



## NOTICE INVITING TENDER

FOR

**ANNUAL OPERATION & MAINTENANCE CONTRACT  
(NON-COMPREHENSIVE)**

FOR

**SEWAGE TREATMENT PLANT  
RO PLANT  
FIRE PROTECTION SYSTEM  
WATER TREATMENT PLANT**

AT

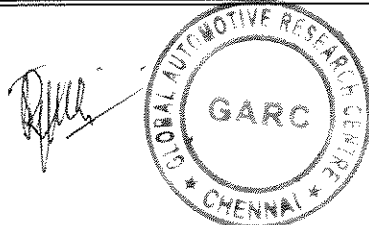
**GARC  
ORAGADAM, CHENNAI (TAMILNADU)**

**Tender No: -226/NATRIP/GARC/CIVIL-General Maintenance /2019-2020/333**

Site Office: Global Automotive Research Centre (GARC),  
Plot E1, SIPCOT Industrial Growth Centre, Oragadam, Mathur Post, Sriperumbudur Taluk,  
Kanchipuram Dist., - 602 105, Tamil Nadu Tel: 044 - 27190816  
Email: rajeswar.tripathy@garc.co.in, rajeswar.tripathy@natrip.in

---

HQ at NATRIP Implementation Society  
[NBCC Place, South Tower, 3<sup>rd</sup> Floor Bhishma Pitamah Marg Pragati Vihar Lodhi Road New Delhi - 110 003, India]  
Phone: +91-11-2436-8222, Fax: +91-11-2436-9333, Email: team@natrip.in website www.natrip.in





Tender No: 226/NATRIP/GARC/CIVIL-General Maintenance /2019-2020/333

### 1. General Instructions:

Global Automotive Research Centre (GARC) is one of the state of art Test Centre established by Ministry of Heavy Industries and PE, Govt. of India (under NATRIP), located at Oragadam near Chennai, Tamilnadu. GARC has been authorized as test agency under CMVR 126 by Ministry of Road Transport & Highways, Govt. of India. GARC has the full-fledged R&D and Homologation Test Facilities including the Test Tracks to certify all category of vehicles, systems and components as per National and International standards. Also GARC, has got the accreditation from NABL as per ISO/IEC 17025:2005 for General Requirements for the Competence of Testing and Calibration Laboratories for its Certification Lab (Mechanical & Electrical Discipline).

GARC - Chennai invites Tenders under Two Bid System for Annual Operation and Maintenance Contract of the Sewage Treatment Plant, RO Plant, Fire Protection System & Water Treatment Plant.

The details of the Tender are mentioned below: -

| Description of Work  | Contract Period | Last date for submission of Bid | Date & Time of Bid opening | Estimated Cost (Rs.) |
|--|-----------------|---------------------------------|----------------------------|----------------------|
| Annual Operation & Maintenance Contract of STP, RO Plant, Fire Protection System & WTP (Non-comprehensive) | 12 months       | 23.03.2020                      | 23.03.2020<br>03.30 PM     | 8,50,000.00          |

### 2. Bid Submission details:

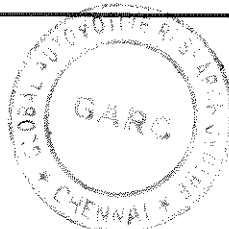
Sealed bids are to be submitted at the following address not later than the aforesaid time & date.

**Global Automotive Research Centre (GARC),**  
Plot E1, SIPCOT Industrial Growth Centre, Oragadam, Mathur Post, Sriperumbudur Taluk,  
Kanchipuram Dist., - 602 105, Tamil Nadu Tel: 044 - 27190816

No Bids will be accepted after the aforesaid date and time. However, on exceptional cases, GARC reserves the right to extend the time/last date of submission of Bid to a next convenient date/time before opening of the Bids.

Bids sent telegraphically or through other means of transmission (telefax, email etc.) which cannot be delivered in a sealed envelope shall be treated as defective, invalid and shall stand rejected.

GARC shall not be responsible for any postal/courier delays for non-receipt /non-delivery of bids or due to wrong addressee.





Tender No: 226/NATRIIP/GARC/CIVIL-General Maintenance /2019-2020/333

---

3. **Disclaimer:**

GARC reserves all rights to accept/ reject/modify/split any or all proposals without assigning any reasons. Bidders shall not have any cause of action or claim against GARC for any of its decisions.

For GARC



Procurement Incharge

INSTRUCTION TO BIDDERS

---



Tender No: 226/NATRIP/GARC/CIVIL-General Maintenance /2019-2020/333

---

1. Bidders are required to submit their Bid in **Two Bid System** (simultaneous receipt of separate technical and financial bids):
  - (i) Technical bid consisting of all technical details along with commercial terms and conditions & EMD;
  - and
  - (ii) Financial bid indicating item-wise price for the items mentioned in the technical bid.

The technical bid and the financial bid should be sealed by the bidder in separate covers duly super-scribed and both these sealed covers are to be put in a bigger cover which should also be sealed and duly super-scribed.

The technical bids are opened at the first instance and evaluated. At the second stage, financial bids of only these technically acceptable offers be opened with intimation on the date and time of opening the financial bid.

2. The bidders are expected to meet the minimum eligibility criteria as given in the "Notice Inviting Tender". GARC will reject the bids that do not meet the minimum eligibility criteria as laid down, based on their submission along with the Quotation documents even after the bid opening process is concluded.
3. The Contract shall be governed by GARC's Special Conditions for Quotation (SCQ) and all other relevant specification applicable.
4. All Bidders are hereby explicitly informed that "CONDITIONAL OFFERS" or "OFFERS WITH DEVIATIONS" from the conditions of Contract, the quotation not meeting the minimum eligibility criteria, Technical quotation, not accompanied or any other requirements as stipulated in the Tender documents are liable to be "REJECTED".
5. Bidders should give details of their technical soundness and provide list of customers/client of previous works of similar nature in Government Departments/ Undertakings/ Public / Private sectors.

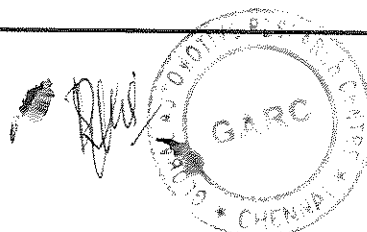
**6. Minimum Eligibility Criteria:**

**Documents to be submitted along with the bid:**

The bidders whose bid meet the following criteria would only be considered as responsive and evaluated by GARC.

**i. Legal Valid Entity:**

- a) The Bidder shall necessary be a legal valid entity either in the form of Partnership firm, Pvt. Ltd., Co., / Ltd., Co., In form of JV/Consortium not permitted.
- b) Licence certificate of the firm
- c) Details of Owner/partners of the firm
- d) Copies of Income Tax Registration/PAN Card, GST registration, PF registration, ESIC Registration, TIN Registration, any other statutory requirements, etc.,
- e) List of Customers/Client





Tender No: 226/NATRIp/GARC/CIVIL-General Maintenance /2019-2020/333

ii. **Technical & Financial Capabilities:**

- a) **Average Annual financial turnover** during the last 3 years, ending 31st March of the previous financial year, should be **at least 30%** of the estimated cost.
- b) Experience of having successfully completed similar works **during last 7 years** ending last day of month previous to the one in which applications are invited should be either of the following: -
  - i. **Three similar completed works**, each costing not less than the amount equal to **40%** of the estimated cost.  
Or
  - ii. **Two similar completed works**, each costing not less than the amount equal to **50%** of the estimated cost.  
Or
  - iii. **One similar completed work**, costing not less than the amount equal to **80%** of the estimated cost.

Testimonials in this regard in the form of Balance sheet/Work Orders/ Purchase Orders/Customer certificates, etc., issued by Govt. Departments/ Autonomous Bodies/ PSUs/MNC/ Reputed Pvt. Ltd., / Ltd. Organizations should be enclosed.

7. **Tender Fee & EMD Exemption: -**

- a) If registered under "Micro & Small Enterprises" (MSEs), supporting documents need to be submitted to avail exemption from Earnest Money.
  - b) The condition of prior turnover and prior experience is relaxed for Startups (as defined by Department of Industrial Policy and Promotion) subject to meeting of quality & technical specifications. Bidders qualifying under this criterion need to enclose all necessary supporting documents related to registration/recognition by DIPP.
8. The Bidders are expected to carefully examine all the contents of the Tender documents including instructions, conditions, terms, specifications, drawings (if any), shall inspect the Site with prior notice to GARC and at Bidders own cost, acquaint himself with all local conditions, means of access to the work, nature of the work and all matters pertaining thereto & take them fully into account before submitting their offer. Failure to comply with the requirements as detailed in these documents shall be at the Bidder's own risk. Bids which are not responsive to the requirements of the Tender will be rejected.
9. While all efforts have been made to avoid errors in drafting of the Tender documents, the Bidder is advised to check the same carefully. No claim on account of any errors detected in the Tender documents shall be entertained.
10. The Bidder shall carry out all the work strictly in accordance with Specification, Standard Practices and instructions of GARC or GARC's representative and deviation on any account will not be permitted. The decision of GARC in such cases shall be final and shall not be open to arbitration.
11. Addendum / Corrigendum (if required) to the Tender may be issued prior to the date of opening





Tender No: 226/NATRIP/GARC/CIVIL-General Maintenance /2019-2020/333

---

of the Bid to clarify or to intimate any changes/modifications etc. All such addendum / corrigendum shall be treated as an integral part of the Tender.

12. Any effort by a Bidder to influence GARC or any of its functionaries in the process of examination, clarification, evaluation and comparison of tenders and in decisions concerning award of contract, may result in rejection of the Bid.
13. In order to afford prospective bidders, reasonable time for preparing their Quotes after taking into account such amendments, GARC may, at its discretion, extend the deadline for submission of bids.
14. Information relating to the examination, clarification, evaluation and comparison of bids and recommendations concerning the award of Contract shall not be disclosed to Bidders or other persons not officially concerned with such process.
15. GARC reserves the right to accept / reject or modify any bids, and to annul the Tender process and reject all quotations, at any time prior to award of Contract, or to divide the Contract between/amongst Bidders without thereby incurring any liability to the affected Bidder or Bidders or any obligations to inform the affected Bidder or Bidders of the grounds for GARC's action.

**16. Bid Opening Details:**

The Bids will be opened at GARC office on specified date and time in the presence of Bidders or their duly authorized representatives who choose to remain present at the time of opening the Bids.

A letter of authorization shall be submitted to GARC, by the Bidder's representative before the opening of Bids. Absence of bidders or their duly authorized representatives shall not impair the legality of the bid opening process. All bidders or their duly authorized representatives shall be required to sign the main bid envelopes by way of confirmation of sealed bid status at the time of opening of bids. After identification signing, the Procurement Committee representative shall open the bid envelope. This will not give any right to the bidder to claim that he is successful in the bidding process. Bid envelopes shall be required to sign by all the authorized representatives and the same will be kept under the custody of GARC. Refusal to sign on any of the bid envelopes by any of the bidder or his duly authorized representative may disqualify him from the process at the discretion of members of the Committee present at the time of opening of the Bids.

17. The rate should be quoted both in words and figures on our prescribed format duly signed & stamped by the bidder. All statutory deductions shall be applicable while releasing payments. All corrections and overwriting should be initialed by the Bidder.

**18. FINANCIAL BID EVALUATION**

For the evaluation of the Financial Bids, the eventual Bid prices shall be ascertained after considering all the terms and conditions associated with the Bid price specified in the Financial Bid document and after detailed scrutiny of the financial bid.

If there is a discrepancy between the sub total/s and the total price that is obtained by multiplying the unit price and quantity/adding the sub total/s, the sub total/s shall prevail and the total price shall





Tender No: 226/NATRIP/GARC/CIVIL-General Maintenance /2019-2020/333

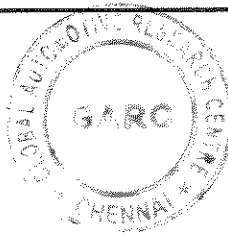
be corrected, unless in the opinion of the Employer that there is an obvious misplacement of the decimal point in the sub total price, in which case the total price as quoted shall govern and the sub total/s shall be corrected;

- a) If there is an error in a total, corresponding to the addition or subtraction of sub totals, the subtotals shall prevail and the total shall be corrected; and
- b) If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail.
- c) The amount stated in the Letter to Bid will be adjusted by the Employer in accordance with the above procedure for the correction of errors and, shall be considered as binding upon the bidder. If the bidder does not accept the corrected amount of bid, the bid will be rejected.

**19. Validity of bids:**

The rate quoted should be valid for a **period of 90 days** from the last date of Submission of Tender. No claim for escalation of rate will be considered at any point of time.

20. Prospective bidders requiring any clarification of the Tender may write to rajeswar.tripathy@garc.co.in or rajeswar.tripathy@natrip.in
21. The Bids / related correspondences shall be made in English language only.
22. Payment & Mode: In Indian National Rupees (INR) & through RTGS against submission of invoice on monthly basis with all supporting documents for actual works executed.
23. Payment shall be processed only after due certification by Engineer-in-Charge. No Advance payments
24. Tender Document Fee: Free of Cost
25. **Bid Security/EMD** : 2% (Two) of the estimated cost should be submitted as Bid Security/EMD along with the Technical bid in the form of A/C Payee Demand Draft/Fixed Deposit Receipt/Banker's Cheque or Bank Guarantee from any of the Commercial Banks favouring "GLOBAL AUTOMOTIVE RESEARCH CENTRE" & payable at Chennai. Bid Security/EMD should remain valid for a period of forty-five days beyond the final bid validity period. Bids received without EMD will be summarily rejected.
26. **Performance Security**: 5% (Five) of the Contract value should be submitted as Performance Security by the Successful Bidder on award of Contract. Performance Security may be furnished in the form of an A/C Payee Demand Draft, Fixed Deposit Receipt or Bank Guarantee from a Commercial Bank favouring "GLOBAL AUTOMOTIVE RESEARCH CENTRE" & payable at Chennai and should remain valid for a period of Sixty days beyond the date of completion of all Contractual Obligations. Bid Security/EMD will be returned to the successful bidder on receipt of Performance Security..



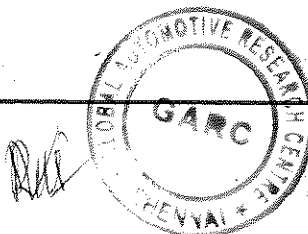


Tender No: 226/NATRiP/GARC/CIVIL-General Maintenance /2019-2020/333

### SCOPE OF WORK

Work involves operation and maintenance of Sewage Treatment Plant, RO Plant, Fire Protection system and Water Treatment Plant.

1. Day to day operation & routine maintenance and to follow daily checks.
2. Provide professional/Skilled manpower for all the installed equipments operation.
3. Preparation & Dosing Chemical Solutions of required concentration and quantity.
4. Collection, removal and disposal of sludge.
5. General cleaning and house-keeping.
6. Operation of all electrical & mechanical machinery including electrical panels.
7. Clean air filters on Air Blowers regularly.
8. Preventive/minor maintenance of pumps, blowers, Motors, electric panels and other equipments.
9. Painting of equipments & pipes within the units.
10. Cleaning of Tanks, Grease chambers, Screen bars, etc.,
11. The Contractor shall remove excess sludge from sludge holding tank.
12. Cleaning and tightening of all screw connections and terminals on controllers.
13. Examining of fuse contacts and terminals for cleanliness and tightness.
14. Checking the pump immediately after starting the motor, to see if the pump is generating the rated head, by reading the pressure gauge.
15. Checking for any undue vibration of stuffing boxes.
16. Checking of glands for overheating and leakage. Gland packing around the pump set is adjusted to permit only a slight leakage of droplets of water to cool and lubricate the shaft.
17. Checking if the voltage fluctuation is within the permissible limit of 420-440 V.
18. Checking of current rating and actual loading of motor to prevent overloading, by frequently monitoring the ammeter reading.
19. Ensuring that the water level in the water source does not drop more than 1 meter above foot valve and water at the receiving end is not wasted by overflow.
20. Checking the bearings of the pump periodically and applying grease sufficiently.
21. Checking the gland packing once in two months.
22. Checking the valves and pressure gauges and tightening the gland at closer intervals when too much leak of water occurs.
23. Checking the pumps, its auxiliaries and impeller periodically.
24. Operating of submersible pump once a week, and its maintenance.



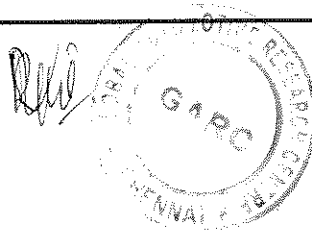




Tender No: 226/NATRIp/GARC/CIVIL-General Maintenance /2019-2020/333

### TERMS & CONDITIONS

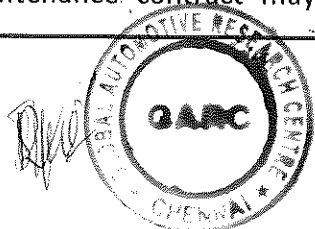
1. The Plant should run as per the relevant rules/guidelines/ instructions.
2. Log book, Register pertaining to operation of STP, RO Plant, Fire Protection System & WTP should be up to date as per IS / TNPCB requirements.
3. Contractor should provide all Tools & Tackles as required for proper functioning of Units.
4. Contractor Should Provide uniform, Shoe, gloves, Helmet and all PPEs .
5. Arrangement for field testing of water i.e. Hardness, PH, Turbidity, Color should be always available for that testing kit and instrument to be provided by contractor.
6. The contractor should provide a Preventive Maintenance service periodically i.e. once in 15 days through offering a visit by a Environmental Engineer (Master Degree in Environmental Science) to ensure the overall health of plant. The report to be submitted to engineer-in-charge.
7. All disciplinary rules and regulations as enforced are to be followed by the work force of the Contractor during their stay at the premises. Uniforms and safety kits etc. have to be provided to the staff by the successful firm/ contractor/agency.
8. Consumable such as oil, grease etc. will be arranged by successful firm/ contractor/agency.
9. The instruction/s given to the Contractor from time to time should be properly carried out and necessary records of action taken should be maintained in a Log Book.
10. Any damages caused by the Contractor in existing facilities while carrying out the work shall be made good by the contractor to GARC's entire satisfaction at their own risk and cost.
11. The contractor should fulfill all statutory requirements pertaining to satisfactory performance of the job etc.
12. The firm/ agency/ contractor shall fulfill the requirement of various law enforcing agencies / local authorities, such as Pollution Control Board, Directorate of Electricity, Safety, Fire, etc., by taking their approvals as needed.
13. In case any of staff is not found up to mark and not able to do work properly, he will have to be replaced as per the instruction of GARC.
14. No advance payment will be made to the Contractor. Monthly payment/s will be released after submission of bill after 30 days (one month) and satisfactory completion of job, which is to be certified by the Engineer In- charge.
15. Service provider must provide one (01) year comprehensive on-site warranty for all the items which shall be replaced and it will be started from the date of the satisfactory installation of the item against any defect, workmanship and poor quality. The replaced component/s will be handed over to GARC Engineer in-charge or its representative.
16. All the contractor's employees posted and working in GARC premises for the above-mentioned work should be covered under ESIC making statutory contribution under ESIC Act as per Govt. laws.
17. The Contractor at all times should indemnify GARC against all claims, damages or compensation under the provisions of Payment of Wages Act, 1936; Minimum Wages Act,





Tender No: 226/NATRIP/GARC/CIVIL-General Maintenance /2019-2020/333

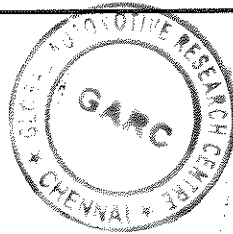
- 1948; Employer's Liability Act, 1938; the Workmen Compensation Act, 1923; Industrial Disputes Act, 1947 or any modification thereof or any other law relating thereto and rules made there under from time to time. GARC will not own any responsibility in this regard.
18. The contractor will maintain Attendance Register, Leave Register , Payment of wages / Statutory dues, Record of weekly off / Compensatory Holiday, Material Stock Registers.
  19. The contractor shall comply with all existing labour legislations and Acts, Provisions as applicable, such as Contract Labour Regulation Act, Workmen's' Compensation Act, Minimum Wages Act, Payment of Wages Act, Provident Fund Act, ESI Act etc. For any lapse or breach on the part of the contractor in respect of non-compliance of any labour legislation in force during the validity of the contract, the contractor would be fully responsible and would indemnify GARC, in case GARC is held liable for the lapse if any, in this regard.
  20. The Engineer-in-charge shall be at liberty to object to and request the Contractor to remove forthwith from the works any person provided by the Contractor, who in the opinion of the Engineer-in-charge, misconducts himself, or is incompetent or negligent in the proper performance of his duties, or whose presence on Site is otherwise considered by the Engineer-in-charge to be undesirable, and such person shall not be again allowed upon the works without the consent of the Engineer-in-charge. Any person so removed from the Works shall be replaced as soon as possible by a qualified person approved by the Engineer-in-charge.
  21. The Contractor shall, throughout the execution and completion of the works and the remedying of any defects therein:
    - a) Have full regard for the safety of all persons entitled to be upon the site and keep the Site and the Works in an orderly state appropriate to the avoidance of danger to such persons, and
    - b) Take all reasonable steps to protect the environment on and off the site and to avoid damage or nuisance to persons or to property of the public or others resulting from pollution, noise or other causes arising as a consequence of his methods or Repair.
  22. The contractor shall take insurance cover protecting the agency against all claims applicable under the Workmen's Compensation Act, 1948. The contractor shall arrange necessary insurance cover for any persons deployed by him even for short duration. GARC shall not entertain any claim arising out of mishap, If any, which may take place. In the event of any liability/claim falling on GARC, the same shall be reimbursed / indemnified by the contractor. All liabilities arising out of minor & major medical treatments, accident or death, injuries, etc., shall be borne by the contractor.
  23. The Operation and Maintenance work shall be for a period as mentioned in the letter of commencement and shall start from the date of issue of letter commencement and shall stand terminated after the expiry of one year.
  24. The Operation and Maintenance contract may be extended on the written mutual





Tender No: 226/NATRIP/GARC/CIVIL-General Maintenance /2019-2020/333

- consent of both employer and Contractor for a further period of one year. However, employer reserves its right to terminate the Operation and Maintenance contract by giving 15 days notice at any time during the currency of the contract if the services of the agency are not satisfactory as per the opinion of employer or its representative.
25. In case of default on the part of the Contractor in carrying out defect rectification works, the Employer/Engineer shall be entitled to employ and pay other persons to carry out the same and if such work, in the opinion of the Engineer-in-charge, the Contractor was liable to do at his own cost under the Contract, then all costs consequent thereon or incidental there to shall be determined by the Engineer-in-charge and shall be recoverable from the Contractor by the Employer, and may be deducted by the Employer from any amount due or to become due to the Contractor.
  26. Bidders are required to visit the Site to see the actual installations themselves to assess the quantum of work involved before submitting the Tender. Once the Tender is submitted, it will be presumed that the Bidder has seen and understood the complete work involved for each of the system.
  27. The successful firms/ agencies/ contractors will be intimated and contract agreement will be entered initially for a period of one year which may be extended depending on the performance of the contractor or till finalization of the next Tender, whichever is earlier.
  28. Subletting - The Contract shall not be assigned or sublet to another party.
  29. The firm shall rectify any breakdown within 24 hours failing which penalty for non-performance @ 0.5 % per week of delay subject to a maximum of 10% of the contract price will be imposed and in the event of any damage to the property or life or any machinery and installation arising out of non-performance or negligence of the workers, contractor will be solely responsible. The contractor shall be responsible for proper maintenance of decorum, punctuality, discipline and work out put etc.
  30. As the Contract is a non-comprehensive one, the Contractor will be paid for Actual Material Cost in case of repair & replacement of spares with additional reasonable manpower on approval of the Engineer-in-charge.
  31. Maintaining the RO plant for drinking water qualities, Collection of sample Sewage at the point of discharge & Maintaing the Water Treatment Plant for vehicle testing parameters. Conducting tests through "Third party NABL accredited labs" at an interval of every month to ascertain that our Units (STP, RO & WTP) are meeting the time to time Statutory requirements of IS/Tamil Nadu Pollution Control Board and keeping GARC informed of the results and initiating remedial actions. GARC shall also be provided consultation on the type & nature of chemicals that can be used for effective results which in no way shall pose detrimental effects to livingbeings & environment. However, the TDS, PH, Hardness, etc., shall be checked at Site on day to day basis.
  32. The bidders have to take latest minimum wages declared by the Central Government as the minimum bench mark for quoting the rates for manpower deployment. Bids lesser than minimum wages/statutory obligations will be summarily rejected.
  33. The personnel deployed by the agency shall not claim any absorption in GARC in future. GARC shall not be under any obligation for providing employment to any of the worker of





Tender No: 226/NATRIIP/GARC/CIVIL-General Maintenance /2019-2020/333

the contractor after the expiry of the contract.

**34. Details of Manpower & their Qualification :**

- a. Operator / Technician (Skilled) - 4 persons  
General Shift (8.30 am to 5.30 pm) - 2 Persons (1 - Buildings & Labs, 1-Test Tracks)  
Night Shift (8.30 pm to 5.30 am) - 1 Person (Overall)
- b. Reliever - 1 person
- c. Qualification for Technicians (Skilled): - Minimum 3 years' experience in handling STP, RO Plant, Fire Protection system & WTP in operational and maintenance work of similar capacity plants. ITI holders will be given preference. d. Attendance will be marked on day-to-day basis through bio-metric system and recovery will be done per person per day for absenteeism.

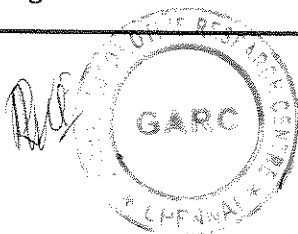
**35. DUTIES AND OBLIGATIONS**

**1. Duties of Operators Employed:**

The Contractor should submit the names of the persons engaged for the work and they have to report to the Engineer-In-Charge on day-to-day basis. Persons employed should not be changed frequently. In case of change the same will be intimated to the employer. Operation and the maintenance of STP, RO Plant, Fire fighting system and WTP comprising of various pumps, motors, blowers, pipelines, settling tanks, filter unit, etc. together with the electrical panels and connections. The Contractor has to keep the area of plant neat and clean.

**2. Repairs:**

- a. The contractor has to do all minor repair work which are repairable at site by the Operator/ Technician on duty immediately, for which no additional labour charge will be paid.
- b. Except above if there are any other repair work which are not possible to be repaired at site by the Operator/Technician on duty, that should be brought to notice of GARC Engineer-in-charge immediately and same should be repaired from outside by original manufacturer/ manufacturer Authorized dealer on approval. The expenditure will be paid on submission of original bill.
- c. For any spares/materials replacement, actual charges will be paid as per the bills from the Original manufacturer/Manufacturer authorized dealers after ascertaining the rates on submission of original bills (except damage caused to any machinery/plant due to negligence of contractor), and such materials to be checked-in by Engineer-in-Charge as evidence being materials brought in.





Tender No: 226/NATRIP/GARC/CIVIL-General Maintenance /2019-2020/333

---

requisite, experience and skills for carrying out a wide variety of running, operation and maintenance with required tools/ equipments.

(b) The Contractor must employ adult and skilled labour only. Employment of child labour will lead to termination of the contract. The Contractor shall engage only such workers, whose antecedents have been thoroughly verified, including character and police verification and other formalities. The Contractor shall be fully responsible for the conduct of his staff.

(c) The Contractor should ensure Health and safety of the workers. GARC shall not be held responsible.

(d) The staff shall be in proper uniform with their identity properly displayed. Samples of liveries will have to be submitted by the Contractor for approval of GARC.

(e) The Bidder should deploy planned number of personnel in shifts or on holidays/Sundays, etc., as may be coordinated by the Officer-in-Charge. Central Government Holiday pattern for National Festival holidays will be followed.

(f) The qualification of personnel deployed is subject to verification by GARC and in the event that they do not possess the prescribed qualification, such personnel(s) shall be replaced by the contractor next day. Failure to replace in time leading to work being affected will lead to GARC resorting to risk purchase at your risk and cost.

(g) Any replacement (s) should have the prior approval.

(h) The personnel deputed by contractor should be medically fit and the Contractor shall certify the same to GARC.

(i) The contractor staff are prohibited from going on strikes due to whatsoever reason.

### 39. Default of Contractor

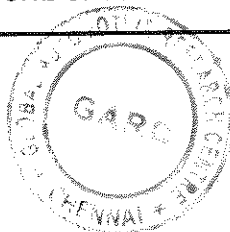
(a) If the performance of the contractor is not satisfactory and not corrected within 15 days of receiving notice, then employer shall be at liberty to terminate the contract and get the work executed through other means at the risk and cost of the Contractor.

(b) In the event of termination of the contract, the employer shall be at liberty to get balance work done at the risk and cost of the contractor and due payment of the contractor, if any shall be released after the completion of whole works.

### 40. Arbitration.

Any dispute and differences relating to the meaning of the specifications, as to the quality of workmanship / materials used in the work or as to any other question, claim, right, otherwise concerning the works or the execution or failure to execute the same

*RWE*





Tender No: 226/NATRIIP/GARC/CIVIL-General Maintenance /2019-2020/333

- d. Under no circumstances plant should remain under breakdown for more than 03 hours. In the event of breakdown/shut down the onus of attending to the problem in the shortest possible time will rest on the Contractor failing which GARC is empowered to get the breakdown/shut down of any defect rectified from any outside agency at the risk and cost of the Contractor and make necessary deductions from their bills. The Contractor has to keep all the area and surroundings at the site neat and clean and dump the scrapped materials at the scrap yard.
- e. It will be Contractor's responsibility to maintain all our units (STP, RO plant, Fire protection system & WTP) in a healthy state all the time.
- f. To plan and undertake preventive maintenance of our units at regular intervals and attend routine maintenance activity every day. Contractor should make a service report for all the maintenance jobs carried out and get it counter signed by the Engineer-in-charge.
- g. Operating of the pumps erected inside the pump house for water supply and constructed beside the septic tanks. Taking care to check the levels of
- i) Water in the UG sump.
  - ii) Sewage in the tank and maintaining of the pumps and clearing any chokes / blocks.

### 36. Other Duties

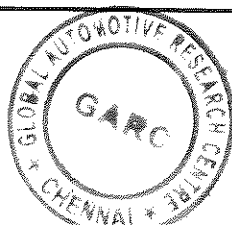
- a. Daily entries will be recorded in the logbook as per requirement and get verified by the Engineer-in-charge.
- b. Any complaint noticed shall be reported to Engineer-in-charge.
- c. The Contractor shall supervise every day and maintain a logbook as per guidelines of the Operation Manual.
- d. The short listed contractor will submit a monthly maintenance schedule of all equipment's for approval before commencing operating of the system.

### 37. Liquidated Damages:

- a) A penalty of Rs.1000/- per month will be deducted from the bill for the months when test Certificate from approved Lab is not submitted.
- b) A penalty of Rs.600/- per shift will be deducted from the bill for each shift when the Skilled Technician/ operator is not provided.

### 38. Contractor's Employees

- (a) The Contractor shall provide on the Site qualified and experienced technical staff in connection with the Repair and Maintenance of the works and the remedying of any defects therein. The persons deployed by the Contractor should be properly trained, have





Tender No: 226/NATRIIP/GARC/CIVIL-General Maintenance /2019-2020/333

---

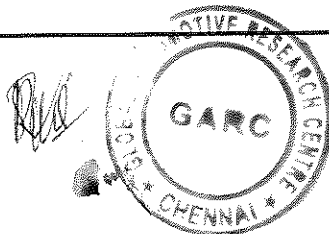
whether arising during the progress of the work or after the completion or abandonment thereof in respect of which amicable settlement has not been reached, shall be referred to the Sole Arbitration of GARC which shall proceed as per the Arbitration Act, 1996.

(a) The work under the contract shall continue, during the Arbitration proceedings.

(b) The award of the Arbitrator shall be final, conclusive and binding on both the parties

**41. Force Majeure: -**

If at any time during the currency of the contract, either party is subject to force majeure, which can be termed as civil disturbance, riots, strikes, tempest, acts of God etc. which may prevent either party to discharge his obligation. The affected party shall promptly notify the other party about the happening of such an event. Neither party shall by reason of such event be entitled to terminate the contract in respect of such performance of their obligations. The obligations under the contract shall be resumed as soon as practicable after the event has come to an end or ceased to exist. If the performance of any obligation under the contract is prevented or delayed by reason of the event beyond a period mutually agreed to if any or seven days, whichever is more, either party may at its option terminate the contract.



**TECHNICAL DETAILS**

**(i) Sewage Treatment Plant : Capacity - 34.4 KLD**

**List of Equipments installed in STP**

| S.No | Equipment Description   | Capacity               | Quantity |
|------|---|------------------------|----------|
| 1.   | Raw Sewage Pump   | 170LPH                 | 2        |
| 2.   | Air Blower with Motor   | 70 M <sup>3</sup> /Hr. | 2        |
| 3.   | Treated water transfer pump                                     | 2500 LPH               | 2        |
| 4.   | Filter feed pump  | 2500 LPH               | 2        |
| 5.   | Chlorine Dosing pump  | 0-4 LPH                | 2        |
| 6.   | Pressure Sand Filter  | 2500 LPH               | 1        |
| 7.   | Activated Carbon Filter   | 2500 LPH               | 1        |
| 8.   | Screw Pump  | 500 LPH                | 1        |
| 9.   | Filter Press  | -                      | 1        |
| 10.  | Control Panel   | -                      | 1        |
| 11.  | Oil Skimmer   | -                      | 1        |
| 12.  | Sewage Transfer Pump (near Pedestrian Lab)                      | -                      | 1        |
| 13.  | STP skid assembly with tanks, interconnecting piping & fittings | -                      | 1        |

**(ii) RO Plant : Capacity - 10 M<sup>3</sup> / Hr.**

**List of Equipments installed in RO Plant**

| S.No | Equipment Description  | Capacity                   | Quantity |
|------|--|----------------------------|----------|
| 1.   | Raw water Feed pump  | 13.33 M <sup>3</sup> / Hr. | 2        |
| 2.   | Dual Media Filter  | 13,330 LPH                 | 1        |
| 3.   | Activated Carbon Filter  | 13,330 LPH                 | 1        |
| 4.   | Antiscalent Dosing System  | 0-6 LPH                    | 2        |
| 5.   | SMBS Dosing System   | 0-6 LPH                    | 2        |
| 6.   | PH Correction System   | 0-6 LPH                    | 2        |
| 7.   | Hypo Dosing System   | 0-6 LPH                    | 2        |
| 8.   | RO Skid Assembly (Micron cartridge filter - 3, RO Membranes-12, RO Pressure vessel -2, RO Chemical Tank - 1, Rota meter - 2, Offline PH meter-1, Instrumentation, tanks, Interconnecting piping & fittings, etc.,) | 10,000 LPH                 | 1        |
| 9.   | High Pressure pump (RO Skid Assembly)  | 13,330 LPH                 | 2        |
| 10.  | Electric Control Panel   | -                          | 2        |
| 11.  | RO Treated water Stainless steel storage (drinking)  | 1,000 L                    | 1        |
| 12.  | RO Transfer pump   | 1,000 LPH @<br>30MWC       | 1        |
| 13.  | Micron filters   | 5, 2 & 0.2μ                | 3        |
| 14.  | UV Sterlizer   | 1,000 LPH                  | 1        |



Tender No: 226/NATRIP/GARC/CIVIL-General Maintenance /2019-2020/333

**(iii) Fire Protection System**

**List of Equipments installed in Fire Protection System**

| S.No | Equipment Description                     | Capacity           | Quantity |
|------|---|--------------------|----------|
| 1.   | Electrical driven Jockey Pump for Hydrant | 180 Lpm @ 88m Head | 1        |
| 2.   | Electrical driven Main Pump for Hydrant   | 2280 Lpm @88m Head | 2        |
| 3.   | Diesel driven standby Pump for Hydrant    | 2280 Lpm @88m Head | 1        |
| 4.   | Fire Panel                                | -                  | 1        |

**(iv) General Pumphouse**

**List of Equipments installed in General Pumphouse**

| S.No | Equipment Description                  | Capacity        | Quantity |
|------|--|-----------------|----------|
| 1.   | Pump -1 (RO water to Lab)              | 3 phase/12.5 HP | 1        |
| 2.   | Pump - 2 (Raw water to Buildings/Labs) | 3 Phase/5 HP    | 1        |
| 3.   | Submersible dewatering pumps           | -               | 2        |
| 4.   | Tracks feed pumps                      | 5.5 KW          | 2        |

**(v) Water Treatment Plant : Capacity 32 KL / Hr.**

**List of Equipments installed in WTP**

| S.No | Equipment Description              | Capacity                         | Quantity |
|------|------------------------------------|----------------------------------|----------|
| 1.   | Clarifier feed pump                | 25 M <sup>3</sup> / Hr @ 8 MWC   | 3        |
| 2.   | Filter feed pump                   | 32 M <sup>3</sup> / Hr @ 30 MWC  | 3        |
| 3.   | Sludge transfer pump               | 22 M <sup>3</sup> / Hr @ 10 MWC  | 2        |
| 4.   | Filter press feed pump             | 4 M <sup>3</sup> / Hr @ 35 MWC   | 1        |
| 5.   | Treated water transfer pump        | 32 M <sup>3</sup> / Hr @ 35 MWC  | 3        |
| 6.   | Dewatering pump                    | 40 M <sup>3</sup> / Hr @ 20 MWC  | 2        |
| 7.   | Alum dosing pump                   | 100 LPH @ 1.5 kg/cm <sup>2</sup> | 2        |
| 8.   | Poly dosing pump                   | 6 LPH @ 3.5 kg/cm <sup>2</sup>   | 2        |
| 9.   | Hypo dosing pump                   | 6 LPH @ 3.5 kg/cm <sup>2</sup>   | 2        |
| 10.  | Flash mixer - 1.8x2.2x2.5m         | -                                | 1        |
| 11.  | Flocculator - 3x2.2x2.5m           | -                                | 1        |
|      | Sludge Holding Tank mixer          | -                                | 1        |
| 12.  | Pressure Sand Filter               | -                                | 2        |
| 13.  | Softener (Base Exchanger)          | -                                | 2        |
| 14.  | Brine Measuring Tank               | -                                | 1        |
| 15.  | Bag filter                         | 32 M <sup>3</sup> / Hr           | 1        |
| 16.  | Filter press                       | -                                | 1        |
| 17.  | Electric control panel             | -                                | 1        |
| 18.  | Scada monitoring system with panel | -                                | 1        |



Tender No: 226/NATRIp/GARC/CIVIL-General Maintenance /2019-2020/333

**ANNEXURE 'A'**

**DETAILS OF MAN POWER (TO BE GIVEN BY THE BIDDER AS TECHNICAL PART)**

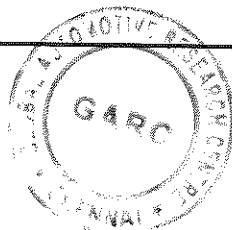
| S.No | Name of the Staff | ESI/EPF No. | Qualification | Experience | Remarks |
|------|-------------------|-------------|---------------|------------|---------|
|      |                   |             |               |            |         |
|      |                   |             |               |            |         |
|      |                   |             |               |            |         |

**ANNEXURE 'B'**

**DETAILS OF WORK EXPERIENCE**

| S. No | Name & Address of the Organization | Value of contract | Duration of the Contract |    | Remarks |
|-------|------------------------------------|-------------------|--------------------------|----|---------|
|       |                                    |                   | From                     | To |         |
|       |                                    |                   |                          |    |         |
|       |                                    |                   |                          |    |         |
|       |                                    |                   |                          |    |         |

*[Handwritten Signature]*



Bidder's Signature & Seal



Tender No: 226/NATRIp/GARC/CIVIL-General Maintenance /2019-2020/333

---

The bidder should give the following declaration while submitting the Tender.

**ANNEXURE 'C'**

**DECLARATION**

I/We having acquainted with the content & requirement of this Tender, do hereby accept to furnish the same in compliance with all terms & conditions. I/we have not tampered/modified the tender in any manner and breach of any such, will result in rejection of Tender and / or prosecuted.

I / We hereby declare that the firm/company has not been blacklisted or debarred in the past by any other Government organization from taking part in Government tenders.

In case the above information found false or in case of breach of any of terms and conditions at any stage of Tender or Contract, I/We are fully aware that the Tender/ Contract will be rejected / cancelled by GARC and Payments (for completed/partially completed), Retention, Bid Security (EMD), Performance Security, etc., shall be forfeited.

Signature of the Bidder:

---

Name and Designation:

---

Address:

---

Place:

Date:

Seal of the Bidder's Firm





Tender No: 226/NATRIP/GARC/CIVIL-General Maintenance /2019-2020/333

**ANNEXURE 'D'**

**FINANCIAL BID**

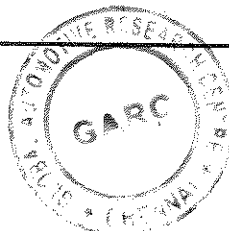
**CONTRACT FOR ANNUAL OPERATION & MAINTENANCE**

| S. NO | DESCRIPTION                                | Unit | QUANTITY | RATE (Rs.) / month | Rate in Words | Amount (Rs.)/month |
|-------|--|------|----------|--------------------|---------------|--------------------|
| 1.    | OPERATOR                                   | Nos. | 3        |                    |               |                    |
| 2.    | SHIFT RELIEVER                             | Nos. | 1        |                    |               |                    |
| 3.    | Test Charges per month (for STP, RO & WTP) |      |          |                    |               |                    |
| 4.    | Amount per month                           |      |          |                    |               |                    |
| 5.    | GST  |      |          |                    |               |                    |
| 6.    | Total Amount per month                     |      |          |                    |               |                    |
| 7.    | Total Amount per year                      |      |          |                    |               |                    |

**Total Amount per year (in Words):**

**Bidder's Signature & Seal**

*Red*



**Bidder's Signature & Seal**