

**INDRAPRASTHA INSTITUTE OF INFORMATION TECHNOLOGY,  
DELHI  
(IIIT-DELHI)  
Okhla Industrial Estate, Phase III  
New Delhi 110020  
(Tel No 011-26907400, Website: [www.iiitd.ac.in](http://www.iiitd.ac.in))**

**NOTICE INVITING TENDER FOR AMC and OPERATION-  
SEWAGE TREATMENT PLANT-TWO NOS OF 65 KLD CAPACITY**

IIIT-Delhi invites sealed Financial Bid along with EMD from reputed agencies / companies in the field for “**Annual Maintenance and Operation contract of 02X 65 kld STP plants**” as per details below:

**Bid Schedule**

Date of release of the tender	<b>06 Jul 2018</b>
Earnest Money Deposit (EMD)	Rs. 10,000/- in the form of Demand Draft in favour of “IIITD-Collection Account” payable at New Delhi
Last date and time for submission of tender	<b>10 Aug 2018 at 1400 Hrs.</b>
Date and time of bid opening	<b>10 Aug.2018 at 1500 Hrs</b>
Address for communication & submission of tender documents and opening of technical bid	IIIT-DELHI Okhla Industrial Estate, Phase III New Delhi 110020

**Scope of Work**

1. Indraprastha Institute of Information Technology Delhi was created as a State University by an Act of Delhi Government empowering it to do research and development and grant degrees. The Institute has a campus spread over an area of more than 25 acres. The campus is provided with 02 in no 65 KLD Sewage treatment plants.
2. The design of STP and other parameters is as per (**Annexure A**)
3. The scope of work includes:-
  - a) 24X7 operation and maintenance of two plants
  - b) The plants will be operated by trained operator who will maintain necessary log books on daily basis.
  - c) Visit of technical experts once in a month to review performance of the plant.
  - d) Break down maintenance calls- Unlimited break down calls on as required basis. The break down calls will cover 24X7 breakdown call within 24 hours of the time of complaint.
  - e) Schedule maintenance calls- At least 4 (four) scheduled calls as per the program for regular preventive maintenance.
  - f) A complaint escalation matrix to be provided by vendor.
  - g) The vendor shall ensure Testing of STP treated water sample as per ISO standards once in a quarter from approved laboratory and report to be submitted by 05<sup>th</sup> of every month
  - h) To coordinate with maintenance team of IIITD for any repairs and spares requirement.

- i) All tools (02 sets) required for day to day running and maintenance of the plant will be provided by vendor.
- j) All printed log books required for the plants will be provided by vendor.
- k) The treated water to be supplied for Horticulture and other specified use.
- l) Record hourly data of the operations.
- m) The Vendor shall fulfill the requirements of various law enforcing agencies / local authorities, such as Pollution control Board etc.
- n) The agency shall not engage any sub-contractor or sublet/transfer the contract to any other agency/person in any manner
- o) Manpower deployment:-
  - i. **Operator-06 (One per plant per shift of 08 hrs)**
  - ii. **Supervisor: One in general shift**
- p) The vendor will be responsible for safety of their deputed staff during performance of duty at site.
- q) In case any of the staff is not found up to the mark and not able to do work properly he will have to be changed as per IIITD instructions.
- r) The vendor shall ensure payment of all staff by 07<sup>th</sup> day of next month. Proof of payment in form of bank transfer details to be submitted to IIITD by 08<sup>th</sup> of the month.
- s) The vendor shall ensure that the salary wages shall be distributed in full as per Minimum Wages Act by the Bidder/ Agency to the deployed staff.
- t) The agency shall not engage any staff below the age of 18 years. All the staff deployed by the agency shall be medically fit and their antecedent be verified prior to the deployment in the Institute.

**Pre-qualification Criteria**

4. The agencies / companies who fulfill the pre-qualification criteria mentioned below will only be considered for opening of financial bid:

S. No.	Particulars	Document (s) to Annex
1	Company should be in existence for last <b>Five</b> years.	Certified copy of registration certificate.
2	Company should have average turnover of Rs.50 lacs in similar field in previous three financial years ending on 31.03.2017.	Audited accounts of 2014-15, 2015-16 and 2016-17 may be enclosed.
3	Company should have experience of similar work in Institute/Academic Institute/Public Sector Undertaking/ MNC/ Corporate Sector during last three (03) years.	Certified Copies of Work orders/ Experience certificate etc. on the letter head of the client / customer.
4	Company should have valid PAN, GST registration etc.	Certified Copy of each document
5	Company should not have been barred / blacklisted for taking up similar work in any organization	A certification to this effect on the letter of the bidder.
6	Earnest Money Deposit (EMD)	Rs. 10,000/- in the form of Demand Draft in favour of "IIITD-Collection Account" payable at New Delhi

### **Award of Work**

5. Those who meet the pre-qualification criteria as above will be considered for opening of financial bid. The agency quoting the lowest rate for AMC shall be considered for award of work. IIT, Delhi does not bind itself to accept the lowest or any other offer and reserves the right to accept or reject any or all the offers either in full or in part without assigning any reason.
6. **Plant Visit:** The bidders are required to visit the site to see the actual installation for themselves to assess the quantum of work involved before submitting the tender. Once the tender is submitted, it will be presumed that the bidder has seen and understood the complete work involved for each plant.
7. **The services will be required for initial period of one year.** The contract may be extended based on performance up to maximum of 3 years. In this regard decision of the Institute shall be final.

### **Financial Bid**

8. Interested agencies may submit financial bid as per enclosed format (**Annexure-“B”**), duly authenticated and stamped. Bidders are advised to inspect the site before quoting the rates. No escalation in rate will be considered during the validity of the contract period. The Financial Bid should contain all relevant price information. The Bid Form must be filled in completely, without any errors, erasures or alterations. The Financial Bid should not contradict the technical offer in any way.
9. The rates should be valid for at least 90 days.
10. The EMD of unsuccessful bidders will be returned within 30 days after award of contract.
11. The rates shall be quoted on yearly basis including all taxes.

### **Payment Terms**

12. Quarterly bill by the 7<sup>th</sup> day of next month shall be raised for 25% of the total contract value plus GST, as applicable. Payment shall be released within 15 days of raising bill.
13. No advance payment will be made under any circumstances.

### **Performance Guarantee**

14. Selected company will be required to deposit Performance Guarantee @ 5% of the Work value which shall be in the form of DD/FDR/Bank Guarantee in favour of the Institute. The format of which will be provided at the time of Award of Work.

**How to submit**

15. The interested agencies may submit their proposal along with the above mentioned documents by subscribing the envelope “**Non Comprehensive Annual Maintenance contract (AMC) for 02 nos 65 KLD Sewage Treatment Plants**” enclosing a separate sealed envelopes marked as **Pre-qualification Bid** and **Financial Bid**, so as to reach the Registrar, **IIIT-DELHI Okhla Industrial Estate, Phase III New Delhi 110020** by **1400 Hrs** on **10 Aug 2018**.

**For and on behalf of  
Indraprastha Institute of Information Technology Delhi**

**Signed  
Registrar**

### Design of Sewage Treatment Plan and other Parameters

#### 1. EFFLUENT GENERATION AND CHARACTERISATION

Qualification of the Effluent

Total domestic water requirement of the unit has been estimated to be 150KLD and the effluent generation is approx.120KLD

The total quantum of waste water generated is discharged to two STPs of capacity 65 KLD each on the basis of 24 hrs operation per/day.

#### 2. DESIGN DISCHARGE 65KLD

The characteristics are given below:-

S.No	Parameters	Unit	Result
1	pH		6.5-8.5
2	Suspended Solids (TSS)	Mg/1	350-400
3	Bio Chemical oxygen demand (3 days at 27 degree C	Mg/1	270-350
4	Oil and grease	Mg/1	20-30

#### 3. EFFLUENT TREATMENT SYSTEM

The effluent generated is passed through bar screen chamber then oil and grease trap and is collected by gravity through a drainage channel into an equalization tank. The effluent from the collection cum equalization tank is pumped to SAFF tank. The effluent is then allowed to settle in a tube setting tank, where the flocculated particles are allowed to settle down. The settled solids in the settling chamber is allowed to flow to sludge holding tank and is dewatered in the filter press. The dewatered sludge is stored and disposed of as per hazardous waste management rule. The clear water from the settling tank is passed through chlorine contact tank where chlorine is added for disinfection. Then the effluent is passed through Multi grade filter and activated carbon filter for further polishing of the water before taken to treated water tank for its reuse. The treated water from activated carbon filter is passed through softener for its recycling as make up water for cooling towers. The flow diagram of the effluent treatment plant is shown.

#### **4. EFFLUENT TREATMENT PLANT PROCESS UNITS**

Type of Treatment	- biological
Working Hours per (day)	- 24 hours
Average waste water discharge	- 60 KLD
Design Discharge	- 65 KLD

Various process units of the effluent treatment plant and its detail specifications are given below:-

1. Bar Screen
2. Oil & Grease Trap
3. Equalization Tanks
4. SAFF Tank
5. Settling Tank
6. Chlorine contact Tank
7. Multigrade Filter
8. Activated Carbon filter
9. Softener
10. Filter press
11. Effluent Transfer pump
12. Filter feed pump
13. Air Blower.

**Annexure-“B”**

**Format of Financial Bid for Non Comprehensive Annual Maintenance Contract  
(AMC) for 02 nos 65 KLD Sewage Treatment Plants**

<b>Sl. No.</b>	<b>Description</b>	<b>Amount (All inclusive) Rupees</b>
<b>A</b>	Non Comprehensive Annual Maintenance Contract (AMC) For 02 in no 65 KLD Sewage Treatment Plants as per the details provided in the tender document under “Scope of Work”	
Total (Rs. in words)		

We agree to carry out the Work at the rate quoted above for the duration of one full year. We understand that IIIT, Delhi is not bound to accept the lowest or any other offer and reserves the right to accept or reject any or all the offers either in full or in part without assigning any reason.

(Name and Signature of Authorized Signatory with seal)

**(Signature of the bidder)**

Date:

