

**Design, Construction, Supply, Installation, Testing, Commissioning,  
Operation and Maintenance of 4MLD Sewage Treatment Plant at IIT Madras.**

**MINUTES OF THE PRE-BID MEETING**

**TENDER NO** : 34R/2013-14/Civil  
**DATE OF THE MEETING** : 18.03.2014 AT 11:30 AM  
**VENUE** : Admin Building, 3<sup>rd</sup> Floor, Engineering Unit

**Members Present :**

**IIT Madras**

Prof.A.Veeraragavan, Chariman (EU)  
Prof. Ligy Philip, Co-Chairperson (EU)  
Prof.R.Sundaravivelu, Dept.Ocean Engg.  
Prof.B.S.Murthy, Dept.of.Civil Engg.  
Er.R.Arumugam, Superintending Engineer  
Er.P.Soundararaj, Consultant (Elec.)  
Er.L.Venkataraman, Executive Engineer (Civil)  
Er.K.Viswanath, Executive Engineer (Elec.)  
Dr.M.Ramachandran, Executive Engineer i/c (Civil)  
Er.S.Ganapathy, Junior Engineer (Civil)  
Er.K.Narayanaperumal, Junior Engineer (Civil)

**Contractors**

Mr.A.Vinoth Austin, M/s Eureka Forbes  
Mr.Kumarasamy, M/s Eureka Forbes  
Mr.R.Winlychristophr, M/s Aqua Design (I) Pvt Ltd  
Mr.B.Kumaresan, M/s Aqua Design  
Mr.K.B.Subramanyam,, M/s Aqua Engg  
Mr.N.Jayabalan, M/s Ensys Technologies (I) Pvt Ltd  
Mr.G.Muthukumaran, M/s Ensys Technologies (I) Pvt Ltd

Chairman (EU) welcomed the participants and briefed about the project. The following points were raised by the Contractor and the clarifications given by IIT Madras are indicated against each.

<b>Sl. No.</b>	<b>Points raised by the contractors</b>	<b>Clarifications from IIT Madras</b>
1	Eligibility conditions and experience in similar works.	No change in the tender conditions.
2	Location of site and levels	The survey drawing will be uploaded in the IIT Madras web site.
3	Type of contract	It is a design and built contract. Hence the contractor has to design and execute all the works as approved by the IIT Madras including all construction, supply, erection, testing and commissioning of the required equipment.
4	Is it necessary to submit Structural drawing in the Technical bid stage?	The contractor shall submit the layout and service drawings clearly indicating all the capacity, dimensions and specifications.
5	Bill of Quantity & Cost Estimate	The contractor shall submit the Bill of Quantity and Cost Estimate along with Technical bid.
6	Proof checking of drawings	All structural drawings shall be got proof checked from IIT Madras. Nothing extra shall be paid for the same.
7	Soil investigation report	The soil investigation report will be uploaded in the IIT Madras web site.

Sl. No.	Points raised by the contractors	Clarifications from IIT Madras
8	Ultrafiltration system	Ultrafiltration can be done with suitable centrifuge / membrane type to attain FC < 5
9	Material of construction	The contractor shall enclose list of suitable material / make / brand proposed to be used in the work. The list shall be enclosed along with Technical bid.
10	Type of screen	As per the tender conditions.
11	Bid evaluation criteria	As per the tender conditions.
12	Design parameter	As per the tender conditions
13	Automation of the plant	Suitable SCADA for automation of the plant to be included in the offer.
14	Labour camp	No labour camp will be allowed inside the campus.
15	<b>Extension of last date of bid submission</b>	<b>Last date of bid submission has been extended up to 08-04-2013 at 3.00PM.</b>
16	Disposal of sludge	Sludge will be used as manure for lawns and gardens in the IIT Madras campus.
17	No of years of Operation and maintenance of the plant	The contractor shall quote for Operation and maintenance of the plant as given in the financial bid. <b>The period shall be 5years instead of 3years as mentioned in the financial bid. Hence the contractors shall quote for 4<sup>th</sup> and 5<sup>th</sup> year also.</b> The revised Bill of Quantity for operation and maintenance will be uploaded in the IIT Madras web site.
18	Electricity required for construction, operation and maintenance.	Electricity required for fabrication/construction shall be arranged by the contractor. Main electrical connection for commissioning the plant will be provided by IITM. The cable for that purpose will be terminated in the main electrical panel to be provided by the contractor.
19	DG set	DG set will be arranged by IIT Madras.
20	UPS	The contractor shall provide necessary UPS required for the SCADA and associated control system.
21	Site inspection	All contractors are requested to inspect the site before quoting the tender.
22	Temporary barricading	During construction the contractor shall erect 3m high barricade around construction site using M.S pipe and G.I sheet as approved by IIT Madras. After completion of the construction work, the contractor shall take away all barricading materials.

The site has been inspected by all participants.

The above minutes of meeting will become part of the agreement. All the contractors are requested to download the minutes of prebid meeting from the IIT Madras web site.

Sd/-  
**Superintending Engineer**