No. HSCC/PG-II/AIIMS/STP-WORKS/2017

Dated: 16.05.2017

Amendment I

<u>Sub:-</u> Tender for "Construction of Sewage Treatment Plant (STP) including associated works and their Operation & Maintenance in AIIMS Campus, Masjid Moth for AIIMS, New Delhi" - **Regarding reply of pre bid meeting's queries.**

Ref:- HSCC note no. HSCC/PG-II/AIIMS/STP-WORKS/2017, dated: 02.05.2017

This is with reference of above referred tender work which was uploaded on 9-5-17. The pre bid meeting was held on 15-5-17. The reply of pre bid queries are enclosed here with, the same are to be upload on web site. Submitted please.

Enclosed :- As above

(Ravi Kumar) Executive (Civil)

GM (Projects)

CGM (PG-II)

<u>GM (IT)</u>

Pre Bid meeting Bidder queries reply Tender for "Construction of Sewage Treatment Plant (STP) including associated works and their Operation & Maintenance in AIIMS Campus, Masjid Moth for AIIMS, New Delhi				
SI. No.	Reference	Tender Provision	Bidders Queries	Reply
Α	BIDDER – MECGALE PNEUMA	ATICS PVT. LTD.		
1	Vol 1, NIT, Page 11, Cl. 1.4.1 – Eligiblity Vol 1, Page 15, Cl. 1.26 Vol 1, Page 47, FORM-H	This being a composite tender, the Bidder must associate with himself agencies otherwise eligible to tender for other components individually including specialized services for which an affidavit/undertaking as per format enclosed at Form H should be submitted along with the Technical Bid.		As per tender condition.
2	Volume 4: Technical specification/3.1 Inlet sewage characteristics/Pg. no. 7	PO4-P: 50 mg/l	As per table 5.4 Pg no. 5-7 provided in CPHEEO manual, value mentioned for PO4-P in the stated clause seems to be at higher side for raw sewage. For 250-300 mg/l of BOD, PO4-P value generally considered is 5-7.1 mg/l as per CPHEEO manual. Hence we request you to confirm PO4-P for designing of Sewage treatment plant.	As per tender condition.
3	BOQ/3.4 Electro- mechanical cost estimate/SI No. 1)a)vii)	SBR basin design	In tender for SBR, 6 hours operating cycle (including filling, aeration, settling and decantation) is considered with minimum each SBR capacity 450 cum. We request you to allow bidder to design SBR basin as per latest CPHEEO manual guidelines provided on chapter 5, Table 5.57, page no. 5-198	As per tender condition.
4	BOQ/3.4 Electro- mechanical cost estimate/SI No. 1)a)vii)	Diffuser make	I n India approximately 150 sewage treatment plant have been commissioned with EDI diffusers and have been running successfully. Hence we request you add EDI as one of the makes for supply of diffuser. Please confirm	As per tender condition.
5	BOQ/3.4 Electro- mechanical cost estimate/SI No. 1)a)vii)	Diffuser air through put rate	As per tender specification, air through put rate at normal condition per diffuser per element provided in tender is 5-6 cfm. We request you to allow bidder to consider air through put rate based on the diffuser manufacturer standard.Please confirm.	Capacities provide for various pump & E&M equipment are minimum requirement . This may be increase as per manufacturer standard/ requirement

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6	BOQ/3.4 Electro- mechanical cost estimate/SI No. 1)a)vii)		Polyurethane is the most advanced and widely used MOC for diffusers, polyurethane diffusers are used in more than 300 STP across India successfully. As a result of its impressive performance many diffusers manufacturing companies like EDI/ Rehau are manufacturing polyurethane diffusers. Non-continuous aeration applications such as Sequential Batch Reactors (SBR) require an Aeration System that can be operated on a non-continuous basis. The cyclical nature of the SBR process requires that the Aeration System should be specifically engineered to handle the mechanical loading conditions that are associated with non-continuous operations. Operational experience with flexible membrane diffusers in non-continuous applications indicates that the flex fatigue characteristics of the membrane material are critical for the long-term performance of the diffuser. Results of extensive testing performed on different membrane material have established that Polyurethane has tremendous tensile, tear, abrasion and flex fatigue resistance when compared to Silicon Rubber (which is amorphous in nature) and other material (Neoprene). Hence, all the well-known manufactures worldwide recommend only Polyurethane Diffusers along with Neoprene and Silicone. Please confirm.	
7	Volume 4: Technical specification/5.1Civil works /Pg. no. 9	SBR basis : 4 nos.	In the tender specification 4 basin SBR systems considered for 2 MLD STP. Generally for 2 MLD STP, 2 basin systems are provided. Hence we request you to change four basin systems to two basin system for 2 MLD STP. Please confirm	-
8	Volume 4: Technical specification/5.2 List of mechanical supply and specification /Pg. no. 10	Air, RAS and SAS pump requirement	In tender specification Air, RAS and SAS pump capacities are provided. However, we request you to allow bidder to provide air, RAS and SAS pump capacities based on the SBR technology provider design. Please confirm	

Delhi				
SI.	Reference	Tender Provision	Bidders Queries	Reply
No.				
В	Sima Labs-			
1	Page No. 11, Clause 1.4.1 of Notice Inviting Bids of Volume I of tender documents	mean a Project comprising Construction of any RCC framed structure minimum two (02) storey (stilt, machine room and mumty shall	Kindly accept "Similar Works" means Completion of Supply & Installation of Sewage Treatment Plant (STP) and/or Effluent Treatment Plant (ETP). We did a project of STP/ETP for HSCC at AYUS Sarita Vihar and also we had bided the tender for ETP/STP at NEIAH Shilong. In both the tender it was mentioned Similar Works" means Completion of Supply & Installation of Sewage Treatment Plant (STP) and/or Effluent Treatment Plant (ETP).	As per tender condition.
2	• •	Exchange, Pollucon Technologies, Thermax, Enzotech,	We are a 28 Years old company in the field of STP/ ETP/ WTP. We are doing lots of projects for different Govt. Bodies like EIL, RITES, HSCC, MES, IMC, NDMC, NBCC etc. We have completed projects of STP for hospitals like AYUSH, RBIPMT, GNRC etc. Please allow our make for Water / Effluent/ Sewage Treatment Plant. We have also did a project of STP/ETP for HSCC at AYUS Sarita Vihar or We recommend you to not use preferred make for these items. In previously tender of ETP/STP at AYUS and NEIAH preferred make for these items were not used by HSCC.	As per tender condition.
3			We are a 28 Years old company in the field of STP/ ETP/ WTP. Please allow our make for the same or We recommend you to not use preferred make for this item.	As per tender condition.
4	Page No. 22 of Volume 04 of tender document.	Geo Miler & Co, Ion-Exchange, Pollucon Technologies, Thermax,	We are a 28 Years old company in the field of STP/ ETP/ WTP. We are doing lots of projects for different Gov. Bodies like EIL, RITES, HSCC, MES, IMC, NDMC, NBCC etc. We have completed projects of STP for hospitals like AYUSH, RBIPMT, GNRC etc. Please allow our make for Water / Effluent/ Sewage Treatment Plant. We have also did a project of STP/ETP for HSCC at AYUS Sarita Vihar or	As per tender condition.
5	Page No. 22 of Volume 04 of tender document.	Make of Bar screen (Manual)	This is a fabricated items preferred make should not be used for the same.	As per tender condition.

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SI. No.	Reference	Tender Provision	Bidders Queries	Reply
6	Page No. 22 of Volume 04 of tender document.	Make of Mechanical Bar screen: Jash , Wastech , Pollucon, Thermex, Geomiller	This is a fabricated items preferred make should not be used for the same.	As per tender condition.
7	Page No. 22 of Volume 04 of tender document.		Pollucon is not a technology provider of SBR technology. SBR decanter make should be as per STP E&M agency.	"Pollucon" deleted from SBR decanter make
8	Page No. 22 of Volume 04 of tender document.	Make of Sand/ Carbon Filter: Thremex, Geomiller, Pollucon ,Ion exchange, Degreemond, Pentair	This is a prefabricated items preferred make should not be used for the same. It should be as per STP E&M agency.	As per tender condition.
9	Page No. 22 of Volume 04 of tender document.	Make of Ultra Filtration System: Norit, Toray , Koch , Dow	We request you to add Hydranautics and INGE make for Ultra Filtration System.	As per tender condition.
10	Page No. 22 of Volume 04 of tender document.	Make of Centrifuge: Alfa, humboldt , Penwalt	We request you to add Hiller make for Centrifuge.	As per tender condition.
11	Page No. 22 of Volume 04 of tender document.	Thremex, Geomiller, Pollucon ,Triveni Last date to fill/upload the tender		

SI. No.	Reference	Tender Provision	Bidders Queries	Reply
C	EMS Infracon Pvt. Ltd.			
1	Page 47, Volume I Notice Inviting Bidders, Form H	Eligibility Criteria for Specialised Agency's should be same as Main Contractor's (Three Similar Works of 40% or Two Similar Work of 60% or One Similar Work of 80%)	Eligibility Criteria for Specialised Agency's should be same as Main Contractor's (Three Similar Works of 40% or Two Similar Work of 60% or One Similar Work of 80%)	i.Experience of having successfully completed similar specialized works during last 7 years ending last day of month previous to the one in which applications are invited should be either of the following:- a. Three similar works each of value not less than 40% of the estimated cost. b. Three similar works each of value not less than 60% of the estimated cost. c. One similar work of value not less than 80% of the estimated cost, all amounts rounded off to a convenient figure.
2	Page 47,Volume I Notice Inviting Bidders, Form H	Does Similar work here means STP based on SBR Technology or any other.	Does Similar work here means STP based on SBR Technology or any other.	i. For E&M specialized agency "similarly work" means WTP/STP E&M work of STP/WTP. ii. One complete work of SBR Based-STP
3	Page 68, Volume III Special Conditions of Contract	Please secify theTerms of Payment for other Components (Mechanical Equipments & Civil Works).	Please secify theTerms of Payment for other Components (Mechanical Equipments & Civil Works).	Clouse 24 of Vol. III at page no. 68 will be applicable for all equipment(ie. Electrical and Mechenical Both)
4	Page 1 to 65,Volume V Bill of quantities	Price is high in case of SS 304 as compared to CPVC.	Price is high in case of SS 304 as compared to CPVC.	(Most of the pipe will be used as SS-304 except some places where CPVC pipe wil be more suitable)

Tend	Tender for "Construction of Sewage Treatment Plant (STP) including associated works and their Operation & Maintenance in AIIMS Campus, Masjid Moth for AIIMS, New Delhi				
SI. Reference Tender Provision Bidders Queries Reply					
No.					
5	Page 50, Volume III Special Conditions of Contract	5	Does 3 year Annual Maintenance Contract is inclusive of 1 year of O & M during DLP?	3 year Annual Maintenance Contract is inclusive of 1 year of O & M during DLP.	