

**EXPRESSION OF INTEREST FOR PACKAGED TYPE SEWAGE TREATMENT  
PLANT OF CAPACITY 50 KLD AT IISER MOHALI, SECTOR 81-SAS NAGAR,  
PUNJAB.**

1. The Executive Engineer on behalf of the Director, IISER Mohali, invites online bids under two bid system i.e. technical bid and financial bid through E- Central Public Procurement Portal i.e. <https://eprocure.gov.in/eprocure/app> from eligible contractor for the work mentioned below.

**Name of work:- S/I/T/C of Modular STP of 50 KLD at IISER Mohali at IISER Mohali.**

**Tender Ref No** : IISER/EEEE/EstimateP/20-21/16  
**Estimated cost** : INR 15,48,000.00/-  
**Earnest Money** : INR 31,000.00/-  
**Stipulated period of work** : 10 weeks

**Critical Date Section**

<b>S. No</b>	<b>Particular</b>	<b>Date</b>	<b>Time</b>
1.	Tender publishing date and time	04.03.2021	02:00PM
2.	Tender documents download start date and time	04.03.2021	02:00PM
3.	Bid submission start date and time	04.03.2021	02:00PM
4.	Bid submission end date and time	15.03.2021	03:00PM
5.	Technical bid opening date and time	16.03.2021	03:05PM

1. Tender document may be downloaded from the website of E-Central Public Procurement portal (<https://eprocure.gov.in/eprocure/app>) and [www.iisermohali.ac.in](http://www.iisermohali.ac.in) . Tender should be submitted online along with valid documents of eligibility criteria within the date mentioned above.
2. The Director, IISER Mohali shall be the “Accepting Authority” hereinafter referred to as such for the purpose of this contract.
3. For any information, other modifications and/or corrigendum may kindly visit IISER Mohali website <http://www.iisermohali.ac.in> and also publish on <https://eprocure.gov.in/eprocure/app>.

**SUBMISSION OF TENDER:**

Tender shall be submitted by the Bidders in two parts:

**(i) Technical Bid. – Cover I (ii) Financial Bid. - Cover II**

The two bid system will be followed for this tender. In this system the bidder must submit bid **on line at E-Procurement Portal( i.e. <https://eprocure.gov.in/eprocure/app>)** his offer in two covers. "**Cover No. 1- Technical Bid along with requisite fee details and all forms under seal and signature of Bidder"** mentioned below and "**Cover No.2 - Financial Bid"** respectively.

The **Cove I** (Technical Bid) shall consist of following:

- i) **Earnest Money** -The bidder shall furnish as part of its bid, an EMD of Rs.31,000.00/- (Rupees thirty one thousand only). The EMD is to be submitted through Demand Draft of any Scheduled / Nationalized Bank (drawn in favour of “Registrar, IISER, Mohali”) or MSME certificate should be relevant to the work for which NIT called for.

**Note** - The original payment instrument like Demand Draft of any Nationalized Bank against Earnest Money and Cost of Tender Form sent to the address- **IISER Mohall, Sector-81, knowledge City, PO- Manauli, SAS Nagar Mohal1140306, Punjab** by post/speed post/courier/by hand before bid opening date & time

iii) **Important Documents uploads in .pdf format only:-**

- a) Scanned copy of DD of EMD. MSME certificate has to be relevant to the work.
- b) Scanned copy of IT Return for the last three financial years.
- c) Scanned copy of document as per Para 8.1
- d) Scanned copy of Tender Acceptance Letter

**The Cover II** (Financial Bid) shall consist of following:

- \* Schedule of price bid of in the form of BoQ\_XXXXX.xls (Will be formulated according to the type of work)

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Executive Engineer  
Head IWD, IISER Mohali



भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली  
(मानव संसाधन विका मंत्रालय का एक स्वायत संस्थान, भारत सरकार के अधीन)  
सैक्टर-81, नॉलेज सिटी, पो.ओ. मनौली, एस.ए.एस. नगर, मोहाली] पंजाब-140306



INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH MOHALI  
(Estd. By Ministry of Human Resource Development, Govt. of India)  
Sector – 81, Knowledge City, P.O. Manauli, S.A.S. Nagar, Mohali, Punjab -140306

Tender Ref. No.: IISER/EEEE/EstimateP/20-21/16

Date: 04.03.2021

**EXPRESSION OF INTEREST FOR PACKAGED TYPE SEWAGE TREATMENT  
PLANT OF CAPACITY 50 KLD AT IISER MOHALI, SECTOR 81-SAS NAGAR,  
PUNJAB.**

- 1.1 The Plants are for above ground installation having specifications and quantity as per the **Annexure-A** attached.
- 1.2 The Plants should be of Mild steel Construction of adequate strength, with FRP lining inside and Epoxy paint to approved colour outside.
- 1.3 The Plants should be capable of continuous operation or batch processing type operation and also suitable for operating on smaller loads and for shutting down and resuming operation after some time, if required.
- 2.1 The process should preferably be bacteria (or other organism) based for minimizing sludge production. The process should have the approval of Central Pollution Control Authorities.
- 2.2 The treated effluent should be suitable for re-cycling for use in flush Tanks and also for landscaping.
- 2.3 The Treated effluent should be free of colour and odour and should conform to the parameters laid down by the Central Pollution Control Authorities for re-cycling for the above uses.
- 2.4 The intending supplier should have similar type of plants installed and commissioned such type of plants of approximately capacity as 6.2 below or more and successfully operated the same (certificate of completion should be attached).
- 3.0 The Institute will provide the following:
  - 3.1 Equalization Tank of recommended capacity.
  - 3.2 Treated effluent storage tank.
  - 3.3 Foundation platform for placing the plant, to suit the loading required.
  - 3.4 Power supply as per requirement at a pillar box near the plant.
- 4.0 Other than the above all equipment electrical, mechanical, screens, filters and ladders and anything else required to make the plant complete and workable should all be part of the supply in the scope of the supplier.
- 5.0 Notwithstanding, the approvals of the Institute, the safety and serviceability of the plant is the sole responsibility of the suppliers.
- 6.0 The supplier should unconditionally indemnify the Institute from any legal proceeding by any persons or Body, National or International arising out of any patented process that

- may be employed in manufacture/supply by this equipment.
- 6.1 The supplier will get the test report with regard to the characteristics of the treated water approved/passed from the State Pollution Board (PPCB) and have to comply with other statutory norms of PPCB/NGT, if required or deemed necessary for the smooth installation/operation of the Plant.
- 6.2 The supplier should have supplied and installed at least one package type sewage treatment plant of capacity 40 KLD in Central or State Govt/Central or State PSU/Autonomous body.
- 7.0 After installation and Commissioning the supplier should undertake to maintain (including spares and consumables, if any) the plant for a period of 1 year, under warranty. During this one year Institute personnel should be trained by the supplier.

**8.0 Expression of Interest should be submitted in the following manner:-**

- 8.1 Technical papers / bids should contain the Technical particulars of the plant like process, flow diagram physical sizes and weight of the plant, list of electrical and mechanical components, and any other details the supplier would like to include, like time required for installation and commissioning detail of similar plants installed by the supplier should be given along with the proof of having supply and installed one packaged type of plant of minimum capacity of 40 KLD as explained in para 6.2. Also undertaking for para 6.1 may also be provided alongwith Technical Bid.
- 8.2 Price bid should contain the details of the financial offer [including all applicable taxes and levies). Supply and Erection commissioning to be quoted separately.
- 8.3 Price quoted should include Transport up to the erection site in the Institute campus including unloading, and also transit insurance along with the cost of the material as indicated in **Annexure-A**.
- 8.4 EMD should contain the earnest money of Rs. 31,000/- in the form of demand draft in favour of Registrar, IISER Mohali, payable at Chandigarh.

**9. Method of selection:-**

- 9.1 The technical bids would be scrutinized and evaluated by a committee constituted by Director.
- 9.2 The technically qualified bidders would be invited to make a presentation to the committee and to discuss special conditions if any.
- 9.3 The committee will visit the site, if required, where the shortlisted vendors selected as an outcome of the presentation have installed the plant of similar capacity.
- 9.4 Based on the above the vendors will be finally selected for the purpose of opening of financial bids.
- 9.5 The Agency/contractor who is L-1 would be awarded the said work who should sign an agreement with the Institute and undertake the assignment immediately.
- 9.6 The Director IISER Mohali reserves the right to reject any or all the offers based on Technical Evaluation Report.
- 9.7 If the Financial offers of the successful applicant are considered by the Institute committee to be unreasonably high the Institute reserves the right to negotiate for the price to be reduced. If there is no agreement reached, the Institute reserves the right to cancel this invitation for Expression of Interest and decide further course of action by a fresh invitation or otherwise.

**10. General Conditions:-**

- 10.0 Time for supply at the Institute's campus:10 weeks from the date of order.

Performance guarantee: 5% of the quoted price to be furnished within 10 days of the placing of the order and must be valid for the time required for completing the work plus 60 days.

- 10.1 Security @ 5% will be deducted and will be released after completion of the defect liability period of one year from the date of handing over of the plant. Other taxes as applicable will be deducted.

11. **Dispute:-**

- 11.1 Any dispute arising out of this work would be referred to the sole Arbitrator to be appointed by the Director of the Institute.
- 11.2. If the dispute remains unresolved even after that, legal remedy may be sought, subject to the jurisdiction of the Local court Mohali

**LIST OF MACHANICAL & ELECTRICAL WORKS FOR 50 KLD PACKAGED STP**

<b>MACHANICAL</b>			
<b>Description</b>	<b>Make / Type</b>	<b>Specifications</b>	<b>Quantity</b>
Bar Screen in SS construction	Coarse Bar	Coarse Screen SS-316	One No.
Submersible Sewage Transfer Pumps	Grundfos/ Kirloskar/KSB	Flowrate: 3.75 M <sup>3</sup> /hr to 5 M <sup>3</sup> /hr. Head: 10m to 15m. Phase: 3 Phase, Power: 1 Kw, Type: Submersible.	Two Nos (1W+1S)
Air Blower	Everest/Kay International /Usha	Airflow: 140 M <sup>3</sup> /hr, Type: Twinlobe, Pressure: 0.35 Kg/ Cm <sup>2</sup> , RPM: 1500, Fluid Handled: Air	Two Nos (1W+1S)
Motor for Blower	Kirloskar/ Seimens/ ABB/ NGEF	Power: 5HP, Squirrel Cage Induction Motor, Foot Mounted, Phase: 3 Phase.	Two Nos (1W+1S)
Diffuser	OTT/ Rehaue (Germany)	Type: Tube, Membrane:Silicon, Size: 63 mm X 1000 mm, Ear Clamp: SS304	One Lot
Eco Bio Carrier Media	Surface area min. 500 m <sup>2</sup> /m <sup>3</sup>	Make: Aqurise/Anose Kaldness/ Small Boss	Required Quantity
Tube Settler	In House	FRP Baffle Tray in House with Media – Hunters Germany	One Lot
Filter Feed Pumps	Kirloskar	Model-KDS235+, Flowrate: 3.75 M <sup>3</sup> /hr to 5 M <sup>3</sup> /hr. Head: 20m to 25m, Phase: 3 Phase, Power: 1.5/2.0 Kw, 2800 RPM, Type: Monobloc	Two Nos (1W+1S)
Pressure sand filter with valves and media	Pentair/ Aventura	Type: Vertical, MOC: FRP, Type of media: Pebbles, Coarse sand and fine sand.	One No.
Activated carbon filter valves and media	Pentair/Aventura	Type: Vertical, MOC: FRP, Type of media: Activated Carbon	One No.
Electro Magnetic Flow Meter	Forbes/Marshall/ Endress Hauser	Flowrate: 2000 LPH to 50000 LPH	One No.
Interconnecting Piping, Valves & fittings	TATA/Jindal/Astar	PVC, CPVC, MS, GI, SS	One Lot
Electrical Control panel with cables	ABB/ L&T	In House	One No.
UV Sterilizer	Goodwin India/Grundfos/ Philips/Good Life	UV Bulbs Quartz: 39 Watts, No. of Bulbs: 3, Flowrate: 3500 LPH, MOC: SS307	One No.
Package Plant	MSFRP/ In House	MS Thickness: 6mm, FRP: 2.5mm, Paint: 2 Coats of epoxy paint, Port: MS Coupling required numbers.	One No.
Sludge Bag Filter	Techno Fungi/Eco-P	SS	One No.
Sludge Recirculation Pump	Kirloskar	3m <sup>3</sup> /hr, Head – 10 m	One No.
Aeration Grid for Equalization Tank	Tata/Jindal	MSEP	One lot
Coarse Diffuser	OTT/Rehaue	EPDM/Silicon	One lot
Air Grid for Bio Carrier	Tata/Jindal	MSEP	One lot
Filter Feed Tank	Syntax/Diplast	Capacity 2000 lt.	One no.
Pressure Guage	H. Guru	At Air Blowers and Pumps	As required
Level switches	Minilee	Inside tanks	As required
Anoxic tank	In house, as per design	With SS304 agitator as required	As required

Note : The above list is only indicative. Any other component or system required to make the plant completely operational should be indicated by the supplier and included in the quotation.

**TENDER ACCEPTANCE LETTER**  
(To be given on Company Letter Head)

Date:

To,  
Executive Engineer

IISER Mohali

Sub: Acceptance of Terms and Conditions of Tender.

Tender Reference No.: **Tender Ref. No.:** IISER/EEEEO/EstimateP/20-21/16

Name of Tender/Work :- **S/I/T/C of Modular STP of 50 KLD at IISER Mohali**

Dear Sir

1. I/We have downloaded/obtain the tender documents(s) from the above mentioned Tender/Work from the website(s) namely: as per your advertisement, given in the above mentioned website(s).
2. I/We hereby certify that I/We had read the entire terms and conditions of the tender documents (including all documents like annexure(s), schedule(s), etc.) which form part of the contract agreement and I/We shall abide hereby by the terms/conditions/clauses contained therein.
3. The corrigendum(s) issued from time to time by your department/organization too have also been taken into consideration, while submitting the acceptance letter.
4. I/ We hereby unconditionally accept the tender conditions of above mentioned tender document(s) in its totality/entirety.
5. In case any provision of this tender are found violated, then your department/organization shall without prejudice to any other right or remedy be at liberty to reject this tender/bid including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,

(Signature of the bidder, with official seal)