

CENTRAL UNIVERSITY OF PUNJAB

Established vide Act No. 25 (2009) of Parliament

Tender No.: M-39(2014)



Tender Notice for Supply, Installation, Testing & Commissioning of
Sewage Treatment Plant (STP)- 50 KL/Day Skid mounted (MS Structure)

Release Date : November 20, 2014

Last Date : December 11, 2014; 5:00P.M.

City Campus, Mansa Road, Bathinda- 151001,
E-mail: registrar@cup.ac.in, Tel/Fax: 0164-2864106,

Central University of Punjab, Bathinda

Central University of Punjab invites sealed tenders from original equipment Manufacturers/Authorized Dealers for supply, installation, testing and commissioning of *Sewage Treatment Plant (STP)-50 KL/Day Skid Mounted (MS Structure)*.

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|---|---|---|
| Tender Notice Number | : | M-39(2014) |
| Release Date of the Tender | : | November 20, 2014 |
| Last date for the submission of Tender | : | December 11, 2014; 5:00P.M. |
| Opening date of Tender | : | The Tenders/Quotations will be opened at the University campus on the day following the last date of receiving of tender at 3.00 P.M. |
| Name and Address of the University | : | Registrar, Central University of Punjab, City Campus, Mansa Road, Bathinda – 151001, Punjab, India. |
| Tel./Fax | : | 0164-2864106 |
| E-Mail Address | : | registrar@cup.ac.in |
| Tender Fee (Non-Refundable) | : | Rs. 1,000/- drawn in favour of Central University of Punjab, Bathinda. |
| Earnest Money Deposit (EMD) | : | Rs. 30,000/- drawn in favour of Central University of Punjab, Bathinda. |

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GUIDELINES FOR PREPARATION OF TENDER

- 1 Tender fee along with Earnest Money Deposit (EMD) and all other necessary documents should be submitted for the equipment. The main envelop should super- scribe: “***Tender for Sewage Treatment Plant, Last date of submission December 11, 5:00 P.M.***”.
- 2 The proposals shall be submitted in two parts, viz. **Technical bid and Financial bid** in two separate sealed envelopes (with respective marking super-scribed in bold).
- 3 The first envelope (envelope 1) marked “**Technical bid**” should include the technical specifications. The first envelope should not contain any cost information whatsoever.
- 4 The second envelope (envelope 2) marked “**Financial bid**” should contain the detailed price offer in prescribed format.
- 5 Both the sealed envelopes Technical bid and financial bid should be placed in a bigger sealed cover. The top of cover must also contain Name and Address of the tenderer, telephone and other contact details for further correspondence.
- 6 Financial bid and Technical compliance sheet for each instrument should be strictly as per tender format, and signed on each page.
- 7 Blank Tender Forms for the above items along with details can be downloaded from ***www.centralunipunjab.com or www.cup.ac.in***. The non-refundable application fee of Rs. 1000/- must be accompanied with tender.
- 8 Tenders must accompany a copy of the “***Eligibility Criteria and General Terms and Conditions***” section of this document, signed and stamped on each page indicating that they agree to these.
- 9 Last date of submission of tender along with requisite fee, EMD and all documents is December 11, 2014.
- 10 The DD for application fee, EMD or any other must be drawn in favour of Central University of Punjab, Bathinda.
- 11 The Tenders/Quotations will be opened at the University campus on the day following the last date of receiving of Tenders/Quotations at 5.00 P.M. If the last date of submission is declared holiday in CUP (in exceptional cases), the date of submission and tender opening will be next working days, respectively. .

- 12 The tenders received late, without tender fee, without earnest money, without required documents or incomplete in any respect / Misleading will out rightly be rejected. Electronic submission of documents (by facsimile, email and so on) is not acceptable.
- 13 If the supplier/firm is manufacturer/authorized dealer/sole distributor of any item, the certificate to this effect should be attached.
- 14 Availability of Spares: The tenderer must give certificate duly signed and stamped by manufacturer for the availability of spares and servicing of instrument for at least 10 years. Supplier should give an undertaking that spares parts will be supplied within the specified periods as and when ordered.
- 15 Apart from all these terms and conditions, specific terms as specified for each instrument must also be complied.
- 16 The tender competing in technical evaluation will only be considered for financial evaluations. The price envelops of others will not be considered. At second stage, financial bids of only technically acceptable offers should be opened for further evaluation and ranking before awarding the contract.
- 17 The financial proposal shall be opened in the presence of the tenderers or their representative who choose to attend. The prior information in this regard will be given to the qualified tenderers. The printed literature and catalogue/brochure giving full technical details should be included with the technical bid to verify the specifications quoted in the tender.

GENERAL FINANCIAL TERMS AND OTHER CONDITIONS

1. **Prices:** Quoted prices should be firm and FOR Central University of Punjab (CUPB), City Campus, Mansa Road, Bathinda and complete break up of all taxes and duties payable by the university should be clearly defined otherwise it will be presumed that the rates quoted are inclusive of all these charges and nothing extra will be paid. **Special Discount/ Rebates, whichever applicable to an educational Institution, may also be specifically indicated.**

2. **Payment terms: Payment terms:** Payment will be made as per following.
 - i. 30% payment may be made on completion of Civil Works.
 - ii. 50% payment may be made on supply & erection of Mechanical part,
 - iii. And balance payment will be made on installation & successful working of the plant.

3. **Taxes:** All kinds of Statutory Taxes will be paid by the purchaser on the basis of supportive Documentary Evidence. However, no service tax will be paid as the University is exempted from the payment of the same as per Government of India Notification No. 25/2012 dated June 20, 2012.

4. **Validity:** Tenders/Quotations should be valid for three months from the last date of its submission.

5. **Opening of Tenders:** Tenders complete in all respect will only be considered. Tenders/Quotations will be opened at the University campus on the day following the last date of receiving of tender at 3.00 P.M., if the Tender opening day happens to be official Holiday then the tenders will be opened on the next working day, in the presence of bidders whosoever may wish to be present.

6. **Incomplete or Misleading Tenders / Quotations:** Tenders/Quotations duly sealed and sent only by post/courier will be considered. Tenders/Quotations received late or incomplete in any respect/ misleading without earnest money& without required documents will out rightly be rejected. No responsibility with regard to postal delays due to any reason whatsoever will be accepted.

7. **Right to reject:** The CUPB reserves right to accept/reject any or all the Tenders/Quotation sat any time without assigning any reason.

8. **Delivery Schedule:** Delivery schedule should be clearly mentioned in the Tenders/Quotations. In case of imported item, the supplier their Indian agent will be responsible for delivery of the material from the place of discharge of material to final point.

9. **Installations:** Installations and Training of the equipment under purchase, if any, will be of free of cost.

10. **Penalty for non/late delivery of material:** If the supplier fails to deliver the material/equipment within the stipulated delivery period of the Supply/Purchase order/contract the same is liable to pay penalty charges at 0.5% of the cost of undelivered goods/ services per week, not exceeding maximum limit of 10% of the cost of complete unit of undelivered equipment/material so delayed.

11. **Custom Duty & Excise Duty Exemption:** The University being a public funded and non-commercial research institution is exempted from paying Custom Duties vide notification no. 51/96-custom and the provision of the said notification will apply. University will provide DSIR certificate, Custom Duty Exemption Certificate (CDEC), road permit and other necessary certificates. Since the University does not have any Clearing Agent, the Supplier is requested to get the consignments cleared on behalf of the University. The admissible Custom Duty will be reimbursed to the Supplier on production of documentary evidence of payment of Custom Duty and also satisfactory installation report from the Indenter. The equipment should not be taken to warehouse/ Go-down and should come straight from the nearest Airport to the University. In case of inspection by the Custom, legible seal of Custom Officials should be present along the tearing of consignment.

12. **Security Deposit:**

a. You are required to submit within 30 days security deposit amounting to 5 per cent of ordered value either in cash/demand draft in favour of the Central University of Punjab, Bathinda or in the form of Bank Guarantee (BG) (for those firms as maintaining permanent earnest money with the university) on university's standard Performa for faithful execution of Supply/Purchase/Work order complete in all respect including warranty period.

b. On faithful execution of the Supply/Work order/contract on all respects, including warranty period, the security deposit of the contractors/supplier shall be released.

c. In the event of default on your part in faithful execution of Supply/Work order/contract, the security deposit shall be forfeited by an order of the Registrar of the University. The forfeiture of security deposit shall be without prejudice to any other right arising or accruing to the university under relevant provisions of the Supply/Work Order/contract like penalty/damages for delay in delivery provisions under Negligence& default clause including suspension of business dealings with the university for a specific period.

13. **Warranty/ Guarantee:**

a) The supplier/contractor shall be responsible to replace free of cost with no transportation and insurance expenses to the University up to the destination of material equipment, the whole or any part of the material which under normal and proper use and maintenance, proves defective in material or workmanship within 12 months from the date, it is taken over by the University or 18 months from the date of installation whichever expires earlier, provided the University gives

prompt written notice of such defects to the supplier/contractor. Such replacement shall be effected by the supplier/contractor within a reasonable time not exceeding 6 months of the intimation of defects. Supplier's/Contractor responsibility arising out of supply of material or its use whether on warranties or otherwise shall not in any case exceed the cost of correcting the defects or replacing the defective part/material and upon the expiry of the warranty period stipulated above, all such liabilities shall terminate.

b) The above provision shall equally apply to the material so replaced/repared by the Supplier/Contractor under this clause in case the same is again found to be defective within 12 months of the replacement/repair.

c) In case the replacement /repair of defective material is not carried out within six months of intimation of defects, the Supplier/Contractor shall have to pay interest @ 12 per cent per annum on the value of each complete operational unit of equipment beginning from the date of becoming defective up to date of its re-commissioning after replacement/repair.

14. **Civil Suit Jurisdiction:** All legal proceedings in connection with this Supply/Purchase order/Contract shall be subject to the territorial jurisdiction of the local Civil Courts, as per Indian Laws, at Bathinda only.

15. **Cancellation :** The University reserves the right to cancel the Supply/purchase order as a whole or in part at any time or in the event of default on the part of the Supplier prior to the receipt of information regarding taking in hand of the manufacture of material against the Supply/Purchase order/dispatch of material to the consignee.

TECHNICAL SPECIFICATIONS FOR SEWAGE TREATMENT PLANT- 50 KL/DAY SKID MOUNTED (MS STRUCTURE).

1. INTRODUCTION

The treatment of DOMESTIC effluent (Kitchen /sewage waste) suitable for 50 m³/day flow using appropriate latest treatment technology.

The total scheme of treatment is given, meeting specified discharge norms for reuse for maintaining garden or otherwise, process equipment details, scope of supply, commercial terms and conditions etc.

2. TREATMENT PROCESS

The plant should be designed based on latest technology incorporating FAB (Flowing Aeration Beds) Technology or better.

The effluent should be collected in effluent collection cum equalization tank. The effluent from sump will then be pumped into effluent treatment plant by employing effluent lift pumps at a constant flow rate. The treatment system should comprise of Reaction Tank, FAB Reactors, Secondary Sedimentation Section, Treated water sump and Pressure sand filter and activated carbon filter, sludge drying beds.

As it is a biological system it has to be operated continuously all 24 hours and there by constant feed of effluent is required. The effluent is passed through the screen to enable trap the floating debris followed by Oil & Grease Trap to remove the oil & Grease and then passed on to the equalization tank to reduce the suspended solid load in the effluent .Effluent will be passed through aeration tank (FAB) to oxidize the organic to CO₂ & H₂O by the aeration principal. Aeration tank is fitted with flowing media & no. of air diffuser of suitable capacity to provide necessary dissolved oxygen mixed to the effluent. The secondary clarifier/tube settler, which designed on low overflow rate, is provided after the aeration tank to enable separation of solids.

The clarified water collected from the collection launder of the Tube settler will be passed through filters and finally it is discharged on land for plantation or public sewer. The treated effluent shall meet the PPCB/CPCB norms for treated sewage water for irrigational purpose.

3. PROPOSED UNITS

- a) Bar screen (civil and Mild steel)
- b) Collection tank cum equalization tank/ septic tenk for homogenizing of the effluent (Civil work)
- c) Aeration Tank (FAB Reactor I &II) (Mild steel)
- d) Secondary Sedimentation (Clarifier) Tank (Mild steel)
- e) Pressure Sand Filter (Mild Steel)
- f) Activated Carbon Filter (Mild steel)
- g) Sludge Drying Beds (Civil)

4. MECHANICAL WORKS

| | | |
|-----|--|----------------------|
| 01 | Supply of Centrifugal Monoblock Sludge pump set to lift effluent, complete with suitable of 01 HP motor, 50 PLM at 10 m head with base, controller frame M.O.C. -Cast Iron body and Impeller shaft of high carbon steel. Make: Kirloskar /Crompton | 02 No. W+SB |
| 02 | Supply of Tubular diffusers for diffused aeration in FAB reactors complete with piping, valves & allied fittings. Make: Silicon based membrane | 01 Lot |
| 03 | Supply of Twin Lobe Rotary Air Blower complete with motor, base frame, silencer, V-belt drive assembly filter, lot for PRV Make: Blow Vac/ Guru Nanak ,Equivalent | 02 No. W+SB |
| 04 | Supply of FAB media for FAB reactor as per the requirement for removal of BOD/COD complete, suitable for 50 m ³ /day. Media make: Cool Deck | 01 Lot |
| 05 | Supply of Media for Secondary sedimentation tank as per the requirement for removal of solids complete with Tube setting and collection compartments suitable for 50 m ³ /day flow rate (24 hrs basis) with sludge withdrawal system. All RCC construction with PVC tube deck media and MS fittings. Media make: Cool Deck | 01 Lot |
| 06 | Supply and making connections within the plant with MS piping & necessary valves | 01 Lot |
| 07 | High Pressure Pumps for filters 15 M ³ /hr for 10 m head with 01 HP motor. Make: Kirloskar /Crompton | 02 No.s (1W+1SB) |
| 08 | Sludge recirculation pumps complete with suitable of 01 HP motor, capacity of 50 LPM at 10 m head with base, controller frame M.O.C. -Cast Iron body and Impeller shaft of high carbon steel. Make: Kirloskar /Crompton | 2.0 No.s (1W+1SB) |
| 09. | Multigarde Media Pressure filter and Activated Carbon filter with rubber lined internally | 1 + 1 = 2 Nos. |
| 10. | Screen grits(MS with epoxy coating) for screen chamber | 01 Nos. |
| 11. | MCC control panel for making connections to all Electric Drives to connect electrical main, starter & driving Motor. | 01 lot |
| 12. | Erection & Commissioning a) All types of civil works foundations, drains sumps, etc. b) All type of piping and valves upto inlet and outlet of the ETP. c) All types of electrical work including MCC and power cabling to the pump, motor and MCC etc. upto panel made within 10 m of STP. d) All other supplies required for working and services not specifically mentioned above. | |

4. CIVIL WORK

| | |
|-----|--|
| 01 | Bar Screen Tank |
| 02 | Equalization Tank |
| 03 | Foundations for Pumps, Filters etc. |
| 04 | Sludge Drying Beds |
| 06. | Clear water tank/treated effluent tank |

| | |
|-----|--|
| 06. | Any type of Civil required at the time of Erection |
|-----|--|

5. Other General information to be provided

1. Dimensional Drawing of civil work will be provided.
2. The total Electric load required.
3. Guaranty/ warranty of each electrical item.
4. Any other specific clarifications required from University side may kindly be mentioned.
5. Training to our staff for 2 weeks or need based.
6. All regenerate chemicals required for the initial start-up and normal operation of the plant for 6 months.

APPLICATION FORM

To be Filled Completely and Signed

1. Contact details of the head office of proposing firm:
 - a. Name-
 - b. Address-
 - c. Tel. No.-
 - d. Fax -
 - e. Email -
 - f. Web site (If any)

2. Name and full address of local office of proposing firm nearest to Bathinda:
 - a. Name-
 - b. Address-
 - c. Tel. No.-
 - d. Fax -
 - e. Email -
 - f. Web site (If any)

3. Name and full address of manufacturer:
 - a. Name-
 - b. Address-
 - c. Tel. No.-
 - d. Fax -
 - e. Email -
 - f. Web site (If any)

4. Name of advising bank and account number:

5. SWIFT Code:

6. PAN and TAN Number:

7. Manufacturing type (tick mark):
 - i. Imported
 - ii. Indigenous
 - iii. Both

8. Country(s) of origin:

9. Any other relevant information:

DECLARATION BY SUPPLIER

“It is certified that I/we have carefully read and understood the entire general, special as well as specific terms and conditions of these documents and agree to abide by all of these. All the information and commitments provided with the quotations are truthful and binding on the firm.”

Place:

Signature of Authorized Person

Date:

Designation

Seal

CHECK LIST

(TO BE FILLED COMPLETELY & PLACED IN ENVELOPE-I)

| Sr. No. | Points to be verified | Yes/ No |
|----------------|--|----------------|
| 1 | Technical specification compliance sheet | |
| 2 | EMD | |
| 3 | Tender Fee | |
| 4 | Photocopy of PAN and TAN card | |
| 5 | User list and certificates issued by clients | |
| 6 | Copy of income tax return certificate | |
| 7 | All other certificates as asked for in tender document a) Spare part availability certificate b) Certificate indicating country of manufacture c) Sales tax registration certificate d) Copy of "Eligibility Criteria and General Terms and Conditions" signed and stamped on each page | |

Place:**Signature of Authorized Person****Date:****Designation****Seal**