

**BOQ- Revamping of 450 KLD MBBR Based STP
The World Spa Sector-30/41 Gurugram**

Sr. No	Description	Specification	UOM	Qty	Rate	Amount	Remark
1	Supply, Installation, Testing and Commissioning of bar screen with MSEP frame.	Size - 500x500 MM, MOC- SS 304	Nos	2			
2	Supply, Installation, Testing and Commissioning of Submersible Cutter Type Pump for Collection tank including discharge pipe line & fitting such as elbow, socket, valves, NRV & lifting arrangement including GI chain, etc.	Head-15-20 Mtr, Minimum Discharge- 20 Cum/Hr, Make-KSB/Kirloskar	Nos	2			
3	Supply, Installation, Testing and Commissioning of Submersible Cutter Type Pump to discharge the additional sewage including discharge pipe line & fitting such as elbow, socket, valves, NRV & lifting arrangement including GI chain, etc.	Head-25-35 Mtr, Minimum Discharge- 20 Cum/Hr, Make-KSB/Kirloskar	Nos	1			
4	Supply, Installation, Testing and Commissioning of Submersible Cutter Type Pump to transfer the plant room drain from sump pit to equalization tank including discharge pipe line & fitting such as elbow, socket, valves, NRV & lifting arrangement including GI chain, etc.	Head-15-20 Mtr, Minimum Discharge- 20 Cum/Hr, Make-KSB/Kirloskar	Nos	1			
5	Supply, Installation, Testing and Commissioning of Screw Press System including base frame.	Make: Chemiscience/Macsun Capacity: 1.5 m3/hr	Nos	1			
6	Supply, Installation, Testing and Commissioning of Poly Dosing System with dosing tank & other fittings including the air mixing arrangement.	Make- Milton Roy, Cap- 10 LPH, Tank- Sintex, Tank Cap- 200 Ltr	Set	1			
7	Supply, Installation, Testing and Commissioning of Screw Press Feed Pump including Pipe & Fittings, Suction & Discharge pipe line.	Make: Kirloskar, Model: SP1HM, Cap- 1.5 cum/hr	Nos	1			
8	Supply of Multi Grade Media for MGF (Dia-1800 MM, HOS-2000 MM)						
a)	Pebbles		Kg	1100			
b)	Gravels		Kg	600			
c)	Coarse Sand		Kg	750			
d)	Fine Sand		Kg	1200			
9	Installation, testing & commissioning of Filter Media for MGF including emptying and refilling of media with stainers, packing & nut bolts. The waste material shall dispose off with the permission of project incharge.		Job	1			
10	Supply of Activated Carbon Media IDV 900 for ACF (Dia-1800 MM, HOS-2000 MM)	IDV-900	Kg	600			
11	Supply of Supporting Media such as gravals, pebbles, coarse sand.		Kg	2400			
12	Installation, testing & commissioning of Activated Carbon Media for ACF including emptying and refilling of media with stainers, packing & nut bolts. The waste material shall dispose off with the permission of project incharge.		Job	1			

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13	Painting Charges to do the two coat of epoxy paint inside the MGF & ACF including the manpower & material such as paint, brush, tarpeen oil, cloth, etc.	Make-Nerolac/Berger	Job	2			
14	Supply, Installation, Testing and Commissioning of Chlorine Dosing Pump.	Make:E dose/Eqv,Flow: 0-6LPH	Nos	1			
15	Supply, Installation, Testing and Commissioning of Ph Meter with sensor & other fittings.	Make- Aster,Output-4-20mA/RS 485	Nos	1			
16	Supply and installation of UF Plant of capacity 17.0 cum/hr complete with all interconnecting pipes and valves with all the required accessories & chemical cleaning system, complete in all respects. including micron cartridge filter in PP housing, solenoid Valve, Electrical Panel, flow meter and all other accessories making the system complete. Flow rate: 17.0m3/hr Output No. of UF Membrane - 1 Lot (As per manufacturer design. No. of membrane & capacity of each membrane & feasibility of space inside STP plant room to be indicated by Vendor at this stage		Nos	1			
17	Supply and installation, Testing and commissioning of Ozonator.	Make: OZ air, Cap-200 gm suitable for 20 m3/ hr flow rate .	Nos	1			
18	Supply, Installation, Testing and Commissioning of Outlet Flowmeter cum Totalizer & the flow meter shall install as per the OEM guideline in U shape with bi pass arrangement & fittings.	Make: UPC ,Size: 80mm	Job	1			
19	Servicing of Air Blower including gear , bearings, oil seal, filters,etc	Make- Shanti, Cap-500 Cum/Hr, Model-67 SB	Nos	2			
20	Supply, Installation, Testing and Commissioning of MBBR media.	Size-16x25 MM, Type - PVC (Black), Surface Area-400	Cum	20			
21	Supply, Installation, Testing and Commissioning of SS Baffle valve for tube settler tank including material SS angle, Fashner, etc & manpower.	Tank Size- 4000x3600 MM	Job	1			
22	Supply, Installation, Testing & Commissioning of Tube Deck Media.	Size-750 MM, Make- Cooldeck/MM Aqua,Tank Size- 4000x3600 MM	Job	1			
23	Supply,Installation of Air mixing Pipeline including Pipe and Fittings for Collection Tank.	Make- Astral.	Job	1			
24	Supply, Installation, Testing and Commissioning of Coarse air diffuser for Collection tank.	Type- Disc,Size: 150mm, MOC-EPDM	Nos	10			
25	Supply, Installation, Testing and Commissioning of Fine Air Bubble Diffuser for MBBR Tank I & II.	Make: Scogen ,Membrane: Silicon, Size: 63x1000mm, Type-Tubular	Nos	40			
26	Replacement of Riser Pipe in MBBR Tank	MOC-PVC, Make- Prince/ Supreme, Size- 150 MM	Job	2			
27	Servicing of UV including replacement of lamps,sleeves, rings , holders,ballast, panel,etc	Make-Concept, Model-PAF/CHF-3342	Job	1			
28	Supply, Installation, Testing and Commissioning of Motorize Valve for Treated water Bypass Line.	Make: Zoloto, Size: 80mm	Nos	1			
29	Electrical wiring to charge the Screw Press System electrical panel & Starter modification suitable for Sump Pump & Collection Pump.	Make- L&T/Schneider, Size-4 core,4 SqMM/ Equiv	Job	1			
30	Disposal of scrape such as filter media, tube deck media,etc from plant room to dedicated autorised dump yard including manpower & transportaion.		Job	1			

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31	Supply, Installation, Testing & Commissioning of Starter panel suitable to operate the bi pass pump including cable tray , cable, thimbles,etc	Make- L&T/Schneider.	Nos	1			
32	Cleaning of Following Tanks including manpower, Tankers,tools & tackels, sewage transfer arrangement such as pumps, pipe,etc -						
33	Installation, Testing & Commissioning of GI Pipe line including ms support, nut bolt & washer with red oxide primer and enamel paint.	Class-C					
a)	2"	Rate Only	Nos	1			
b)	2-1/2"	Rate Only	Nos	1			
c)	3"	Rate Only	Nos	1			
d)	4"	Rate Only	Nos	1			
34	Supply of Butter Fly Valves-	Make-ZOLOTO					
a)	2"	Rate Only	Nos	1			
b)	2-1/2"	Rate Only	Nos	1			
c)	3"	Rate Only	Nos	1			
d)	4"	Rate Only	Nos	1			
35	Supply of NRV-	Make-ZOLOTO					
a)	2"	Rate Only	Nos	1			
b)	2-1/2"	Rate Only	Nos	1			
c)	3"	Rate Only	Nos	1			
36	Collection Tank-75 KL		Nos	1			
a)	Equalisation Tank-55 KL		Nos	1			
b)	Anoxic Tank-50 KL		Nos	1			
c)	MBBR Tank-1 (Phase-I)-42KL		Nos	1			
d)	MBBR Tank-2 (Phase-II)-42 KL		Nos	1			
e)	Tube Settler Tank-1-50 KL		Nos	1			
f)	Chlorine Contact Tank- 37 KL		Nos	2			
g)	Sludge Holding Tank-30 KL		Nos	1			
h)	Irrigation Water Tank-44 KL		Nos	1			
i)	Treated Water Tank-44 KL		Nos	1			
37	Freight/ Shifting Charges		Job	1			

Note:- Variation may observe during the execution, which shall payable extra.


Udairaj Singh
Technical- Manager


Harpreet Singh
Estate -Head


Manish Saraswat
AIMSPL-SME


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