last date of receipt of tenders. The contractor shall keep at his own cost all such publications of relevant Indian Standards applicable to the work at site.
23. The contractor will maintain attendance records of the staff, which will be checked by the Junior Engineer/Assistant Engineer/Executive Engineer-in-charge of the work. **In case of absence / non-availability of reliever / any staff, recovery shall have made in account of the contractor @1.5 times of prevailing minimum wages approved by Govt. of India. The monthly running bills of the contractor will be proceeding only after submission of monthly ESI & PF Challans (n-1) i.e. one month previous to the current month and GST invoice of current month.**
24. Contractor has to provide drinking water facility his staff. Watch and ward of enquiry office shall be the responsibility of the agency.
25. The contractor will not pitch up tents for laborers, materials and his stores etc.,
26. No permanently / temporary huts / structures shall be constructed by the contractor at the site of work or at any government land / premises. Such structures, if any, found at the site or at AIIMS, Jodhpur land shall be demolished and removed at the cost of the agency without any notice.

27. Any damage to the building structure, fittings or any other articles etc. done by the contractor or his workman during the execution of the work shall be made good by the contractor at his own cost.
28. The contractor shall clear the site properly after the completion of the work.
29. The Agency shall be solely responsible for compliance to the provisions of various Labour and industrial laws, such as, wages, allowances, compensations, EPF, Bonus, Gratuity, ESI etc. relating to personnel deployed by it at AIIMS, Jodhpur site or for any accident caused to them and the institute shall not be liable to bear any expense in this regard. **The Agency shall make payment of wages to workers engaged by it by the stipulated date (before 7th of every month) irrespective of any delay in settlement of its bill by the AIIMS, Jodhpur for whatever reason.** The Agency shall also be responsible for the insurance of its personnel. The Agency shall specifically ensure compliance of various Laws / Acts and their amendments etc., including but not limited to with the following and their re-enactments / amendments / modifications:
- a. The Payment of Wages Act 1936
 - b. The Employees Provident Fund & MP Act 1952
 - c. The Contract Labour (Regulation) Act, 1970
 - d. The Payment of Bonus Act, 1965
 - e. The Payment of Gratuity Act, 1972
 - f. The Employees State Insurance Act, 1948
 - g. The Employment of Children Act, 1938
 - h. The Motor Vehicle Act, 1988
 - i. Minimum Wages Act, 1948
30. The Service provider shall be responsible for compliance of all statutory provisions relating to Minimum wages, Provident Fund, and Employees State Insurance etc. in respect of the persons deployed by it in the Institute. Rates quoted by the firm will include all statutory obligations of the contractor under Minimum Wages Act. Minimum wages for all purposes of tendering and execution thereof shall be rates as notified by Chief labour commissioner (Central). Revision of rates will be acceptable against submission of order/notification from time to time with authentic proof of having paid the same. Only Minimum wages for number of persons deployed will be revised as and when Minimum wages revision is notified by Chief labour commissioner (Central). Apart from this no other escalation on any component on any component is payable whatsoever.” This clause shall be operational for decrease in quoted/awarded amount on same analogy as above in case there is decrease in labour rates.
31. **Breach of Terms and Conditions:** Noncompliance of any terms and conditions enumerated in the contract shall be treated as breach of contract. Or in Case of breach of any terms and conditions as mentioned above, the Competent Authority, will have the right to reject the bid at any stage without assigning any reason thereof and nothing will be payable by AIIMS, Jodhpur in that event the EMD shall also stands forfeited.
32. **Termination of Contract:** AIIMS, Jodhpur would have the right to terminate the contract by giving one month’s notice before the expiry of the term, in case the work performance is not up to the standard, or in case there is any violation of AIIMS, Jodhpur rules & regulations, or if there is any lapse in compliance of any labour legislation, or if there is any incident of indiscipline on the part of the Tenderer or his staff and the agreement may be terminated by either party by giving one month’s notice to the institution. The decision of AIIMS, Jodhpur’s management in this regard would be final and binding on the Tenderer. In such an event, AIIMS, Jodhpur shall have the right to engage any other tenderer to carry out the task.

33. **Arbitration:** The Arbitration shall be held in accordance with the provision of the Arbitration and conciliations Act, 1996 and the venue of arbitration shall be at Jodhpur. The decision of the Arbitrator shall be final and binding on the both parties.
34. **Dispute Settlement:** It is mutually agreed that all differences and disputes arising out of or in connection with this agreement shall be settled by mutual discussions and negotiations if such disputes and differences cannot be settled and resolved by discussions and negotiations then the same shall be referred to the sole Arbitrator appointed by the Director, AIIMS, JODHPUR whose decision shall be final and binding on both the parties. The contract shall be governed by laws and procedures established by Govt. of India, within the framework of applicable legislation and enactment made from time to time concerning such commercial dealings/ processing.
35. **Guidelines issued by Hon'ble National Green Tribunal** in O.A. No. 21 of 2015 and O.A. No.95 of 2014 in the matter of Vardhaman Kaushik Vs. Union of India & other and Sanjay Kulshreshtha V/s Union of India & ORS: Air Pollution of Dust from Construction and Demolition activity reg. issued vide letter No. DPCC/EIA/Ref-001 to 172/NGT-21/2015/225-408 dt. 17/04/2015 shall be complied by the Bidders.
36. The material shall be as per CPWD / IS specifications with up to date correction slip and ISI specifications.
37. In the event of any variation between CPWD / IS specifications and that in the IS Code the former shall take precedent over the later. In the event of variation between the nomenclature of item as per schedule of quantities and specifications, the former shall prevail.
38. The sample of all the items shall have to be got approved by the Contractor from the Engineer-in- Charge before the supply commences, the approval of sample shall be only in respect of workmanship and finish, and shall be without prejudice to the right of Engineer-in-Charge to get random samples tested out of the actual lot received as per additional conditions.
39. The Engineer-in-Charge shall be at liberty to test respective sample (s) of each item (to be replaced) in any approved laboratory as decided by him. The sample for testing shall be provided by the contractor. If the test proves satisfactory and the material is accepted, the testing charge in respect of satisfactory test shall be borne by the department. All other expenditure required to be incurred for making available the sample, conveyance and packing etc, shall be borne by the contractor himself. In case any sample of particular lot fails in testing the contractor shall be bound to replace the entire lot with fresh material of prescribed specifications and the rejected lot shall only be returned to the contractor after fresh lot is supplied. Testing charges in respect of failed sample will be borne by the contractor himself.
40. Rejected materials shall have to be removed by the contractor at his own cost within a week of the instructions of doing so. Also go down rent as decided by Engineer-in-Charge shall be charged by the department.

Executive Engineer (E)
AIIMS, Jodhpur

SCOPE OF WORK

Sr. No.	Description	Scope of Work	Remarks
A. Operational services			
A01	Day to day operation 24x7 for 365 days & routine maintenance and to follow daily /Weekly / fortnightly / annual checks.	Service Provider	
A02	Provide professional, skilled & semi- skilled manpower for all the installed equipments operation.	Service Provider	Trained manpower shall Only be deputed at the site.
A03	Preparing & Dosing Chemical Solutions of required concentration and quantity.	Service Provider	
A04	Collection, removal and disposal of sludge. Maintain the MLSS level in Bio reactor.	Service Provider	
A05	Sampling- Collecting water / effluent Sample on day-to-day basis.	Service Provider	
A06	Submission of operation data as per Clients requirement.	Service Provider	
A07	Procurement, handling and unloading of chemicals.	Service Provider	
A08	Operations of air blowers, pumps & softening agitator tank.	Service Provider	
A09	Operation of all electrical & mechanical machinery including electrical panels	Service Provider	
A10	General cleaning and house-keeping	Service Provider	
B. Maintenance services			
B01	Preventive maintenance /repairing/ rewinding/ replacement of accessories (mechanical seal, bearings, shaft housing, casing i.e.) of pumps, motors, blower, and other equipments.	Service Provider	Not in case if breakdown is caused due to strikes, lockouts, civil commotion, war, theft, floods, riots, explosion or act of God or cause beyond human control.
B02	Cleaning / Preventive maintenance of the air filters on Air Blowers regularly. Change the Air Filters Periodically.	Service Provider	
B03	Maintenance of civil structures, roads etc.	AIIMS, Jodhpur	
B04	Painting of equipments, pipes and buildings etc.	AIIMS, Jodhpur	
B07	Provision of heavy lifting equipments like Hydra, Crain's, Forklifts, Chain pulley block with tripod etc.	As per orders of AIIMS, Jodhpur	
B08	Provision of general Tool Kits	Service Provider	As per list given below
B09	Provision of Special Tool & Tackles	Service Provider	

B10	Overhauling & Breakdown maintenance of equipments	Service Provider	
B11	Calibration of Lab / Field equipments & instrument	Service Provider	
B12	Oil & grease chamber, all screen bars (manual & auto) and all tank cleaning	Service Provider	
B13	All type of valves (Solenoid, butterfly, gate, non-return etc.)	Service Provider	If required to be replaced then the work should be done as per orders of E-I-C, AIIMS- Jodhpur
B14	Preventive & breakdown maintenance of softening agitator tank & pump	Service Provider	
B15	Maintenance of air blowers, pumps & softening agitator tank.	Service Provider	
B16	Maintenance of all electrical panels & mechanical machinery including electrical panels and to follow daily / weekly/ fortnightly / monthly / annual checks.	Service Provider	
C. Laboratory services			
C1	Provision of well-equipped laboratory	AIIMS, Jodhpur	All required test kits & meters for on-site laboratory i.e. BOD, COD, DO, Ecoli and Turbidity will be provided by AIIMS-Jodhpur
C2	Provision of well-equipped laboratory	Service Provider	All required test kits & meters for on-site laboratory i.e. pH, TS, TDS, SS, Temperature, conductivity, chlorine demand, residual chlorine, MLSS, MLVSS, SVI etc. will be provided by the service provider.
C3	Analysis of various samples of water / waste water as applicable.	Service Provider	
C4	Testing by external agency if required.	Service Provider	
D. Material supply			
D1	Supply of proprietary chemicals (DWPE) for the plant for operations.	Service Provider	
D3	Supply of required other commodity chemicals (Hypo, Citric acid, NaCl) for the plant operation.	Service Provider	
D4	Supply of major and minor spares of the plant operation like lubricants, cotton waste, oil & grease, kerosene etc.	Service Provider	
D5	Supply of maintenance consumables like rustoline, gaskets, packing, v-belts etc.	Service Provider	
D6	Supply of adequate Personal Protective Equipments	Service Provider	
D7	Any equipment replacement	As per orders of AIIMS, Jodhpur	

E. Statutory requirements & clearness			
E1	All statutory & Environmental clearances & taxes.	AIIMS, Jodhpur	To obtain necessary clearance from pollution control board the service provider will provide all necessary documents & will cooperate and Liaison with the concern department as and when required. Fees as per norms, if any shall be deposited by AIIMS-Jodhpur to the concern departments.
E2	Monthly payment of O&M Bills	AIIMS, Jodhpur	
E3	Ensuring availability of raw water as per design specifications, electrical power etc. required for operation of the plant.	AIIMS, Jodhpur	
E4	Statutory norms as per applicable labor law	Service Provider	
E5	Plant security round the clock	AIIMS, Jodhpur	
E6	Transportation within the complex.	Service Provider	
E7	Any medical facility on site	Service Provider	
F1	Maintaining Daily / Weekly / Monthly reporting and log book. All the running records of effluent quality; laboratory test, chemical consumption record etc. in standard format shall be maintained by the service provider as directed / as per updated guidelines of pollution control board.	Service Provider	All reports and log book will be checked by AIIMS, Jodhpur.
F2	In house technical expertise	Service Provider	
F3	Availability of all spares and equipments as per requirement	Service Provider	Tracking/monitoring stocks available and ensuring procurement on time.
<ul style="list-style-type: none"> ❖ The service provider will ensure that effluent from Effluent tanks shall be suitable before feeding it into STP for further treatment. The service provider will maintain all the design outlet parameters of MBR Based STP Plant as per manufacturer manual. (to be handed over during handing over of the site) ❖ The service provider will ensure that the hardness of softening water should not exceed from 50 to 60 PPM. 			

1. All the details regarding equipment installed at STP, AIIMS- Jodhpur will be provided by the institute.
2. The equipment / plant shall be handed over by AIIMS, Jodhpur to the service provider at the start of the contract and shall be maintained in line with manufacturer maintenance manual (to be handed over during handing over of the site)
3. AIIMS, Jodhpur will provide space, power, water, Lab building, illumination, water of right quality, security of plant etc. as per service provider recommendation and requirements.
4. This contract is non-transferable and is applicable only to the units mentioned in this proposal.
5. Any instructions given in operations & maintenance manual shall be followed.

6. The Contractor's plant manager who is present at the site from 9:00 AM to 5:00 PM on all working days shall carry mobile telephone(s) to enable the Engineer-in-charge to have easy and quick communication. Nothing extra shall be paid to the contractor on this account and his quoted rates for various items under this contract will be inclusive of this obligation.
7. Agency shall avail the facility of existing one no. telephone & one internet/broadband connection provided by the department. However, the payment of bills for the same shall be borne by the agency itself.
8. All the preventive & remedial measures to mitigate occupational safety & health risks shall be provided by the service provider / bidder in STP/WTP/ETP operations. All the personnel protective equipments shall be provided by the service provider / bidder.
9. **Technical / Operational team (qualification below is minimum)**

Name of designation	Qty.	Unit	Type of labour	Qualification
Plant manager	01	Nos.	Highly Skilled	Environmental engineer / B.Sc. Chemistry with minimum 3 years working experience in relevant field.
Plant Operators	04	Nos.	Skilled	I.T.I. (in electrician / fitter trade) with minimum 2 years working experience in relevant field.
Electrical / Mechanical technicians	03	Nos.	Skilled	I.T.I. (in electrician / fitter trade) with minimum 1 year working experience in relevant field.
Laboratory analyst	01	Nos.	Skilled	Laboratory analyst is a qualified individual who has knowledge of water and waste water chemistry and is trained in preparations of laboratory chemicals, use of laboratory instruments, collection and preservation of water / waste water samples and analysis for various environmental parameters such as pH, SS, BOD, COD, TDS etc.
Helper	03	Nos.	Unskilled	Should be familiar with the working of Sewerage Treatment Plant.
Total No of	12	Nos.		

❖ **NOTE: The number of highly skilled / skilled/ semiskilled / unskilled labour can be increased / reduced as per actual necessity of site with the approved of Engineer-in-charge without any additional charges.**

10. Penalty for non-availability of manpower:

The contractor will maintain attendance records of the staff, which will be checked by the Engineer-in-charge or his representative. **In case of absence / non-availability of reliever / any staff, recovery shall have made in account of the contractor @1.5 times of prevailing minimum wages approved by Govt. of India.**

11. The Agency shall be solely responsible for compliance to the provisions of various Labour and industrial laws, such as, wages, allowances, compensations, EPF, Bonus, Gratuity, ESI etc. relating to personnel deployed by it at AIIMS, Jodhpur site or for any accident caused to them and the institute shall not be liable to bear any expense in this regard. The Agency shall make payment of wages to workers engaged by it by the stipulated date irrespective of any delay in settlement of its bill by the Administrative Officer, at AIIMS, Jodhpur for whatever reason. The Agency shall also be responsible for the insurance of its personnel. The Agency shall specifically ensure compliance of various Laws / Acts, including but not limited to with the following and their re-enactments / amendments / modifications: -
 - (a) The Payment of Wages Act 1936

- (b) The Employees Provident Fund & MP Act, 1952
- (c) The Contract Labour (Regulation) Act, 1970
- (d) The Payment of Bonus Act, 1965
- (e) The Payment of Gratuity Act, 1972
- (f) The Employees State Insurance Act, 1948
- (g) The Employment of Children Act, 1938
- (h) The Motor Vehicle Act, 1988
- (i) Minimum Wages Act, 1948

12. Penalty for quality of treated water:

S. No.	Testing	Treated water characteristics	if outlet parameters exceeds >10%	if outlet parameters exceeds >20%
1.	pH	6.5 -8.5	1.5% penalty on monthly billing	2% penalty on monthly billing
2.	BOD ₅ @ 20 ⁰ C	≤ 5 mg / liter	1.5% penalty on monthly billing	2% penalty on monthly billing
3.	COD (Cr)	≤ 20- 30 mg / liter	1.5% penalty on monthly billing	2% penalty on monthly billing
4.	TSS	≤ 5 mg / liter	1.5% penalty on monthly billing	2% penalty on monthly billing
5.	Turbidity	< 2 NTU	1.5% penalty on monthly billing	2% penalty on monthly billing
6.	Oil & Grease	< 5 mg/liter	1.5% penalty on monthly billing	2% penalty on monthly billing
7.	Colour	Clear/ Unobjectionable	1.5% penalty on monthly billing	2% penalty on monthly billing
8.	Ecoli	Removal to the level of log ⁶	1.5% penalty on monthly billing	2% penalty on monthly billing

13. It shall be responsibility of the service provider / bidder to ensure the quality of treated water / effluent to comply with local authority requirement & following characteristics whichever is stringent

S. No.	Item of analysis	Unit in mg/l or otherwise
1.	Temperature of discharge	45 °C
2.	Colour	7 lovibond / unit
3.	pH value	6.0 to 8.5
4.	B.O.D. (5day at 20°C)	5 mg
5.	C.O.D.	20-30
6.	Total Suspended Solid	5.0
7.	Total Dissolved Solid	2000.0
8.	Resolusion of Chlorine	>1.0
9.	Sulphate (as SO ₄)	500.0
10.	Sulphite (as sulphure)	0.2
11.	Cyanide (CN)	0.1
12.	Detergent (linear alkylate sulfonate as methylene blue active substances)	15.0
13.	Grease & oil	5 mg / liter
14.	Arsenic	1.0
15.	Barium	5.0
16.	Tin	10.0

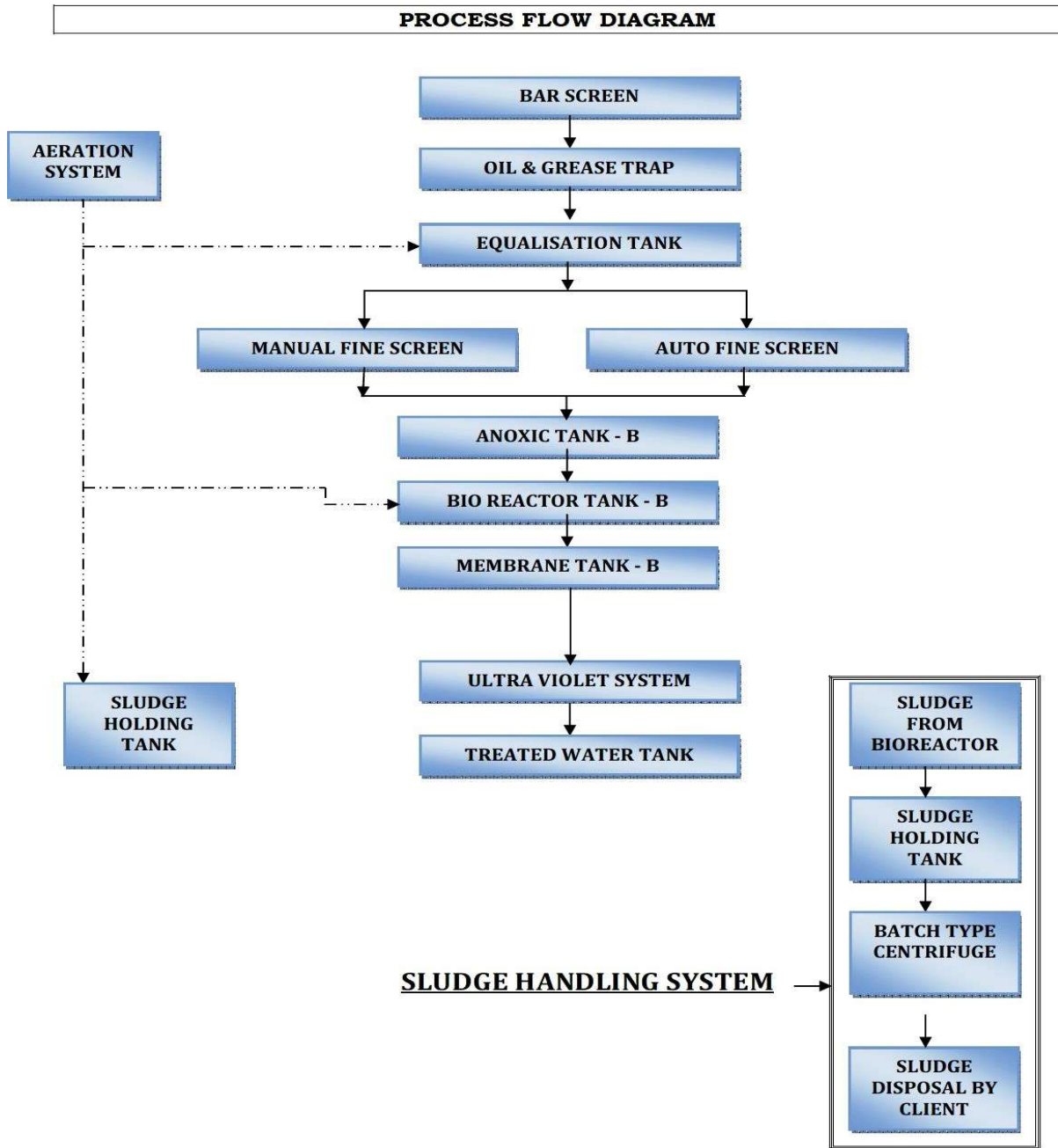
17	Iron (Fe)	20
18	Beryllium	0.5
19	Boron	5.0
20	Manganese	5.0
21	Phenolic compound	0.2
22	Cadmium	0.1
23	Cromium (trivalent & hexavalent)	1.0
24	Copper	0.1
25	Lead	0.1
26	Mercury	0.05
27	Nickel	1.0
28	Selenium	0.5
29	Silver	0.1
30	Zinc	1.0
31	Metals in total	1.0
32	Chlorine (free)	1.0
33	Phosphate	5.0
34	Calcium	200.0
35	Magnesium	200.0
36	E-coli	Nil
37	Hardness Inlet (For water softening plant)	400 mg/l
38	Hardness Outlet (For water softening plant)	Commercial zero
39	Regeneration period (For water softening plant)	12 hours
40	Quantity of soft water between two regenerations (For water softening plant)	850,000 liters
41	Operation pressure (For water softening plant)	3 kg/cm ²
42	Test pressure (For water softening plant)	4.5 kg/cm ²

Executive Engineer (E)
AIIMS, Jodhpur

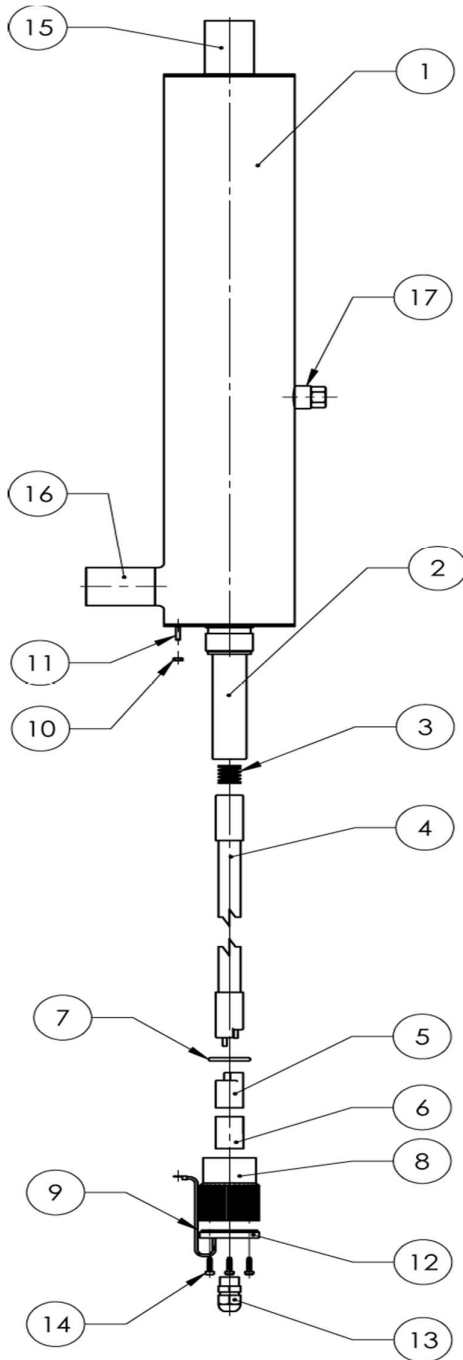
Inventory

Inventory of Sewerage Treatment Plant
Given in attached O&M manual
Inventory of Inlet tank, pump room, outgoing tank for residential complex
1. Johnson make 3HP Self-priming non clog pump with D.O.L. starter– 02 nos.
2. Inlet tank & outlet tank
Inventory of water softening system
1. Water softening system comprising M.S. fabricated vertical softener 1800 mm dia. (approx.) and 1800 mm HOS with 8 mm, and 10 mm thickness at dished ends and shell, internal rubberized lining with M.S. rubber lined brine tank of suitable for two regeneration liter capacity with motorized agitator, 65 mm dia. face piping, CI butterfly valves, pressure gauge, hydraulic brine injector, accessories, painting inside with epoxy paint and outside with two coat of red oxide primer and two or more coat of synthetic enamel paint, testing and commissioning complete with resins. Capacity 75000 lph.
2. Providing and fixing rubber lined M.S. tank for salt mixing and brine saturation capacity of 2regeneration as per manufacture's design for main softener.
Inventory of Effluent Treatment Tanks
1. Effluent Treatment Tanks 02 nos. as per drawing attached.

Flow chart / diagrams



REACTOR CHAMBER COMPONENTS DIAGRAM



Sr. No.	Description	Qty.
1	UV Reactor	1
2	Quartz Sleeve	1
3	Lamp Centering Spring	1
4	UV Lamp	1
5	Lamp Connector	1
6	Lamp Locator	1
7	Quartz Sealing O-ring	1
8	Quartz Compression Nut	1
9	Earthing Wire	1
10	Earthing Nut	1
11	Earthing Stud	1
12	Sealing Nut End Cover	1
13	Cable Gland	1
14	End Cover Screws	3
15	Reactor Inlet	1
16	Reactor Outlet	1
17	Drain / UVM Port	1

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LIST OF CIVIL UNITS

TAG. NO.	DESCRIPTION	SIZE/CAP.	QTY.
T-1010	COARSE BAR SCREEN	0.8 x 1.8 x 0.8M SWD	1NO.
T-1020	OIL & GREASE TRAP	5.45x 1.8 x 1.8M SWD	1NO.
T-1030	EQUALIZATION TANK	9.4 x 6.5 x 3.5M SWD	1NO.
T-1040A	FINE BAR SCREEN-AUTO	1.0 x 1.0 x 0.5M SWD	1NO.
T-1040B	FINE BAR SCREEN-MANUAL	1.0 x 1.0 x 0.5M SWD	1NO.
T-1050	ANOXIC TANK	4.4 x 4.4 x 3.7M SWD	1NO.
T-1060	BIO REACTOR	8.1 x10.0 x 3.5M SWD	1NO.
T-1070	MEMBRANE TANK (GE MEM)	3.1 x 4.4 x 3.0M SWD	1NO.
T-1090	PERMEATE TANK	4.4 x 4.4 x 3.0M SWD	1NO.
T-1100	SLUDGE HOLDING TANK	2.95x 2.6 x 3.0M SWD	1NO.
-	SPACE FOR CENTRIFUGE	SUITABLE	1NO.

MECHANICAL UNIT DETAIL FOR 850M3/DAY (MBR)

Sr. NO.	DESCRIPTION	MARK	SIZE / CAPACITY	NOS. OF.
1	BAR SCREEN EMW	BS-1010	TL STD.	1 NO
2	SLOTTED PIPE OIL SKIMMER	OS-1020	TL STD.	1 NO
3	AIR GRID - EQUALISATION TANK	AG-1030	TL STD	1 LOT
4	DIFFUSER	-	TL STD	1 LOT
5	BIO REACTOR FEED PUMPS	P-1011/12	35.5M3/HR@12MWC	2 NOS
6	FINE SCREEN (AUTO) 2MM	BS-1040A	TL STD	1 NO
7	FINE SCREEN (MANUAL) 2MM	BS-1040B	TL STD	1 NO
8	AIR BLOWER FOR EOT, SHT & BIO REACT.	AB-1011/12	650M3/HR@5400MMWC	2 NOS
9	AIR BLOWER FOR MEMBRANE	AB-1013/14	450M3/HR@4000MMWC	2 NOS
10	AGITATOR FOR ANOXIC TANK	AG-1050	SUITABLE	1 NO
11	AIR GRID FOR - BIOREACTOR	AG-1060	TL STD.	1 LOT
12	DIFFUSER	-	TL STD	1 LOT
13	MEMBRANE	MEM-1070	SUITABLE	1 LOT
14	MEMBRANE SKID	-	SUITABLE	1 NO
15	SLUDGE RECIRCULATION PUMPS	P-1021/22	142M3/HR@10MWC	2 NOS
16	PERMEATE PUMPS CUM BACKWASH PUMPS WITH VFD	P-1031/32	38-45M3/HR@10MWC	2 NOS
17	HYPO DOSING TANK	T-1080	150 LITS	1 NO
18	HYPO DOSING PUMP	P-1080	6 LPH	1 NO
19	U.V SYSTEMS	UV-1010	SUITABLE FOR 36M3/HR	1 NO
20	AIR GRID SLUDGE HOLDING TANK	AG-1100	TL STD.	1 LOT
21	DIFFUSER	-	TL STD	1 LOT
22	CENTRIFUGE FEED PUMPS	P-1041/42	5.0M3/HR@14 MWC	2 NOS
23	CENTRIFUGE (BATCH TYPE)	CF-1010	45KG PER BATCH SOLID HANDLING CAPA.	1 NO
24	DWPE DOSING TANK	T-1130	300 LITS	1 NO
25	DWPE DOSING PUMP	P-1130	0-50 LPH	1 NO
26	AGITATOR FOR DWPE DOSING TANK	AG-1130	SUITABLE	1 NO
27	AIR COMPRESSOR WITH DRYER	COMP-1010	2 CFM,70MWC	1 NO
28	HYPO DOSING TANK FOR MAINTENANCE	T-1110	300 LITS	1 NO
29	HYPO DOSING PUMP FOR MAINTENANCE	P-1110	150 LPH@2BAR	1 NO
30	CITRIC DOSING TANK FOR MAINTENANCE	T-1120	300 LITS	1 NO
31	CITRIC DOSING PUMP FOR MAINTENANCE	P-1120	150 LPH@2BAR	1 NO

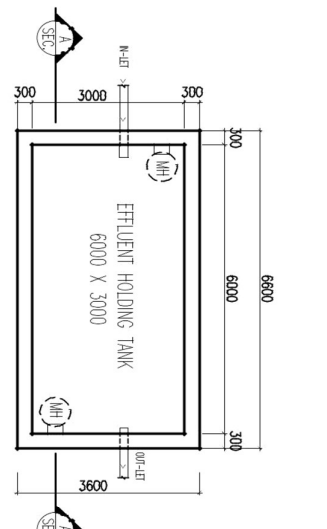
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 DRAWING NO: ...
 SHEET NO: ...
 THERMAX LIMITED
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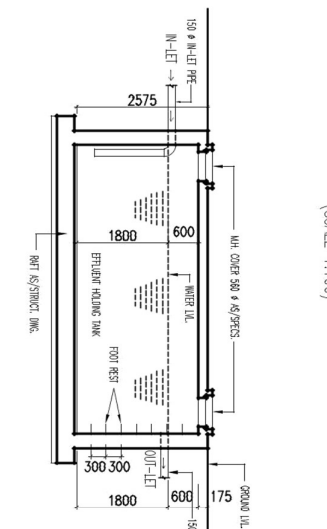
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ARCHITECTURAL DETAILS

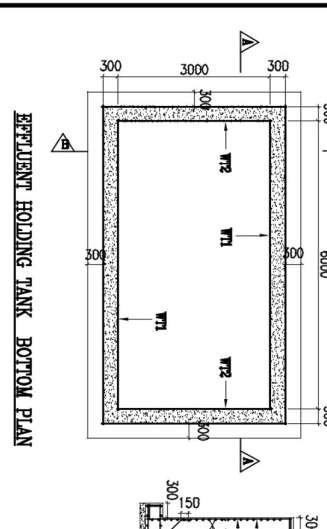


EFFLUENT HOLDING TANK PLAN
(SCALE 1:100)

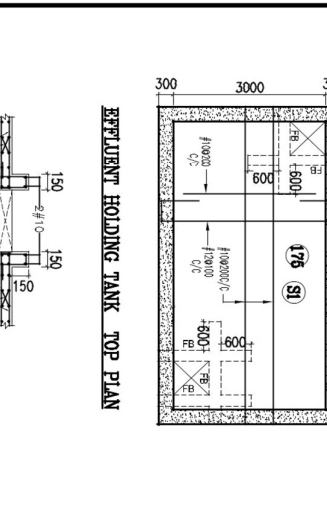


EFFLUENT HOLDING TANK SECTION-AA

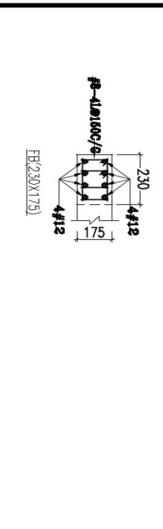
STRUCTURAL DETAILS



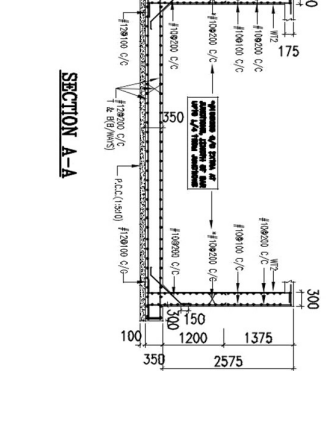
EFFLUENT HOLDING TANK BOTTOM PLAN



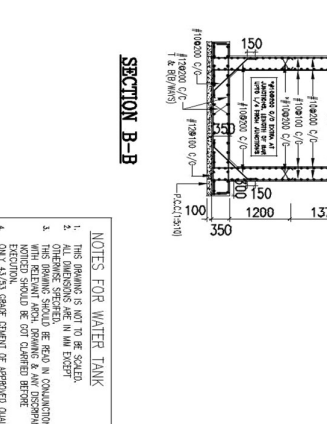
EFFLUENT HOLDING TANK TOP PLAN



TYPICAL MANHOLE DETAILS



SECTION A-A



SECTION B-B

NOTES FOR WATER TANK

1. THIS DRAWING IS NOT TO BE SCALED.
2. DIMENSIONS GIVEN IN MM SHALL BE USED.
3. THE DRAWING SHOULD BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND CONDITIONS NOTED THEREON.
4. EXECUTION, QUANTITY AND APPROVED QUANTITY SHALL BE AS NOTED.
5. IF R & S REINFORCEMENT IS PROVIDED TO THE TANK, IT SHALL BE PROVIDED BEFORE CONCRETE IS CAST.
6. EARTH FILLS AROUND THE TANK SHALL NOT BE ALLOWED BEFORE CASTING OF TOP SLAB.
7. WATER TIGHTNESS SHALL BE MAINTAINED AT ALL TIMES AND SHALL BE MAINTAINED AT ALL TIMES.
8. WATER PROOFING COMPOUND SHALL BE USED AS NOTED.
9. THE CLEAR COVER TO THE MAIN REINFORCEMENT SHALL BE - 25MM/50MM/75MM/100MM/125MM/150MM/175MM/200MM/225MM/250MM/275MM/300MM/325MM/350MM/375MM/400MM/425MM/450MM/475MM/500MM/525MM/550MM/575MM/600MM/625MM/650MM/675MM/700MM/725MM/750MM/775MM/800MM/825MM/850MM/875MM/900MM/925MM/950MM/975MM/1000MM/1025MM/1050MM/1075MM/1100MM/1125MM/1150MM/1175MM/1200MM/1225MM/1250MM/1275MM/1300MM/1325MM/1350MM/1375MM/1400MM/1425MM/1450MM/1475MM/1500MM/1525MM/1550MM/1575MM/1600MM/1625MM/1650MM/1675MM/1700MM/1725MM/1750MM/1775MM/1800MM/1825MM/1850MM/1875MM/1900MM/1925MM/1950MM/1975MM/2000MM/2025MM/2050MM/2075MM/2100MM/2125MM/2150MM/2175MM/2200MM/2225MM/2250MM/2275MM/2300MM/2325MM/2350MM/2375MM/2400MM/2425MM/2450MM/2475MM/2500MM/2525MM/2550MM/2575MM/2600MM/2625MM/2650MM/2675MM/2700MM/2725MM/2750MM/2775MM/2800MM/2825MM/2850MM/2875MM/2900MM/2925MM/2950MM/2975MM/3000MM/3025MM/3050MM/3075MM/3100MM/3125MM/3150MM/3175MM/3200MM/3225MM/3250MM/3275MM/3300MM/3325MM/3350MM/3375MM/3400MM/3425MM/3450MM/3475MM/3500MM/3525MM/3550MM/3575MM/3600MM/3625MM/3650MM/3675MM/3700MM/3725MM/3750MM/3775MM/3800MM/3825MM/3850MM/3875MM/3900MM/3925MM/3950MM/3975MM/4000MM/4025MM/4050MM/4075MM/4100MM/4125MM/4150MM/4175MM/4200MM/4225MM/4250MM/4275MM/4300MM/4325MM/4350MM/4375MM/4400MM/4425MM/4450MM/4475MM/4500MM/4525MM/4550MM/4575MM/4600MM/4625MM/4650MM/4675MM/4700MM/4725MM/4750MM/4775MM/4800MM/4825MM/4850MM/4875MM/4900MM/4925MM/4950MM/4975MM/5000MM/5025MM/5050MM/5075MM/5100MM/5125MM/5150MM/5175MM/5200MM/5225MM/5250MM/5275MM/5300MM/5325MM/5350MM/5375MM/5400MM/5425MM/5450MM/5475MM/5500MM/5525MM/5550MM/5575MM/5600MM/5625MM/5650MM/5675MM/5700MM/5725MM/5750MM/5775MM/5800MM/5825MM/5850MM/5875MM/5900MM/5925MM/5950MM/5975MM/6000MM/6025MM/6050MM/6075MM/6100MM/6125MM/6150MM/6175MM/6200MM/6225MM/6250MM/6275MM/6300MM/6325MM/6350MM/6375MM/6400MM/6425MM/6450MM/6475MM/6500MM/6525MM/6550MM/6575MM/6600MM/6625MM/6650MM/6675MM/6700MM/6725MM/6750MM/6775MM/6800MM/6825MM/6850MM/6875MM/6900MM/6925MM/6950MM/6975MM/7000MM/7025MM/7050MM/7075MM/7100MM/7125MM/7150MM/7175MM/7200MM/7225MM/7250MM/7275MM/7300MM/7325MM/7350MM/7375MM/7400MM/7425MM/7450MM/7475MM/7500MM/7525MM/7550MM/7575MM/7600MM/7625MM/7650MM/7675MM/7700MM/7725MM/7750MM/7775MM/7800MM/7825MM/7850MM/7875MM/7900MM/7925MM/7950MM/7975MM/8000MM/8025MM/8050MM/8075MM/8100MM/8125MM/8150MM/8175MM/8200MM/8225MM/8250MM/8275MM/8300MM/8325MM/8350MM/8375MM/8400MM/8425MM/8450MM/8475MM/8500MM/8525MM/8550MM/8575MM/8600MM/8625MM/8650MM/8675MM/8700MM/8725MM/8750MM/8775MM/8800MM/8825MM/8850MM/8875MM/8900MM/8925MM/8950MM/8975MM/9000MM/9025MM/9050MM/9075MM/9100MM/9125MM/9150MM/9175MM/9200MM/9225MM/9250MM/9275MM/9300MM/9325MM/9350MM/9375MM/9400MM/9425MM/9450MM/9475MM/9500MM/9525MM/9550MM/9575MM/9600MM/9625MM/9650MM/9675MM/9700MM/9725MM/9750MM/9775MM/9800MM/9825MM/9850MM/9875MM/9900MM/9925MM/9950MM/9975MM/10000MM.
10. ALL CONSTRUCTION DETAILS SHALL BE PROVIDED AS NOTED.

AIIMS AT JODHPUR

MINISTER OF HEALTH & FAMILY WELFARE

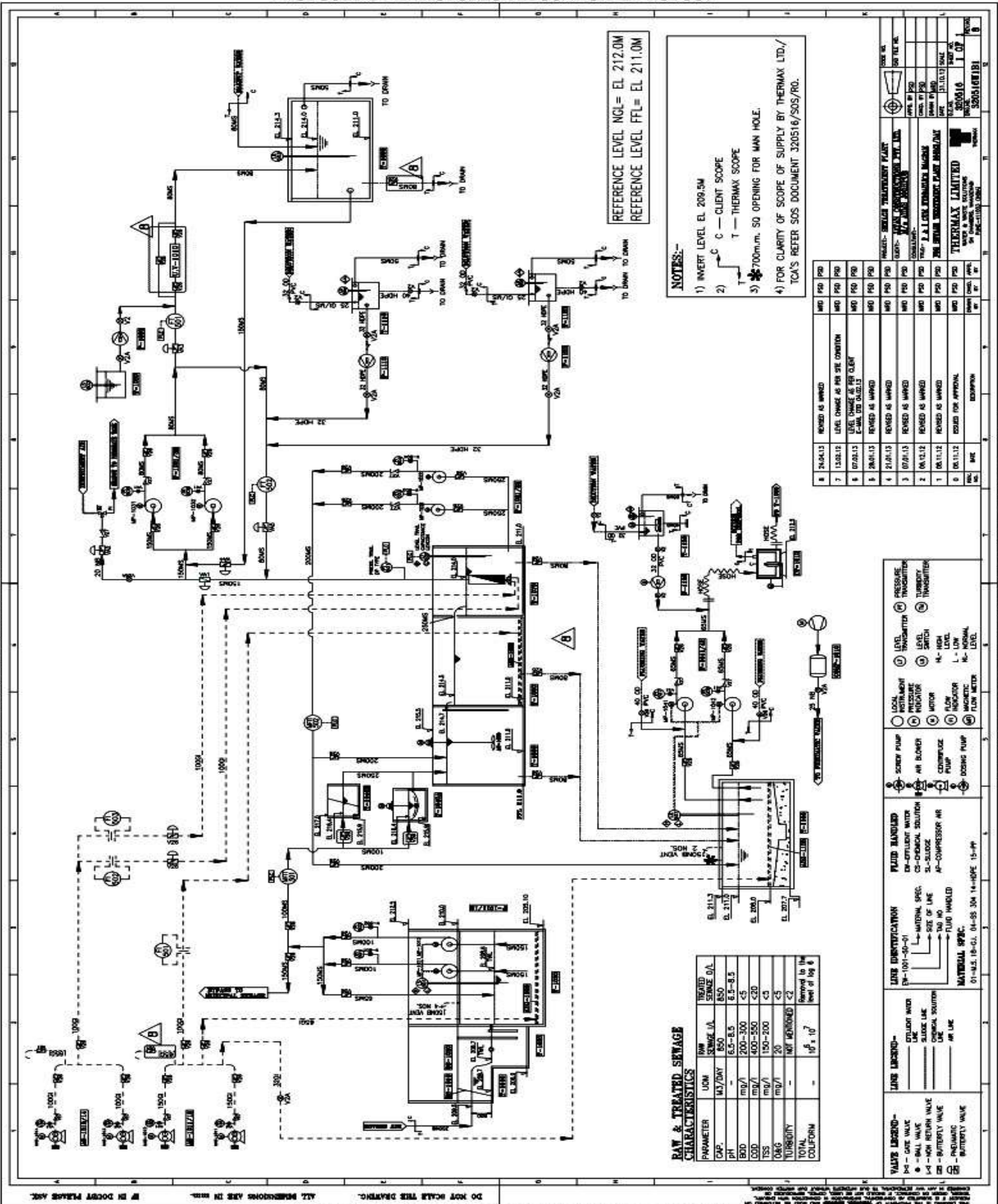
AIIMS AT JODHPUR

EFFLUENT HOLDING TANK PLAN AND SECTION

SW-015

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REFERENCE LEVEL NGL= EL. 212.0M
REFERENCE LEVEL FFL= EL. 211.0M

- NOTES:-
- 1) INVERT LEVEL EL. 209.5M
 - 2) C - CLIENT SCOPE
 - 3) T - THERMAX SCOPE
 - 4) 700mm. SQ OPENING FOR MAN HOLE.
 - 5) FOR CLARITY OF SCOPE OF SUPPLY BY THERMAX LTD./ TCA'S REFER SOS DOCUMENT 320516/SOS/RO.

RAW & TREATED SEWAGE CHARACTERISTICS

PARAMETER	UOM	TREATED SEWAGE Q/L	REMARKS
CAP.	M ³ /DAY	6.5 - 8.5	
BOD	MG/L	200 - 300	< 5
SS	MG/L	400 - 500	< 20
TOSS	MG/L	150 - 200	< 5
TURBIDITY	NTU	20	< 2
TOTAL COLIFORM	10 ⁶ / L	10 ⁷	Removed by the level of log 6

NO.	REV.	DESCRIPTION	DATE	BY	CHKD.
1	1	ISSUED FOR APPROVAL	10/01/13	...	...
2	2	REVISED AS PER CLIENT	10/01/13	...	...
3	3	REVISED AS PER CLIENT	10/01/13	...	...
4	4	REVISED AS PER CLIENT	10/01/13	...	...
5	5	REVISED AS PER CLIENT	10/01/13	...	...
6	6	REVISED AS PER CLIENT	10/01/13	...	...
7	7	REVISED AS PER CLIENT	10/01/13	...	...
8	8	REVISED AS PER CLIENT	10/01/13	...	...
9	9	REVISED AS PER CLIENT	10/01/13	...	...
10	10	REVISED AS PER CLIENT	10/01/13	...	...

VALVE LEGEND-

- 1 - GATE VALVE
- 2 - BALL VALVE
- 3 - NON RETURN VALVE
- 4 - BUTTERFLY VALVE
- 5 - PNEUMATIC BUTTERFLY VALVE

LINE LEGEND-

- 1 - ETHERNET
- 2 - SLOPE
- 3 - SLOPE
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- 7 - SLOPE
- 8 - SLOPE
- 9 - SLOPE
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LINE IDENTIFICATION

- 1 - 1001-01-01
- 2 - 1001-01-02
- 3 - 1001-01-03
- 4 - 1001-01-04
- 5 - 1001-01-05
- 6 - 1001-01-06
- 7 - 1001-01-07
- 8 - 1001-01-08
- 9 - 1001-01-09
- 10 - 1001-01-10
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SYMBOLS

- 1 - PRESSURE TRANSDUCER
- 2 - LEVEL TRANSDUCER
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- 100 - LEVEL TRANSDUCER

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DO's AND DON'T

DO'S

1. Clean the air filter on Air Blowers regularly. Change the Air Filters Periodically.
2. Maintain the MLSS level in Bio reactor as specified during actual commissioning of the plant, drain out the excess sludge from tank through drain.
3. Run the blower continuously.
4. Changeover from one blower to another after every Shift.
5. Ensure the min. dissolved oxygen level in FAB reactor tank is 2 mg/l.
6. Regularly follow the lubrication and maintenance schedule for all mechanical moving items.
7. Take composite samples from the locations specified. Analyze them and maintain logbook regularly.
8. Remove sludge from sludge holding tank regularly.

DON'TS

1. Don't let acidic pH < 6 or alkaline pH > 8.5 or hot (temp. > 38 Deg. °C) effluent reaches the FAB reactors in any case.

Annexure – I***Details of the Bidder***

S. No.	Details of the Bidder / Bidder	
1.	Name of Firm /Service provider / service provider	
2.	Complete Address:	
3.	Name of Proprietor/ Partner/ Managing Director / Director.	
4.	State clearly whether it is sole proprietor or partnership firm or a company or a Government Department or a Public Sector Organization	
5.	Whether each page of NIT and its annexure have been signed and stamped	
6.	Whether the firm is a registered firm Yes/No (attached copy of certificate).	
7.	Copy of GST Registration	
8.	Permanent Account No. (Copy must be provided)	
9.	Copy of Income Tax Return Acknowledgement for last Three years	
10.	Any other information, if necessary	
11.	Name and address of service center at/ nearby Jodhpur	
12.	Official Email ID	
13.	Contact No.	

❖ **Note: All pages should be numbered & indexed.**

Date:
Place:

Name :
Business Address:
Signature of Bidder:
Seal of the Bidder:

Annexure-II**UNDERTAKING FOR NON-BLACKLISTING
(To be submitted on letter head of the company / firm)**

I hereby certify that the above firm has not been ever blacklisted by any Central / State Government / Public Undertaking / Institute on any account.

I also certify that firm will supply the item as per the specification given by Institute and also abide all the terms and conditions stipulated in tender.

I also certify that the information given in the bid is true and correct in all aspects and if in any case at a later date it is found that any detail/s provided are false and incorrect, any contract given to the concern firm or participation may be summarily terminated at any stage, the firm will be blacklisted and Institute may have imposed any action as per NIT rules.

Date:
Place:

Name :
Business Address :
Signature of Bidder :
Seal of the Bidder :

Annexure-III

**Details of all works of similar class completed during the last seven years ending last day
of the month ending January, 2023**

Attached certified copies of experiences (Can use extra sheet if necessary)

S. No .	Name of Work / Project	Owner or Sponsoring Organization	Cost of work (in lac)	Date of Commencement as per contract	Stipulated date of completion	Actual date of completion	Litigation/ arbitration pending / in progress with details	Name and address/ telephone number of officer to whom reference may be made	Remarks
1	2	3	4	5	6	7	8	9	10

* Indicate gross amount claimed and amount awarded by the Arbitrator.

* Please attach completion & performance certificates from authorized person.

Date:

Place:

Name :

Business Address :

Signature of Bidder :

Seal of the Bidder :

Annexure-IV**COMPLETION / PERFORMANCE CERTIFICATE**

(To be submitted on Letter Head of the client department issuing completion / performance certificate)

COMPLETION / PERFORMANCE CERTIFICATE		
1.	Name of Work	
2.	Agreement no. / Work order no.	
3.	Date of issue of work order	
4.	Name of the client	
5.	Stipulated date of commencement of work as per agreement	
6.	Tendered value of work	
7.	Completion cost of work	
8.	Stipulated date of completion of work as per agreement	
9.	Actual date of completion of work	
Certified that the work has been completed satisfactory within the stipulated date of completion. There are no defects apparent and M/s. _____ has completed all the works as per agreement.		

Signature of Authorized officer (with designation)

Note:

- ❖ The above completion certificate shall be issued on the letter head of concerning client department.

Annexure-V**FINANCIAL INFORMATION**

Financial Analysis – Details to be furnished duly supported by figures in balance sheet/profit & loss account duly certified by the Chartered Accountant, as submitted by the applicant to the Income Tax Department (Copies to be attached).

S. No.	Descriptions	2019-20	2020-21	2021-22
1.				
2.				
3.				

Gross Annual Turn Over.

Profit/Loss

II. Financial arrangements for carrying out the proposed work.

Signature of Bidder with Seal

Signature of Chartered Accountant with Seal

Annexure-VI**TENDER ACCEPTANCE CERTIFICATE**
(To be submitted on Letter Head of the Company/Firm)

To,
The Director,
All India Institute of Medical Sciences,
Jodhpur (Raj.)

Name of work: Comprehensive Maintenance & operation of 850 KLD MBR based S.T.P. including Effluent treatment tanks, Water softening plant, Inlet tank, pump room, outgoing tank for residential complex installed at A.I.I.M.S., Jodhpur.

Due on: 31st March, 2023.

I / We, the undersigned have examined the above mentioned Tender Enquiry Document, including amendment / corrigendum (if any), the receipt of which is hereby confirmed. We now offer to supply / complete the works in conformity with your above referred document for the sum as shown in the Price Schedules (BoQ) uploaded herewith and made part of this bid. If our bid is accepted, we undertake to provide the items / services for which tender has been concluded, in accordance with the delivery schedule specified in the Schedule of Requirements. We further confirm that, if our bid is accepted, we shall provide you with a Performance Security of required amount in an acceptable form as mentioned in your NIT. I/We agree to keep our bid valid for a period of **180 (one hundred eighty) days** for acceptance as required in your NIT Document, read with modification, or for subsequently extended period, if any, agreed to by us. We also accordingly confirm to abide by this bid up to the aforesaid period and this bid may be accepted any time before the expiry of the aforesaid period. We further confirm that, until a formal Agreement / Contract is executed; this bid read with your written acceptance thereof within the aforesaid period shall constitute a binding contract between us. We further understand that you are not bound to accept the lowest or any bid you may receive against your above referred advertised tender enquiry. We confirm that we do not stand deregistered/banned/blacklisted by Central / State Govt. / Ministries / Departments /PSU etc. I/We confirm that I/we fully agree to the terms and conditions specified in above mentioned Tender Enquiry Document, including amendment / corrigendum, if any.

We hereby certify that if at any time, information furnished by us is proved to be false or incorrect; we are liable for any action as deemed fit by the purchaser in addition to forfeiture of the Bid Security / Performance Security.

I/We undertake and confirm that eligible similar works(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for bidding in AIIMS organization in future forever. Also, if such a violation comes to the notice of the institute before date of start of work, the Engineer-in-Charge shall be free to forfeit the EMD/ Performance Guarantee/ Security deposit.

(Scanned copy to be uploaded at the time of submission of bid alongwith the technical bid)

Name:	_____
Business Address:	_____
Place:	_____
Date:	_____

**Check List for Documents Required with Technical Bid
(To be attached with the Technical Bid)**

S. No.	Detail provided	Compliance (to be ticked as attached)	Page no. of bid
1.	Criteria of eligibility (Read and Attached)	Yes / No	
2.	Copy of constitution or legal status of the bidder manufacturer / Sole proprietorship / firm / agency etc. (Attached)	Yes / No	
3.	Copy of Income Tax Return Acknowledgement for last three consecutive financial years (Attached)	Yes / No	
4.	Copy of PAN Card Registration (Attached)	Yes / No	
5.	Copy of GST registration certificate. (Attached)	Yes / No	
6.	Copy of EMD (Attached)	Yes / No	
7.	Copy of Average annual turnover duly verified by CA (Attached)	Yes / No	
8.	Acceptance of tender conditions (Filled and Attached)	Yes / No	
9.	General Conditions of Contract (Read and Accepted)	Yes / No	
10.	Special Conditions of Contract (Read and Accepted)	Yes / No	
11.	Scope of Work (Read and Accepted)	Yes / No	
12.	Inventory (Read and Accepted)	Yes / No	
13.	Flow chart / diagrams (Read and Accepted)	Yes / No	
14.	Annexure – I (Technical Bid) (Filled and Attached)	Yes / No	
15.	Annexure – II (Undertaking) (Filled and Attached)	Yes / No	
16.	Annexure – III (Details of all works of similar class) (Filled and Attached)	Yes / No	
17.	Annexure – IV (Completion /Performance certificate) (Filled and Attached)	Yes / No	
18.	Annexure – V (Financial Information) (Filled and Attached)	Yes / No	
19.	Annexure – VI (Tender Acceptance Certificate) (Filled and Attached)		

Date:
Place:

Name :
Business Address:
Signature of Bidder:
Seal of the Bidder: