

**DNIT FOR THE WORK OF  
05 KLD CAPACITY FAECAL SLUDGE  
TREATMENT PLANT (FSTP)**

**AT  
MUNICIPAL CORPORATION, AMBIKAPUR  
DISTT. SURGUJA (C.G.)**

**COMMISSIONER  
MUNICIPAL CORPORATION, AMBIKAPUR  
DISTT. (C.G.)**

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## 1. INTRODUCTION

Municipal Corporation, Ambikapur Distt. Surguja (CG) intended to install Faecal sludge treatment plant based on HYBRID Technology (Bio treat + MBBR Technology with lamella clarifier) to treat the faecal sludge generated from operation of SEPTIC tank cleaning/collection. Majorly sewage generated by house hold sewage water in a septic tank.

## 2. SCHEDULE- (I) - GENERAL TERMS & CONDITIONS ELIGIBILITY CRITERIA

E-Tenders are invited from the reputed Manufacturers/contractors having experience in design, fabrication, supply, erection, testing and commissioning of Septage treatment plant of 05 KLD based on HYBRID Technology (Bio treat + MBBR Technology with lamella clarifier) for Municipal Corporation, Ambikapur Distt.-Surguja on Turnkey basis.

### 3. SCOPE OF WORK:

- 3.1 Design, fabrication, supply, erection, testing and commissioning of Septage treatment plant of 5 KLD based on HYBRID Technology (Bio treat + MBBR Technology with lamella clarifier) including all civil, mechanical and electrical works,for Municipal Corporation, Ambikapur Distt. Surguja with **one-year operation & maintenance of the plant after successful commissioning.**
- 3.2 To provide training to operate FSTP to **ULB** personnel.
- 3.3 To get approval required to operate FSTP from CGPCB and any other department as per requirement. Contractor will have to submit two consecutive quarterly treated Sewage sample report from CGPCB /approved Laboratory with respect to standard laid down by CGPCB under IS:2490. Official fees for consent renewal will be paid by Municipal Corporation, Ambikapur Distt. Surguja (C.G.) ..... on submission of proper receipt.
- 3.4 The Bidders are requested to go through the tender document's instructions and various terms and conditions contained in NIT **except as modified/laid-down hereunder**. It may be that no conditions or stipulations to the contrary or which are inconsistent will not be accepted. **Bidders are required to ensure that all such parts of the tender document like Schedules, Annexures etc. (duly filled-in & signed) except the Price Bid, are submitted with physical submission of the "Technical Bid". The Bidders should also note that in absence of any of the Schedules & Annexures, etc. except Schedule (IV) of "Price Bid" their "Technical Bid" is likely to be rejected.**

## 4. TENDER SUBMISSION

- 4.1 As per ATTACH NIT

**5. BIDDER'S TECHNICAL QUALIFICATION CRITERIA: -**

5.1 The selection of bidder for project of 5.00 KLD STP for the purpose of bidding. The Bidder shall meet the following minimum criteria & Technical Bid must have accompanied the followings to qualify for opening of the Price Bid. If Bidder may not be able to fulfil the listed requirements, then **bidders Price Bid** will not be opened.

5.2 The Bidder, in the same name and style, should be **in business at least for last 2 years work order** at time of bid opening. In case of change of name of Bidder by merger / acquisition /change in status, the bidder may be eligible based on the documentary evidence.

5.3 The Bidder should have valid registration certificate. The Bidder must submit the details of PAN & GST with the documentary support. **However this is not limited to Income Tax, Companies, GST, Service Tax, IGBC Registration, etc. can be whenever needed then the contractor has to furnish.**

5.4 The Bidder in the same name & style shall have **successfully executed /completed contracts of similar nature during the last 3 years** ending last day of the month previous to the month in which bid is opened, either of the following, as per enclosed **Annexure- (III)**. The Bidder's should have **financial turnover of Rs. 25.00 Lakhs (Average) in the same name and style during each of the last 3 years (i.e.2016-17, 2015-16, 2014-15) ending 31<sup>st</sup> March in business of supply of STP on turnkey basis** as per enclosed **Annexure**

5.5 The Bidder in the same name and style shall have successfully executed / completed contracts of similar nature during the **last 03 years** ending last day of the month previous to the month in which Bid is opened. either of the followings: -

**(I)** One contract / work of similar nature capacity not less than 80 % of the tendered capacity of the proposed F.S.T.P.

**OR**

**(II)** Two contracts / works of similar nature each capacity not less than 60 % of the tendered capacity of the proposed F.S.T.P.

**OR**

**(III).** Three contracts / works of similar nature each capacity not less than 40 % of the tendered capacity of the proposed F.S.T.P.

**Similar nature of works means Sewage treatment plants based on MBBR Technology, preferably for successfully project executed for Sewage at colony/hospital in India.**

**6. DOCUMENTS COMPOSING THE BID: -**

**6.1 TECHNICAL BID: -**

- ∞ Documentary proof to qualify the eligibility criteria.
- ∞ Technical Data related to the system offered
- ∞ All technical data, drawing, design and details required as per tender document
- ∞ Tender document each page sealed and signed as token of acceptance to each and every terms and conditions.
- ∞ All documents (Work order copy, completion certificates) related to the previous executed projects for residential.
- ∞ All documents pertaining to the experience similar work execution.

**6.2 PRICE BID: -**

Bidders are requested to fill price format as per prescribed format only in given Schedule (**Online only**).

**6.3 BID VALIDITY: -**

Bid shall be valid for a period of **120 days** from the date of opening of Price Bid.

**6.4 COST OF BIDDING: -**

The Bidder shall incur all costs associated with the preparation and submission of its bid, and ULB in no case shall be responsible for any cost incurred by bidder.

**6.5 BID PRICE: -**

Price indicated on the price schedule shall be inclusive of all taxes and other expenses like illustrated below. Any kind of taxes and duties or charges in addition to illustrate below shall not be paid extra by the ULB (Which is applicable).

-GST

-Packing and  
forwarding -Freight

-Loading and unloading

**6.6 BID CURRENCY: -**

All prices shall be quoted in Indian rupees ONLY

## **7. SECURITY DEPOSIT**

Security deposit @ 5% of each payment to the Bidder shall be kept towards security deposit and this amount will be refunded after completion of defect liability period. No interest will be paid by the ULB on security deposit. Income Tax & other shall be deducted as per the norm.

## **8. PERFORMANCE SECURITY:**

The Contractor shall have to submit performance security of amount equal to 5.00 % of the accepted cost at the time of signing of the contract in the form of Bank Guarantee issued by any nationalized/Scheduled banks. The contractor shall have to ensure that such performance security remains valid up to the completion of Operation and Maintenance period as per NIT.

## **9. AGREEMENT: -**

Successful Bidder has to submit the non-judicial stamp paper of Rs.100/- & sign the agreement within 15 days from the date of issue of rate acceptance letter by Municipal Corporation, Ambikapur. If Bidder failed to execute the agreement within the specified time the E.M.D. shall be forfeited with termination of tender.

## **10. GENERAL (Important) NOTE FOR INTENDING BIDDER**

- 10.1 The Bidders are expected to have visited the site before filling in the rates, to assess access to site, topography and physical features of the site, the nature of the soil, the depth and variation of the sub-soil water, outlet drainage arrangement, disposal arrangement of liquid and solid effluents and the problems that are likely to be encountered in construction or are likely to affect the design before filling in the rates.
- 10.2 After acceptance of the tender, the successful bidder shall submit **05** copies of design & drawings of the following sets of drawings normally within **15** days from the date of receipt of acceptance letter.
  - (a) All detailed working drawings showing dimensions of the various components of the structure should be submitted by the successful bidder.
  - (b) All detailed technical drawings of the foundations, superstructures etc. showing all the details of the reinforcement, the details of the foundations, columns, vertical walls, plasters, pathways, plinth protections, railings etc. should also be given on a large scale, for each unit of the F.S.T.P.
- 10.3 Due weightage shall be given to the past experience, effectiveness, efficiency of the system with benefits and advantages etc.

10.4 For any technical clarification / interpretation decision of **Executive Engineer** shall be final. Also it should be clearly understood that in the event of successful Bidder failing to accept and execute the work order, decision of the Commissioner, Municipal Corporation Ambikapur in this respect will be final and binding on the Bidder.

## **11. COMPLETENESS**

11.1 It is not the intent to specify completely herein all details of the work. Nevertheless, work shall be complete and operative in all aspects.

11.2 Any material or accessories which may not have been specifically mentioned but which are necessary for usual, satisfactory and trouble free operation of the system, shall be furnished by the contractor without any extra charge to Municipal Corporation Ambikapur

## **12. PROJECT COMPLETION SCHEDULE**

Time of completion of work shall be **03 Months**, including rainy season from the date of signing of the agreement.

## **13. PENALTY ON LATE COMPLETION /LIQUIDATED DAMAGES**

The time period to complete the work should be strictly adhered. In case they are not followed or in case of delay in execution or non-execution of the order, the Municipal Corporation Ambikapur reserves the right either to cancel the order and make alternative arrangement from other sources at the risk and cost and expenses of the contractor. In case the contractor delay in completion of the work as per schedules, the following liquidated damages will be charged as per Municipal Corporation Ambikapur Distt. Surguja (C.G.) directives: -

<b>S.NO</b>	<b>DURATION OF DELAY</b>	<b>LIQUIDATED DAMAGE</b>
1.	1 Week	1% of contract price
2.	1 to 4 Weeks	2% of contract price
3.	Beyond 4 Weeks	5% of contract price

## **14. CO-ORDINATION OF PROJECT**

The contractor shall co-ordinate with Municipal Corporation Ambikapur officers/ Engineers and/or Consultant at site for execution of project to monitor quality of work & fulfil the design criteria & specification of FSTP provided in bid.

## 15. PROTECTION TO EQUIPMENTS

The contractor shall effectively protect supplied equipment's/ material at his own expense, such work, equipment or material as may be liable to damage, theft or tampering during erection. Insurance charges etc. for the above shall be borne by the contractor till handing over of complete installation of FSTP to the Municipal Corporation Ambikapur as per terms and conditions of contract

## 16. GUARANTEE / DEFECT LIABILITY PERIOD: -

- 16.1 The defect liability period shall be 3 months from the date of the successful commissioning of all the component of the FSTP
- 16.2 Successful commissioning date of **FSTP** will be comprises of not only the satisfactorily completion & working of all components of F.S.T.P. but also includes the **1st treated Sewage sample report from CGPCB/APPROVED Laboratory with respect to standards laid down by CGPCB under IS:2490 or as per tender requirement, which is lower.**
- 16.3 Any defect / defects found during the defect liability period shall be rectified / replaced by the contractor within time period specified as may be necessary for the proper running of plant at his own cost on providing intimation by the Municipal Corporation Ambikapur.
- 16.4 On non-compliance of the above clause the Municipal Corporation Ambikapur keeps the right to do the rectification/ replacement needed to run the plant departmentally / through engaging some other agency / agencies and the cost of it will be recovered from the security deposit or by encashment of amount from the Bank Guarantee.

## 17. FORCE MAJEURE

- 17.1 The terms and conditions mutually agreed upon shall be subject to the Municipal Corporation Ambikapur shall be considered in default in performance of its obligations here under, if such performance is prevented or delayed because of war, hostilities, revolution, civil commotion, strike, epidemic, accident, fire, wind, flood, earthquake or because of any law, order proclamation, regulation or ordinance of any government or any nature, beyond the reasonable control of the party affected. Should one or both of the parties be prevented from fulfilling his/their contractual obligations by state of force majeure lasting continuously for a period of six weeks, the two parties should consult with each other regarding the future implementation of the contract of the purchase /work order.



## **18. ARBITRATION**

18.1 For all the matters of dispute between the successful Bidder and Municipal Corporation Ambikapur shall be sole arbitrator as per the provisions of the Indian Arbitration Act, 1940, and his decision shall be final and binding on both the parties (Contractor & Municipal Corporation Ambikapur).

18.2 For all judicial issues the venue of jurisdiction shall be Distt. Surguja CG only

## **19. PAYMENT CONDITIONS: -**

### **A. CAPITAL WORK**

The payment for various items under the schedule will be made based on the actual work completed satisfactory. For payment under schedule the payment conditions will be as under (Excluding cost of operation & maintenance): -

**Stage No. (1):** -Mobilisation, Survey and investigation, Site development – 15%

**Stage No. (2):** -Supply of Equipments – 40%

**Stage No. (3):** -Installation of Equipments with civil, mechanical and electrical works – 25%

**Stage No. (4):** - Trial Run and commissioning – 20%

### **B. OPERATION & MAINTENANCE**

Monthly payment will be made after successful operation & maintenance in each month after submission of, Maintenance record, preventive maintenance record, chemical consumption record, attendance register, wage register, Inlet sewage & outlet treated water analysis report as tender condition by MOEF/CPCB/CGPCB recognized laboratory for that particular quarter

## **20. SCHEDULE- (II) SPECIAL CONDITIONS OF CONTRACT**

The following Special instructions to bidders shall supplement the General conditions of Contract, wherever there is a conflict the provision herein shall prevail over those in the General conditions of Contract.

20.1 The bidder shall include a list of recommended spare parts for following

20.2 Normal operations of one year under his scope of services

20.3 Two years trouble free operations, after handing over to Municipal Corporation Ambikapur list shall state the price of all spare parts for maintaining store inventory.

20.4 Any disposal of material in plant area shall be prohibited. The waste/dispose material shall be disposed from plant by the Municipal Corporation Ambikapur

- 20.5 The plant shall include such fencing, guards, hand-railing, access steelwork, walkways, etc., for proper functioning of treatment plant, as may be required to meet the current relevant regulations for the safety of personnel and of the plant, and to afford adequate and safe access to all parts of it. All shall be of substantial design and construction. All moving parts shall be covered with safety guards. Where corrosion or abrasion of materials may be expected from contact with water or sediment or from any other cause, the Contractor shall supply suitably resistant materials. The Contractor shall make all reasonable efforts to reduce noise and vibration to a minimum. All rotating parts of the plant shall be statically and dynamically balanced so that they operate over all specified conditions without undue vibration. The equipment and system involved shall be designed such that noise level at any operating time shall not exceed 85 dB at 3 m distance from equipment.
- 20.6** All chemicals, nutrients and first fill of lubricants for equipment as necessary for commissioning and operation & maintenance of the plant shall be provided by the contractor. Municipal Corporation Ambikapur will provide water & electricity free of cost to contractor after commissioning of plant.
- 20.7 Platforms, ladders, walkways and railings for the safe and easy access to the units shall be provided. CI rungs shall be provided for safe and easy maintenance of all chambers, manholes and plant units.
- 20.8 After commissioning of plant, one Year operation & maintenance of FSTP run shall be provided by the Contractor. the representative of project authority. One Raw & one Treated water analysis in each month's report by third party, which is approved from CPCB/CGPCB/approve laboratory, shall be done by contractor at his own cost. Analysis of the composite raw and treated effluent samples for 7 consecutive days for all the effluent parameters, specified in the consent note, at an external laboratory approved by MoEF under EPA act 1986 or from the CGPCB laboratory. The results shall conform to the performance guarantee for the plant which shall be a pre requisite for the takeover of the plant. In case of non-compliance to the guaranteed treated effluent quality for given design input conditions, the Contractor shall take necessary measures to bring the plant to the desired performance.
- 20.9** In case during the guarantee test run, the influent flow is less than rated input the contractor shall not be responsible for input quantity. He shall ensure quality if the effluents irrespective of the input rate
- 20.10 The contractor shall provide list of spare parts to maintain necessary inventory by owner for routine / smooth operation & maintenance of FSTP after successfully handing over of FSTP.
- 20.11 The levels of inlet unit of FSTP shall be such to allow desludging equipment in disposing septage to the unit by gravity.

- 20.12 All electrical works including electrical motors for the various equipment, cabling, Motor Control centre, starters, earthing conductors and earth pits etc. are to be provided by the Contractor. The scope of work includes all necessary civil works like panel foundations, cable trenches, cable supports, unit lighting, etc. complete. Commissioning of all the equipment/facility (i.e. FSTP) shall be within the scope of contract. Power or electricity cost shall be borne by the contractor during the construction phase.
- 20.13 The contractor shall guarantee for design, workmanship and performance for all bought out items shall be made available to the purchaser/owner and shall be valid at least for the entire defects liability period. **In the event of failure of any particular equipment which fails more than three times during the guarantee period as mentioned in clause below, the contractor shall replace at his own cost that equipment.** Manufacturer's/Contractor's guarantee, as mentioned in clause above, for such replaced equipment shall also be made available to the purchaser/owner and should be kept throughout the contract period from the date of last replacement.
- 20.14 Bidder should also mention (i) tentative area required, (ii) power consumption / load, (iii) chemical requirement, (iv) manpower requirement for operation, (v) Footprint layout diagram, (vi) Hydraulic profile diagram for offering equipment's for FSTP and tools operation & maintenance of FSTP along with turnkey quote for 05 KLD FSTP in his **Technical Schedule**.
- 20.15 All the necessary valves for the entire treatment plant piping as required shall be provided. The valves shall conform to the relevant BIS standards and shall be provided as per the design requirements and piping network.
- 20.16 Client shall provide space for contractor office. The contractor shall have to establish his site office, storage, toilet facility with septic tank, water arrangement, electricity/power arrangement for construction at his own cost. Fresh water supply line to the FSTP site shall be provided by the Client/ Employer.
- 20.17 Contractor shall produce working drawings for approval from client before construction/ installation and As-built drawings.
- 20.18 The contractor shall conduct all necessary survey and investigation required for designing the plant.
- 20.19 The Contractor shall ensure all necessary safety arrangement at site including first aid facilities.
- 20.20 The contractor shall submit O&M Manual and provide training to the municipality.
- 20.21 Area lighting is not under the scope of this contract.

- 20.22 Supply of power to MCC Panel at FSTP shall be provided by Client/ Employer.
- 20.23 The contractor shall provide all tools, tackles, man power, storage facility for the safety of the equipment and other utilities during erection and commissioning.
- 20.24 On completion of the Works in accordance with the agreement the contractor shall remove those facilities not required during the Defects Liability Period. At the end of the Defects Liability Period the Contractor shall remove the remaining facilities from site. The Contractor shall take down and remove all structures connected with this camp, and shall take out all pipes, drains and culverts, backfill trenches, fill up all latrine pits, soak ways and other sewage disposal excavations, and shall restore the site as far as practicable to its original conditions and leave it neat and tidy to the satisfaction of the client.
- 20.25 If the bidder or contractor feels lack of transparency or ambiguity in the document, he shall request clarification at least 07 days prior to address or take up the activity and it will be resolved by the Engineer prior to proceeding with the specific work/purpose. In case, the contractor fails to place such ambiguity for clarification before such days prior to proceed for the work, decision of client's Engineer will be final. The contractor has to do the work without additional cost and time.

**Commissioner**  
Municipal Corporation  
Ambikapur