

**EXPRESSION OF INTEREST FOR PACKAGED TYPE SEWAGE TREATMENT PLANT OF CAPACITY 80 KLD AT IISER MOHALI, SECTOR 81-SAS NAGAR, PUNJAB.**

1.1 The Plants are for above ground installation.

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 just installed and commissioned such type of plants of approximately similar capacity or more and successfully operated the same.

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 and have to comply with other statutory norms, if required or deemed necessary for the smooth installation/operation of the Plant

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 Cover A 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.

8.2 Cover B should contain the details of the financial offer [including all applicable taxes and levies)

8.3 Price quoted should include Transport up to the erection site in the Institute campus including

unloading , and also transit insurance.

8.4 Cover C should contain the earnest money of Rs. 25,000/- in the form of demand draft in favour of Registrar , IISER Mohali, payable at Chandigarh. .

8.5 All the 3 covers should be placed in our outer cover superscribed “Expression of Interest for 80 KLD packaged Sewerage Treatment plant, so as to reach the undersigned on or before 3 pm on.27.12.2012.”

#### 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.

9.2 The committee will visit the site where the the shortlisted vendors selected as an outcome of the presentation have installed the plant of similar capacity.

9.3 Based on the above the vendors will be finally selected for the purpose of opening of financial bids.

9.4 The Agency/contractor who are L-1 would be awarded the said work who should sign an agreement with the Institute and **undertake the assignment immediately.**

9.5 The Director IISER Mohali reserves the right to reject any or all the offers based on Technical Evaluation Report.

9.6 If the Financial offers of the successful applicant is 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 :2 months form 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.

10.2 The Institute can increase the Quantity as per the requirement.

#### 11. Dispute:

11.1 Any dispute arising out of this work would be s 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 Honble High Court of Punjab & Haryana, Chandigarh.

## LIST OF MACHANICAL & ELECTRICAL WORKS FOR 80KLD PACKAGED STP

<b>MACHANICAL</b>			
<b>Description</b>	<b>Make / Type</b>	<b>Specifications</b>	<b>Quantity</b>
Bar Screen in SS construction	SS	Fine Screen	One No.
Submersible Sewage Transfer Pumps	Grundfos/ Seepax/ India Mart/ Goodwin India	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	Beta/ Everest	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	Tecpro	Type: Tube, Membrane: EPDM, Size: 63 mm X 1000 mm, Ear Clamp: SS304	One Lot
Eco Bio Block	In House		Required Quantity
Plate Settler	In House	FRP Baffle Tray dimensions: 1x0.5x0.25m	One Lot
Filter Feed Pumps	Seepax/ Grundfos/ BAS/ kirloskar	Flowrate: 3.75 M <sup>3</sup> /hr to 5 M <sup>3</sup> /hr. Head: 20m to 25m, Phase: 3 Phase, Power: 1Kw, Type: Monobloc	Two Nos (1W+1S)
Pressure sand filter with valves and media	Pentair/ Aventura/ Paul/ JMD Auqa	Type: Vertical, MOC: FRP, Type of media: Pebbles, Coarse sand and fine sand.	One No.
Activated carbon filter valves and media	Pentair, Aventura, Paul, JMD Auqa	Type: Vertical, MOC: FRP, Type of media: Activated Carbon	One No.
Mechanical Flow Meter	UKL/ Seimens	Flowrate: 2000 LPH to 50000 LPH	One No.
Interconnecting Piping, Valves & fittings		PVC, CPVC, MS, GI.	One Lot
Electrical Control panel with cables	ABB/ L&T	In House	One No.
UV Sterilizer	India Mart, Prima (UK)/ Seimens/ Goodwin India/ Grundfos	UV Bulbs Quartz: 39 Watts, No. of Bulbs: 3, Flowrate: 3500 LPH, MOC: SS307	One No.
Package Plant	MSFRP/ Sukriti Engineers/ Hach/ Zeon Enviro	MS Thickness: 6mm, FRP: 1.5mm, Paint: 2 Coats of epoxy paint, Port: MS Coupling required numbers.	One No.

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.