



GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT
OFFICE OF THE EXECUTIVE ENGINEER(E)-II-HYD
HYDERABAD – 500 095.

NOTICE INVITING "e - TENDER"

NIT No. 124/EE(E)-II-HYD/2026-27

Name of Work: **SITC of 1000 LPH RO plant on the Terrace of Basheer hostel at EFLU, Hyderabad.**

Estimated Cost put to Tender: **Rs.9,10,684/-**

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INDEX

Name of Work: SITC of 1000 LPH RO plant on the Terrace of Basheer hostel at EFLU, Hyderabad.

S. No.	Contents	Page No.
1.	Index	2
2.	Notice Inviting e-tender	3
3.	Information and instruction for Contractor for tendering	4-8
4.	CPWD-6	9-13
5.	Percentage tender for works (Form CPWD-7) i/c Schedule A to F	14-23
6.	Integrity Pact	24-30
7.	Form of Earnest Money (Bank Guarantee)	31
8.	Format of Receipt of Deposition of Original EMD,	32
9	Form of Performance Security	33-34
10	MOU, Form –G & Form- H	35-38
11	Special condition	39
12.	General Terms & conditions of IEI	40-45
14	Commercial & Additional condition of RO Plant	46-57
15.	List of approved makes	58-61
16.	Schedule of Work	62-67

Certified that this NIT comprising Page No. 1 to 67.

Executive Engineer (E)-II-HYD
CPWD, Hyderabad

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CENTRAL PUBLIC WORKS DEPARTMENT

NOTICE INVITING e-TENDERS

The Executive Engineer (E)-II-HYD, C.P.W.D., 2nd floor, Nirman Bhavan, Sultan Bazar, Hyderabad-500095 (Phone No. 040-29330109, email id: hyd-eee2@cpwd.gov.in) on behalf of President of India invites online Percentage rate tenders in single bid system from approved & eligible contractors of CPWD of appropriate class under Composite Category for execution of the following work:

NIT No. **124/EE(E)-II-HYD/2026-27**; Name of Work: SITC of 1000 LPH RO plant on the Terrace of Basheer hostel at EFLU, Hyderabad. ECPT: **Rs.9,10,684/-**, EMD: **Rs.18,214/-**, Period of Completion: **60 Days**, Last date and time of submission of bid: up to 15:00 Hrs on 31/10/2026. Date of opening of bid: at 15:30 Hrs on 31/10/2026.

The Tender forms and other details can be obtained from the website <https://entender.cpwd.gov.in> and www.eprocure.gov.in.

Not to be published below this line

Executive Engineer (E)-II-HYD
CPWD/Hyderabad

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INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR e-TENDERING

The Executive Engineer (E)-II-HYD, C.P.W.D., 2nd floor, Nirman Bhavan, Sultan Bazar, Hyderabad-500095 (Phone No. 040-29330109, email id: hyd-eee2@cpwd.gov.in) on behalf of President of India invites online Percentage rate tenders in single bid system from approved & eligible contractors of CPWD of appropriate class under Composite Category for execution of the following work:

S. No.	Description	Details
1	NIT No.	124/EE(E)-II-HYD/2026-27
2	Name of work & Location	SITC of 1000 LPH RO plant on the Terrace of Basheer hostel at EFLU, Hyderabad.
3	Estimated cost put to tender	Rs. 9,10,684/-
4	Earnest Money Deposit (EMD)	Rs.18,214/-
5	Period of completion	60 Days
6	Last date & time of submission of bid, EMD, e-tender processing fee and other Documents	up to 15:00 Hrs on 31/10/2026.
7	Time & date of opening of Price bid	at 15:30 Hrs on 31/10/2026.

1. **Only the enlisted contractors of class-III, IV and V by the Enlisting authority i.e. SDG(Chennai), ADG(Kochi), ADG(Bengaluru) and ADG(Hyderabad) shall tender within their tendering limit and tendering jurisdiction i.e. Tamil Nadu, Andaman & Nicobar, Puduchery, Kerala, Karnataka, Lakshadweep, Andhra Pradesh and Telangana of Southern Region(SR), as per the Rules for Enlistment of Contractors in CPWD,2026. Further, the enlisted contractors of class-III, IV and V shall also have to meet the other requirements of eligibility as per NIT conditions.**
2. The firms/ contractors who fulfill the following requirements shall be eligible to participate in tender. Joint Ventures are not accepted.
3. The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
4. Information and Instructions for bidders posted on website shall form part of bid document.
1. The bid document consisting of specifications and the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website <https://entender.cpwd.gov.in> or www.cpwd.gov.in free of cost.

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6. Bidders are advised to keep visiting the above-mentioned web-sites from time to time (till the deadline for bid submission) for any updates in respect of the tender documents, if any. Failure to do so shall not absolve the applicant of his liabilities to submit the applications complete in all respect including updates thereof, if any. An incomplete application may be liable for rejection.

6. For components of E&M works, the eligibility criteria will be as detailed below

The successful bidder should either himself meet the eligibility component of maintenance work criteria as defined below or will have to associate with agencies for various E&M works who meet the eligibility criteria after award of work and has to submit details of such agency(s) conforming eligibility condition as defined below to Engineer-In-Charge within 5 (Five) days of issue of letter of award. Name of agency to be associated shall be approved by Engineer-in-charge

Sl no	Component of E& M works	Estimated cost in Rs.	Eligibility for contractor association
1	SITC of RO Plant.	8,02,090/-	<p>The main contractor shall have to associate with agency fulfilling the following eligibility criteria possessing valid electrical license issued by competent authority (if he himself does not fulfill the eligibility criteria) having successfully completed during last seven years ending up to previous day of last date of submission of tender as given below with completion certificate issued by an officer not below the rank of Executive Engineer or equivalent duly attested.</p> <p>i) Three Similar completed works each of value not less than Rs. 3.20 Lakhs. or ii) Two Similar completed works each of value not less than Rs. 4.81 Lakhs. or iii) One Similar completed work of value not less than Rs.6.41 Lakhs.</p> <p>Similar work shall mean “SITC of RO Plant”.</p> <p>However, the Composite category contractor shall also be eligible to carry out himself without associating any specialized agency provided: (a) He fulfills the prescribed eligibility criteria respectively for this work or (b) He directly procures the equipment of approved make from manufacturer and gets it installed from authorized agency/service provider of the manufacturer/specialized agency, all as per the eligibility criteria mentioned as above.</p>

Note1: Components of work executed other than those included in definition of similar work shall be deducted while calculating cost of similar work. Bidder shall submit abstract of cost of work in support of this.

Note 2: For the purpose, "Cost of works" shall mean gross value of the completed work including the cost of material supplied by the Government / client, but excluding those supplied free of cost. This should be certified by an officer not below the rank of Executive Engineer / project manager or equivalent.

Note-3: The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple interest rate of 7% per annum, calculated from the date of completion to the previous day of the last date of receipt of application for tender.

Note-4: For **SI.No.1** : The work should be carried out by an agency having valid Electrical licence of appropriate voltage issued by State Government under Clause 45 of compilation of rule of I.E. Rules 1956 or as amended from time to time. In case main contractor does not have Electrical Licence then he has to enter into a Memorandum of understanding with the approved associated contractor on Non-Judicial Stamp Paper as per the enclosed proforma and submit this MOU duly completed (duly signed by him and the associated contractor) before commencement of work.

7. The main contractor will submit MOU signed with eligible registered composite contractor of CPWD or eligible and approved agency. The MOU in the enclosed form shall be signed by both the parties" i.e. main contractor as 1st party and associated approved agency as 2nd party. Independently for **"SITC of 1000 LPH RO plant on the Terrace of Basheer hostel at EFLU, Hyderabad."** If the main contractor fails to associate agency for execution of minor components of work within 7 days of award of work or furnishes incomplete details or furnishes details of ineligible agencies even after the tenderer is given due opportunity, the entire scope of such component of work shall be withdrawn from the tender and the same shall be got executed by the Engineer-in -Charge without any notice at the risk and cost of the main contractor.

- i. Verifiable completion certificates of the work, registration/approval documents as the case may be, duly attested by the applicant shall be submitted within 7 days of award of work Valid.
- ii. Self attested GST registration documents in respect of the associated agencies shall be submitted within 7 days of award of work.

8. Earnest Money in the form of Treasury Challan or Demand Draft or Pay order or Bankers Cheque or Deposit at Call Receipt or Fixed Deposit Receipt drawn in favour of **Executive Engineer (E), HCED-I, C.P.W.D., Hyderabad** shall be scanned and uploaded to the e-tendering website within the period of bid submission. **EMD shall be made / Issued only from the account of the bidder / tenderer submitting the bid/tender. EMD made/ issued from the account other than that of the bidder/ tenderer submitting the bid, shall not be accepted.** The original EMD should be deposited either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission. The EMD receiving Executive Engineer (including NIT issuing EE/AE) shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format (enclosed) uploaded by tender inviting EE in the NIT. This receipt shall also be uploaded to the e-tendering website by the intending bidder upto the specified bid submission date and time.

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A part of earnest money is acceptable in the form of bank guarantee also. In such case, minimum 50% of earnest money or Rs. 20 lakh, whichever is less, shall have to be deposited in shape prescribed above, and balance may be deposited in shape of Bank Guarantee of any scheduled Bank having validity for six months or more from the last date of receipt of bids which is to be scanned and uploaded by the intending bidders.

9. Copy of Enlistment Order / Certificate of work experience / other documents as specified in the press notice shall be scanned and uploaded to the e-tendering website within the period of bid submission. However, certified copy of all the scanned and uploaded documents as specified in press notice shall have to be submitted by the lowest bidder only within a week physically in the office of tender opening authority.
10. Online bid documents submitted by intending bidders shall be opened only of those bidders, whose EMD deposited with any division office of CPWD and other documents scanned and uploaded are found in order.
11. The bid can only be submitted after depositing e-tender Processing Fee as applicable in favour of ITI Limited through their e-gateway by credit/debit card, internet banking or RTGS/NEFT facility.

The contractor already registered on the e-tendering portal will have option to continue by paying tender processing fee upto one year from the date of registration, or to switchover to (new) registration without tender processing fee any time. All new registrations from 01.04.2015 will be without tender processing fee.

Those contractors not registered on the website mentioned above, are required to get registered beforehand. If needed they can be imparted training on online bidding process as per details available on the website

12. The intending bidder must have valid class-III digital signature to submit the bid.
13. On opening date, the contractor can login and see the bid opening process. After opening of bids, he will receive the competitor bid sheets
14. Contractor can upload documents in the form of JPG format and PDF format.
15. Contractor must ensure to quote the percentage above/below /at par. Therefore, if the cell percentage is left blank, the amount shall be computed as "0" (ZERO). Bidder has to take care of this point. The rates quoted by the tenderer, shall be firm and inclusive of all the prevailing taxes and GST etc.
16. The department reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion.
17. If any information furnished by the applicant is found incorrect at a later stage, he shall be liable to be debarred from tendering/taking up of works in CPWD. The department reserves the right to verify the particulars furnished by the applicant independently.

18. The prospective bidder shall use all information relating to the Tender which is obtained, whether in writing, pictorially form in connection with the Tender and other commercial information of a confidential nature exclusively for the purpose of Tender and not for any other purposes.
19. The bid submitted shall become invalid if;
 - i. The bidder is found ineligible.
 - ii. The bidder does not deposit original EMD with division office of any Executive Engineer, CPWD (The EMD Document shall only be issued from the place in which the office of receiving division office is situated).
 - iii. **The bidder does not upload all the documents (including GST registration/ Undertaking as applicable) as stipulated in the bid document including the copy of receipt for deposition of original EMD.**
 - iv. If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest tenderer in the office of tender opening authority.

List of Documents to be filled in by the tenderers in various forms and to be scanned and uploaded in JPG/PDF format within the period of bid submission:

1. Treasury Challan /Demand Draft/Pay order or Banker`s Cheque /Deposit at Call Receipt/FDR / Bank Guarantee of any Scheduled Bank against EMD (Tobe Deposited at O/o The Executive Engineer).
2. Enlistment Order of the Contractor.
3. Bidder to upload receipt of deposition of EMD.
4. ERP Training Certificate should be downloaded from LMS of ERP portal.
5. Telangana GST registration certificate, if already obtained by the bidder.

If the bidder has not obtained GST registration in the state in which the work is to be taken up, or as required by GST authorities, then in such a case the bidder shall scan and upload following under taking with the bid document.

“If work is awarded to me, I/we shall obtain GST registration certificate as applicable, within One month from the date of receipt of award letter or before release of any payment by CPWD, whichever is earlier, failing which I/We shall be responsible for any delay in payments which will be due towards me/ us on account of the work executed and / or for any action taken by CPWD or GST department in this regard.

Executive Engineer (E)-II-HYD
CPWD, Hyderabad

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CPWD 6 for e-Tender

The Executive Engineer (E)-II-HYD, C.P.W.D., 2nd floor, Nirman Bhavan, Sultan Bazar, Hyderabad-500095 (Phone No. 040-29330109, email id: hyd-eee2@cpwd.gov.in) on behalf of President of India invites online Percentage rate tenders in single bid system from approved & eligible contractors of CPWD of appropriate class under Composite Category for execution of the following work: **“SITC of 1000 LPH RO plant on the Terrace of Basheer hostel at EFLU, Hyderabad.”**

- 1.1 The work is estimated to cost Rs.**9,10,684/-**. This estimate however is given merely as a rough guide.

- 1.1.1 The authority competent to approve NIT for the combined cost and belonging to the major discipline will consolidate NITs for calling the bids. He will also nominate Division which will deal all matters relating to the invitation of bids.

For composite bid, besides indicating the combined estimated cost put to bid, should clearly indicate the estimated cost of each component separately. The eligibility of bidders will correspond to the combined estimated cost of different components put to bid.

- 1 **Only the enlisted contractors of class-III, IV and V by the Enlisting authority i.e. SDG(Chennai), ADG(Kochi), ADG(Bengaluru) and ADG(Hyderabad) shall tender within their tendering limit and tendering jurisdiction i.e. Tamil Nadu, Andaman & Nicobar, Puduchery, Kerala, Karnataka, Lakshadweep, Andhra Pradesh and Telangana of Southern Region(SR), as per the Rules for Enlistment of Contractors in CPWD,2026. Further, the enlisted contractors of class-III, IV and V shall also have to meet the other requirements of eligibility as per NIT conditions.**
2. Agreement shall be drawn with the successful bidders on prescribed Form No.CPWD 7/8 (or other Standard Form as mentioned) which is available as a Govt. of India Publication and also available on website www.cpwd.gov.in. Bidders shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.
3. The time allowed for carrying out the work will be **60 Days** from the date of start as defined in schedule “F” or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.
4. The site for the work is available.
5. The bid document consisting of ~~plans~~, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents, except Standard General Conditions Of Contract Form, can be seen from website <https://entender.cpwd.gov.in> or www.cpwd.gov.in free of cost.
6. After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of bid as notified.
7. While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of bid as notified.

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8. The bid can only be submitted **after depositing e-tender Processing Fee as applicable in favour of ITI Limited through their e-gateway by credit/debit card, internet banking or RTGS/NEFT facility.**

The contractor already registered on the e-tendering portal will have option to continue by paying tender processing fee upto one year from the date of registration, or to switch over to (new) registration without tender processing fee any time. All new registrations from 01.04.2015 will be without tender processing fee.

9. Earnest Money in the form of Treasury Challan or Demand Draft or Pay order or Bankers Cheque or Deposit at Call Receipt or Fixed Deposit Receipt (drawn in favour of **Executive Engineer(E), HCED-I, CPWD, Hyderabad** shall be scanned and uploaded to the e-tendering website within the period of bid submission. **EMD shall be made / Issued only from the account of the bidder / tenderer submitting the bid/tender. EMD made/ issued from the account other than that of the bidder/ tenderer submitting the bid, shall not be accepted.** The original EMD should be deposited either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission. The EMD receiving Executive Engineer shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format (enclosed) uploaded by tender inviting EE in the NIT.

This receipt shall also be uploaded to the e-tendering website by the intending bidder up to the specified bid submission date and time.

Apart of earnest money is acceptable in the form of bank guarantee also. In such case, minimum 50% of earnest money or Rs.20 Lakh, whichever is less, shall have to be deposited in shape prescribed above, and balance may be deposited in shape of Bank Guarantee of any scheduled Bank having validity for six months or more from the last date of receipt of bids which is to be scanned and uploaded by the intending bidders.

Copy of Enlistment Order / Certificate of work experience / other documents as specified in the press notice shall be scanned and uploaded to the e-tendering website within the period of bid submission. However, certified copy of all the scanned and uploaded documents as specified in press notice shall have to be submitted by the lowest bidder only within a week physically in the office of tender opening authority.

Online bid documents submitted by intending bidders shall be opened only of those bidders, whose EMD deposited with any division office of CPWD and other documents scanned and uploaded are found in order.

The bid submitted shall be opened at 15:30 Hrs on **31/10/2026**.

10. The bid submitted shall become invalid if;
- i) The bidder is found ineligible.
 - ii) The bidder does not deposit original EMD with division office of any Executive Engineer, CPWD.

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iii) The bidder does not upload all the documents (including GST registration / undertaking as applicable) as stipulated in the bid document including the copy of receipt for deposition of original EMD.

iv) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest tenderer in the office of tender opening authority.

11. The Contractor, whose bid is accepted, will be required to furnish performance guarantee of **i) 5% of tendered value or Estimated Cost Put to Tender (ECPT) (whichever is higher). (ii) Where the tendered amount is less than eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the requirement under (i) above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered amount** within the period specified in Schedule "F". This guarantee shall be in the form of cash (in case guarantee amount is less than Rs.10000/-) or Deposit at Call receipt of any scheduled bank/ Banker's Cheque of any scheduled bank/ Demand Draft of any scheduled bank/ Pay order of any Scheduled Bank of any scheduled bank (incase guarantee amount is less than Rs.1,00,000/-) or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule, "F" including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The earnest money deposited along with bid shall be returned after receiving the aforesaid performance guarantee. The contractor whose bid is accepted will also be required to furnish either copy of applicable license/ registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board and Programme Chart (Time and Progress) within the period specified in Schedule F.

12. The description of the work is as follows:

" SITC of 1000 LPH RO plant on the Terrace of Basheer hostel at EFLU, Hyderabad."

Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidders shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by a bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.

13. The competent authority on behalf of the President of India does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of

the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidders shall be summarily rejected.

14. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable to rejected.
15. The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the bid and the bidders shall be bound to perform the same at the rate quoted.
16. The contractor shall not be permitted to bid for works in the CPWD Circle (Division in case of contractors of Horticulture /Nursery category) responsible for award and execution of contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazetted officer in the Central Public Works Department or in the Ministry of Urban Development. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
17. No Engineer of Gazetted rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the prior permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor's service.
18. The bid for the works shall remain open for acceptance for a period of **30 Days (Thirty Days)** from the date of opening of bid.

Further

- i) If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department within 7 days after last date of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 50% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.
- ii) If any tenderer withdraws his tender or makes any modification in the terms and conditions of the tender which is not acceptable to the department after expiry of 7 days after last date of submission of bids, then the Government shall be without prejudice to any other right or remedy, be at liberty to forfeit 100% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.
- iii) In case of forfeiture of earnest money as prescribed in para (i) and (ii) above, the bidders shall not be allowed to participate in the rebidding process of the same work.

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19. This notice inviting bid shall form a part of the contract document. The successful bidder/contractors, on acceptance of his bid by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of:
- a) The Notice Inviting Bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the Bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
 - b) Standard C.P.W.D. Form 7 or other Standard C.P.W.D. Form as applicable.

Executive Engineer (E)-II-HYD
CPWD, Hyderabad

C.P.W.D.- 7

GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

STATE: - Telangana.
 BRANCH: - E & M

ZONE :- Hyd-Region
 DIVISION :- EE(E)-II-HYD

Percentage Rate Tender & Contract for Works

(A) Tender for the work of :-

Name of Work :- **SITC of 1000 LPH RO plant on the Terrace of Basheer hostel at EFLU, Hyderabad.**

To be submitted online up to 15:00 Hrs on **31/10/2026**.

To be opened online in the presence of tenderers who may be present at 15:30 Hrs on **31/10/2026**. in the office of the Executive Engineer (E)-II-HYD, CPWD, Hyderabad.

Issued to Tender document made available Online

Signature of the Officer issuing the documents.

Designation: Executive Engineer (E)-II-HYD, CPWD, Hyderabad.

Date of issue **23/10/2026**. As per INFORMATION AND INSTRUCTIONS FOR BIDDERS

T E N D E R

I/We have read and examined the notice inviting tender, schedule, A, B, C, D, E & F. Specifications applicable. Drawings & Designs, General Rules and Directions, Conditions of Contract, clause of contract, Special conditions, Schedule of Rate & other documents and Rules referred to in the conditions of contract and all other contents in the tender documents for the work.

I/We hereby tender for the execution of the work specified for the President of India within the time specified in Schedule "F", viz., schedule of quantities and in accordance in all respects with the specifications, designs, drawings and instructions in writing referred to in Rule-1 of General Rules and Directions and in Clause 11 of the Conditions of contract and with such materials as are provided for, by, and in respects in accordance with, such conditions so far as applicable.

I/We agree to keep the bid open for **30 Days** from the date of opening of bid and not to make any modifications in its terms and conditions.

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A sum of Rs.18,214/- is here by forwarded in Receipt Treasury Challan/Deposit at call Receipt of a Scheduled Bank/fixed deposit receipt of schedule bank/demand draft of a Scheduled bank / Bank Guarantee issued by a schedule bank, as earnest money. If I/we, fail to furnish the prescribed performance guarantee within prescribed period. I/we agree that the said President of India 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 President of India or his successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said earnest money and the performance guarantee absolutely, otherwise the said earnest money shall be retained by him towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein and to carry out such deviations as may be ordered, up to maximum of the percentage mentioned in schedule "F" and those in excess of that limit at the rates to be determined in accordance with the provision contained in clause 12.2 and 12.3 of the tender form. Further I/we agree that in case of forfeiture of Earnest money or both earnest money & Performance Guarantee as aforesaid, I/we shall be debarred for participation in the re-tendering process of the work.

I/We 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 CPWD 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 there from to any person other than a person to whom I/We am/are authorized to communicate the same or use the information in any manner prejudicial to the safety of the State.

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

Dated.....

Signature of Contractor

Postal Address #

Witness : #

Address: #

Occupation : #

Ins NIL Ovw NIL Cor NIL

AE(E) (P)

ACCEPTANCE

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for and on behalf of the President of India for a sum of Rs. * _____
(Rupees* _____)

The letters referred to below shall form part of this contract Agreement: -

- i) *
- ii) *
- iii)*

For & on behalf of the President of India.

Signature

Dated *.....

Designation

Ins NIL Ovw NIL Cor NIL

AE(E) (P)

SCHEDULES FOR WORKS

SCHEDULE “A” Schedule of quantities (Enclosed)

SCHEDULE “B” Schedule of materials to be issued to the contractor.

S.No.	Description of item	Quantity	Rates in figures & words at which the Place of material will be charged to the contractor	Issue
1	2	3	4	5
-----NIL-----				

SCHEDULE “C”

Tools and plants to be hired to the contractor

Sl. No.	Description	Hire charges per day	Place of issue
1	2	3	4
-----NIL-----			

SCHEDULE “D”

General conditions and requirements /documents for the work, if any, specification of work, if any etc.

As attached.

SCHEDULE “E”

1.Reference to General Conditions of contract. General Conditions of Contract-2023 Construction Works for CPWD amended up to the last date of submission of online tender.

Name of Work: **SITC of 1000 LPH RO plant on the Terrace of Basheer hostel at EFLU, Hyderabad.**

(b) Estimated cost of work:	Rs.9,10,684/-
(c) Earnest money:	Rs.18,214/-
	i)5% of tendered value or Estimated Cost Put to Tender (ECPT) (whichever is higher). (ii) Where the tendered amount is less than eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the requirement under (i) above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered amount.
(d) Performance guarantee:	
(e) Security Deposit:	2.5% of tendered amount.

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SCHEDULE „F“

General Rules & Directions: General Conditions of Contract-2023 Construction Work for CPWD with up to date amendments (As on Date of opening of price bid) shall be read with NIT.

Officer inviting tender **Executive Engineer (E)-II-HYD/CPWD/ Hyderabad.**

Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3. **100%**

Definitions:

2(v) Engineer-in-Charge **Executive Engineer (E)-II-HYD CPWD, Hyderabad.**

2(viii) Accepting Authority **Executive Engineer (E)-II-HYD CPWD Hyderabad.**

2(x) Percentage on cost of materials and labour to cover all overheads and profits. **15%**

2(xi) Standard schedule of Rates: **DSR 2025 (E& M) and Market rates**

2(xii) Department: **Central Public Works Department**

9(ii) Standard CPWD contract form: **CPWD form 7/8 as modified and corrected up to last date of receipt of bid**

Amendments up to last date of submission of online tender shall be read with NIT

Clause1

(i) Time allowed for submission of Performance Guarantee Programme Chart (Time and Progress) and applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including provident fund code No if applicable or Proof of applying thereof from the date of issue of letter of acceptance.

7 Days

(ii) Maximum allowable extension with late fee @ 0.1% per day of Performance Guarantee amount beyond the period provided in (i) above

3 Days**Clause 2**

Authority for fixing compensation under clause 2

Chief Engineer-Hyderabad CPWD, Hyderabad.

Whether Clause 2A shall be applicable.

No

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Clause 5

Number of days from the date of issue
of letter of acceptance for reckoning date of start. **7 Days**

Table of Milestones:

S. N O.	Description of Milestone (Physical)	Time allowed in days (from the date of start)	Amount to be with held in case of non-achievement of milestone. (% of tendered amount of respective Electrical component)
1	Submission of drawings & data sheets for approval.	07 days	1%
2	Supply of IEI & RO Plant equipments	40 days	2%
3	Installation of RO Plant, Testing, commissioning & Handing over	60 Days	2%

Time allowed for execution of work

60 Days,

Authority to reschedule Milestones

**Executive Engineer (E)-II-
Hyd, CPWD, Hyderabad**

Authority to give fair and reasonable extension
of time for completion of work.

**Executive Engineer (E)-II
(Hyd) CPWD, Hyderabad**

Clause 6

Clause applicable

**CMB/EMB (Electronic
Measurement Book) Through
ERP (As per circular DG/CON-
Maintenance 2020/338,
Dt:13//04/2023)**

Clause 7

Gross work to be done together with net payment/.
adjustment of advances for material collected, if any,
since the last such payment for being eligible to
interim payment

**5.00 Lakhs or mutually
agreed by both parties**

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Clause 10 B(ii)- Whether Clause 10 B(ii) shall be applicable: **No**

Clause 10CA - Whether clause 10CA shall be applicable **N.A.**

Clause 10C - Whether clause 10C shall be applicable **N.A.**

Materials covered under this clause	Nearest Materials (other than cement, reinforcement bars and structural steel) for which All India Wholesale Price Index to be Followed	Base Price of all the materials covered under clause 10CA*
-----Not applicable-----		

Clause 10CC- Clause 10CC to be applicable in contracts with stipulated period of completion exceeding the period shown in the next column. **N.A.**

Schedule of component of other Materials, Labour, POL etc. for price escalation.

Component of Civil - Xm.....% **85%**
(Except material covered under clause 10CA)
 Electrical construction materials expressed as percent of total value of work

Component of Labour expressed as percent of total value of work Y.....% **15%**

Component of POL expressed as percent of total value of work Z.....% **NIL**

Specifications to be followed:

C.P.W.D. General Specification as amended upto date, Additional Conditions, General Conditions of Contract and Technical Specifications

Clause 12

Type of work:-

Construction

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12.2 & 12.3 Deviation limit beyond which clause 12.2 & 12.3 shall apply for electrical work & cabling. **100%**

12.5 Deviation limit beyond which clause 12.2 & 12.3 shall apply for foundation work. **N.A**

Clause 16

Competent Authority for deciding reduced rates. **Chief Engineer -Hyderabad
CPWD, Hyderabad.**

Clause 18

List of mandatory machinery, tools & plants to be deployed by the contractor at site:
As required for timely execution of work.

Clause-25 :

- (i) Conciliator : Additional Director General, Region-I-Hyderabad,
- (ii) Arbitrator Appointing Authority : Chief Engineer - Hyderabad, CPWD, Hyderabad.
- (iii) Place of arbitration : Hyderabad

Clause 32:

Requirement of Technical Representative(s) and Recovery Rate

Sl.No.	Minimum Qualification of Technical Representative	Discipline	Designation (Principal Technical / Technical Representative)	Minimum Experience	Number	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause 32	
						Figures	Words
1	Graduate Engineer Or Diploma Engineer	E&M	Principal / Technical Representative	2 years 5 years	1 (One)	15000/-	Fifteen thousand only

NOTE:.

Assistant Engineers retired from Government services that are holding Diploma will be treated at par with Graduate Engineers Diploma Holder with minimum 10 years relevant experience with a reputed construction company can be treated at par with graduate Engineers for the purpose of such deployment subject to the condition that such diploma holders should not exceed 50 % of requirement of degree Engineers.

Clause 42

- (i) Schedule/Statement for determining theoretical: Not Applicable
quantity of cement and bitumen on the basis of
Delhi schedule of Rate 2021 printed by
C.P.W.D.
- (ii) Variations permissible on theoretical quantities
 - a) Cement for works with estimated cost put to : Not Applicable
bid not more than Rs.5Lakh.
 - b) Bitumen for all works : Not Applicable
 - c) Steel Reinforcement and structural steel : Not Applicable
sections for each diameter, section and
Category
 - d) All other material : Not Applicable

RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION

Sl. No.	Description of item	Rates in figures and words at which recovery shall be made from the Contractor	
		Excess beyond Permissible Variation	Less use beyond the Permissible Variation
.....Not Applicable.....			

INTEGRITY PACT

To,

.....,

Sub: NIT No. **124/EE(E)-II-HYD/2026-27**

Name of Work: **SITC of 1000 LPH RO plant on the Terrace of
 Basheer hostel at EFLU, Hyderabad.**

Dear Sir,

It is hereby declared that CPWD is committed to follow the principle of transparency, equity and competitiveness in public procurement.

The subject Notice Inviting Tender (NIT) is an invitation to offer made on the condition that the Bidder will sign the integrity Agreement, which is an integral part of tender /bid documents, failing which the tenderer /bidder will stand disqualified from the tendering process and the bid of the bidder would be summarily rejected.

This declaration shall form part and parcel of the Integrity Agreement and signing of the same shall be deemed as acceptance and signing of the Integrity Agreement on behalf of the CPWD.

Yours faithfully

Executive Engineer (E)-II-HYD,
 CPWD, Hyderabad

Ins NIL Ovw NIL Cor NIL

AE(E) (P)

INTEGRITY PACT

To,

Executive Engineer (E)-II-HYD
CPWD, Hyderabad-500095

Sub: Submission of Tender for the Work: **SITC of 1000 LPH RO plant on the Terrace of Basheer hostel at EFLU, Hyderabad.**

Dear Sir,

I/We acknowledge that CPWD is committed to follow the principles thereof as enumerated in the Integrity Agreement enclosed with the tender/ bid document.

I/We agree that the Notice Inviting Tender(NIT) is an invitation to offer made on the condition that I/We will sign the enclosed integrity Agreement, which is an integral part of tender documents, failing which I/ We will stand disqualified from the tendering process. I/We acknowledge that THE MAKING OF THE BID SHALL BE REGARDED AS AN UNCONDITIONAL AND ABSOLUTE ACCEPTANCE of this condition of the NIT.

I/We confirm acceptance and compliance with the Integrity Agreement in letter and spirit and further agree that execution of the said Integrity Agreement shall be separate and distinct from the main contract, which will come into existence when tender/ bid is finally accepted by CPWD. I/We acknowledge and accept the duration of the Integrity Agreement, which shall be in the line with Article1of the enclosed Integrity Agreement.

I/We acknowledge that in the event of my/ our failure to sign and accept the Integrity Agreement, while submitting the tender/ bid, CPWD shall have unqualified, absolute and unfettered right to disqualify the tenderer/ bidder and reject the tender/ bid in accordance with terms and conditions of the tender /bid.

Yours faithfully

(Duly authorized signatory of the Bidder)

Ins NIL Ovw NIL Cor NIL

AE(E) (P)

INTEGRITY AGREEMENT

This Integrity Agreement is made at.....on this.....day of...2026

BETWEEN

President of India represented through **Executive Engineer (E)-II-HYD**, (Name of Division)
CPWD, Hyderabad-500095..... (Hereinafter referred as the (Address
of Division)

„Principal/Owner“, which expression shall unless repugnant to the meaning or context
thereof include its success or sand permitted assigns)

AND

(Name and Address of the Individual/ firm/ Company)

through.....(Hereinafter referred to as
the (Details of duly authorized signatory) “Bidder/Contractor” and which expression shall
unless repugnant to the meaning or context hereof include its successors and permitted
assigns)

Preamble

WHEREAS the Principal/ Owner has floated the Tender (NIT No. **.../EE(E)-II-Hyd/2026-27** (hereinafter referred to as “Tender/ Bid”) and intends to award, under laid down
organizational procedure, contract for

(Name of work)

**(SITC of 1000 LPH RO plant on the Terrace of Basheer hostel at EFLU,
Hyderabad.)**

Hereinafter referred to as the “Contract”.

ANDWHEREAS the Principal/ Owner values full compliance with all relevant laws of the
land, rules, regulations, economic use of resources and of fairness/ transparency in its
relation with its Bidder(s) and Contractor(s).

ANDWHEREAS to meet the purpose aforesaid both the parties have agreed to enter into
this Integrity Agreement (hereinafter referred to as “Integrity Pact” or“Pact”), the terms
and conditions of which shall also be read as integral part and parcel of the Tender/ Bid
documents and Contract between the parties.

NOW, Therefore, in consideration of mutual covenants contained in this Pact, the
parties here by agree as follows and this Pact witnesses as under:

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Article1: Commitment of the Principal/Owner

- 1) The Principal/Owner commits itself to take all measures necessary to Prevent corruption and to observe the following principles:
 - (a) No employee of the Principal/Owner, personally or through any of his/ her family members, will in connection with the Tender, or the execution of the Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
 - (b) The Principal/Owner will, during the Tender process, treat all Bidder(s) with equity and reason. The Principal/Owner will, in particular, before and during the Tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/ additional information through which the Bidder(s) could obtain an advantage in relation to the Tender processor the Contract execution.
 - (c) The Principal/Owner shall endeavor to exclude from the Tender process any person, whose conduct in the past has been of biased nature.
- 2) If the Principal/Owner obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal code (IPC)/ Prevention of Corruption Act,1988 (PC Act) or is in violation of the principles here in mentioned or if there be a substantive suspicion in this regard, the Principal/Owner will inform the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

Article2: Commitment of the Bidder(s)/ Contractor(s)

- 1) It is required that each Bidder/ Contractor (including their respective officers, employees and agents) adhere to the high esthetical standards, and report to the Government/ Department all suspected acts of fraud or corruption or Coercion or Collusion of which it has knowledge or becomes aware, during the tendering process and throughout the negotiation or award of a contract.
- 2) The Bidder(s)/ Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution:
 - a) The Bidder(s)/ Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal/ Owner"s employees involved in the Tender process or execution of the Contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the Tender process or during the execution of the Contract.
 - b) The Bidder(s)/ Contractor(s) will not enter with other Bidder(s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitive or to cartelize in the bidding process. Competitiveness or to cartelize in the bidding process.

- c) The Bidder(s)/ Contractor(s) will not commit any offence under the relevant IPC/PC Act. Further the Bidder(s)/ Contractor(s) will not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Principal/ Owner as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
- d) The Bidder(s)/ Contractor(s) of foreign origin shall disclose the names and addresses of agents/ representatives in India, if any. Similarly Bidder(s)/ Contractor(s) of Indian Nationality shall disclose names and addresses of foreign agents/ representatives, if any. Either the Indian agent on behalf of the foreign principal or the foreign principal directly could bid in a tender but not both. Further, in cases where an agent participate in a tender on behalf of one manufacturer, he shall not be allowed to quote on behalf of another manufacturer along with the first manufacturer in a subsequent/ parallel tender for the same item.
- e) The Bidder(s)/ Contractor(s) will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract.
- 3) The Bidder(s)/ Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- 4) The Bidder(s)/ Contractor(s) will not, directly or through any other person or firm indulge in fraudulent practice means a willful misrepresentation or omission of facts or submission of fake/ forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/ or to influence the procurement process to the detriment of the Government interests.
- 5) The Bidder(s)/ Contractor(s) will not, directly or through any other person or firm use Coercive Practices (means the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may be fall upon a person,his/ her reputation or property to influence their participation in the tendering process).

Article 3: Consequences of Breach

Without prejudice to any rights that may be available to the Principal/ Owner under law or the Contractor its established policies and laid down procedures, the Principal/ Owner shall have the following rights in case of breach of this Integrity Pact by the Bidder(s)/ Contractor(s) and the Bidder/ Contractor accepts and undertakes to respect and uphold the Principal/ Owner"s absolute right:

- 1) If the Bidder(s)/ Contractor(s), either before award or during execution of Contract has committed a transgression through a violation of Article 2 above or in any other form, such as to put his reliability or credibility in question, the Principal/ Owner after giving 14 day"s notice to the contractor shall have powers to disqualify the Bidder(s)/ Contractor(s) from the Tender process or terminate/ determine the Contract, if already executed or exclude the Bidder/ Contractor from future contract award

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processes. The imposition and duration of the exclusion will be determined by the severity of transgression and determined by the Principal/ Owner. Such exclusion may be forever or for a limited period as decided by the Principal/Owner.

- 2) Forfeiture of EMD/ Performance Guarantee/ Security Deposit: If the Principal/ Owner has disqualified the Bidder(s) from the Tender process prior to the award of the Contractor terminated/ determined the Contractor has accrued the right to terminate/ determine the Contract according to Article3(1), the Principal/ Owner apart from exercising any legal rights that may have accrued to the Principal /Owner, may in its considered opinion forfeit the entire amount of Earnest Money Deposit, Performance Guarantee and Security Deposit of the Bidder/ Contractor.
- 3) Criminal Liability: If the Principal/Owner obtains knowledge of conduct of a Bidder or Contractor, or of an employee or a representative or an associate of a Bidder or Contractor which constitutes corruption within the meaning of IPC Act, or if the Principal/Owner has substantive suspicion in this regard, the Principal/Owner will inform the same to law enforcing agencies for further investigation.

Article 4: Previous Transgression

- 1) The Bidder declares that no previous transgressions occurred in the last 5 years with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the Tender process.
- 2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the Tender process or action can be taken for banning of business dealings/ holiday listing of the Bidder/Contractor as deemed fit by the Principal/ Owner.
- 3) If the Bidder/Contractor can prove that he has resorted / recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal/Owner may, at its own discretion, revoke the exclusion prematurely.

Article 5: Equal Treatment of all Bidders/Contractors/Subcontractors

- 1) The Bidder(s)/Contractor(s) undertake(s) to demand from all sub-contractors a commitment in conformity with this Integrity Pact. The Bidder/Contractor shall be responsible for any violation(s) of the principles laid down in this agreement/Pact by any of its Subcontractors/sub-vendors.
- 2) The Principal/Owner will enter into Pacts on identical terms as this one with all Bidders and Contractors.
- 3) The Principal/Owner will disqualify Bidders, who do not submit, the duly Signed Pact between the Principal/Owner and the bidder, along with the Tender or violate its provisions at any stage of the Tender process, from the Tender process.

Article 6-Duration of the Pact

This Pact begins when both the parties have legally signed it. It expires for the Contractor/Vendor 60 Days after the completion of work under the contract or till the continuation of defect liability period, whichever is more and for all other bidders, till the Contract has been awarded

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If any claim is made/lodged during the time, the same shall be binding and continue to be valid despite the lapse of this Pacts as specified above, unless it is discharged/determined by the Competent Authority, CPWD.

Article 7-Other Provisions

- 1) This Pact is subject to Indian Law, place of performance and Jurisdiction is the Headquarters of the Division of the Principal/Owner, who has floated the Tender.
- 2) Changes and supplements need to be made in writing. Side agreements have not been made.
- 3) If the Contractor is a partnership or a consortium, this Pact must be signed by all the partners or by one or more partner holding power of attorney signed by all partners and consortium members. In case of a Company, the Pact must be signed by a representative duly authorized by board resolution.
- 4) Should one or several provisions of this Pact turnout to be in valid;the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intensions.
- 5) It is agreed term and condition that any dispute or difference arising between the parties with regard to the terms of this Integrity Agreement / Pact, any action taken by the Owner/Principal in accordance with this Integrity Agreement/ Pact or interpretation thereof shall not be subject to arbitration.

Article 8-LEGAL AND PRIOR RIGHTS

All rights and remedies of the parties hereto shall be in addition to all the other legal rights and remedies belonging to such parties under the Contract and/or law and the same shall be deemed to be cumulative and not alternative to such legal rights and remedies aforesaid. For the sake of brevity, both the Parties agree that this Integrity Pact will have precedence over the Tender/Contact documents with regard any of the provisions covered under this Integrity Pact.

IN WITNESS WHERE OF the parties have signed and executed this Integrity Pact at the place and date first above mentioned in the presence of following witnesses:

(For and on behalf of Principal/ Owner)

Executive Engineer (E)-II-HYD
CPWD, Hyderabad

(For and on behalf of Bidder/ Contractor)

WITNESSES:

1.
(signature, name and address)

2.
(signature, name and address)

Place:

Dated:

Ins NIL Ovw NIL Cor NIL

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FORM OF EARNEST MONEY (BANK GUARANTEE)

WHEREAS, contractor.....(Name of contractor) (Hereinafter called "the Contractor") has submitted his tender dated.....(Date) for the work".....(Name of Work) (Hereinafter called "the Tender").

KNOW ALL PEOPLE by these presents that

we.....(Name of bank) having our registered office at.....(Hereinafter called "the Bank") are bound to

.....(Name and division of Executive Engineer) (Hereinafter called "the Engineer-in-charge") for the sum of Rs.(Rs. in words)only for which payment, well and truly, to be made to the said Engineer-in-Charge, the Bank binds itself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this.....day

of.....20....THE CONDITIONS of this obligation are:

- (1) If after tender opening the Contractor withdraws, his tender during the period of validity of tender (including extended validity of tender) specified in the Form of Tender;
- (2) If the contractor having been notified of the acceptance of his tender by the Engineer-in-Charge:
 - (a) Fails or refuses to execute the Form of Agreement in accordance with the Instructions to contractor, if required;
 - OR
 - (b) Fails or refuses to furnish the Performance Guarantee, in accordance with the provisions of tender document and Instructions to contractor,

We undertake to pay to the Engineer-in-Charge either up to the above amount or part there of upon receipt of the first written demand, without the Engineer-in-Charge having to substantiates his demand, provided that in his demand the Engineer-in-Charge will note that the amount claimed by his is due to him owing to the occurrence of one or any of the above conditions, specifying the occurred condition or conditions.

The Guarantee will remain in force upto and including the date*.....after the dead line for submission of tender as such deadline is stated in the Instructions to contractor or as it may extended by the Engineer-in-Charge, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

DATE.....

SIGNATURE OF THE BANK

WITNESS.....

SEAL

(SIGNATURE, NAME AND ADDRESS)

*Date to be worked out on the basis of validity period of 7 months from last date or receipt of tender.

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FORMAT OF RECEIPT OF DEPOSITION OF ORIGINAL EMD

RECEIPT OF DEPOSITION OF ORIGINAL EMD

(RECEIPT NO...../DATE.....) #

NAME OF WORK: **SITC of 1000 LPH RO plant on the Terrace of Basheer hostel at EFLU, Hyderabad.**

2. NIT No. **124/EE(E)-II-HYD/2026-27**

3. ESTIMATED COST: **Rs.9,10,684/-**

4. AMOUNT OF EARNEST MONEY DEPOSIT: **Rs.18,214/-**

5. LAST DATE OF SUBMISSION OF BID – up to 15:00 Hrs on **31/10/2026.**

1. NAME OF CONTRACTOR.....#

2. FORM OF EMD.....#

3. AMOUNT OF EARNEST MONEY DEPOSIT.....#

4. DATE OF SUBMISSION OF EMD.....#

5. Email ID of EMD receiving officer#

6. Office phone / Contact number#

Signature, Name and Designation of EMD
Receiving officer (EE/AAO)
Along with Office Stamp

(# To be filled by EMD receiving EE)

Ins NIL Ovw NIL Cor NIL

AE(E) (P)

FORM OF PERFORMANCE SECURITY (GUARANTEE) BANK GUARANTEE BOND

In consideration of the President of India (hereinafter called "the Government") having offered to accept the terms and conditions of the proposed agreement between.....and..... (Herein after called "the said contractor(s)" for the work..... (Herein after called "the said agreement") having agreed to production of an irrevocable Bank Guarantee for Rs.....Rupees.....only) as a security/ guarantee from the contractor(s) for compliance of his obligations in accordance with the terms and conditions in the said agreement.

1. We.....(*Indicate the name of Bank*).....(Hereinafter referred to as "Bank") hereby undertake to pay to the Government an amount not exceeding Rs.....(Rupees.....)only, on demand by the Government.
2. We.....(*indicate the name of Bank*) do hereby undertake to pay the amounts due and payable under this Guarantee without any demure, merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor(s). Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs.....(Rs.....)only.
3. We, the said bank, further undertake to pay the Government any money so demand not withstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the contractor(s) shall have no claim against us for making such payment.
4. We..... (*indicate the name of the Bank*) further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of the Government under or by virtue of the said Agreement have been fully paid and its claim satisfied or discharged or till Engineer-in-Charge on behalf of the Government certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said contractor(s) accordingly discharges this guarantee.
5. We.....(*indicate the name of Bank*) further agree with the Government that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Agreement or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor(s) and to forebear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said contractor(s) or for any forbearance, act of omission on the part of the Government or any indulgence by the Government to the said contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us

Ins NIL Ovw NIL Cor NIL

AE(E) (P)

6. This guarantee will not be discharged due to the change in the constitution of the Bank or the contractor(s).
7. We..... (Indicate the name of bank) lastly undertake not to revoke this guarantee except with the previous consent of the Government in writing.
8. This guarantee shall be valid upto.....unless extended on demand by Government. Notwithstanding anything mentioned above, our liability against this Guarantee is restricted to Rs.....(Rupees.....)only and unless a claim in writing is lodged with us within six months of the date of expiry or the extended date of expiry of this guarantee, all our liabilities under this guarantee, shall stand discharged.

Dated, the.....Day of.....For.....(Indicate the name of the Bank)

Note:-Performance guarantee shall be valid upto three months after the time period allowed for the work.

Ins NIL Ovw NIL Cor NIL

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MEMORANDUM OF UNDERSTANDING [M.O.U] BETWEEN

1] M/S [Name of the firm with full
address] Enlistment Status
Valid Upto:

[Henceforth called the main contractor]

And

2] M/S [Name of the firm with full
address] Enlistment Status
Valid Upto:

[Henceforth, called Associated Electrical Contractor or Electrical Contractor]

For the execution of Electrical Work **“SITC of 1000 LPH RO plant on the Terrace of Basheer hostel at EFLU, Hyderabad.” [Electrical Component only] as per schedule, specifications, terms and conditions of the tender.**

We state that M.O.U between us will be treated as an agreement and has legality as per Indian Contract Act [amended upto date] and the department [CPWD] can enforce all the terms and conditions of the agreement for execution of the above work. Both of us shall be responsible for the execution of work as per the agreement to the extent this MOU allows. Both the parties shall be paid consequent to the execution as per agreement to the extent this MOU permits. In case of any dispute, either of us will go for mediation by the EE(E)-Hyderabad-II, CPWD, Hyderabad. Any of us may appeal against the mediation to the Chief Engineer-Hyderabad, CPWD, Hyderabad. His decision shall be final and binding on both of us.

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We have agreed as under:

- 1]The electrical contractor will execute all electrical works in the wholesome manner as per terms and conditions of the agreement. .
- 2]The electrical contractor shall be liable for disciplinary action if he fails to discharge the action[s] and other legal action as per agreement
- 3]All the machinery and equipments, tools and tackles required for execution of the electrical works, as per agreement, shall be the responsibility of the electrical contractor.
- 4]The site staff required for the electrical work shall be arranged by the electrical contractor as per terms and conditions of the agreement.
- 5]Site order book maintained for the said work shall be signed by the main contractor as well as by the Engineer of the Associated Contractor and by Associated Contractor himself.
- 6]All the correspondence regarding execution of the electrical work shall be done by the Department with the Associated Contractor with a copy to the main contractor. In case of non-compliance of the provisions of agreement, the main contractor, as well as the associated contractor shall be responsible. The action under clauses 2 and 3 shall be initiated and taken against the main contractor.

SIGNATURE OF MAIN CONTRACTOR

SIGNATURE OF ASSOCIATED
ELECTRICAL CONTRACTOR.

Date:

Date

Place

Place:

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Form -G**CONSENT LETTER FROM ELIGIBLE ASSOCIATE AGENCY OF MINOR
COMPONENT OF WORK****NAME OF WORK: SITC of 1000 LPH RO plant on the Terrace of Basheer
hostel at EFLU, Hyderabad.**

Agreement No:-

1. I / We hereby give my consent to associate with M/s, for
executing the minor component of work of..... (Mention category).
2. I / We will execute the work as per specifications and conditions of the agreement
and as per directions of the Engineer –in-Charge for the corresponding minor work
till the completion of the work.
3. I / We will be responsible for necessary action to handover the installations and for
rectification of defects and repair during the maintenance / warranty period.
4. Also I / We will employ full time technically qualified Engineer / supervisor for the
minor component of the work as required for the work. I / We will attend inspection
of officers of the department as and when required.
5. Applicable for Internal EI Component:
 - (i) I/We will agree that I/we will obtain undertaking from LED manufacturers for
5 years warranty and submit to Engineer –in-charge.

Date:

Signature with date of Major component
ContractorSignature with date of Associate/Minor
Component Contractor

Address

Address

1. Witness with address

2. Witness with address

(From major component contractor side)

(From minor component contractor side)

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FORM –H

NAME OF WORK: SITC of 1000 LPH RO plant on the Terrace of Basheer hostel at EFLU, Hyderabad.

Agreement No:-

PROPOSAL FOR ELIGIBLE ASSOCIATING AGENCIES FOR MINOR COMPONENTS OF WORK

I/we hereby propose the following agencies as per mentioned against each for executing corresponding minor components of work. Their consent letter are also attached

Sl.No	Name of Associated Contractor	Category and class of registration	Enlistment copy/completion Certificates attached	Monetary Limit of work	Validity of registration	Consent letter attached (Yes/No)
a) SITC of RO Plant						
1						
2						

Note: Self Attested photocopies of enlistment order, valid electrical contractor license, annual pre-qualification order, work experience certificates of each agency for each component of E&M work shall be submitted.

Signature of contractor

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SPECIAL CONDITIONS

1. The main agency shall have to submit credential such as Verifiable completion certificate, self-attested GST registration of the proposed associated agencies for verification and approval of the department as per eligibility requirement mentioned in above within 7 days from the award of work. Consent letter of such selected agencies for association shall also be enclosed in the prescribed format. Main agency may propose upto three names of eligible associates
 - (i) After approval of associated agencies by EE(E), the main contractor will submit MOU signed with the associated contractors. The MOU in the enclosed form shall be signed by both the parties" i.e. main contractor as 1st party and associated Agency as 2nd party, independently for all associated components.
2. In the event of the concerned Associated Agency not performing satisfactorily or failure of associated contractor to complete the Associated works, the main contractor on written directions of the department, shall remove the Associated contractor deployed on the work and shall submit name of new associated contractor as per eligibility criteria mentioned in web notice to execute the left over work without any loss of time or variation in cost to the department. No change of Associated Contractor will be allowed without prior approval of the Engineer-in-charge of the work.
3. The main contractor shall be responsible and liable for proper and complete execution of the all works and ensure coordination and completion of all associated works.

// Contractor //

Executive Engineer (E)-II-HYD,

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GENERAL TERMS AND CONDITIONS APPLICABLE FOR ALL E&M COMPONENTS

1 GENERAL

- 1.1 The work shall be generally carried out in accordance with tender/bid specifications and the following specifications / rules.
- a) CPWD General Specifications for Electrical work Part VII DG Set – 2013, as amended upto date
 - b) CPWD General Specifications for Electrical work Part I Internal – 2023, as amended upto date
 - c) CPWD General Specifications for Electrical work Part II External - 2023, as amended upto date.
 - d) Commercial and Additional conditions for this work.
 - e) The Indian Electricity Act, 2003, as amended upto date
 - f) Indian Electricity Rules 1956 amended upto date

1.2 Order of Preference:

Should there be any difference or discrepancy between the description of items as given in the Schedule of Quantities, technical specifications for individual items of work (including additional and commercial conditions) and IS Codes etc., the following order of preference shall be followed:

- a) Schedule of quantities
- b) Commercial and Additional conditions for this work
- c) General Conditions of Contract for CPWD Works
- d) Drawings
- e) CPWD General Specifications
- f) Relevant IS or any other International code in case IS code is not available.

These Commercial and Additional conditions are to be read in conjunction with above and in case of variations; specifications given in these additional conditions shall apply. However, nothing extra shall be paid on account of these additional specifications and conditions, as the same are to be read along with schedule of quantities for the work.

- 1.3 This specification covers manufacture, testing as may be necessary before dispatch, delivery at site, all preparatory work, assembly and installation, commissioning putting into operation of equipment of all E&M components of the tender.
- 1.4 The tenderer should in his own interest visit the site and get familiarize with the site conditions before tendering.
- 1.5 No T & P shall be issued by the Department and nothing extra shall be paid on account of this.

2 COMMERCIAL CONDITIONS

- 2.1 Type of Contract: The work to be awarded by this tender shall be treated as indivisible works contract.

- 3 Income tax, GST, labour cess & other statutory deductions etc. shall be made at source as per the prevalent laws. The deductions of Security Deposit, Income-Tax etc. shall be done after calculation of the due payments and net payment shall be reduced accordingly.

4 RATES

- 4.1 The rates quoted by the tenderer, shall be firm and inclusive of all taxes (including GST & labour cess), duties levies, octroi etc. and all charges for packing forwarding, insurance, freight and delivery, installation, testing, commissioning etc. at site including temporary construction of storage, risks, over head charges, general liabilities/obligations and clearance from CEA.

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- 4.2 The department will not issue Octroi exemption certificate.
- 4.3 The contractor has to carry out maintenance as per manufacturer's standards for a period of 12 months from the date of handing over. Nothing extra shall be paid on this account.
- 4.4 In case the same item appears more than once in the schedule of work under the same sub head or among the different subhead of works, the lowest rate quoted for that item elsewhere shall be considered for other items also during evaluation of tender.

5 COMPLETENESS OF TENDER

All sundry equipment, fittings, unit assemblies, accessories, hardware items, foundation bolts, termination lugs for electrical connections, and all other items which are useful and necessary for efficient assembly and installation of equipment and components of the work shall be deemed to have been included in the tender irrespective of the fact whether such items are specifically mentioned in the tender documents or not.

6 STORAGE AND CUSTODY OF MATERIALS

The space, if available, may be used for storage of sundry materials and erection equipments or else the agency has to make his own arrangements. No separate storage accommodation shall be provided by the department. Watch and ward of the stores and theirsafe custody shall be the responsibility of the contractor till the final taking over of the installation by the department.

7 CARE OF THE BUILDING:

Care shall be taken by the contractor while handling and installing the various equipments and components of the work to avoid damage to the building. He shall be responsible for repairing all damages and restoring the same to their original finish at his cost. He shall also remove at his cost all unwanted and waste materials arising out of the installation from the site of work.

8 COMPLETION PERIOD

The completion period indicated in the tender documents is for the entire work of planning, designing, approval of drawings etc., arrangement of materials & equipments, delivery at site including transportation, installation, testing, commissioning and handing over of the entire system to the satisfaction of the Engineer-in-charge.

9 GUARANTEE

All equipments shall be guaranteed for a period of 12 months, from the date of taking over the installation by the department, against unsatisfactory performance and/or break down due to defective design, workmanship or material. The equipments or components, or any part thereof, so found defective during guarantee period shall be forthwith repaired or replaced free of cost, to the satisfaction of the Engineer-in Charge. In case it is felt by the department that undue delay is being caused by the contractor in doing this, the same will be got done by the department at the risk and cost of the contractor. The decision of the Engineer-in-charge in this regard shall be final & binding on the contractor.

9.2 The tenderer shall guarantee among other things, the following:

- a. Quality, strength and performance of the materials used as per manufacturers standards.
- b. Safe mechanical and electrical stress on all parts under all specified conditions of operation.
- c. Satisfactory operation during the maintenance period.

10 POWER SUPPLY:

The contractor has to make its own arrangement for power supply required for execution of the work.

11 WATER SUPPLY:

The contractor has to make its own arrangement for water supply required for execution of the work.

12 ACCEPTABLE MAKES OF VARIOUS EQUIPMENTS:

The acceptable makes of various equipments/components/accessories have been indicated in "Acceptable Makes" appended with the tender documents. The tenderer shall work out the cost of the offer on this basis. Alternate makes are not acceptable.

13 DATA MANUAL AND DRAWINGS TO BE FURNISHED BY THE TENDERER:

13.1 After award of work

The successful tenderer would be required to submit the following drawings after award of work for approval before commencement of installation.

- a) General arrangement drawing of all equipments of E&M components as per individual E&M component
- b) Details of foundations for the equipments and the weights of assembled equipments.
- c) Any other drawings necessary for the job.

14 The successful tenderer should furnish well in advance three copies of detailed instructions and manuals of manufacturers for all items of equipments regarding installation, adjustments operation and maintenance including preventive maintenance & trouble shooting together with all the relevant data sheets, spare parts catalogue etc. all in triplicate.

15 EXTENT OF WORK

15.1 The work shall comprise of entire labour including supervision and all materials necessary to make a complete installation and such tests and adjustments and commissioning, as may be required by the department. The term complete installation shall not only mean major items of the plant and equipments covered by specifications but all incidental sundry components necessary for complete execution and satisfactory performance of installation with all layout charts whether or not those have been mentioned in details in the tender document in connection with this contract as this is a turnkey job..

15.2 The cables and other items shall be brought at site after taking correct measurements

15.3 In addition to supply, installation, testing and commissioning, of all E&M equipment, following works shall be deemed to be included within the scope of work to be executed by the tenderer as this is a turnkey job.

- a) Minor building works necessary for installation of equipments, foundation, making of opening in walls or in floors and restoring them to their original condition finish and necessary grouting etc. as required.
- b) All necessary supports may be arranged.
- c) Testing of PTs/CTs for metering & protection purpose & relay calibration & setting.
- d) Getting CEA inspection done & obtaining approval for energizing the installation. However, necessary fees for inspection shall be borne by the Department.

16 Exclusion and work to be done by other agencies:
The following shall be excluded from the scope of the work:

- a) Major dismantling of any existing building work.
- b) Electricity supply in sub-station building.

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17 INSPECTION AND TESTING

- 17.1 All major equipments shall be offered for initial inspection at manufacturer's works. The contractor will intimate the date of testing of equipments at the manufacturer's works before dispatch. The successful tenderer shall give advance notice of minimum two weeks regarding the dates proposed for such tests to the department's representative to facilitate his presence during testing. The Engineer-in-charge or his representative may witness such testing. The cost of the Engineer's visit to the factory will be borne by the Department. Equipments will be inspected at the manufacturer/ Authorized Dealers premises, before dispatch to the site by the contractor if so desired by the Engineer-in-charge. Engineer-in-charge at his discretion may waive of inspection at factory /at the manufacturer's works before dispatch.
- 17.2 Copies of all documents of routine and type test certificates of the equipment, carried out at the Manufacturer's premises shall be furnished to the Engineer-in-charge and consignee.
- 17.3 After completion of the work in all respects the contractor shall offer the installation for testing and operation.

18 COMPLIANCE WITH REGULATIONS AND INDIAN STANDARDS:

- 18.1 All works shall be carried out in accordance with relevant regulation, both statutory and those specified by the Indian Standards related to the works covered by this specification. In particular, the equipment and installation will comply with the following:
- i) Factories Act.
 - ii) Indian Electricity Rules.
 - iii) B.I.S. & other standards as applicable.
 - iv) Workmen's compensation Act.
 - v) Statutory norms prescribed by local bodies like CEA, Power Supply Co., etc.
- 18.2 After completion of the installation, the same shall be offered for inspection by the representatives of the Central Electricity Authority. The contractor will extend all help including test facilities to the representatives of CEA. The observations of CEA will be attended by the contractor. The installation will be commissioned only after getting clearance from CEA.
- 18.3 Nothing in this specification shall be construed to relieve the successful tenderer of his responsibility for the design, manufacture and installation of the equipment with all accessories in accordance with currently applicable statutory regulations and safety codes.

19 INDEMNITY:

The successful tenderer shall at all times indemnify the department, consequent on this works contract. The successful tenderer shall be liable, in accordance with the Indian Law and Regulations for any accident occurring due to any cause and the contractor shall be responsible for any accident or damage incurred or claims arising there from during the period of erection, construction and putting into operation the equipments and ancillary equipment under the supervision of the successful tenderer in so far as the latter is responsible. The successful tenderer shall also provide all insurance including third party insurance as may be necessary to cover the risk. No extra payment would be made to the successful tenderer on account of the above.

20 ERECTION TOOLS:

No tools and tackles either for unloading or for shifting the equipments for erection purposes would be made available by the department. The successful tenderer shall make his own arrangement for all these facilities.

21 **COOPERATION WITH OTHER AGENCIES:**

The successful tenderer shall co-ordinate with other contractors and agencies engaged in the construction of buildings, if any, and exchange freely all technical information so as to make the execution of this work/contract smooth. No remuneration should be claimed from the department for such technical cooperation. If any unreasonable hindrance is caused to other agencies and any completed portion of the work has to be dismantled and re-done for want of cooperation and coordination by the tenderer during the course of work, such expenditure incurred will be recovered from the successful tenderer if the restoration work to the original condition or specification of the dismantled portion of the work was not undertaken by the tenderer himself.

22 The work will be carried out with least disturbance during shifting & shut down taken in consultation with the client department.

23 **INSURANCE AND STORAGE:**

All consignments are to be duly insured upto the destination from warehouse at the cost of the contractor. The insurance covers shall be valid till the equipment is handed over duly installed, tested and commissioned.

24 **VERIFICATION OF CORRECTNESS OF EQUIPMENT AT DESTINATION:**

The contractor shall have to produce all the relevant records to certify that the genuine equipments from the manufacturers has been supplied and erected.

25 **PAINTING:**

This shall include cost of painting of the entire installation. The major equipments like HT panel, transformers, L T panel, bus duct, cable trays etc. shall be factory final finish painted. The agency shall be required to do only touching to the damages caused to the painting during transportation, handling & installation at site, if there is no major damage to the painting. However hangers, supports etc. of bus trunking & cable tray etc. shall be painted with required shade including painting with two coats of anticorrosive primer paint at site.

26 **TRAINING:**

The scope of works includes the on job technical training of two persons of Department at site. Nothing extra shall be payable on this account.

27 **MAINTENANCE:**

27.1 Sufficient trained and experienced staff shall be made available to meet any exigency of work during the guarantee period of one year from the handing over of the installation.

The maintenance, routine as well as preventive, for one year from the date of taking over the installation as per manufacturer's recommendation shall be carried out as per OEM standards.

28. Approval of drawings makes and models of equipment/materials for all E&M components:

28.1 The agency shall submit drawings and details such as makes and models of the equipments/materials offered by him along with specifications for all E&M components to the Engineer-in-charge of the work, before ordering the equipment/materials for approval of the department.

28.2 The Engineer-in-charge shall scrutinize the proposal and approve the makes and models which are acceptable as per the schedule, specifications, conditions of the agreement and inform the agency for procurement. The approving authority shall be technical sanctioning authority of E&M component.

28.3 After approval of the equipment/materials by the department the agency shall procure the equipment/materials from the OEM/authorized distributor/dealer as the case may be:

29. Adequate care that only tested and genuine materials of proper quality are used in work shall be ensured by firm. The firm shall also ensure that:

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- i. Material will be ordered & delivered at site only with the prior approval of the department to ensure timely delivery.
- ii. As and when the order is placed for the fittings/ fixtures, cables, switchgears, poles, other main items etc, its copy shall be endorsed to the CPWD Engineer-in-charge.
- iii. The contractor will submit makes & brands of electrical fittings wires & cables, conduits and switchgears, rising mains, poles , outdoor fittings etc. of preferred make list as per tender documents for approval of Engineer-In-Charge whose decision will be final in the matter.
- iv. The firm will be required to procure material directly from the manufacturer/ authorized dealers to ensure genuineness & quality and as per the approved makes only. Proof in this regard shall be submitted by the contractor if required by the department.
- v. Inspection at factory or at godown, as required, shall be arranged by the firm for a mutually agreed date.
- vi. Delivery of material shall be taken up only with the consent of department, after clearance of the material.
- vii. Department shall reserve the right to waive inspection in lieu of suitable test certificate, at its discretion.
- viii. All the materials to be supplied by the contractor shall be procured & brought to site as per requirement at site of work in consultation with department so that these materials are not damaged & their manufacturer's warrantee is not lost.

30. Safety Codes & Statutory Regulations:

- a. Nothing in this specification shall be construed to relieve the successful tenderer of his responsibility for the design, manufacture and installation of the equipment with all accessories in accordance with currently applicable statutory regulations and safety codes.
- b. Successful tenderer shall arrange for compliance with statutory provisions of safety regulations and departmental requirements of safety codes in respect of labour employed on the work by the tenderer. Failure to provide such safety requirement would make the tenderer liable for penalty of Rs.1000/- for each default. In addition, the department will be at liberty to make arrangement for the safety requirements at the cost of tenderer and recover the cost thereof from him.

31. Terms of Payment

The following percentage of contract rates for various items included in the contract shall be payable against the stage of work shown herein

- i) 80% after initial inspection and delivery at site in good condition on pro-rata basis
- ii) 10% after completion of installation in all respects
- iii) Balance 10% will be paid after testing, commissioning trial run & handing over to the department for beneficial use

Executive Engineer (E)-II-HYD
CPWD, Hyderabad

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SPECIAL CONDITION FOR RO WORK

1. The successful bidder, on accord of work shall submit his execution plan including the scheme/layout of RO plant, proposed makes of E&M components as per the approved list of manufacturers specified in the tender document for approval of Engineer-in-Charge, before carrying out procurement, supply and installation of plant.
2. On completion and commissioning of RO plant the contractor shall submit Pre operation and maintenance manual, prescribing the steps/procedure/methodology to be adopted during defect liability period/comprehensive maintenance period.
3. General features:
 - a. The system shall remove dissolve solids as per conditions and item of work.
 - b. The system shall be better suited to handle deteriorating feed water quality than a DM plant.
 - c. The system shall be completely assembled, pre-piped, pre-wired and preferably skid mounted.
 - d. The system shall be equipped with Electrical panel/ MCB for plant protection and shall have integrated raw water pump with the unit.
 - e. The system shall have integrated pre-treatment modules for removal of suspended solids along with pressure gauge.
 - f. The system shall be capable of working 24hrs.x365 days by using the water provided through Bore well / Municipal water supply.
 - g. Recovery of water (i.e. component of treated water) shall be in range of 50%. If desired, the waste/ rejected water may be separately stored by using suitable pump. This water may be used for cleaning, gardening or toilet purpose.
4. The bidder shall ensure compatibility of all the makes of equipments mentioned in the preferred makes (Annexure-A), before selection of particular model and make of each item, for overall satisfactory performance of the Water Cooler cum Purifier as a whole.
5. The approved associate agency shall be required to arrange for design of Water Cooler Cum Purifier as per site condition relative to the BOQ and shall be got approved by the department.
6. The testing and commissioning of the Water Cooler Cum Purifier in total shall be carried out by the OEM/ authorized distributor of the OEM and certificate shall be issued

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7. Terms of payment Payment :shall be made on the basis of running account bill as per progress of execution of work. Stages of payment shall be as per following on prorata basis

:-

- i) Against supply of material received at site in good condition - 70%.
- ii) On completion of pro-rata installation - 15%.
- iii) On commissioning and completion of work - 10%.
- iv) After handing over along with all required documents - 5%.

8. **Agency will purchase the RO/Water cooler from OEM/Authorized dealer.**

9. **Guarantee/Warranty should be OEM condition.**

/ Contractor /

Executive Engineer (E)-II-Hyd

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ADDITIONAL CONDITIONS FOR RO SYSTEM:

1. RO SYSTEM

- i. Tenderer must inspect the site and the quality of raw water. He shall be at liberty to analyze the raw water characteristics from any Lab to his satisfaction and to examine and satisfying himself with the process and detail provided in tender document in obtaining treated water quality as specified in tender document no claim on whatsoever account regarding raw water characteristics and treated water parameters thereon shall be entertained.
 - ii. Contractor shall submit with the Tender, General Arrangement (GA) layout and hydraulic drawing of plant giving all major dimensions, design parameters, sizes of units and equipment and pipes, H.P. of motors and all other pertinent information for assessment of the tender. A brief writes up, describing the process adopted shall also be enclosed.
 - iii. Contractor shall submit with the Tender all the detailed specifications of proposed Electro-mechanical part of work described herein.
 - iv. The contractor shall arrange all T&P, Manpower, and chemicals/ consumables like RO antiscalant chemical, pH correction agent, chlorine, CEB & CIP chemicals, micro cartridge filters, reducing agents, POL etc. specified in the tender document for commissioning and maintaining the plant under warrantee period of 12 month. The cost on account of all arrangement during warranty as specified shall deemed to include under schedule of item of execution.. Nothing extra shall be payable on this account except quoted price. .
 - v. The proof checking of drawing shall be carried out by the department and the contractor shall be bound to agree to the contentions of department for any modifications/ revising the design, if/ any suggested. He shall have no claim on this account.
 - vi. The raw water characteristics have been indicated from the sample which got tested however the values can be different. The tenderer shall consider his quote considering the quality of treated water which ultimately required by the department on satisfactory installation of plant, complete with the prescribed technology and treatment process.
- 2 The main components in the scope of supplier shall be as under: RO System Components, Instrumentation & Controls

RO System	To be design with minimum recovery of 70% for all time from commissioning of plant to end of CMC period of 6 years.
Components	Instrumentation & Controls
Inlet Pump	Pressure Gauges
Anti Scalent Dosing System	Flow indicators
Fully Automatic Ultra filtration Unit	Liquid level controllers in storage
High Pressure Pump	Ball valves at inlet and outlet piping
Pressure Vessel	Timer for auto flash
Membrane	High pressure switch and low pressure switch
pH correction system	Auto flushing system with solenoid valve
Ultra Violet System	Electric control panel with “ A” meter, Voltmeter indicators, on off switch
Cleaning in place system	Pressure Control Valve
Micron cartridge filter	Digital conductivity or TDS Meter
Treated Water Tank	2000 ltrs
Piping from raw water tank to RO System	
Piping from RO System to product	

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Note: The R.O Plant should have control instrument i.e. flow meter for permeate and reject, pressure guage so that the department may able to visualize the rejection percentage of water.

RO System Requirements

3.1.1 The capacity of the plant shall be the output water capacity of RO in liters per hour (LPH).

The technical specifications of each component of RO system for its output capacity of 1000 LPH. The raw water quality characteristics are based upon the water testing result carried out by the department. However, the bidder is advised to analyze the water samples on their own before quoting their rates. No extra claim will be entertained after the allotment of the work on this account.

The output water quality characteristics are given. However, the total dissolved solids (TDS) of output water obtained from RO plant shall range between 100 to 250 mg per liter in any case. The other chemical parameters of Treated Water shall be within limits mentioned in this document.

The contractor shall design the R.O keeping in view recovery of treated water minimum 70% and shall provide the required digitized gauge so as to ascertain the percentage of treated and rejected water. In any case the rejected water should not be more than 30%. In the event if it is noticed that during running and operating of R.O. Plant the treated water recovery and quality is not in terms of NIT in such case the deptt shall forfeit the performance guarantee and can also claim damages on a/c of breach.

This offer should include all the possible expenses towards spares, replacement of membranes, consumables and repairing/ reconditioning if any required during the specified period of the six years.

The bidder would analyze the water sample for parameters as per BIS norms at least once in a month, may be from lab located at Head Quarters or some reputed lab & maintain proper record as per the directions of Engineer-in-charge. In addition to this the bidder shall make available at plant site, all the times, a digital TDS meter for on the spot testing of product water. However, the product water quality shall also be tested in the Laboratories of the Department or Department approved laboratories located at various places of the State & the report of chemical examination from these laboratories shall be treated as final.

The water quality must conform as per BIS standards. Water quality will be periodically evaluated maximum with an interval of three months and the system should perform consistently.

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The operation of tube well/ water source will be the responsibility of the department including payment of electricity bills and repairs if any. However maintenance of pipeline etc from point of connection onwards for RO plant etc would be responsibility of bidder during the period of 6 Years.

The system should be able to adopt the variable feed water characteristics such as varying amount of fine particulate / silt etc. in the raw water and varying TDS levels throughout the design

The use of cleaning chemicals in the system should be minimal.

The system should ensure prevention of fouling of the downstream RO membranes caused by the presence of organic and microbiological coolants in the raw water.

The system should ensure prevention of a majority of physical foul ants from entering into RO membranes so as to ensure clean RO membranes delivering consistent performance.

The system should generate minimal amount of effluents thus giving an environment-friendly solution.

The dependence on operator for day to day functioning should be minimal. The Bidders should provide semi-automated system along with specifications mentioned therein.

Making connection for raw water:-

The bidder shall be responsible for executing works for making connection for raw water from the source provided by the department including cost of all material and labour etc.

1. GENERAL REQUIREMENTS:

The bidder shall perform all routine maintenance to ensure proper operation.

The bidder will provide training to the system operator. The bidder shall ensure routine inspection of the equipment by the equipment supplier.

The bidder shall provide trained manpower to maintain the equipment, change filters, and refill chemical storage tanks. Maintaining the required uptime of all the systems to ensure the provisions of quality services.

The bidder will be responsible for the supply of consumables and chemicals, and any other material required essentially to provide effective services.

The bidder will install the equipment at the above maintained facility.

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2. OTHER REQUIREMENTS:

The record of treated water supplied shall be maintained by the bidder. The record should always be updated, legible and be produced for inspection as and when asked for.

Frequency of replacement of membrane shall invariably be mentioned in the offer. The minimum guaranteed period of membrane should not be less than 6 years and in case if the water quality is deteriorating and membrane is require to change before 6 year it shall be replaced by the bidders at his own cost .

Any deviation from the proposed design needs to be approved by the Department

3. TESTING AND INSPECTION

Pre dispatch inspection

All equipment covered under R.O. Plants may require pre dispatch inspection, if so required by the department during the course of execution. The pre- dispatch inspection may be carried out by Department or its accredited agencies/third party as approved by the department. The charges for third party inspection, if any, would be borne by the contractor

Wherever pre dispatch inspection is required, the bidder should produce all the Documentary evidences having procured and used new and quality components which go into the total system. These documents including guarantee/ warrantee / test certificate of the component manufacturer will be verified and authenticated by the inspection agencies. Such authenticated document should form a part of the

total document required for clearing the bill for payment as per the schedule of payment.

Tests for R.O. Plant system on commissioning

All equipment covered under R.O. Plant shall be subjected to inspection testing by Department on completion & commissioning.

Site tests

After erection at site, all components, equipment as described shall be tested to prove satisfactory performance and /or fulfillment of functional requirements without showing any sign of defect as individual equipment and as well as a system. All rotating components of the system as applicable shall run at the rated speed for a period of 7 (Seven) Days. During this period, all the components shall function smoothly without any undue deflection; unbalance vibration, flutter, slipping or sticky motion, excessive play & overheating at bearing parts, sparking etc.

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4. **PACKING, FORWARDING AND TRANSPORTATION**

All accessories which are likely to get damaged during transit if transported mounted on the equipment shall be removed adequately packed and shipped separately. All inlet and outlet flanges shall be blanked with thick bolted wooden planks. Packing shall be sturdy and adequate to protect all assemblies' components and accessories from injury by corrosion, dampness, heavy rains breakage and vibration encountered during transportation, handling and storage at the plant site.

5. **ERECTION AND COMMISSIONING (E & C)**

The Supplier shall be responsible for satisfying himself and the Department as to the correctness of the electrical and mechanical connections between all equipment in his supply. For all above work, the supplier shall furnish the required services of erection superintendent and other skilled and unskilled labour, erection tools, tackles and other required equipment. The supplier shall take these materials back after the erection is complete.

TREATMENT PROCESS SCHEME OF TREATMENT

1. Sand Bed Filter

Outlet of Iron removal filter shall be passed through Sand Bed for removal of suspended solids to produce clear filtrate.

2. Activated Carbon Filter

Filtered water after removal of iron and suspended solids shall be passed through Activated carbon filter to remove color, odor and residual oxidizing agent.

Operation of all the filtration units (viz. iron removal, sand bed and activated carbon filter) shall be on automatic mode for service and regeneration. Raw water pumps will operate automatically as per the requirement of water level in tanks.

b. pH Correction unit

Perfect pH of Membrane feed water not only ensures better performance of membranes also reduce the dose of costly anti-scalant chemical. Suitable chemical shall be dosed to maintain the appropriate LSI. pH shall be constantly checked and monitored.

c. Anti-scalant Dosing unit

To prevent scale formation and fouling of membranes, specified measured quantity of suitable sequestrine chemical shall be dosed in membrane feed water

The dosing pump shall be electronic metering type having proper arrangement of level controller and alarm for accurate and consistent dosing.

d. Fine Filtration unit

After dosing of required chemicals, water is passed through micron cartridges filtration unit of rating 5 microns to avoid the possibility any residual carry over in membranes.

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3. DESALINATION BY REVERSE OSMOSIS UNIT with post pH correction

Ultra Filtered and properly conditioned water shall be pumped to membranes at high pressure over osmotic level to separate the concentrate and dilute water stream. The membranes selected shall be energy efficient, high rejection type and will be designed on safe flux rate 13 GFD to produce purified water having TDS below 300 mg/L and pH neutral (7.0 - 7.5) after correction. The vendor shall guarantee that the RO system produces rated output on 75 % recovery and specified parameters (TDS, Total hardness, Total alkalinity, chlorides etc) shall not exceed the limit as specified in treated water table. Besides, it will conform to IS - 10500:1991 protocol of drinking water specified by Bureau of Indian Standards

4. Treated water for Domestic, drinking and cooling

RO permeate water after pH correction shall be ideal/ suitable for domestic, drinking and cooling and major quantity of this water shall be utilized for such applications of following parameters.

Quantity	1000 ltr/Hour
pH	7.0 - 7.5
Total Dissolved Solids	Less than 250 mg/L (Maximum - 300 mg/l after minimum 3 Years working of membranes)
Total hardness	40-60 mg/L as CaCO ₃ (Maximum - 80 mg/l after minimum 3 Years working of membranes)
Total Alkalinity/ Bicarbonates	40-80 mg/L as CaCO ₃ (Maximum - 150 mg/l after minimum 3 Years working of membranes)
Chlorides	Less than 50 mg/L as Cl (Maximum - 100 mg/l after minimum 3 Years working of membranes)

Other parameters and E.Coli, coli forms shall confirm to the standard IS : 10,500

5. Storage and pumping of water for domestic, drinking and cooling

Purified water of above specifications shall be collected in storage tank in pump house area.

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GENERAL DESIGN DATA FOR RO PLANT

A.

1. Site Location: The site is located at Basheer hostel, EFLU, Hyderabad.

2 Ground Water

Inspect and verify site before tendering.

3 Soil Characteristics

Inspect and verify site before tendering.

4 Influent Characteristics

a. Type of Feed Water: This shall be from the ground Water supply.

Note: - The raw water characteristics has been indicated from the sample which got tested however the values can slightly be different however the tenderer shall consider his quote considering the treated water quality result which ultimately department required on satisfactory installation of plant complete with the prescribed technology and treatment process.

i. Treated Water Characteristics, however the treated water quality shall required to meet all laid down criteria.

Parameters	Unit	Result
pH		7 - 7.5
TURBIDITY	NTU	< 1
TOTAL DISSOLVED SOLIDS	mg/l	< 300*
CHLORIDES as Cl	mg/l	< 100

SULPHATES as SO ₄	mg/l	< 10
NITRATES as NO ₃	mg/l	< 5
TOTAL HARDNESS as CaCO ₃	mg/l	40 - 60
M. ALKALINITY as CaCO ₃	mg/l	80 - 250
TOTAL IRON (as Fe) E-Coil & Coli form	mg/l	ND As per IS-10500 standards

* Total Dissolved Solid should not exceeds to 250 mg/l till the replacement of membrane

5 - It may clearly be understood that the client wants to use the treated water for office use, drinking purpose; hence, it is imperative that the agency shall ensures that the treated water is usable for above purposes.

6 Space Availability & Proposed Height

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AE(E) (P)

The plant shall require to be adjusted within the existing place. He shall require to plan and coordinate within the space only for which he shall require to get approve the exact space, location and area from the Dept.

7 Scope of Work

1. Design and Drawings for complete plant.
 - a. Preparation and submission of process and instrumentation drawings
 - b. Preparation and submission general arrangement drawings
 - c. Preparation and submission of equipment/ system layout drawings
 - d. Preparation and submission of civil construction drawings for foundation work/ raised platform to install pumps & motors.
 - e. Preparation and submission of detailed engineering drawings.
 - f. Preparation and submission of as built drawings
2. Structure work for installation of pumps halo-fiber ultra filtration membrane, UF feed pumps, dosing pumps interconnecting pipe line, fine filtration unit, high pressure pumps, control instruments, flow meter & reject pressure gauges, level switches, flange couplings, PLC panels for PLC controls etc. The structure work shall be made out of tubes of adequate gauges is to sustain the different installation of treatment plant.
3. Making out/ linking proper drainage so that any leaked water from joints, couplings etc. may not flow on floor of the service block.
4. Providing complete layout duly mounted on frame and laminated with glass panel showing complete system flow and discharge also necessary guideline for the operator for day-to-day running of plant and regarding periodical service of plant
5. Supplying, installation and commissioning of all electro-mechanical equipments as per the specifications.
6. Providing and fixing of all interconnecting pipe works starting from inlet chamber to final delivery outlet pipe.
7. Testing and commissioning of plant to produce output of specified parameters as well as specified water quality.
8. To carry out testing of water quality regularly within the Lab provided at site and on three month basis from reputed Govt. approved or from the Lab prescribed by Engineer-in-charge.
9. It is proposed to utilize the entire treated water for office use, drinking purpose,

GENERAL DESIGN INSTRUCTIONS AND REQUIREMENTS

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AE(E) (P)

1. The contractor shall bear responsibility for the characteristics of the final treated water and shall make any addition/alterations to the equipment or plant, if the same fails to meet the required standard, without any extra cost.
2. Work under this contract shall consist of furnishing all labour, materials, equipment and appliances necessary and required together with shop drawings and required details to construct, erect and commission, a water treatment plant in accordance with the specifications and drawings enclosed with this tender generally comprising but not limited to the items mentioned in the following sections.
 - i. Detailed engineering and preparation of all working drawings as per design data given in the document and actual site conditions to be determined by the contractor.
 - ii. Construction of foundation platform for installation of electro-mechanical instruments and pipe work.
 - iii. Interconnecting piping between all units, flow transmitters, valves, gates, membranes, pressure gauges, air compressor and all other appurtenances and devices as required.
 - iv. All mechanical equipments duly protected against corrosion.
 - v. All electric drives, motor control centers, power and control cables (except main incoming feeder and yard lighting).
 - vi. All instrumentation, control cabling, panels complete in all respects
 - vii. All units are shown on the contract drawings. These drawings are enclosed for guidance of the contractor. The contractor shall work out detailed layout and flow scheme with levels. The contractor may suggest minor changes in the proposed flow scheme, ensuring that the basic design data conforms to this contract documents.
3. Contractor shall verify/check raw water quality of different bore-wells of the complex from which the intake of raw water can be obtained. No extra payment shall be admissible for any variation of raw water quality and thus if any extra arrangements are required to provide in plant during entire warranty/ running maintenance period.
4. The treatment scheme/sizing of equipment as given in the tender is minimum requirement.
5. The agency, if deems fit, can add additional units/ equipment to meet the requirement of guaranteed treated water characteristic as mentioned herein. However the rates quoted by him shall be for the compact and packaged treatment plant and nothing extra over and above to it shall be payable.
6. The contractor shall stand guarantee for the efficient performance of the plant and for the treated water conforming to the standard laid down herein and standards.
7. The plant shall be deemed to have been commissioned when analysis & test result of composite samples on seven consecutive days shall be found to be within

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AE(E) (P)

prescribed limit. Composite sample for the purpose of this article shall mean the sample prepared by mixing the samples of treated water collected at regular interval during the day. Testing of the sample shall be carried out in the reputed lab as approved by the Department. Testing charges shall be paid by the contractor. Nothing extra shall be paid on this account.

8. Tenderer shall incorporate all the necessary provisions in their design to ensure the plant to handle an excess flow of 20% satisfactorily without any hiccup and compromise with the quality of the treated water.
9. All piping system shall be designed with good quality of required steel and as per relevant I.S. code and shall be leak proof.
10. The completion certificate shall be issued after successful commissioning. The contractor shall apply for Completion Certificate along with 3 sets of "As built drawings" indicating levels along with soft copy of the same. The contractor shall also furnish 3 copies of operations & maintenance manual along with the soft copy of the same.
11. The contractor shall furnish spare parts details for each component of the equipment. The details shall include complete list of parts, as recommended by the manufacturers their specifications and authorized dealers.
12. The Electrical & Mechanical equipment shall be got approved from the Engineer-in-charge.
1. Detail of routine tests which shall be required to carry out on day to day basis as per IS:10500/ DJB/ as per requirement of
 - a. COLOUR
 - b. TURBIDITY
 - c. pH
 - d. TOTAL DISSOLVED SOLIDS
 - e. IRON
 - f. CHLORIDES
 - g. CARBONATES
 - h. BICARBONATES
 - i. TOTAL HARDNESS
 - j. CALCIUM HARDNESS
 - k. RESIDUAL CHLORINE
 - l. e-COLI
 - m. COLIFORM
2. Balance tests as per IS:10500 shall be carried out from the outside NABL accredited Lab as approved by Engineer-in-charge.
3. The contractor shall bear all incidental charges for cartage, storage and safe custody of materials brought to site.

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LIST OF PREFERRED MAKES

Sr.No.	Product	Make
1.	Wires (PVC Insulated copper conductor cable FRLS – ISI marked)/ Telephone cables / Submersable cables/ Co- axial /TV cables	<ul style="list-style-type: none"> • Havells • Anchor • Finolex • KEI • RR Kabel • Gloster
2.	MCBs/MCBDB/RCBO/ Isolators	<ul style="list-style-type: none"> • Legrand • Schneider Electric • L&T • ABB • Siemens
3.	MCCBs	<ul style="list-style-type: none"> • Legrand (DPX3) • L&T (D-sine) • Schneider Electric (Compact NSX/ EasyPact CVS) • ABB(T-Max) • SIEMENS(3VL)
4.	Modular Switches/ Sockets/ TV Socket/ Telephone sockets/ Data sockets/ Electronic Regulators/ AC Starter Switch etc.	<ul style="list-style-type: none"> • Legrand (Myris) • MK (Blenze plus) • Panasonic (Vision) • Havells(Crabtree) • Wipro: Northwest : Stylus+
5.	LED Luminaries including Street light fittings (ISI Marked)	<ul style="list-style-type: none"> • Phillips • Wipro • Crompton greaves • Havells • Halonix
6.	PVC / HDPE water storage tanks	<ul style="list-style-type: none"> • Sintex- Sintex Plastic technology Ltd. • Supreme- Supreme Industries Ltd. • Vectus- Vectus Industries Ltd.
7.	Synthetic enamel Paint	<ul style="list-style-type: none"> • Dulex- ICI dulex Ltd • Premium gloss enamel- Asian paint Ltd • Nerolac- Nerolac Paints Ltd • Nippon Paint India Ltd. • SURFA- M/s. Surfa Coats (india) Pvt. Ltd., Bangalore.
8.	CPVC pipes	<ul style="list-style-type: none"> • Ashirwad- Ashirwad PVC Pipes • Astral- Astral Polytechnik Ltd.. • Birla Aerocon- HIL Ltd. • Finolex- Finolex Industries Ltd. • PRAYAG- M/s. Prayag Polymers Pvt. Ltd. • Flow guard • Prince • Supreme- Supreme Industries Ltd. • Truflo- HIS Ltd.
9.	Stainless Steel / Stainless Steel Pipes	<ul style="list-style-type: none"> • Jindal- JSW • KINGSTON • SAIL

10.	Water purifiers	<ul style="list-style-type: none"> • Eureka Forbes • Kent • LG • Ion Exchange
11.	RO Membrane	<ul style="list-style-type: none"> • Hydronautics • Eureka Forbes • GE • Dow • Ion Exchange • LCM
12.	RO Membrane Housing	<ul style="list-style-type: none"> • Pentair • Eureka Forbes • Codeline • Ecoline/Ion Exchange • Alfa
13.	Dual Media Filter	<ul style="list-style-type: none"> • Pentair • Eureka Forbes • Aventura • Ion Exchange
14.	Storage water cooler	<ul style="list-style-type: none"> • Blue Star • Voltas • Eureka Forbes
15.	CPVC pipe	<ul style="list-style-type: none"> • Ashirvad • Astral • Finolex • Sudhakar • Prince
16.	HDPE Tank	<ul style="list-style-type: none"> • Sintex • Fusion • Duracon • Classic
17.	SS Tank	<ul style="list-style-type: none"> • Ion Exchange • Nova
18.	SS pipe	<ul style="list-style-type: none"> • Jindal • Tata • Sail
19.	All types of Pump sets	<ul style="list-style-type: none"> • Grundfos • Armstrong • Desmi • CRI • Kirloskar • Crompton Greaves
20.	Pressure gauge	<ul style="list-style-type: none"> • Waree • Astor • Forbes

21.	GI pipes	<ul style="list-style-type: none"> • Tata • Jindal • Zenith • Surya • SAIL
22.	All other items not covered above	As per approval of the Engineer-in-charge.

Note: 1) The contractor shall have to obtain prior approval from Engineer-in-charge before placing the order for any specific materials. The Engineer- in- charge may approve any of the make brands out of the above list. Also the firm shall produce proof of purchase of materials for payment.

2) Components with country of origin of China are not acceptable.

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Executive Engineer (E)-II-HYD,

Preference to PPP-M – II Policy (Make in India):

- i. The Government has issued public procurement policy (Preference to Make in India) vide Ministry of Commerce and Industry Development of industrial policy and promotion (PPS) vide order No. P-45021/2/2017-PP BE-II dated 28.05.2018, to “Encourage Make in India” and to promote manufacturing and production of Goods and services in India with a view to enhancing income and employment. CPWD has decided to implement this policy.
- ii. The agency shall submit list of makes of materials proposed to be used on the work from local suppliers (as defined in the above order dated 28.05.2018) along with minimum local content as specified below for approval of the department out of the approved makes kept in the tender.
- iii. The department will be approving only makes of the materials having a minimum local content of 50% for use on this work, out of the preferred makes list.
- iv. The minimum local content of 50% is considered for the complete item including labour component.
- v. The agency shall obtain the certificate for all items except for sundry items.

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<u>Schedule of Work</u>						
Name of Work : SITC of 1000 LPH RO plant on the Terrace of Basheer hostel at EFLU, Hyderabad.						
Sl.No	DSR-2025 /MR	Description of Item	Qty	Rate	Unit	Amount
		SUB HEAD-I (RO Plant & IEI WORKS)				
1		Supply, installation, testing and commissioning of 1000 LPH capacity Reverse Osmosis (RO) Plant Semi-Automatic RO system utilizing TFC Polyamide membranes designed to yield a permeate capacity of 1000 LPH with a system recovery rate 55%. The system must include the following major components as per the technical specifications such as Filter Feed Pump of capacity 2220LPH, Pressures and sand filter capacity 2000 LPH, Activated Carbon Filter capacity 2000LPH, Antiscalant Dosing System capacity 60 Litres, Micron Cartridge Filter (MCF)-5 Micron, High-Pressure Pump (HPP), RO Membranes-4no' (40x40") & Vessels, Storage tank SS304 of capacity 2000 litres UV System: 1000 LPH capacity online UV system with SS 304 MOC pH Dosing System				
	MR	Instrumentation & Controls: Microprocessor-based semi-automatic control panel, pressure gauges, rotameters, pressure switches (low and high), online conductivity meter, level switches, and auto flush valve. Interconnecting Piping: Suitable UPVC Sch. 40 piping from the raw water pump outlet to the UV system outlet except: etc., complete as required.	1	731430	Job	731430.00

2	2.5	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required .				
2.1	2.5.1	4 way (4 + 12), Double door	1	7951	Each	7951.00
3	2.2	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, Ics=100% Icu and Operational Voltage 690V etc. as required.				
3.1	2.2.15	200 A, 36KA, FPMCCB	1	15956	Each	15956.00
4	2.4	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator).				
4.1	2.4.2	6 way (4 + 18), Double door	1	5299	Each	5299.00
5	MR	Supplying and fixing following rating, 415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
5.1	MR	40A Four pole	1	3412	Each	3412.00
6		Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.				

6.1	2.14.2	40A Four pole	1	2512	Each	2512.00
7	2.10	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
7.1	2.10.1	Single pole	18	285	Each	5130.00
7.2	2.10.4	Triple pole	5	1070	Each	5350.00
8	MR	Supplying, laying, testing, and commissioning of 4 core x 6 sq.mm PVC insulated, PVC round sheathed multicore industrial copper cable. The cable shall feature bright annealed bare copper conductors for a voltage grade up to 1100V, conforming to IS 694:1990 on surface etc., complete as required. It is to be laid for connecting the 5th-floor Distribution Board (DB) to the equipment panel on the terrace. The item includes neatly routing and securing the cable on the wall surface/structure using suitable heavy-duty GI/PVC saddles, spacers, and clamps at regular intervals, or routing through existing conduits/shafts as per site requirements. It also includes making proper end connections at both the DB and the terrace panel ends using suitable copper lugs, glands, crimping, and insulation taping, along with checking for continuity and insulation resistance before commissioning the circuit etc. as required.	30	835	Metre	25050.00
		SUB HEAD-II (CIVIL WORKS)				
9	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				

9.1	4.1.3	1:2:4 (1 cement : 2 coarse sand(zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	1	8453.82	Cum	8453.82
10	10.16	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.				
10.1	10.16.1	Hot finished welded type tubes.	360	208.60	Kg	75096.00
11	12.50	Providing and fixing precast galvanized iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-Charge) of total coated thickness 0.50 mm (base metal of minimum 0.45 mm thickness with total coating thickness of 0.05mm) with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	17	792.59	Sqm.	13474.03

12	12.51	Providing and fixing precoated galvanised steel sheet roofing accessories of total coated thickness 0.50 mm (base metal of minimum 0.45 mm thickness with total coating thickness of 0.05 mm) with Zinc coating 120 gram per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete :				
12.1	12.51.5	Crimp curve	17	533.02	Metre	9061.34
13	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
13.1	13.61.1	Two or more coats on new work.	15	167.28	Metre	2509.20
				Total	Rs.	910684.39
					Say Rs.	910684.00

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Central Public Works Department

N.I.T. No: 124/EE(E)-II-HYD/2026-27

Name of work:- SITC of 1000 LPH RO plant on the Terrace of Basheer hostel at EFLU, Hyderabad.

ABSTRACT OF COST

Name of the Contractor					
Sl.No.	Name of component	Estimated cost	Percentage above or below the estimated cost	% in Figures	Total Cost
1	Electrical	910684.00			-
	Grand Total				-

Important Note:

1. The Estimated Cost Put to Tender has been worked out by DSR 2025 items and considering the Market Rates for NSR items.
2. The tenderer is required to quote a single consolidated Percentage only above/below Estimated Cost to cover all the rates of all the items. This column should not be left blank, otherwise the tender shall be treated as INVALID.
3. The Percentage shall be typed only in figures upto 2 (two) places of decimal along with algebraic sign.
4. The tenderer shall enable the macros before entering the figures, to see the quoted percentage and amount in words.
5. If the Percentage quoted both in words and figures are not clear, or if the rate is not quoted in Percentage, the offer will be treated as INVALID.

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