

NAME OF WORK:DESIGN, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING (DSITC) OF ELECTRO-MECHANICAL, INSTRUMENTATION COMPONENTS FOR650 KLD CAPACITY STP

**NIT IITH/SE/NIT/CPPP/2017-18/01
no.**

Replies to Pre-bid Queries **

Sl No	Description	Ref Document / Page no./Clause ref.	As per Tender Document	Bidder's query	Response
1	Technical Bid	Section 5.9 & PID	Acetic Acid Dosing is suggested in Section 5.7.1.2. In indicative P&ID there is no Post anoxic	Please confirm if anoxic tank is required.	Anoxic Tank shall be a part of design. However, Acetic Acid Dosing is not required post anoxic-tank.Hence the Clause 5.7.1.2 stands deleted.
2	Technical Bid	Price Bid	Manual Coarse screen of 16mm and fine scree of 6mm of 162.5m3/hr for 3 streams of 650 KLD and peak factor is 2.0 sluice gates - qty: 1 W	We understand one no. 16mm Manual Coarse screen and one no. Manual Fine Screen 6mm to be provided. Please confirm.	Yes- Contractor shall provide one 16mm Manual coarse screen and one 6mm Manual fine screen
3	Technical Bid	5.12 Diffused aeration system 5.17: Piping	As per section 5.17 and Table 5.11, row no.5, (Blower line vertical drop pipes into all tanks) drop pipes are SS316 and as per section 5.12 Diffused aeration system, drop pipe is hose pipe and which is correct as the requested type of diffusers are Retrievable type.	Please confirm which needs to be followed.	Diffusers in all tanks shall be retrievable . As such the row no.3 of Table 5.11 of clause 5.17 stands deleted.
4	P&ID	Sluice Gates	Sluice Gates	We understand 4 no.s of sluice gates, 2 upstream and 2 downstream of fine screen 6mm have to be provided. Please confirm.	Yes.Contractor shall provide total four Cast Iron (CI) sluice gates in the grit removal channel.
5		Price Bid, Item No.13	Coarse Bubble Diffusers (14 Nos) in equalization tank retrievable type and retrievable or fixed type for CSS and SHT.	Please confirm whether we have option of providing retrievable and fixed type diffuser for SHT & CSS.	Diffusers in all tanks shall be retrievable .Hence, the phrase " retrievable or fixed type for CSS and SHT " at s.no.13 of Price Bid may be read as " retrievable type for CSS and SHT ".
6	Price Bid	Item No.43	Sluice gates for stopping entry into membrane tanks proposed for future shall be part of this Bid. Like Sluice gates for membrane tank 1, 2 & 3.	Please confirm if our understanding is correct.	Yes.Sluice gates shall be provided for stopping the sewage flow into future membrane tanks (no. 2 and 3) and also at other similar locations,if any.
7	Price Bid & STP Technical Bid	Piping Item No.46, Section 5.17	RAS piping section 5.17 is given as all RAS piping in Carbon steel while item 46 in Price bid is different.	Please confirm which needs to be considered.	All RAS piping shall be with carbon steel pipe. However, the MoC of process/ permeate piping shall be as specied in indicative P&ID attached with the tender document. As such the MoC of piping for RAS,Process/Permeate mentioned in item 46 of Price bid shall be as stated above.
8	Technical Bid	LD, Section 2.8	In case if the contractor fails to meet specified parameters of the quality of the treated sewage, the contractor shall pay to the IITH liquidated damages amounting to Rs.2,000.00 (Rupees two thousand only) per day of occurrence, over and above the costs and compensation that might be required by the IITH to pay to the affected people and parties. if any.	We understand the same applicable during O&M period or Part B of the contract. Please confirm if our understanding is correct.	Yes. The clause is applicable during O&M period.

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9	Price Bid	Price Bid Notes, Notes on price bid foot note no.iv	IITH being educational institution, there will be variation in the quantity of sewage generated depending upon academic activities. The Contractor shall not have any claims if the influent is more than 650 KLD on any day or any period. Similarly, there shall not be any recovery from the Contractor if the quantity of sewage treated is less than 650 KLD on any day or period.	The system is being designed for 650 KLD. Please confirm limit the deviation in flow to not more than 10% on higher side.	Yes.The upper limit of deviation in raw sewage inflow to the plant shall be 10% of 650 KLD.
10	STP Technical Bid	2.4 Taxes	In case of variation of State Tax rates	In case of any variation of taxes, the vendor depending on the impact, if there is increase in cost to vendor due to taxes, the same shall be passed on to client and accordingly the differential increase in lumpsum price to be compensated by client. In case of negative impact or there is decrease in cost to vendor, the same shall be passed on to client. Or alternatively, the lumpsum price can be exclusive of taxes. Taxes can be at actuals.	The lumpsum Contract Price shall be inclusive of all taxes and levies payable under respective statutes. However, if any further tax or levy or cess is imposed by Statute, after the last stipulated date for the receipt of tender including extensions if any and the contractor thereupon necessarily and properly pays such taxes/levies/cess, the contractor shall be reimbursed the amount so paid on submission of proof of remittance, provided such payments, if any, is not, in the opinion of the Engineer-in-Charge (whose decision shall be final and binding on the contractor) attributable to delay in execution of work within the control of the contractor.
11		Softener		Please confirm the material MOC & Specifications for Pressure Vessel of Softener.	The MOC of pressure vessel of softner shall be mild steel rubber lining(MSRL) confirming to relevant ASTM standard.
12		Softener		Please confirm the level of automation for the softener.	Level of automation of softner shall be as specified in the indicative P&ID attached with the tender documents.
13	Civil work scope - Price bid	Sl no 49, page no 11 of 15	All Civil Works listed below: Equipment Foundation, Equipment foundations civil work, full floor coverage equipment contact pads, puddle pipes etc. All weather protection as required for process equipment skids and control equipment. BOP foundation in civil dosing system foundations in civil- 1 Lot	All civil work is already in scope of IITH.	Yes.
14	Civil work scope - Price bid	Sl no 51, page no 11 of 15	Raw materials, chemicals, and utilities during equipment start-up trial run and commissioning	Chemicals and Raw materials during commissioning and O&M chemical shall be in bidder scope, please confirm.	Yes.The scope of contract includes raw materials, chemicals, and utilities during equipment start-up trial run and commissioning.

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15	Civil work scope - Price bid	Sl no 50, page no 11 of 15	Disposal of Initial Start-up waste water and associated chemicals	please confirm the scope of disposal of chemical and waste including sludge disposal scope. We also suggest to utilise dried sludge as manure.	The scope of contract includes disposal of initial start-up waste water and associated chemicals. However, IITH reserves the right to utilize dried sludge generated during O&M period for internal purposes, at its descretion.
16	Civil work scope - Price bid	Sl no 53, page no 11 of 15	Firefighting systems.	please confirm that it is not in bidder scope.	The firefighting systems in the plant premises shall be in the scope of IITH. Hence,item mentioned at S.No. 53 of price bid stands deleted.
17	Civil work scope - Price bid	Sl no 63, page no 12 of 15	Bulk Chemical storage tanks.	Not required, hence not considered in bidder scope.	Yes. Bulk storage tanks are not required.Hence, item no. 63 of price bid stands deleted.
18	Civil work scope - Price bid	Sl no 63, page no 12 of 15	Emergency lighting.	Shall be in scope of IITH	Yes.Emergency lighting iwill be in the scope of IITH. Hence, item no. 67 of price bid stands deleted.
19	STP technical bid	Page no 179	The design speed of any pump with a duty flow greater than 20 l/s shall not exceed - 1500 rpm.	As it is a small capacity pump, please consider 2900 RPM.	Not agreed. Tender condition shall prevail.
20	STP technical bid	Item no 49,Page no 313	Treated water treatmeat pump capacity & head	Please confirm treated water pump head & battery limit	The contractor's scope includes transferring the permeate upto treated water tanks. IITH shall make arrangements for pumping out the treated water/soft water for its internal requirements.
21	STP technical bid	Page no 179 clause 5.10	Centrifuge	Instead of centrifuge can we offer filter press?	No. Tender condition shall prevail.
22	NIT	Page No.1	Tender submission dt. 22.01.2017	Requested to Extension tender up to 31.01.2018 in view of festivals	Not agreed. Tender condition shall prevail.
23	NIT	Page No.2 Clause 0.2	No consortium or joint venture shall be allowed	Requested to allow at least one JV	Not agreed. Tender condition shall prevail.
24	NIT	Page No.2 Clause 0.2	Bidder must submit MOU from technology provider (Suez Water Technologies Solutions (I) Pvt. Ltd., for MBR technology	Requested to consider alternative technology with SBT, MOU from Vision Earth Care Pvt. Ltd., Bombay and MBBR Technology, which is latest technology and Public Sectors are using.	Tender conditions shall prevail.
25	NIT	Page No.3 Clause 4	Similar work means: Sewerage Treatment Plant including design, supply, installation and testing and commissioning of the MBR type using GE Hallow fiber membranes (excluding civil works)	Requested to consider with MBBR/Fab technology including with civil construction for similar work	Tender conditions shall prevail.

Sl No	Description	Ref Document / Page no./Clause ref.	As per Tender Document	Bidder's query	Response
26	NIT	Page No.1 Clause 4	Earnest Money Deposit by way of BG	Requested to consider NSIC certificate for EMD exemption since we are come under small scale industry.	EMD/Tender Fee exemptions and price preference are applicable to only Micro and Small Industries. Bidders claiming EMD/Tender Fee exemptions, should meet criteria for Micro and Small Industries as notified by Government of India. Bidders shall submit claim with supporting documents like NSIC registration certificate, MSE registration certificate issued by competent Govt bodies to become eligible for the above exemption. Also such certificate (NSIC) / MSE shall cover the items tendered to get EMD/Tender fee exemptions. NSIC certificate shall be valid as on due date / extended due date of the tender.
27				Is it mandatory for the bidder to have annual financial turn over of Rs.5 crore/year in MBR type (GE Make) STP.	Not mandatory
28				Is it mandatory for the bidder to have supplied, installed & commissioned 3 STP's of 200 to 399 KLD or 2 STP's of 400 to 499 KLD and 1 STP of 500 KLD.	No change in qualification criteria.
29				Please let us know the Type, Make and capacities with the head of the pumps for the process requirement.	As specified in Tender Document
30			One should have completed 1 project of 500 KLD STP MBR technology with GE membranes.	Kindly consider with MBR technology - Toray Membranes (JAPAN)	Tender condition shall prevail.

Further Clarifications from IIT Hyderabad :**

31	Human Machine Interface(HMI)	Clause 5.49,Table 5.22,S.no."C"	SCADA & PC or 16" panel mounted HMI	-	The automation of plant shall include SCADA and Desktop Computer. HMI is not required. The Clause 5.49,Table 5.22,S.no."C" may be read as " SCADA & PC " instead of " SCADA & PC or 16" panel mounted HMI ". Hence, the clause B1 of this table stands modified as " <i>DIN Rail Mounted Micro PLC with suitable controller with provision for future expansion and ethernet port</i> ". Accordingly, the phrase " HMI " specified at various clauses in this tender document stands modified as " SCADA &PC " and relevent specification of tender document will apply.
32	MCC Specifications	5.49.2 S.No. "A1"	MCC		As specified in clause 5.39, the MCC shall be " intellegent ".

Sl No	Description	Ref Document / Page no./Clause ref.	As per Tender Document	Bidder's query	Response
33	Motor frame	Clause 5.73,Table 5.56	NEEMA Frame	-	"NEEMA frame" shall be read as "IEC Standards and IE2 efficiency"
34	MCC Enclosure Type	Clause 5.74 Table 5.57	NEMA 1 fully gasketed with bottom plates		"NEMA 1 fully gasketed with bottom plates" shall be read as "Conforming to IEC 61439"

35 Softner(15 Cum/hour @3.5 Kg/Cm²): Please read the quantity of item no. 38 of Price Bid as "**2 (1W+1S)**" instead of "**2W**"

36 The bidder shall mandatorily include the following details pertaining to Softner with the technical bid of tender document :

- a. Resin data sheet of the supplier
- b.P&ID of softner system with regeneration system
- c.Chemical consumption with total regeneration waste produced with break-up

37 The scope of work includes all regeneration waste/drains of softner to be terminated at RCC sump of pumproom and supply,installation of pumping system consisting of 2 numbers (1W+1S) of Duplex 2205 pumps of capacity of required capacity to drain out the regenerated waste from RCC sump. The maximum uPVC piping length from the RCC sump to approved disposal point at ground level shall be 30.00 metre.

38 The bidder shall enclose the attached check-list along with the technical bid of tender document, duly signed .

39 Ref. Clause 3.1.10, Table 3.3 : Additional Parameter of "**Total Nitrogen (mg/litre) shall be less than or equal to 10** " shall be added.

40 The above requirement of "Total Nitrogen" shall also be included in Table 7.1 of Clause 7.5

**** These Pre bid queries and responses as well as further clarifications from IIT Hyderabad shall form part of the Agreement.**

Checklist of Documents

Name of Work : Design, Supply, Installation, testing and commissioning (DSITC) of electro mechanical, instrumentation components pertaining to 650 KLD capacity Sewage Treatment Plant (STP) at IITH Permanent Campus with GE MBR Technology and 3 years of post-commissioning operation and maintenance of the plant.

TENDER NO. : IITH/SE/NIT/CPPP/2017-18/01			
S.No.	Doc.	Description of the document	Enclosed
1	Tender Application Cost	Tender Cost Demand Draft (DD)	
2	Annexure 7.2	Earnest Money Deposit (EMD)	
3	Annexure 7.3	Affidavit to be submitted by the bidder	
4	Annexure	No Loss Certificate from Chartered Accountant	
5	Annexure	Average Annual Financial Turnover Certificate from Chartered Accountant	
6	Annexure 7.6	Letter of Transmittal	
7	Form-A	Financial Information	
8	Form-B	Bankers Certificate from a Scheduled Bank	
9	Form-C	Details of all works of similar class completed during the last seven years ending last day of the month	
10	Form-D	Projects under execution or awarded	
11	Form-E	Performance report of works	
12	Form-F	Structure of Organisation	
13	Form-G	Details of Technical & Administrative Personnel to be employed for the work	
14	Form-H	Details of construction plant and equipment likely to be used in carryout out the work	
15	Annexure 0.15	Integrity Pact	
16	MoU	MoU with Technology Provider	
17	Automation of Plant	Credentials of System Integrator	
18	Softner	Details sought by IITH in replies to pre-bid queries pertaining to softner system	

Bidder's Sign with Seal