

Tender Notice No.002/SPV-CETP/JETL/ UF-RO/2023-24 Dated: 26.01.2024

NOTICE INVITING TENDER

FOR

DESIGN, SUPPLY, ERECTION & COMMISSIONING OF 1600 KLD (3 Nos. x 800 KLD EACH) UF - REVERSE OSMOSIS (RO) PLANT AT JEEDIMETLA EFFLUENT TREATMENT LTD. [JETL], PLOT NO – 267, PHASE – 1, IDA, JEEDIMETLA, HYDERABAD - 500055, MEDCHAL-MALKAJGIRI DIST., TELANGANA STATE, INDIA.

TENDER DOCUMENT

JEEDIMETLA EFFLUENT TREATMENT LTD.

Plot No.267, Phase-I, IDA, Jeedimetla, Medchal-Malkajgiri Dist., Hyderabad-500055

Ph.No.8886446201/040-23092141

Email : spvcetp@jetltd.org

Price. Rs. 10,000/-

DESIGN, SUPPLY, ERECTION & COMMISSIONING OF 1600 KLD CAPACITY (3 Nos. x 800 KLD EACH) UF-RO PLANT AT JEEDIMETLA EFFLUENT TREATMENT LTD., PLOT NO – 267, PHASE – 1, IDA, JEEDIMETLA, MEDCHAL-MALKAJGIRI DIST., HYDERABAD-500055, TELANGANA STATE, INDIA.

PUBLISH OF TENDER	: 26.01.2024
PRE-BID MEETING DATE & TIME	: 01.02.2024 FROM 11:00 A.M. TO 4:00 P.M.
PRE-BID MEETING VENUE	: JEEDIMETLA EFFLUENT TREATMENT LTD. PLOT NO – 267, PHASE – 1, IDA, JEEDIMETLA, HYDERABAD - 500055, MEDCHAL- MALKAJGIRI DIST., TELANGANASTATE, INDIA
SUBMISSION OF QUERIES	: 03.02.2024 BEFORE 5:00 P.M. THROUGH E-MAIL
REPLY TO QUERIES	: 05.02.2024 BEFORE 5:00 P.M. BY E-MAIL
DATE & TIME OF SUBMISSION OF TENDER	: 02.03.2024 BEFORE 5:00 P.M. AT JETL
DATE & TIME OF OPENING OF TENDERS (TECHNICAL BID)	: 04.03.2024
DATE & TIME OF OPENING OF TENDERS) (COMMERCIAL BID)	: 12.03.2024

NOTE:

1. Payment should be made online for Tender Cost and EMD. Bank details are as follows.

Account Title: J E T L Upgradation Project
Account No.: 50200090196051
Name of the Bank & Branch: HDFC Bank Ltd.,
Ground Floor, Bank House, Roxana Palladium,
Rd Number 1, Shyam Rao Nagar, Banjara Hills,
Hyderabad, Telangana 500034

IFSC Code: HDFC0009817

2. Tender should be submitted in 2 packet system (Technical Bid with proof of Tender Cost payment and EMD paid receipts and Commercial Bid).

SUBMISSION OF TENDER:

JEEDIMETLA EFFLUENT TREATMENT LTD.

Plot No.267, Phase-I, IDA, Jeedimetla, Medchal-Malkajgiri Dist., Hyderabad-500055

Ph.No.8886446201/040-23092141

Email : spvcetp@jetltd.org

1. Name of the Tenderer:

2. Tenderer Address:

3. a. PAN No. of the Firm:

b. GST No:

4. Authorized Representative Name:

Mobile No:

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Letter comprising of quotation for “Design, Supply, Erection and Commissioning of 1600 KLD Capacity (3 Nos. x 800 KLD each) UF - RO Plant.”

To,
The Executive Director
Jeedimetla Effluent Treatment Ltd.
Plot No.267, Phase-I, IDA, Jeedimetla
Medchal-Malkajgiri Dist.
Hyderabad– 500 055
TELANGANA, INDIA
Email : spvcetp@jetltd.org

Dear Sir,

1. With reference to your TENDER notice dated, I have examined the TENDER document and understood its contents. I hereby submit my Technical & Commercial Bid for **“Design, Supply, Erection and Commissioning of 1600 KLD Capacity UF - RO Plant” at Jeedimetla Effluent Treatment Ltd., Plot No.267, Phase-I, IDA, Jeedimetla, Medchal-Malkajgiri Dist., Hyderabad – 500 055, Telangana, INDIA.**
2. The Application is unconditional for the said Tender. This bid is valid for a period not less than 90 days.
3. It is acknowledged that the Authority will be relying on the information provided in the tender and the documents accompanying such tender for qualification of the bidders for the above subject project, and we certify that all information provided in the tender and in Annexures is true and correct nothing has been misrepresented and omitted which renders such information misleading and all documents accompanying the bid are true copies of their respective originals.
4. This statement is made for the express purpose of the above-mentioned subject.
5. We shall make available to the Authority any additional information it may find necessary or require to supplement or authenticate the Qualification statement.
6. We acknowledge the right of the Authority to reject our bid without assigning any reason or otherwise and hereby relinquish, to the fullest extent permitted by applicable law, our right to challenge the same on any account whatsoever.
7. It is declared that:
 - (a) We have examined and have no reservations to the Tender document.
 - (b) We have not directly or indirectly or through an agent engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice in respect of any Bid or request for proposal issued by or any agreement entered into with the Authority or any other public sector enterprise or any government, Central or State.
8. It is understood that the JETL may cancel the Bidding Process at any time without incurring any liability to the JETL and that you are neither bound to invite the applicants to Bid for the Project nor to accept any bid that you may receive.
9. It is certified that we have not been convicted by a Court of Law or indicted or adverse orders passed by a regulatory authority which could cast a doubt on our ability to undertake the Project or which relates to a grave offence that outrages the moral sense of the community.

10. It is further certified that no investigation by any regulatory agency is pending against us.
11. We hereby irrevocably relinquish any right or remedy which we may have at any stage at law or howsoever otherwise arising to challenge or question any decision taken by the Authority in connection with the selection of bidders, selection of the Tenderer, or in connection with the selection/Bidding Process itself, in respect of the above-mentioned Project and the terms and implementation thereof.
12. We agree to undertake to abide by all the terms and conditions of the TENDER document.
13. We agree to undertake to be liable for all the obligations of the Tenderer under the agreement. In witness thereof, we submit this application under and in accordance with the terms of the TENDER document.

Yours Truly

(Signature, name and designation of the Authorized Signatory)

Place: Name and seal of the Bidder/Lead Member

JETL, Hyderabad invites sealed tenders from potential and reputed manufacturers, companies authorized for the **DESIGN, SUPPLY, ERECTION & COMMISSIONING OF 1600 KLD CAPACITY (3 NOS. X 800 KLD EACH) UF-RO PLANT AT JEEDIMETLA EFFLUENT TREATMENT LTD., PLOT NO – 267, PHASE – 1, IDA, JEEDIMETLA, MEDCHAL-MALKAJGIRI DIST., HYDERABAD-500055, TELANGANA STATE, INDIA.**

S. No.	Name of Work	EMD	Tender Cost
1	TENDER FOR DESIGN, SUPPLY, ERECTION & COMMISSIONING OF 1600 KLD (3 NOS. X 800 KLD EACH) UF-RO PLANT AT JEEDIMETLA EFFLUENT TREATMENT LTD., PLOT NO – 267, PHASE – 1, IDA, JEEDIMETLA, MEDCHAL-MALKAJGIRI DIST., HYDERABAD-500055, TELANGANA STATE, INDIA.	Rs.5.00 Lakhs (Rupees Five Lakhs only)	Rs. 10,000/-

Note:

1. Publish of Tender: 26.01.2024
2. Last Date & Time for submission of Tenders: 02.03.2024 before 5:00 PM.
3. Opening of Tender (Technical Bid): 04.03.2024
4. Tender Committee will select the technically qualified bids and those who qualified in the technical bid will be eligible for opening of financial bid and Tender Committee decision will be final.
5. Tender Cost Rs: 10,000/-(Non-refundable) to be paid online and payment receipt to be attached with Technical Bid. If proof of payment is not attached, tender will be disqualified.
6. EMD should be paid online and payment receipt to be attached with Technical Bid. If proof of payment is not attached, tender will be disqualified.
7. Period of Contract: 6 Months from date of entering into an agreement
8. JETL reserves the right to reject or accept the tender in part or in full without assigning any reason.
9. JETL have sole discretion can postpone/ advance or cancel the tender.
10. The dates mentioned above by any reason falls on holiday the next working day shall be considered.

-Sd/-

EXECUTIVE DIRECTOR

JEEDIMETLA EFFLUENT TREATMENT LTD.

Plot No.267, Phase-I, IDA, Jeedimetla, Medchal-Malkajgiri Dist., Hyderabad-500055

Ph.No.8886446201/040-23092141

Email : spvcetp@jetltd.org

SCHEDULE – 1

GENERAL TERMS & CONDITIONS:

1.0 Preface:

1.1 The Jeedimetla Effluent Treatment Ltd. (JETL), Hyderabad invites tender for **DESIGN, SUPPLY, ERECTION & COMMISSIONING OF 1600 KLD CAPACITY (3 NOS. X 800 KLD EACH) UF-RO PLANT AT JEEDIMETLA EFFLUENT TREATMENT LTD., PLOT NO – 267, PHASE – 1, IDA, JEEDIMETLA, MEDCHAL-MALKAJGIRI DIST., HYDERABAD-500055, TELANGANA STATE, INDIA.** from the reputed and long-standing Manufacturers / Authorized distributors / Dealers etc.

1.2 The Executive Director, JETL, reserves the right to accept or reject any or all the tenders in full or part thereof, which in his opinion, justifies such action, without further explanation to the Tenderer.

1.3 The Tenderer should submit the clientele list with contact details for verification of genuinity by the Tender Committee.

1.4 The Tenderer should contact the following for technical clarifications.

Mr. K. Bhanu Prasad
Asst. General Manager
bhanu@jetltd.org

2.0. Definition of Terms:

In the contract documents as here in defined where the context so admits, the following words and expressions will have the following meanings:

2.1 JETL shall mean Jeedimetla Effluent Treatment Limited or their duly authorized representatives.

2.2 Officer-in-Charge shall mean the in-charge officer at the plant or his representative.

2.3 Purchaser shall mean JETL.

2.4 Tenderer shall mean the firm/party/individual/manufacture who quotes against this enquiry.

2.5 Contract price mean the price referred to in against the corresponding item quoted.

2.6 Notice in writing or 'Writing notice' shall mean a notice in written typed and printed characters sent (unless delivered personally or otherwise proved to have been received) by registered post to the last known private or business address or registered office of the address and shall be deemed to have been received when in the ordinary course of post, it would have been delivered.

2.7 "This Contract" shall mean the Articles of Agreement, the conditions, the Appendix, the Schedule of Quantities and / or specification attached hereto and duly signed.

2.8 The "Site" means the areas on which the permanent works are to be executed or carried out and any other places provided by the JETL for purpose of the Contract.

2.9 Month shall mean Calendar month.

2.10 "The Tenderer" shall mean the successful Tenderer to whom an order of supply is issued by the JETL.

2.11 "The Supply" shall mean the supply to be made in accordance with the Contract or part thereof as the case may be and shall include extra, additional, altered or substituted supply as required for purpose of the contract.

2.12 "The Make" shall mean the original company from where the particular material has been originated and manufactured.

2.13 "The Quantity" shall mean the units in Numbers/Length/Weight, the equipment is measured.

2.14 The "Completion Certificate" shall mean the Certificate to be issued by the Officer in-Charge after due inspection in respect of quantity, quality, make and specifications of the spares supplied by the Tenderer.

2.15 The "Period of Liability" in relation to spares equipment the specificised period from the date of supply and to the end of warranty period during which the Tenderer stands responsible for replacement of the defect spare.

3.0 Submission of Tender:

a. Pre-bid meeting:

- Prior to attending Pre-bid meeting tenderer is advised to visit plant and interact with team for preparation of lay out and technical details of all machinery/equipment's etc.
- Pre-bid meeting will be conducted on the scheduled date as mentioned in tender document.

b. Submission of Documents:

Documents & Drawings to be submitted in TECHNICAL BID.

- a) Technical Offer
- b) Lay out
- c) GA drawing
- d) P&I drawings
- e) Mass Balance
- f) Cost of Operation/m3 of Permeate Water Generation

3.1 Tenders must be submitted at JETL.

3.2 Covering letter along with its enclosures accompanying the tender document and all further correspondence shall be submitted in duplicate.

3.3 The Tenders, as submitted, shall consist of the following:

Complete set of tender documents as sold duly filled in and signed by the Tenderer as prescribed in different clauses of the tender documents.

3.4 All Pages to be initiated. All signatures in Tender documents, shall be dated as well as all the pages of all sections of tender documents shall initiated at the lower left-hand corner and signed wherever required in the tender papers by the Tenderer or Authorized Representative.

3.5 Rates to be in figures and words. The Tenderer should quote in English both in figures as well as in words.

3.6 Corrections & Erasures:

All corrections, and alterations in the entries of tender papers will be signed in full by the Tenderer with date. No erasures or over-writings are permissible.

3.7 Tenderers should state in their offers the address to which the orders, notices and correspondence relating to the tender are to be sent. Any change of address should be notified to Jeedimetla Effluent Treatment Limited, and correspondence thereafter will be done with the state address.

3.8 The acceptance of tender and award of purchase order to one or more than one Tenderer if considered necessary will rest with the JETL which does not bind itself to accept the lowest tender. JETL reserves the right to reject any or all the offers received without assigning any reasons and no explanation can be demanded of the cause of rejection of his tender by any tenderer.

3.9 The tender documents in which tender submitted by a Tenderer shall become the property of the JETL and the JETL shall have no obligation to return the same to the tenderer.

3.10 For any clarification regarding the tender or nature or scope of work, the office of JETL, Hyderabad may be contacted during office hours on any working day.

3.11 Negligence of the bidder in preparing bid confers no right to withdraw the bid after it was opened.

4.0 Transfer of Tender Document:

Transfer of tender documents purchased by one intending tenderer to another is not permissible.

5.0 Earnest Money Deposit (EMD):

The intending Tenderer shall deposit with JETL, Hyderabad as Earnest Money Deposit Rs.5.00 Lakhs (Rupees Five Lakhs only) through online as a guarantee of good faith, which amount shall be forfeited in the event of any evasive refusal or delay in executing the order. The deposit of the unsuccessful tenderer will be returned without interest, immediately after the decision is taken regarding the award of the order. The Earnest money of the successful tenderer will be returned after completion of supply and successful commissioning.

6.0 Price:

6.1 Price offered by the tenderer should be firm and free from escalations. The prices offered should be valid for a period of 90 days from the date of tender opening.

6.2 Price quoted should inclusive of packing & forwarding, transit insurance & transportation charges to JETL, Jeedimetla, Medchal-Malkajgiri dist., Hyderabad, Telangana State, INDIA.

6.3 Price Quoted should be Exclusive of GST.

7.0 Liquidated Damages:

7.1 If the Tenderer fails to deliver any or all of the Goods within the time period specified in the contract, the purchaser shall, without prejudice to its other remedies under the contract, deduct from the contract price, as liquidated damages, a sum equivalent to:

7.2 0.5% value of the undelivered portion of the supply/ incomplete supply for each week of delay beyond the scheduled delivery date.

7.3 The total amount so deducted shall not exceed 5% of the work order value. Once the maximum is reached, the purchaser may consider termination of the contract.

7.4 Any incremental taxes and levies on account of delay in performance of the contract by the Tenderer shall be to the Tenderer's account.

7.5 Bidder shall guarantee standalone results for Permeate quantity & quality.

7.6 Penalty clause will be implicated on final guarantee output quantity & quality as per the tender submission designed values. If fails, the bidder/Tenderer will have to correct in 30 days otherwise PBG will be forfeited.

8.0 Termination:

8.1 The purchaser may without prejudice to any other remedy for breach of work order by written notice of default sent to the Tenderer, terminate the order in whole or in part:

8.1.1 If the Tenderer fails to deliver any or all of the goods within the time period specified in the contract or any extension thereof granted by the purchaser.

8.1.2 If the Tenderer fails to perform any other obligation under the contract. In the event the purchaser terminates the contract in whole or in part, the purchaser may procure, upon such terms and in such manner as it deemed appropriate, goods similar to those undelivered, and the Tenderer shall be liable to the purchaser for any excess costs for such similar goods. However, the supplier shall continue performance of the contract to the extent not terminated.

8.3 Consequent to such termination of purchase order, the purchaser shall recover the advance paid, if any, to the Tenderer along with the interest @18% per annum compounded quarterly on the last day of March, June, September and December on the advance paid for the entire period for which the advance was retained by supplier.

8.4 The purchaser may at any time terminate the contract by giving written notice to the Tenderer, without compensation to the Tenderer, if:

8.4.1 The Tenderer becomes bankrupt or otherwise insolvent.

8.4.2 The Tenderer being a company is wound up voluntarily by the order of a court receiver or a Manager appointed on behalf of the debenture holders or circumstances shall have arisen which entitle the court or debenture holders to appoint a receiver or a Manager.

9.0 Force Majeure:

9.1 Notwithstanding the provisions of delay clause, the Tenderer shall not be liable for forfeiture of their Earnest money deposit, liquidated damages or termination for default, if and to the extent that, it's delay in execution or their failure to perform their obligations under the contract is the result of an event of Force Majeure.

9.2 For the purpose of this clause, "Force Majeure" means an event beyond the control of the Tenderer and not involving the Tenderer's fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the Federation either in its sovereign or contractual capacity, wars or revolutions, fires floods, epidemics, riots, terrorism and all acts of god.

9.3 If a Force Majeure situation arises, the Tenderer shall promptly notify the purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the purchase in writing, the Tenderer shall continue to perform its obligation under the contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

10.0 Extension of time for completion:

Should the supply of extra or additional items or services of any kind be any cause of delay referred to in these conditions, or exceptional adverse climatic conditions or other special circumstances of any kind whatsoever which may occur, be such as fairly to entitle the Tenderer to an extension of time for the completion of the supplies, the purchaser shall determine the amount of such extension and shall notify the Tenderer accordingly. Provided that the purchaser is not bound to take into account any extra or additional supplies or services or other special circumstances unless the Tenderer has within twenty-eight days after such work has been commence, or such circumstances have arisen, or as soon thereafter as in practicable submitted to the purchaser full and detailed particulars of any extension of time to which he may consider himself entitled in order that such submission may be investigated at the time.

11.0 Review and Co-ordination meeting:

The Tenderer shall depute senior and competent personnel to attend the site, Co-ordination meetings that would generally be held at the site every month. The Tenderer take necessary action to implement the decisions arrived at such meetings shall also update the supply schedule.

12.0 Eligibility Criteria:

Eligibility Criteria for submitting the Tender is as follows.

Proof of Experience certificates/work done certificates must be attached to the technical bid, work orders will not be considered

S. No.	Description
1	The Tenderer should have 10 years' experience in the field of design, supply, erection & commissioning of UF-RO plants in ETP / CETP. Technical Experience which shall include i) No. of similar projects executed in ETP / CETPs ii) No of Projects functioning iii) No of Projects under execution
2	The Tenderer having amount of turnover of Rs.100 Crores in last 3 years with at least Rs.30 crores turnover in any one of the years. Financial competences shall include i) Execution of single project with value of Rs. 1.0 Cr and above ii) Up to date IT returns for last 3 financial years
3	The Tenderer should have at least 3 years' track record in design, supply, erection & commissioning of UF-RO plants to the ETP / CETP at the minimum capacity of 300 KLD and above. Industry Establishment shall include i) Capacity to Design and manufacture all related component of the UF - RO Plant ii) Whether the Tenderer is indigenous manufacturer of membrane whose process and technology is vetted by reputed Govt. institutions like IIT, NIT, BARC, CSMCRI or any Central Govt, agency or importing the membranes. iii) Capacity to procure bought out items
4	The Tenderer should have the facility to conduct R&D and pilot plant studies.
5	Details of Existing Commitments: Details of works on hand and, yet to be completed as on the date of submission of the Tender and works for which Tender/s have been submitted are to be furnished.
6	Availability of Machinery: The tenderer should furnish the information regarding the availability of the machinery, required for manufacturing of the equipment
7	Availability of Technical Personnel: Qualification and experience of Technical Personnel proposed to be deployed for execution of the work
8	Information on litigation history in which Tenderer is the Petitioner

9	Indigenous membrane manufacturers with matching membrane performance & life shall be preferred
10	Cost of Operation/m3 of Permeate Water Generation

13.0 Terms of Payment:

The terms of payment applicable to the contract will be as Stated below:

13.1 30% advance payment will be released with Work Order and after concluding of agreement against Advance Bank Guarantee (ABG) from a nationalized / scheduled banks only as per the given format in the tender document.

13.2 50 % payment against delivery of the Equipment.

13.3 10% After completion of Erection & Commissioning of the Equipment.

13.4 Balance 10% after completion of 30-days performance Trial and meeting the design performance against submission of 10% PBG.

13.5 The EMD will be released after successful Trial commissioning & Submission of PBG.

14.0 Project Completion Period:

14.1 Total Project to be completed including Supply, Installation and Commissioning within 8 Months from date of entering into an agreement.

14.2 After successful commissioning Bidder has to submit the SOP, O&M Manuals, Software License copies (in the name of JETL) & Warranty cards within 3 weeks to JETL.

15.0 Performance Bank Guarantee (PBG):

An amount equivalent to 10% (Ten percent) on final Tender Value payable as Performance Bank Guarantee (PBG) from a nationalized / scheduled banks only as per the given format. The PBG will be refunded after 12 months from the date of successful commissioning of the plant with design performance. If the plant does not perform to the designed parameters, the PBG will be forfeited.

16.0 Compliance with Labor Laws

Tenderer shall comply with all laws and statutory regulations dealing with the employment of labor such as:

- i) The payment of Wages Act, 1936
- ii) The Minimum Wages Act, 1948
- iii) The Workmen's Compensation Act, 1923
- iv) Employer's Liability act, 1938
- v) Industrial Disputes Act, 1947
- vi) Maternity Benefit Act 1961
- vii) The Employees State Insurance Act, 1948
- viii) Employee's Provident Fund Scheme.
- ix) Child labour (Prohibition & Regulation) Act-1986
- x) The Contract Labour (Regulation and Abolishing) Act, 1970 & Contract Labour (Regulations & Abolition) Central Rules, 1971.

17.0 Insurance for works and damages to persons and property:

17.1 Insurance for works:

The Tenderer at the time of signing the contract or before commencing the execution of the work, without limiting his obligations and responsibilities shall insure the works at his own cost and keep them insured not only until the virtual completion of the contract, but up to satisfactory completion of the defect liability period including extended defect liability period, if any, against all acts of God including Fire, Theft, Riots, War, Floods, etc. with Nationalized Insurance Agency in the joint names of the Employer and Tenderer (the name of the former being placed first in the policy) for the full amount of the contract and inclusive of the full market value of the materials to be supplied free of cost by the Employer, fees for assessing the claim and in connection with Tenderer's services generally therein. This policy, however shall not cover any property of the Tenderer or of any sub-Tenderer or their employees.

17.2 Insurance in respect of damages to persons and property:

- i) The Tenderer shall be responsible for all injury/mishaps to persons, animals or things and for all structural and decorative damage to property which may arise from the operation or neglect of himself or of any approved sub- Tenderer's or Employee's, whether such injury/mishaps or damage arise from carelessness, accident or any other cause whatsoever in any way connected with the carrying out of this contract. The clause should be held to include any damage to roads, streets, footpaths, bridges, sewerage, water supply & other services and works forming the subject of this contract by frost or other inclemency of the weather. The Tenderer shall indemnify the Employer and hold him harmless in respect of all and any expenses arising from any such injury or damage to persons or property as aforesaid and also in respect of any claims made in respect of injury or damage under any Acts of Government or otherwise and also in respect of any award of compensation of damages consequent upon such claims.
- ii) The Tenderer shall reinstate all damages of every sort mentioned in this clause, so as to deliver up the whole of the contract works complete and perfect in every respect and so as to make good or otherwise satisfy all claims for damage to the property of third parties.
- iii) The Tenderer shall indemnify the Employer against all claims which may be made against the Employer by any member of the public or other third party in respect of works in consequence thereof and shall at his own expense arrange to effect and maintain, not only until the virtual completion of the contract, but up to satisfactory completion of the defect liability period, if any, with any Nationalized Insurance Agency in the joint names of the Employer and the Tenderer against such risks and deposit such policy or policies with the Employer from time to time during the currency of this contract. The Tenderer shall similarly indemnify the Employer against all claims which may be made upon the employer whether under the Workmen's Compensation Act or any other statute in force during the currency of this contract or at common law in respect of any employee of the Tenderer or any sub-Tenderer and shall at his own expense effect and maintain with an approved office a policy of insurance in the joint names of the employer and the Tenderer. (The name of the employer appearing being place first in the policy) against such risks and deposit such policy

or policies with the Employer from time to time during the currency of the contract. The Tenderer shall be responsible for anything which may be excluded from the Insurance Policies above referred to and also for all other damages to any property arising out of and incidental to the negligent or defective carrying out of this contract. He shall also indemnify the Employer in respect of any cost charges or expenses arising out of any claim or proceedings and also in respect of any award of/or compensation of damages arising there from.

17.3 If the Tenderer fails to comply with the terms of these conditions, the employer may insure the works and may deduct the amount of the premiums paid from any moneys that may be payable or become payable to the Tenderer or may as an option, not release running payment to the Tenderer until the Tenderer shall have complied with the terms of this condition.

17.4. Such insurance, whether effected by the Employer or the Tenderer will no limit or bar the liability and obligation of the Tenderer to deliver the works to the Employer complete in all respects according to the contract. In case of loss or damage due to any of the aforesaid causes, the moneys payable under any such insurance shall be then received and retained by the Employer until the works are finally completed and satisfactorily maintained during the defect liability period including extended defect liability period. If any, and such moneys shall then be credited to the Tenderer in final settlement of accounts.

17.5 The employer shall be at liberty and is empowered to deduct the amount of any damage, compensation cost, charges and expenses arising or accruing from or in respect of any such claim or damage from any sum or sums due to or become due to the Tenderer including the retention amount.

17.6 The Tenderer shall as soon as any claim under the policy is settled or the work reinstated by the insurance office should elect to do so, proceed with all diligence with the completion of the works in the same manner as though misfortune/accident has not occurred and in all respects under the same conditions of contract. The contractor in case of rebuilding or reinstatement after the accident shall be entitled to such extension of time from the Employer as deemed fit.

17.7 The Tenderer shall deposit the original policy/policies and original receipts for the premium with the Employer within 10 (ten) days from the date of signing the contract/commencement of execution of works or unless otherwise instructed by the Employer.

17.8 Issue of Materials by the Employer:

For execution of work under this contract, Employer will not provide any Materials.

17.9 General:

- i) In case the Tenderer to procure materials for execution in time or if the Client feels the progress is delayed due to non-availability of materials at site, the client shall arrange to supply the required materials at site and the full procured cost of materials shall be deducted from the Tenderer's bill.
- ii) The Tenderer shall not have the option to refuse to take delivery of the stores mentioned above, and offered to him. No claim on this account shall be entertained.
- iii) All incidental charges for cartage at the site unloading, storage and safe custody of materials shall be borne by the Tenderer.
- iv) The Tenderer shall construct suitable accommodation within double locking arrangement at the site of work duly approved by the Engineer for storing the material safe against

damage by sun, rain, dampness, fire, theft etc. The Tenderer shall employ necessary watch and ward establishment for the purpose to the satisfaction of the Engineer.

18.0 Jurisdiction Clause:

Any legal dispute arising out of the resultant contract will be subject to the jurisdiction of the Hyderabad & Secunderabad Courts, if the same cannot be resolved by mutual consent.

SCHEDULE - 2

1.0 Special Conditions:

- i. The MAKES & Specifications mentioned against each item in the price schedule is to be strictly adhered. If any spurious material is received the Tenderer will be blacklisted and the same would be circulated in all the Govt. departments while confiscating the EMD amount.
- ii. On insistence the Tenderer should submit the proof of source of procurement of spares in order to prove genuinely.
- iii. If the Tenderer is a dealer /distributor of the spares he should submit copy of the dealership /distributorship certificate issued by the manufacturers.
- iv. The tenderer has to participate fully in the tender.
- v. The Tenderer should accept for third party inspections appointed by the JETL.
- vi. The Successful Tenderer will be issued LOI for the contract. The detailed drawings as per the specifications should be submitted within 2 weeks of issuing of the LOI.
- vii. The Agreement /work order of the successful bidder/tenderer will be awarded after submission of the final designs as per the specifications and its approval.
- viii. The tenderer should submit all Foundations details after entering into the agreement within 2 weeks to start the civil works.

SCHEDULE - 3

SCOPE OF SUPPLY AND TECHNICAL SPECIFICATIONS FOR DESIGN, SUPPLY, ERECTION & COMMISSIONING OF 1600 KLD CAPACITY (3 NOS. X 800 KLD EACH) UF-RO PLANT AT JEEDIMETLA EFFLUENT TREATMENT LTD., PLOT NO – 267, PHASE – 1, IDA, JEEDIMETLA, MEDCHAL-MALKAJGIRI DIST., HYDERABAD-500055, TELANGANA STATE, INDIA.

DESIGN SPECIFICATIONS FOR UF-RO OF CAPACITY 1600 KLD (800 KLD X 3 Nos. 2W+1S)

GENERAL NOTES:

- Offer a solution with Spiral wound Ultra Filtration system with less than 30 KDA (Kilo Dalton) MWCO (Molecular Weight Cut-Off) followed by two stage RO System with polisher system.
- Offered membrane should be of low fouling type.
- UF Reject, backwash water from Stage-I RO and Polisher RO shall be sent to BTP / Pre-treatment.
- Back wash water from Stage-II RO shall be sent to final Reject Tank.
- The UF-RO system shall consist of three units (2 working + 1 standby) of 800 KLD capacity each.
- System should consist of PLC + SCADA based Automatic Membrane system
- Low Pressure Cut-off and High-Pressure Cut-off for High pressure pumps have been considered
- Differential pressure cut off for MCF and all membrane systems to be considered
- Level switches to be considered in all dosing tanks, CIP tanks and flushing tanks
- Necessary transmitters for flow, pH, ORP, and conductivity to be considered as required
- Necessary auto valves to be considered for the system operation
- Low pressure piping of UPVC and high-pressure piping of SS 316 to be considered
- UF and RO system is completely skid mounted
- Please note that the system should design based on the Feed Water quality attached herewith.
- The system should design considering 20 hrs. of operation per day in all stages.
- The system overall recovery should be from 92% – 93%

ANNEXURE 01: DESIGN BASIS & SYSTEM SPECIFICATIONS

Design Feed Parameters:

System should consist of the following:

- 1) Self Cleaning filter
- 2) Spiral Wound Ultra-Filtration system with less than 30 KDA MWCO.
- 3) RO System - Stage-1 with low fouling membranes
- 4) RO System - Stage-2 with low fouling high pressure membrane
- 5) RO-Polisher System with low fouling membranes.

UF Feed Parameters:

S. No.	Parameter	Unit	Outlet
1	pH	-	7.0 - 7.5
2	TDS	mg/l	4000 \pm 500
3	COD	mg/l	500 \pm 100
4	NH ₃ -N	mg/l	70 \pm 10
5	Silica	mg/l	25 \pm 5
6	Turbidity	NTU	30 \pm 5
7	TSS	mg/l	30 \pm 10
8	Hardness	mg/l	800 \pm 100
9	Total Alkalinity	mg/l	110 \pm 10
10	Nitrate as N	mg/l	220 \pm 10
11	M Alkalinity	mg/l	80 \pm 10
12	Calcium	mg/l	230 \pm 10
13	Chlorides	mg/l	900 \pm 50
14	Sulphate	mg/l	290 \pm 50
15	Iron	mg/l	1.0 \pm 0.5

Permeate Parameters:

S. No.	Parameter	Unit	Value
1	pH	-	6.5 – 7.0
2	TDS	mg/l	< 100
3	COD	mg/l	< 30
4	Silica	mg/l	< 1.0
5	Turbidity	NTU	Nil
6	Hardness	mg/l	< 5
7	TSS	mg/l	Nil

Reject Parameters – Vendor to Specify

1. pH –
2. TDS (mg/l) –
3. COD (mg/l) –
4. Silica (mg/l) –
5. Turbidity (NTU) -
6. Hardness (mg/l) –
7. TSS (mg/l) -

Design Conditions:

1. Operating Period of System- 20 hrs/day
2. No. of Skid – 2 W + 1 S
3. Overall Recovery - more than 92%

S. No.	Description	Feed Flow	Recovery	Reject	Permeate	Remarks
	Units	m3/hr	%	m3/hr	m3/hr	
1	UF					
2	RO-1					
3	RO-2					
4	Polisher					

SCOPE OF SUPPLY

All pumps, Valves, Pipes, Fittings, PLC, MCC, SCADA system with panel, all electrical and instrumentation work shall be in the scope of vendor. The entire plant shall be fully automatic controlled by SCADA system. JETL will provide treated wastewater into the UF Feed Storage Tank (Underground Tank). The Tenderer has to consider all the pumps required for the process including Feed to UF, RO-1, RO-2 & Polisher RO.

Following are the major electro-mechanical units to be supplied by bidder. Any other unit, equipment or instrument required for smooth and trouble-free operation to meet performance guarantee shall be in the scope of vendor.

1. Spiral wound UF unit including pumps, pre-filter, pressure vessels, membranes, CIP, Skid etc.
2. RO Unit in multiple stage as designed by the bidder including pumps, pre-filter, pressure vessels, membranes, CIP, Skid etc.
3. All chemical dosing system with tanks, pumps and related accessories.
4. All piping, valves & fittings within battery limit
5. All instruments, electro-magnetic flow meters, Metal Tube Rota meters with Transmitters, Power, Control & Instrumentation cabling with Cable trays
6. MCC Panel, Junction boxes, PLC panel, SCADA software with Key & License and programming
7. All low-pressure piping will be UPVC and all high-pressure piping will be SS 316
8. All pumps shall be of SS 316 and Motors of IE-3 type
9. Required instrument air with suitable Screw Air Compressor

SCOPE MATRIX			
S. No.	Activities	Vendor Scope	JETL Scope
1	Design, Engineering & supply of above Equipment	√	
2	Supervision of erection and commissioning	√	
3	Training of operator to operate the plant	√	
4	Submission of documents & Drawings	√	
5	Civil & Foundation		√
6	UF System, Two Stage RO & Polished wastewater treatment Plant	√	
7	Chemical dosing units with accessories	√	
8	All Pumps and pipelines	√	
9	CIP System and dosing tanks	√	
10	MCC cum PLC Based Panel with SCADA	√	
11	Interconnection Flexible Power and Control Cables	√	
12	Inter Connecting Piping & Fittings from skid to Storage Tanks	√	
13	Electrical Cabling from Feeder panel to each package equipment	√	
14	Cable Trays and accessories	√	
15	Cable tray support		√
16	All other required equipment / Instruments required for UFRO plant Operation and to meet the designed parameters.	√	
17	All necessary sensors such as conductivity, PH and shall have adequate chemical dosage system running in complete auto mode.	√	
18	Drain Point of individual Equipment at Nearest Drain Trench	√	
19	GA Drawing, PID & Foundation Drawing	√	
20	Electricity (At Feeder Panel Control Panel)	√	
21	Service Water (Dilution of dosing chemicals at each Dosing Tank, CIP Tank)		√
22	Instrument Air	√	
23	Junction box	√	
24	Unloading, storage, lifting and shifting of material at site		√
25	Three phase Power supply to Electrical panel		√
26	Plant Lighting & Earthing		√

RECOMMENDED MAKES OF BOUGHT OUT ITEMS

1. Pressure Gauges: GIC/Micro
2. Flow Transmitter: Krohne Marshall
3. ORP Transmitter: Forbes Marshall
4. pH /Conductivity Transmitter: Krohne Marshall
5. Pressure Transmitter: Radix
6. High/Low Pressure Switch: Orion/ Micro
7. Differential Pressure Switch: Orion/ Micro
8. Level Switch: Punetectrol
9. Cables: Polycab/ Finecab
10. Switch Gear: Siemens
11. PLC Panel: Siemens/ L &T
12. Membrane Pressure Vessel: UKL / PENTAIR
13. UF /RO Membrane: PERMIONICS / DOW / HYDRONATIUCS / GE
14. Pumps: Grundfos / Xylem/Danfoss/Equivalent
15. High pressure pump: CAT/ Wenner /Equivalent
16. Dosing Pumps: Milton Roy / Grundfos
17. VFD: CG/ABB/ SIEMENS
18. Motor: Siemens / ABB / CG
19. Cartridge Filter: Yash Filters / Pratham
20. Dosing Tanks: Super/Sinon
21. Piping (SS): Jindal
22. Piping (UPVC): Astral
23. Control Valve: RK Control/ Unifolw
24. SS /CIRL valves: Aira-Euro / Sant / Equivalent
25. PP Valves: UNP / Parth/ Equivalent
26. PLC + SCADA: Siemens/Schneider
27. Actuator: Elomatic /Rotex
28. Power & Control Panels: Siemens/ L &T
29. SS tubing for auto valve: Jindal
30. Screw Air Compressor – ATLAS COPCO / CHICAGO PNEUMATICS

LIST OF EXCLUSIONS

1. All civil works i.e., system foundation, top roof etc. required for the system
2. Feed water carrying piping up to UF Feed storage tank (Underground)
3. Proper storage & distribution of permeate
4. Proper distribution of Reject from the system
5. Permeate storage tank & piping for distribution
6. 3-Phase power distribution up to MCC panel

7. All chemical consumables and power etc.
8. All inter connecting piping out of battery limit.
9. System un-loading & safe storage
10. Illumination in the plant area
11. Supports for Cable trays & Piping
12. Utility water supply within the battery limit

PRICE BID

DESIGN, SUPPLY, ERECTION & COMMISSIONING OF 1600 KLD CAPACITY (3 NOS. X 800 KLD EACH) UF-RO PLANT AT JEEDIMETLA EFFLUENT TREATMENT LTD., PLOT NO – 267, PHASE – 1, IDA, JEEDIMETLA, MEDCHAL-MALKAJGIRI DIST., HYDERABAD-500055, TELANGANA STATE, INDIA.

S.NO.	DESCRIPTION	QTY.	PRICE (Rs.)	TOTAL AMOUNT (Rs.)
1	UF-RO	1 SET		

Sd/-
EXECUTIVE DIRECTOR
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Plot No.267, Phase-I, IDA, Jeedimetla, Medchal-
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