

Corrigendum-01
DESIGN, SUPPLY, ERECTION, TESTING & COMMISSIONING OF 200 KLD STP & 10 KLD ETP (MBR TECHNOLOGY)
AT GMC KONNI PHASE II

Tender No. HITES/IDS/STP-KONNI-PH II/23/12 (e-tender ID: 2023_HITES_588908_1)

Reply to Prebid queries

No	Tender Reference	Queries received from bidders	Reply by HITES
1	General	STP & ETP - Whether the two plants are completely separate ? or a separate stream for primary treatment/disinfection - followed by common secondary treatment [MBR]?	Yes. The STP and ETP are considered separately. The ETP outlet can be provided to the STP.
2	Volume 1 NIT	Footprint of the plant given is 25 x 10 meters - whether the ETP & STP is combinedly expected to come upon the same foot print ? [If separate plants]	The foot print of 25m X 10 m is for STP only . The area for ETP is earmarked separately. The ETP is near to the 300 KLD STP at GMC konni
3	General	Invert Level of Sewage & Effluent	Distance from last manhole will be 50 mtrs. Sloppy terrain land is selected as the STP location. Invert level to be finalized as per the topography of the land.
4	General	Inlet Characteristics of Sewage & Effluent	STP vendor shall visit the site and collect the details regarding the same.
5	General	Distance from the last manhole to the STP Unit, Distance from the point of collection of effluent to the ETPUnit.	Distance from last manhole will be 50 mtrs. Sloppy terrain land is selected as the STP location. Invert level to be finalized as per the topography of the land.
6	Volume 1 NIT	As per the tender - all civil constructions shall be under the scope of Main Contractor - does it mean all treatment tanks of the entire system shall be civil ?	Civil constructions is in the scope of the main contractor. RCC tanks are considered in the civil works.
7	Volume 1 NIT	Odor Control - as per the tender - supply of tube settler, PSF, ACF, UF, Biofilter is mentioned [Pg:30] - being a MBR Technology PSF/ACF isn't envisaged - to clarify.	Proper pretreatment /odour control methods have to be designed and executed for keeping the odour level to the minimum and has to be ensured by the vendor during operation.
8	Volume 1 NIT	Page No. 29 - Point 12 "Capacity of water to be treated in UF" - being an MBR based STP - UF isn'trequired - to confirm.	Mixed sewerage will be let into the STP. The outlet of the STP shall be provided for flushing and Landscaping. Ultrafiltration can be included in the scope due to the variable characteristics of the inlet.
9	Volume 1 NIT	Treated Water Tank - what would be the minimum capacity required and tank MoC - RCC/ HDPE	The size of the treated water tank shall be as per standards. The tanks structure shall be RCC.
10	Volume 1 NIT	Treated Water usage for Flushing, Gardening, Cooling Tower - minimum distance to be considered	Minimum distance for pumping is almost 300 meters . Height will be around 50 mtrs.
11	General	Excess Treated Water to be disposed to nearest drain - minimum distance to be considered	Minimum distance to be considered for drain 200 Mtrs.
12	Volume 1 NIT	DLP of 3 Years unless the plant is operated and maintained by us can't be given	No Change. Terms & conditions of e-tender prevail
13	Volume 3 CC	In Approved Makes - we propose the following makes; we request you to consider & if possible, add these makes to list of approved makes: a. Memcor™ Mempulse™ (Dupont) membranes. b. Cleartek manufactured Heliflow - Screw/ Sludge Pumps	Revised make list attached.
14	Volume 1 NIT	The area mentioned in the tender document is 25 x 10 = 250 m2. The area available for the 10 KLD ETP is not clarified here.	The foot print of 25m X 10m is for STP only . The area for ETP is earmarked separately. The area for ETP is nearly 8m X 8 mt. The internal design is under the scope of STP & ETP vendor
15	General	The distance to the last manhole and the invert level is not mentioned.	Distance from last manhole will be 50 mtrs. Sloppy terrain land is selected as the STP location. Invert level to be finalized as per the topography of the land.
16	Volume 1 NIT	It is mentioned that the CTE and CTO are under the scope of contractor in Volume 1 NIT. Whether The statutory fee for getting the CTE/CTO comes under Client / the contractor is not mentioned.	Refer Clause 3.5 ,Section III,Volume I of NIT.

Reply to Prebid queries

No	Tender Reference	Queries received from bidders	Reply by HITES
17	Volume 3 CC	Regarding the make list, we would request you to consider the following makes for: a.Butterfly valve: Intervalve b.EM Flow meter: Radix c.Level sensor and transmitter: Radix d.Pressure Gauge: Baumer	Revised make list attached.
18	General	If the effluent coming to the ETP is radioactive, whether an underground delay tank is provided. This needs to be clarified.	No radioactive material is coming to the ETP.
19	General	Whether the ETP is a separate treatment unit or can we conduct the primary treatment for the effluent there and later transferred to the either the 300 KLD STP or 200 KLD STP.	ETP is a separate treatment unit. The output of ETP can be transferred to the 300 KLD STP.
20	Volume 3 CC	The Make of Bar screen is given as KSP/AWMS/PAMM or equivalent in the make list. Since this is a metallicstructure, the contractor can design and fabricate the structure according to his / her design of the chamber. Kindly clarify.	Terms & conditions of e-tender prevail
21	Volume 1 NIT	Whether EMD exemption is allowed for MSME/NSIC registered firms which includes processing fee, S.D, Tenderfee etc.	No exemption allowed. Terms & conditions of e-tender prevail
22	Volume 2 GCC	Preferable payment terms requested. ie. 50% Advance 30% against delivery of the Prefabricated plant 10% Erection 10% Commissioning	No Change. Terms & conditions of e-tender prevail
23	General	Total area available for installation	The foot print of 25m X 10m is for STP only . The area for ETP is earmarked separately. The area for ETP is nearly 8m X 8 mt. The internal design is under the scope of STP & ETP vendor
24	General	We have installed a 200 KLD STP based on MBR technology. The total project cost is above 85 Lacs. We have carried out the work of Mechanical Plant works only. Also given the plant's very low cost/ discounted price as it is a hospital. Are you considering the capacity of the plant and as well as cost too ?	Please refer Clause 1.4.1 eligibility criteria of Volume 1 of NIT
25	Volume 1 NIT,,Section III,Page No 27	As per tender Separate quote shall be given for Operation & Maintenance and CAMC for 9 years	Amended as Separate quote shall be given for Operation & Maintenance for 9 years and CAMC for 7 years
26	Volume 1 NIT	Tender submission date may kindly extend for another two weeks.	No Change. Terms & conditions of e-tender prevail

Note:

(i) The above reply to pre-bid queries issued as Corrigendum-01 shall form part of the tender.

(ii) All bidders are requested to upload this Corrigendum-01 duly signed & sealed by their authorised representative along with the online bid.

(iii) All other terms & conditions of the tender shall remain the same

For HITES
s/d
Authorised Representative

<u>B. LIST OF APPROVED MAKES (REVISED)</u>		
1.	Air Blowers	Beta/ Everest/ Kulkarni / TMVT/Kay/A1
2.	Air Diffussion System	Airfin/Usha Ruba/Rehau
3.	Air Vent Valve	Oven trop (Germany) / CIM / Rapid Control/ Castle
4.	Anti-Corrosive Tape for Pipe protection	Pypcoat / Marphalt / Cotek/STP
5.	Ball Valve	Zoloto/Honeywell/ RB/ Castle/ Audco/ Leader/ KSB/Zoloto/IVC
6.	Bar Screen	KSP/AWMS/PAMM or equivalent
7.	Blowers	Kay / Airvac /Everest/ Kirloskar/ ABB/ Crompton/ Havells
8.	Butterfly valves	Zoloto/Audco/Kirloskar/AIP/Advance/ Castle/Intervale
9.	Centrifuge	Apollo/United/B.A Engineering
10.	Check Valve – Dual Plate	Advance/Honeywell/Audco/Zoloto/ Castle
11.	Check Valve – Wafer Type	Advance/Danfoss/Zoloto/Honeywell/ Castle
12.	Chemical Cleaning Pump	WILO / DP/ Grundfos/ Xylem
13.	Chemical Cleaning Tank	Polycon / Sintex/ Vectus
14.	Chemical Dosing system	Asia LMI/ Seiko/ E – Dose/ Grundfoss/Akash/Eql
15.	Dosing Pump	Grundfos / Asia LMI / E-dose / Prominent/ Akash/ Eql
16.	Electrical Panel	L&T/ ABB / Schneider/ Siemens/ Megawin/ Unitech Electrical/ Eaton or their authorized System Integrator/ Channel Partner

17.	Epoxy Paint & Paint	Akzonobel DULUX/ Nerolac / Cico/ Sika / BASF / Berger / Pidilite/ STP Ltd./ Fosroc/ MC / Bauchemie/ Jotun / Asian Paints/ Jenson & Nicholson / Nippon
18.	F.R.P Vessel	Pentair / Aventura / Thermax/ Ion Exchange
19.	Flow Meters & Flow Transmitters (Digital)	Aster / VATS / Honeywell/ Krohne Marshall/ Forbes Thermax/ Omicron/ABB/Radix
20.	Flow Rota Meter for Suction Pump	UKL / Aster /Scientific
21.	Foot Valve	Kirloskar/ Kalpana / Leader/ BDK / Sant/ Zoloto/ Castle
22.	G.I. fittings (malleable cast iron)	RR/Unik/Zoloto/K.S./Sun/ Swastik/Jainsons /DRP
23.	G.I. Pipes/ M.S. Pipe	Jindal / Tata / Prakash Surya/ SAIL/ Swastik/ APL-Apollo
24.	High Pressure Feed Pump	WILO / DP/Grundfos/ Xylem
25.	Level Controller/ Level Indicator/ Level Switch	Aster/Cirrus India/Rockwell Automation/ Minilec/ L&T/ Omicron/Vguard/Pune
26.	MBR Module	GE/ Siemens/ Mitsubishi/ Ion Exchange/ Koch/ Thermax / memstar/ MemcorTM/ MempulseTM (Dupont) membranes
27.	MBR Permeate Suction Pump	Wilo / DP/Grundfos/ Xylem/ Kirloskar/Crompton/Johnson
28.	Media	Ion Exchange/ Thermax/ Cooldeck/ Usha Ruba/ MM Aqua/ Pharmatech
29.	Motor	Siemens/ Crompton & Greaves/ ABB/ Kirloskar/ Bharat Bijlee
30.	MSEP Vessel	Ion Exchange/ Thermax or equivalent as per manufacturer's standard
31.	Multiport Valve	Thermax/ Pentair/ ORG/ Astral/ Praher Aquafiltration
32.	Non Return Valve	Zoloto/Honeywell/ RB/ Castle/ Audco/ Danfoss/ Leader/ KSB/ IVCExpert
33.	PH Meter online	VATS / Hanna/Aster/Digital/ Honeywell/ Thermax/ Krohne/ Forbes Marshall/ Omicron / Microset / Nivelco /Jumo/ Rosemount – emerson
34.	Pipe clamp & supports	Chilly/Euroclamp/Kanwal/ HIRA-Walraven

35.	PLC / HMI	Schneider / Allenbradley /Mitsubishi/ Minilec/ ABB/ Siemens/ L&T/Delta
36.	Pressure Gauges	Waree / H Guru / Fiebig/ HD/ Omicron/Baumer
37.	Pressure Switch	Danfoss / Indfoss / Switzer/ Omicron
38.	Pump Sets i/c Water transfer and sludge disposal/ transfer pump	WILO / DP/ Grundfos/ Xylem/ KSB/ Kirloskar/ Cleartek manufactured Heliflow
39.	Resin	Thermax / Ion Exchange/ Auchtel
40.	Semi Auto Fine Screen	Toro/ KSP / AWMS/ PAMM
41.	Sewage Feed pump/ Drainage / Submersible Pumps	WILO / DP/ Grundfos/ Xylem
42.	Strainers	Emerald / Zoloto / Maharaja/ Castle/ Audco/ L&T/ Sant/ Leader/ Rapid cool
43.	Transfer Pumps	WILO / DP/Grundfos/ Xylem/ KSB/ Kirloskar
44.	Tube Settler/ Lamella plates	Thermax/ Ion Exchange/ Sema
45.	UV Systems	Alpha / Creative UV/ Pentair/Eureka Forbes/ Philips/ Ruks/Hitech UV
46.	Variable Frequency Drives	Danfoss/Schneider/Siemens/ABB/ L&T
47.	Vibration Eliminator / Anti- Vibration Mounting pads	Resistoflex / Kanwal /Banco/Dunlop/ Easyflex/ Hira-Walraven
48.	Water Meter	Capstan / Kranti/ Anand/ Kant/ Aristo/
49.	Screw Pump	Verito / Rotomac/ Hydro Prokav/ Cleartek manufactured Heliflow
50.	Bubble Diffuser	SCOGEN/TECPRO or Equivalent
51.	Vaccum Pressure guage	Switzer / Feibig/HD
52.	Solenoid Valve / Box	IEI/Honey well / Danfoss / ABB
53.	Online Turbidity meter	Microset / Nivelco / Forbes Marshal/ Nivelco /Jumo/Rosemount – emerson
54.	Online ORP sensor	Microset / Nivelco / Forbes Marshal/ Nivelco /Jumo/Rosemount – emerson
55.	Panel Enclosure	Rittal / BCH / Eql
56.	Switch gear	Schneider / L&T/Delta
57.	Cables	Gloster / Havells / Finolex / Polycab
58.	uPVC / CPVC Pipes	Finolex/ Supreme / Astral / Price / Supreme
59.	Filter press	Delhi Filter Press and Diffusers , Hydro press industries , Energy Equipments, Cleartek , Welcome Engineers