

INDIAN INSTITUTE OF TECHNOLOGY DELHI  
HAUZ KHAS, NEW DELHI-110016.

OFFICE OF THE EXECUTIVE ENGINEER (P)

विभाग/Dept.: - निर्माण/WORKS  
संदर्भ संख्या/Ref. No. 20.13.IWOR. 3156  
दिनांक/Date..... 3/10/13

Expression of Interest (EOI)

No. IITD/EE (P)/2013/---  
Dated: 03.10.2013

Executive Engineer (P), IIT Delhi on behalf of Board of Governors invites Expression of Interest for pre-qualification from reputed firms who fulfill the eligibility criteria in sealed envelope for the following work:

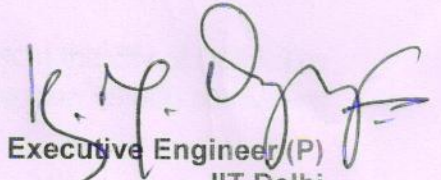
Sl. No.	Name of the job	Enquiry ref number
01	Setting up of a 2.5 MLD Sewage Treatment plant at IIT Delhi	

Last date & Time for Submission : 29.10.2013 before 3.00 P M

Date / Time for opening of EOI : 30.10.2013 at 4.00 P M

The Complete EOI document can be downloaded free of cost from our website [www.iitd.ac.in](http://www.iitd.ac.in) and may be submitted to Executive Engineer (P), Room No. MZ 137, IIT Delhi, Hauz Khas, New delhi-110 016 without any fee as per above schedule. Late / Delayed bid shall not be considered.

The Director, IIT Delhi reserves the right to accept or reject any or all bids either in part or in full without assigning any reasons thereof.

  
Executive Engineer (P)  
IIT Delhi  
(On behalf of BOG)



## INDIAN INSTITUTE OF TECHNOLOGY DELHI

Executive Engineer (P)  
Indian Institute of Technology Delhi  
Hauz Khas, New Delhi -110016

Reference No. IITD/EE (P)/2013

Date: 24.09.2013

### Expression of Interest (EOI) For

#### “Setting up of a 2.5 MLD Sewage Treatment Plant at IIT Delhi.”

#### 1.0 Invitation of EOI:

Indian Institute of Technology Delhi (IITD) intends to invite proposal from pre-qualified bidders to quote for the Sewage Treatment Plant (STP), brief details of the proposed STP are indicated below.

This enquiry is to formally request the Expression of Interest (EOI) as well as for pre-qualification of the interested bidders based on their:

1. Design Capability and Capacity.
2. Project Management Capability.
3. Experience on having executed STP projects based on similar technology.
4. Having executed similar projects involving design engineering procurement installation and commissioning.

IIT Delhi intends to set up Sewage Treatment Plant of approximate capacity of 2.5 MLD including a complete network of sewerage connecting to STP at IIT Delhi as a work of state of the art. The above mentioned capacity of STP may vary as per the availability of site/ land and other site constraints. The work being of highly specialised in nature, the objective of this document is to identify and short-list eligible firms who can execute the work from detailed design to commissioning of the project.

#### 2.0 Scope of work:

IIT Delhi (IITD) is situated at Hauz Khas in South Delhi, which is a landmark in the city of Delhi. The campus of the IITD extends to an area of 320 acres. IITD campus has more than 15,000 permanent residents and the campus area has been divided into four functional zones:

1. Residential zone for students.
2. Residential zone for the faculty and staff.
3. Academic zone for academic buildings and workshops.
4. Cultural-cum-social and recreational zone for students.

As per the latest government norms of Ministry of Environment & Forest (MoEF) wastewater should be treated before being discharged it into the sewer. IITD has decided to construct sewage treatment plant(s) inside the campus to treat the sewage and effluents generated within the campus.

The broad scope of work for the project involves following:



1. Detailed design, Engineering, Construction and Commissioning of Sewage Treatment Plant of capacity of 2.5 MLD in IITD campus.
2. Sewage from the different areas of campus shall be collected in a sump near plant area and from there it shall be transferred to Pre-treatment units (Screens and Grit Chamber) followed by Biological Treatment.
3. Biological treatment shall be based on Extended Aeration Technology with Anoxic Tank to provide for Nitrification and de-nitrification. Aeration tank shall be followed by clarifier.
4. The Biological Treatment system has been designed in two streams for greater flexibility and ease of maintenance purposes.
5. Biologically treated water shall be passed through constructed wetlands for the polishing of water before reuse or discharge into the storm water drain. Layout of the proposed plant is attached at the end of this document.
6. An Excess Sludge Storage Tank shall be provided to store the waste sludge. Further, sludge dewatering and storage (in bags or silos) system shall be provided such that it does not attract flies or emit foul odors.
7. Ultimate aim for the above treatment technology is to meet the standards for the reuse of treated sewage for horticulture purposes within the IITD campus.
8. Treated water quality shall be guaranteed for the following parameters:
  - a. pH between the range of 6.5 - 7.5.
  - b. BOD < 10 mg/l.
  - c. COD <30 mg/l.
  - d. TDS < 2 mg/l.
  - e. TSS <2 mg/l.
  - f. Total N < 10 mg/l.
  - g. Treated water shall be colorless and odorless.

### 3.0 Eligibility Criteria:

Applications may be submitted by a Single Bidder.

The following are the minimum technical and financial pre-qualification requirements for Single Bidders / firms meeting the minimum qualifications shall be rated and ranked according to the Marking Scheme presented in **Annexure D**.

Evaluation of the firms shall be done as per the Bidder Response Outline Sheet provided in this document, by the technical committee of IITD to shall shortlist firms. The short listed firm(s) will be issued Request for Proposal (RFP).

#### Minimum Technical Qualification Requirements:

- a.) The Bidder shall have a proven track record of successful implementation of municipal sewage treatment plants in the last **ten (10)** years. The details of the projects successfully commissioned together with the installed capacities, year of award of the contract, year of commissioning and certificates from the client/s to demonstrate the above-mentioned experience shall be submitted as a part of the EOI/PQ requirement.
- b.) The Bidder shall demonstrate proven track record of experience in the design, engineering, procurement, construction, commissioning and Operation & Maintenance of at least one **(1)** sewage treatment plants of capacities **2.0 MLD or more**, which should have been in



successful operation for at least **one (1)** year as of 30<sup>th</sup> September, 2013. Certificates from the client/s to demonstrate the above-mentioned experience shall be submitted as a part of the EOI / PQ requirement.

**Minimum Financial Qualification Requirements:**

- a.) Bidder should not have a positive Net Worth in the last 3 years proceeding 31<sup>st</sup> March, 2013.
- b.) The Bidder should not have reported a loss in any of the last three (3) financial years.
- c.) The bidder should have executed **ONE (1)** similar work costing **NOT** less than **Rs. 4.8 Crores** or **TWO (2)** similar works each costing **NOT** less than **Rs. 3.6 Crores** or **three (3)** similar works each costing **NOT** less than **Rs. 2.4 Crores**, during last ten years ending 30th September, 2013.
- d.) The bidder should have average annual turnover of **Rs. 1.8 Crores** during the last three years ending 31<sup>st</sup> March, 2013.
- e.) The bidder should have a current solvency of **Rs. 2.4 Crores** (duly issued by any scheduled bank of India as per **Annexure A**).

**NOTE:** For points a. to e. under the Minimum Financial Qualification Requirements the bidder is required to substantiate his claim supported by financial statement of accounts (including balance sheet, profit and loss account and auditors reports) duly certified by a Chartered Accountant.

The “similar work” means **Construction of Sewage Treatment Plant including design, engineering, construction and commissioning of the STP.**

**4.0 Method of Submission:**

The bidders are required to submit all required information along with supporting evidence in the form of work orders, completion certificates etc. to demonstrate their capacity for this project.

Bidders are required to fill up the check list for Submission of Expression of Interest.

The bidder is expected to furnish all relevant information in the columns of the “Bidder Response Outline Sheet” provided at **Annexure B** along with the filled in check-list provided at **Annexure C** and any other information relevant to this project which may be a factor behind considering the bidder for pre-qualification for this project and may submit the same by hand/post **latest by 21.10.2013** at the following address:

The Executive Engineer (P)  
Room No. MZ 137,  
Indian Institute of Technology Delhi,  
Hauz Khas,  
New Delhi 110016.  
Ph: 011-2659 1762.

The envelope must be clearly marked with following:

- a.) Expression of Interest (EOI) for pre-qualification for “**Setting up of a 2.5 MLD Sewage Treatment Plant at IIT Delhi.**”
- b.) Bid No./ Date
- c.) Last Date of submission of the bid and its opening.



Any bid not submitted with incomplete details and not meeting the minimum qualifications requirements will be summarily rejected.

**5.0 Final decision making authority:**

The Employer reserves the right to accept or reject any Bid and to annul the selection process and reject all Bids at any time, without assigning any reason or incurring any liability to the applicants.

**6.0 Details of the Annexure to this document:**

**Annexure A:** Solvency Certificate.

**Annexure B:** Bidder Response Outline Sheet.

**Annexure C:** Checklist for Submission of Expression of Interest.

**Annexure D:** Marking Scheme.



**Solvency Certificate**

**FORM OF SOLVENCY CERTIFICATE FROM A NATIONALIZED/SCHEDULED BANK WITH  
WHOM THE FIRM HAS BANKING RELATIOSHIP**

This is to certify that to the best of my knowledge and information M/s.....  
.....having its  
office at ..... is a customer of our bank  
are/is respectable and can be treated as good for any engagement up to a limit of  
Rs...../-(Rupees.....).

This certificate is issued without any guarantee of responsibility on the Bank or any of the officers.

**Signature**

**For the bank**

**NOTE:** In case of partnership firm, certificate to include names of all partners as recorded with the bank. (Bank Solvency for pre-requisite should not be less than Rs. 2.4 Crores and should be issued not prior to three (3) months from the scheduled bank.



**Bidder Response Outline Sheet**

The bidder(s) are required to provide the information in the bidder response outline sheet, which, along with their supporting materials, will be taken into consideration while short listing firm(s) for issue of RFP. All the headings indicated below must be addressed in the sequence shown, providing as much relevant detail as possible. Additional headings and information may be provided by the bidder(s) where they are required to include additional details or explanations.

Sr. no.	Item Head	Bidder Response (Please make a reference here to any sheet attached separately)
1.	Description Of The Bidder(s) (Specifically include legal status, ownership, and the name of the person within the company who is responsible for this project.	
2.	Descriptions Of Any Proposed Third Parties (Provide similar information to that required in 1. above)	
3.	Relationships Between Bidder(s) And Any Nominated <u>Third Parties</u> . (Provide descriptions of the trading, commercial and legal relationships with any third party nominated in the response)	
4.	The Bidder(s) General Understanding Of The Project Requirements and their experience of working on similar projects (Separate sheet may be attached, if need felt)	
5.	Work Orders and/or completion certificates showing compliance of minimum qualifications technical and financial requirements	
6.	Supporting material as may be required to showcase bidder's expertise and experience in carrying out similar projects and for meeting the requirements of the marking criteria.	
7.	References: Details of relevant references (including contact Names, Designation and numbers)	
8.	Certified safety and quality standards: provide the details of the safety and quality standard certificates provided and/or applicable to the bidder)	
9	The firm should provide a declaration on non-judicial stamp paper that they have never been black listed by any other Government Institute/International organization	

Signature

Name of the bidder:

Date:

Rubber seal of the bidder



**Checklist for Submission of Expression of Interest:**

The following check-list must be filled in and submitted with the EOI document:

S No	Check Points	Yes/No
1	The documents in support of executing one similar work costing not less than <b>Rs. 4.80 Crores</b> or two similar works each costing not less than <b>Rs. 3.60 Crores</b> or three similar works each costing not less than <b>Rs. 2.40 Crores</b> , during last seven years ending 30 <sup>th</sup> September, 2013.	
2	The documents in support of annual financial turnover of <b>Rs. 1.80 Crores</b> during the last three years ending 31 <sup>st</sup> March, 2013.	
3	Document showing the firm has not incurred loss in more than two (2) years in the last five (5) years ending 31 <sup>st</sup> March, 2013.	
4	The documents supporting that the bidder has a current solvency of <b>Rs. 2.40 Crores</b> .	
5	The documents showing that the bidder has constructed & commissioned STP s of 2.0 MLD which have been working successfully for the last one (1) year.	
6	Whether all the parameters given in the bidder response outline sheet have been fulfilled?	

Signature

Name of the bidder:

Date:

Rubber seal of the bidder



**Marking Scheme**

S.No.	Ranking Criteria	Maximum Points	Bidders Points
1.	<p>Number of plants of similar capacity</p> <p><b>Experience of smaller projects</b></p> <p>2 or 3 projects of &gt;2.0 but &lt;10 MLD – 5 points</p> <p>4 projects of &gt;2.0 but &lt;10 MLD – 10 points</p> <p>6 or more projects of &gt;2.0 but &lt;10 MLD – 20 points</p> <p><b>Experience of larger projects</b></p> <p>2 or 3 projects of &gt;10 MLD – 2 points</p> <p>4 projects of &gt; 10 MLD – 5 points</p> <p>6 projects of &gt; 10 MLD – 10 points</p> <p><i>* for this large projects category, in case the bidder includes smaller projects, then for every project less than 10 MLD, 2 additional points shall be provided.</i></p>	20	
2.	<p>Number of Plants with Similar Technology &amp; Diffused Aeration</p> <p><b>Experience of Similar Technology</b></p> <p>2 or 3 projects – 5 points</p> <p>4 projects – 10 points</p> <p>6 or more projects – 20 points</p> <p><b>Experience of Other Technologies</b></p> <p>2 or 3 projects – 2 points</p> <p>4 projects – 5 points</p> <p>6 or more projects – 10 points</p> <p><i>* for this category, in case the bidder includes project with similar technology, then for every project with similar technology, 2 additional points shall be provided.</i></p>	20	



S.No.	Ranking Criteria	Maximum Points	Bidders Points
3.	Number of plants (with diffused aeration system)  <u>Experience of O&amp;M of at least 2 years</u>  2 or 3 projects – <b>5 points</b>  4 projects – <b>10 points</b>  6 or more projects – <b>20 points</b>	20	
4.	Experience with similar End user / Client  <i>(minimum scoring for 2 similar projects)</i>  Experience of working with Educational institution and/or PSU township – <b>10 points per project</b>  Urban Local Body – <b>5 points per project</b>	20	
5.	Experience within similar Geography / Location  <i>(minimum scoring for 2 similar projects)</i>  National Capital Region / Metropolitan Region – <b>10 points per project</b>  Tier 2 towns -- <b>5 points per project</b>	20	
	<b>Total Points</b>	<b>100</b>	