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			
	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			
	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			
	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			
	Supply, Installation, Testing and Commissioning of Poly Dosing System with dosing tank & other fittings inlouding 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)	Pebbels		Kg	1100			
b)	Gravels		Kg	600			
c)	Coarse Sand		Kg	750			
d)	Fine Sand		Kg	1200			
	Installation, testing & commissioning of Filter Media for MGF including emptying and refiling 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, pebbeles, coarse sand.		Kg	2400			
	Installation, testing & commissioning of Activated Carbon Media for ACF including emptying and refiling 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 Changes to do the two cool of epoxy call tribude the MGF. & ACF Including Moke-Neroloc/Barger Job 2 14 Supply, Indication, Testing and Commissioning of Chicrine Dasing Pump. 15 Supply, Indication, Testing and Commissioning of Ph Meter with sensor & other fiftings. 16 Supply and indication of UP Flant of copacity 17.0 cum/hr complete with all inference or control of the property of th	10		In the second second				 T	
Supply, Installation, Testing and Commissioning of Ph Meter with sensor & other fittings. No. 1 Supply and installation of UF Plant of capacity 17.0 cum/hr complete with all infectionsering pipes and valves with all the required accessories & chemical obcoming system, complete in all respects, including micron confider filter in Pp and infection by system complete. First wite 17.0 p.m. of the property of each membrane is formation. In the system complete First water 17.0 p.m. of UF Membrane - 1 Los (As per manufacturer design, No. of membrane & capacity of each membrane & featibility of space inside SP plant room to be indicated by Vendor at this stage.	13		Make-Nerolac/Berger	Job	2			
fittings. 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 contridge fitter in PP housing, solenoid Valve, Electrical Pranel, flow meter and all other accessories in Chemical Provided	14	Supply, Installation, Testing and Commissioning of Chlorine Dosing Pump.	Make:E dose/Eqv,Flow: 0-6LPH	Nos	1			
interconnecting pipes and valves with all the required accessories & chemical cleaning system, complete in all respects, including micror cartridge fifter in PP housing, solanoid Valve, Electrical Panel, flow meter and all other accessories making the system complete, flow rate I; 70m3/hr Otyput No. of Ur Ammortana - I Lot (As per manufacturer design. No. of membrane & capacity of each membrane - I Lot (As per manufacturer design. No. of membrane & capacity of each membrane - I Lot (As per manufacturer design. No. of membrane & capacity of each membrane & featibility of space inside SP plant room to be indicated by vender at this stage. 17 Supply and installation, Testing and Commissioning of Ozonator. 18 Supply, Installation, Testing and Commissioning of Ozonator. 19 Servicing of Air Blower including gear , bearings, oil seol, filters, etc. 20 Supply, Installation, Testing and Commissioning of MBBR media. 21 Supply, Installation, Testing and Commissioning of MBBR media. 22 Supply, Installation, Testing and Commissioning of SS Baffle valve for fube settler tank far fixes 4000x3600 MM 23 Supply, Installation, Testing & Commissioning of Tube Deck Media. 24 Supply, Installation, Testing & Commissioning of Tube Deck Media. 25 Supply, Installation, Testing and Commissioning of Tube Deck Media. 26 Supply, Installation, Testing and Commissioning of Toorse air diffuser for Collection fank. 27 Supply, Installation, Testing and Commissioning of Toorse air diffuser for Collection fank. 28 Supply, Installation, Testing and Commissioning of Fine Air Bubble Diffuser for MBBR Makes Scogen , Membranes Silicon, Nos 10 fank. 29 Servicing of UV including replacement of lamps, sleeves, rings , holders, ballotter for make Supply, Installation, Testing and Commissioning of Motorize Valve for treated water Supply, Installation, Testing and Commissioning of Motorize Valve for Treated water Supply, Installation, Testing and Commissioning of Motorize Valve for Treated water Supply, Installation, Testing and Commissioning of	15	_	Make- Aster,Output-4-20mA/RS 485	Nos	1			
for 20 m3/ hr flow rate . Supply, Installation, Testing and Commissioning of Outlet Howmeter cum Totalizer & the flow meter shall install as per the OEM guidline in U shape with bi pass arrangement & fittings. Servicing of Air Blower including gear , bearings, oil seal, filters, etc. Make: Shanti, Cap-500 Cum/Hr, Model-6/3 Si.	16	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		Nos	1			
the flow meter shall install as per the OEM guidline in U shape with bi pass arrangement & fittings. 19 Servicing of Air Blower including gear , bearings, oil seal, filters,etc 20 Supply, Installation, Testing and Commissioning of MBBR media. 21 Supply, Installation, Testing and Commissioning of SS Baffle valve for tube settler tank including material SS angle, Foshner, etc & manpower. 22 Supply, Installation, Testing & Commissioning of Tube Deck Media. 23 Supply, Installation, Testing & Commissioning of Tube Deck Media. 24 Supply, Installation, Testing and Commissioning of Coarse air diffuser for Collection Iank. 25 Supply, Installation, Testing and Commissioning of Fine Air Bubble Diffuser for MBBR Tank. 26 Replacement of Riser Pipe in MBBR Tank 27 Servicing of UV including replacement of lamps, sleeves, rings , holders, ballast, panel, etc 28 Supply, Installation, Testing and Commissioning of Motorize Valve for Treated water Bypose Line. 29 Electrical wiring to charge the Screw Press System electrical panel & Starter modifications, autilable for Sump Pump & Collection Pump. 30 Disposal of scrape such as filter media, use the media, to the charge the Screw Press System electrical panel & Starter modification suitable for Sump Pump & Collection Pump. 30 Disposal of scrape such as filter media, to be charged what is the modification suitable for Sump Pump & Collection Pump. 30 Disposal of scrape such as filter media, tube deck medic, etc from plant room to	17	Supply and installation, Testing and commissioning of Ozonator.	, ,	Nos	1			
Model-67 SB Model-67 SD	18	the flow meter shall install as per the OEM guidline in U shape with bi pass	Make: UPC ,Size: 80mm	Job	1			
Supply, Installation, Testing and Commissioning of MBBR media. Size-16x25 MM, Type - PVC (Black), Size-16x25 MM, Make-Cooldeck/MM, Aqua.Tank Size-4000x3600 MM Size-16x26 MM, Aqua.Tank Size-4000	19	Servicing of Air Blower including gear , bearings, oil seal, filters, etc	· ·	Nos	2			
Supply, Installation, Testing and Commissioning of St Baffle valve for tube settler tank including material SS angle, Fashner, etc & manpower. Tank Size- 4000x3600 MM Job 1	20	Supply, Installation, Testing and Commissioning of MBBR media.	Size-16x25 MM, Type - PVC (Black),	Cum	20			
Aqua, Tank Size- 4000x3600 MM 23 Supply, Installation of Air mixing Pipeline including Pipe and Fittings for Collection Tank. 24 Supply, Installation, Testing and Commissioning of Coarse air diffuser for Collection Tank. 25 Supply, Installation, Testing and Commissioning of Fine Air Bubble Diffuser for MBBR Tank. 26 Replacement of Riser Pipe in MBBR Tank 27 Servicing of UV including replacement of lamps, sleeves, rings, holders, ballast, panel, etc 28 Supply, Installation, Testing and Commissioning of Fine Air Bubble Diffuser for MBBR Make: Scogen , Membrane: Silicon, Size: 63x1000mm, Type-Tubular MOC-PVC, Make- Prince/ Supreme, Size- 150 MM Make-Concept, Model-PAF/CHF- 3342 28 Supply, Installation, Testing and Commissioning of Motorize Valve for Treated water Bypass Line. Make-Concept, Model-PAF/CHF- 3342 Make-Concept,	21			Job	1			
Tank. Supply, Installation, Testing and Commissioning of Coarse air diffuser for Collection tank. 25 Supply, Installation, Testing and Commissioning of Fine Air Bubble Diffuser for MBBR Supply, Installation, Testing and Commissioning of Fine Air Bubble Diffuser for MBBR Tank I & II. 26 Replacement of Riser Pipe in MBBR Tank MOC-PVC, Make- Prince/ Supreme, Size- 150 MM Make-Concept, Model-PAF/CHF- 3342 27 Supply, Installation, Testing and Commissioning of Motorize Valve for Treated water Bypass Line. Make- Zoloto, Size: 80mm Nos Nos Make- L&T/Schneider, Size-4 core, 4 Make- L&T/Schneider, Size-4 core, 4 Dob Disposal of scrape such as filter media, tube deck media, etc from plant room to	22	Supply, Installation, Testing & Commissioning of Tube Deck Media.		Job	1			
tank. Supply, Installation, Testing and Commissioning of Fine Air Bubble Diffuser for MBBR Tank I & II. Make: Scogen , Membrane: Silicon, Size: 63x1000mm, Type-Tubular Moc-PVC, Make-Prince/ Supreme, Size-150 MM Size-150 MM Size-150 MM Size-150 MM Make-Concept, Model-PAF/CHF-3342 Supply, Installation, Testing and Commissioning of Motorize Valve for Treated water Bypass Line. Make-Zoloto, Size: 80mm Make: Zoloto, Size: 80mm Nos Electrical wiring to charge the Screw Press System electrical panel & Starter modification suitable for Sump Pump & Collection Pump. Disposal of Scrape such as filter media, tube deck media,etc from plant room to	23		Make- Astral.	Job	1			
Supply, Installation, Testing and Commissioning of Fine Air Bubble Diffuser for MBBR Tank I. Make: Scogen ,Membrane: Silicon, Size: 63x1000mm, Type-Tubular Job 2 Replacement of Riser Pipe in MBBR Tank MCC-PVC, Make- Prince/ Supreme, Size- 150 MM Make: Scogen ,Membrane: Silicon, Size: 63x1000mm, Type-Tubular Job 2 Servicing of UV including replacement of lamps,sleeves, rings , holders,ballast, panel,etc Make-Concept, Model-PAF/CHF- 3342 Supply, Installation, Testing and Commissioning of Motorize Valve for Treated water Bypass Line. Make: Zoloto, Size: 80mm Nos 1 Electrical wiring to charge the Screw Press System electrical panel & Starter modification suitable for Sump Pump & Collection Pump. 30 Disposal of scrape such as filter media, tube deck media,etc from plant room to	24	Supply, Installation, Testing and Commissioning of Coarse air diffuser for Collection	Type- Disc,Size: 150mm, MOC-EPDM	Nos	10			
Size- 150 MM 27 Servicing of UV including replacement of lamps, sleeves, rings, holders, ballast, panel, etc 28 Supply, Installation, Testing and Commissioning of Motorize Valve for Treated water Bypass Line. 29 Electrical wiring to charge the Screw Press System electrical panel & Starter modification suitable for Sump Pump & Collection Pump. 30 Disposal of scrape such as filter media, tube deck media, etc from plant room to	25	Supply, Installation, Testing and Commissioning of Fine Air Bubble Diffuser for MBBR	4	Nos	40			
27 Servicing of UV including replacement of lamps,sleeves, rings , holders,ballast, panel,etc 28 Supply, Installation, Testing and Commissioning of Motorize Valve for Treated water Bypass Line. 29 Electrical wiring to charge the Screw Press System electrical panel & Starter modification suitable for Sump Pump & Collection Pump. 30 Disposal of scrape such as filter media, tube deck media,etc from plant room to	26	Replacement of Riser Pipe in MBBR Tank		Job	2			
Bypass Line. 29 Electrical wiring to charge the Screw Press System electrical panel & Starter modification suitable for Sump Pump & Collection Pump. 30 Disposal of scrape such as filter media, tube deck media, etc from plant room to Make- L&T/Schneider, Size-4 core, 4 SaMM/ Equiv Job 1 Job 1	27		Make-Concept, Model-PAF/CHF-	Job	1			
modification suitable for Sump Pump & Collection Pump. SaMM/ Equiv Job 1	28	_	Make: Zoloto, Size: 80mm	Nos	1	X		
30 Disposal of scrape such as filter media, tube deck media, etc from plant room to	29	· · · · · · · · · · · · · · · · · · ·		Job	1			
	30	Disposal of scrape such as filter media, tube deck media, etc from plant room to	CONTRACTOR EGYPT	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	91			
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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