



LIFELINE WASTEWATER TREATMENT PLANT (100 TD)

SPECIFICATIONS COMPONENT CATALOGUE TECHNOLOGY PROCESS

NO.	ITEM	SPEC.	QTY	UNIT	BRAND	REMARKS
I EQ TANK PRE TREATMENT SECTION						
1	LIFT PUMP	1、WQ5-8-0.37 2、 $Q \geq 5m^3/h$ 3、 $H \geq 8m$ 4、 $N \geq 0.37KW$ 5、DN32	2	SET	XINJIE	1W+1S AUTOMATICALLY OPERATE ACCORDING TO THE LIQUID LEVEL SWITCH OF THE REGULATING TANK, STOP WORKING AT LOW LIQUID LEVEL, OPERATE NORMALLY AT HIGH LIQUID LEVEL, AND SWITCH AUTOMATICALLY AFTER 6-8 HOURS OF OPERATION.
2	LIQUID LEVEL CONTROL	GAC-PAC-05	2	SET	GUYI	1W+1S
3	LIFT PUMP FITTINGS	PIPELINE FLANGE VALVE CABLE	2	SET	PPFG	MATCHING
4	WATER INLET PIPES	STANDARD	1	SET	PPFG	PVC
II SEWAGE TREATMENT PLANT (STP)						
1	STP BODY	10.5*2*2.4M	1	SET	PPFG	STANDARD CARBON STEEL MATERIAL WITH A THICKNESS OF 5MM. DOUBLE SIDED FULL WELDING, GROUND FOOT TREATMENT OF WELDING POINTS, KEROSENE TEST FOR LEAKAGE, 3 COATS OF EPOXY COAL TAR PAINT ON THE INSIDE AND OUTSIDE, AND AN ADDITIONAL 3 COATS OF ANTI-CORROSION TOPCOAT ON THE OUTSIDE.



2	MANHOLE	SIZE:500*500M MOC: CS+COATED COVER: PLASTIC STEEL	4	SET	PPFG	(THE MEMBRANE TANK MAINTENANCE HOLE IS ENLARGED ACCORDING TO THE MEMBRANE FRAME)
3	LIFTING DEVICE	STANDARD	4	SET	PPFG	CS+COATED
4	REFORCING RIB	10# CHANNEL STEEL, DN50 STEEL PIPE REINFORCEMENT OF TANK CHANNEL STEEL,	1	SET	PPFG	CS+COATED
三 ANOXIC TANK						
1	WATER INLET	STANDARD	1	SET	PPFG	STANDARD
2	COMBINED MEDIA	1. SPECIFIC SURFACE AREA $\geq 500M^3/m^2$ 2. UNIT WEIGHT $\geq 1.5KG/M^3$ 3. HANGING FILM WEIGHT $\geq 65KG/M^3$ 4. SPECIFICATION AND MATERIAL: $\Phi 150$ ALDEHYDE FIBER POLYESTER YARN 5. MORE THAN 80% OF THE FILLING MATERIAL 6. LIFETIME REPLACEMENT FREE	1	SET	PPFG	THE FILLER WITH HIGH STRENGTH, AGING RESISTANCE, CORROSION RESISTANCE, EASY FILM HANGING, LARGE SPECIFIC SURFACE AREA AND HIGH VOID RATIO SHALL BE USED.
3	MEDIA SUPPORT	$\Phi 14$ GALVANIZED ANTI-CORROSION THREADED STEEL, 10# GALVANIZED ANTI-CORROSION ANGLE STEEL LINE SPACING 150MM	1	SET	PPFG	COMPARED WITH NYLON ROPES OR ORDINARY STEEL PIPES ON THE MARKET, GALVANIZED THREADED STEEL CAN EFFECTIVELY PREVENT THE UNSATISFACTORY WATER DISCHARGE EFFECT CAUSED BY THE ENTANGLEMENT OF FILLERS UNDER UNINTERRUPTED AERATION.
4	MIXER	PERFORATED AERATION MIXING	1	SET	PPFG	PVC
5	MIXER PIPES	STANDARD	1	SET	PPFG	PVC
6	DRAFT TUBE	STANDARD	1	SET	PPFG	CS+COATED
7	REFORCING RIB	10# CHANNEL STEEL, DN50 STEEL PIPE REINFORCEMENT OF TANK CHANNEL STEEL,	1	SET	PPFG	CS+COATED
四 OXIC TANK						
1	NITRIFICATION LIQUID RETURN PUMP	1、WQ10-11-0.75 2、 $Q \geq 10m^3/h$ 3、 $H \geq 11m$ 4、 $N \geq 0.75KW$ 5.DN40	1	SET	XJ	NORMALLY OPEN, THE NITRATE NITROGEN PRODUCED BY THE OXIDATION OF AMMONIA NITROGEN BY NITRIFYING BACTERIA IN THE NITRATION SOLUTION FLOWS BACK TO THE



						FRONT END, AND IS DENITRIFIED BY DENITRIFYING BACTERIA TO ACHIEVE TOTAL NITROGEN REMOVAL.
2	NITRIFICATION LIQUID RETURN PIPES	STANDARD	1	SET	PPFG	CS+COATED
3	MEDIA	1. SPECIFIC SURFACE AREA $\geq 500M^3/m^2$ 2. UNIT WEIGHT $\geq 1.5KG/M^3$ 3. HANGING FILM WEIGHT $\geq 65KG/M^3$ 4. SPECIFICATION AND MATERIAL: $\Phi 150$ ALDEHYDE FIBER POLYESTER YARN 5. MORE THAN 80% OF THE FILLING MATERIAL 6. LIFETIME REPLACEMENT	1	SET	PPFG	THE FILLER WITH HIGH STRENGTH, AGING RESISTANCE, CORROSION RESISTANCE, EASY FILM HANGING, LARGE SPECIFIC SURFACE AREA AND HIGH VOID RATIO SHALL BE USED.
4	MEDIA SUPPORT	$\Phi 14$ GALVANIZED ANTI-CORROSION THREADED STEEL, 10# GALVANIZED ANTI-CORROSION ANGLE STEEL LINE SPACING 150MM	1	SET	PPFG	COMPARED WITH NYLON ROPES OR ORDINARY STEEL PIPES ON THE MARKET, GALVANIZED THREADED STEEL CAN EFFECTIVELY PREVENT THE UNSATISFACTORY WATER DISCHARGE EFFECT CAUSED BY THE ENTANGLEMENT OF FILLERS UNDER UNINTERRUPTED AERATION.
5	DRAFT TUBE	STANDARD	1	SET	HLK	CS+COATED
6	MICROBUBBLE AERATOR	1. $\Phi 216$ MICROPOROUS AERATOR 2. SERVICE AREA 0.3-0.65 m^2 /PIECE 3. GAS SUPPLY RATE 2M ³ /H 4. OXYGEN UTILIZATION RATE 22-40% 5.MATERIAL: ABS+MEMBRANE EPDM	1	SET	LONGXI ANG	NOT LESS THAN 3 PER SQUARE METER
7	AERATOR SUPPORT	STANDARD	1	SET	PPFG	ASSEMBLED BY INTERLOCKING METHOD, THE MORTISE AND TENON STRUCTURE IS TIGHTLY CLAMPED WITHOUT ADHESIVE. ELIMINATE THE PHENOMENON OF AERATION DISC DETACHMENT.
8	BRIDGE PIECE	DN50	1	SET	PPFG	ABS
9	AERATING PIPES	$\Phi 63$	1	SET	PPFG	PVC
10	REFORCING RIB	10 # CHANNEL STEEL, DN50 STEEL PIPE REINFORCEMENT OF TANK CHANNEL STEEL,	1	SET	PPFG	CS+COATED
五	MBR TANK					



1	SLUDGE RETURN PUMP	1、WQ5-8-0.37 2、 $Q \geq 5\text{m}^3/\text{h}$ 3、 $H \geq 8\text{m}$ 4、 $N \geq 0.37\text{KW}$ 5、DN32	1	SET	XJ	CONTROL BASED ON SLUDGE VOLUME AND TIME
2	SLUDGE RETURN PIPES	STANDARD	1	SET	PPFG	CS+COATED
3	MBR MEMBRANE	1. PH TOLERANCE RANGE: 2-12 2. TEMPERATURE TOLERANCE RANGE: 5-45 °C 3. OPERATING MEMBRANE FLUX: 10-15L/ m ² /H 4. MEMBRANE MATERIAL: PVDF MODIFIED POLYMER MATERIAL/POLYESTER (PET) SUPPORTING MESH TUBE 5. SLUDGE CONCENTRATION: 4-13G/L 6. TOUGHENED AND LINED REINFORCED PVDF MATERIAL	35 m ²	M2	EUROPE	CURTAIN TYPE
4	MBR MEMBRANE SUPPORT	STANDARD	1	SET	PPFG	SS304
5	LIQUID LEVEL CONTROL	HDJY-M	1	SET	PPFG	COMPARED TO THE MORE COMMON FLOATING BALL LIQUID LEVEL IN THE MARKET, IT HAS HIGHER ACCURACY AND WILL NOT CAUSE JAMMING.
6	AERATING SYSTEM	STANDARD	1	SET	PPFG	PROTECTIVE FILM, IMPROVING THE SERVICE LIFE OF THE FILM
7	REFORCING RIB	10 # CHANNEL STEEL, DN50 STEEL PIPE REINFORCEMENT OF TANK CHANNEL STEEL,	1	SET	PPFG	CS+COATED
六	DISINFECTION BACKWASH TANK					
1	BACKWASH PUMP	1、WQ10-11-0.75 2、 $Q \geq 10\text{m}^3/\text{h}$ 3、 $H \geq 11\text{m}$ 4、 $N \geq 0.75\text{KW}$ 5、DN40	1	SET	XINJIE	AFTER THE WATER OUTLET PUMP STOPS WORKING, THE BACKWASH PUMP STARTS TO BACKWASH THE MEMBRANE.
2	LIQUID LEVEL METER	HDJY-Q	1	SET	PPFG	ASSEMBLY
3	BACKWASH PIPE	STANDARD	1	SET	PPFG	CS+COATED
4	DRAFT TUBE	STANDARD	1	SET	PPFG	CS+COATED
5	DISINFECTION TUBE	Φ20	1	SET	PPFG	PVC
6	WATER OUTLET	STANDARD	1	SET	PPFG	STANDARD
7	REFORCING RIB	10# CHANNEL STEEL, DN50 STEEL PIPE REINFORCEMENT OF TANK CHANNEL	1	SET	PPFG	CS+COATED



		STEEL,				
七	EQUIPMENT ROOM (3.8*2*2.4M)					
1	AIR BLOWER	65-3KW-5.43A, 44.1kp, 1.82m ³ /min	2	SET	SANNIU	1W+1S. UNDER NORMAL CIRCUMSTANCES, THE FAN OPERATES CONTINUOUSLY. TO EXTEND ITS SERVICE LIFE, TWO UNITS ARE USED ALTERNATELY AND AUTOMATICALLY SWITCH AFTER 6-8 HOURS OF OPERATION.
2	MOTOR	MATTCHING	2	SET	SANNIU	
3	SILENCER	MATTCHING	2	SET	SANNIU	
4	AIR FILTER	MATTCHING	2	SET	SANNIU	
5	ELASTIC JOINT	MATTCHING	2	SET	SANNIU	
6	SAFETY VALVE	MATTCHING	2	SET	SANNIU	
7	PRESSURE GAUGE	MATTCHING	2	SET	SANNIU	
8	SUCTION PUMP	PXZ15-30-1.5, DN40	2	SET	PUXUANTE	1W+1S. ACCORDING TO THE LIQUID LEVEL CONTROL SWITCH OF THE MEMBRANE REACTION TANK, IT OPERATES AUTOMATICALLY. WHEN THE LIQUID LEVEL IS HIGH, IT WORKS NORMALLY AND THE SEWAGE LIFT PUMP STOPS WORKING. WHEN THE LIQUID LEVEL IS LOW, IT STOPS RUNNING. UNDER NORMAL CIRCUMSTANCES, IT RUNS REGULARLY WITH 8 MINUTES ON AND 2 MINUTES OFF.
9	SOLENOID VALVE	ASSEMBLY	4	SET	HENGRONG	
10	VACUUM NEGATIVE PRESSURE GAUGE	STANDARD	1	SET	HLK	REAL TIME MONITORING OF MBR MEMBRANE USAGE
11	PLC MODUL	ASSEMBLY	1	SET	XJ	
12	PLC SCREEN	ASSEMBLY	1	SET	HUNTUN	



13	CONTROL DEVICE	INTELLIGENT 1.2-METER VERTICAL ELECTRICAL CONTROL CABINET COMPLETE SET OF THERMAL RELAY PROTECTORS	1	SET	PPFG	INTELLIGENT 1.2-METER VERTICAL ELECTRICAL CONTROL CABINET WITH AUTOMATIC ALARM. NOT ONLY CAN IT BE AUTOMATICALLY CONTROLLED, BUT IT CAN ALSO BE MANUALLY CONTROLLED. ADDITIONAL UPGRADES CAN ALSO BE MADE ACCORDING TO CUSTOMER REQUIREMENTS TO ACHIEVE REMOTE CONTROL.
14	ELECTRICAL COMPONENTS	ASSEMBLY	1	SET	CHINT	
15	CHEMICAL CLEANING DEVICE	100L	1	SET	PPFG	
16	METERING PUMP	120L/H	1	SET	ALIPU	
17	NACLO DOSING DEVICE	100L	1	SET	PPFG	MOC:PE
18	NACLO DOSING PUMP	JW15.77/4.2 (15.77L)	1	SET	AILIPU	
19	PHOSPHORUS REMOVAL AGENT DOSING DEVICE	200L	1	SET	PPFG	MOC:PE
20	PHOSPHORUS REMOVAL AGENT DOSING DEVICE MIXER	Mixing machine 0.37kw (Stirring rod + Stainless steel blade)	1	SET	NUODE	
21	PHOSPHORUS REMOVAL AGENT DOSING DEVICE METERING PUMP	JW15.77/4.2 (15.77L)	1	SET	AILIPU	
22	UV	Φ100*1300mm	1	SET	PPFG	
八	RO PLANT: BWRO-100TPD; DIMENSION: 5*1*2M					
九	OTHERS					
1	CABLES	STANDARD	1	SET	TOP BRAND	
2	PIPES & VALVES	MATCHING (INCLUDING IMPORT AND EXPORT FLANGES, WATER DISTRIBUTION BACKFLOW PIPES, BACKFLOW PIPES, SLUDGE PIPES, AIR PIPES, EXHAUST FLANGES, ETC.)	1	SET	TOP BRAND	
3	DISCHARGE PORT	MATCHING (INCLUDING IMPORT AND EXPORT PIPELINE VALVES, FAN CONNECTION PIPELINE VALVES {MACHINE ROOM AND EQUIPMENT}, RETURN PIPELINES, ETC.)	1	SET	TOP BRAND	
4	SERVICE LADDERS	STANDARD	1	SET	PPFG	CS+COATED
5	OTHERS	STANDARD	1	SET	PPFG	ALL NECESSARY PIPING AND FITTINGS FOR CONNECTING THE WATER INLET AND



						OUTLET OF THE DEVICE, AS WELL AS THE DISTANCE BETWEEN THE DEVICES WITHIN 4 METERS, ARE PROVIDED. (IF NOT ENOUGH, CUSTOMERS CAN PURCHASE ON THEIR OWN)
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QUOTATION

TOTAL PRICE: CIF LIBYA / EGYPT / MOROCCO PORT USD 84,000/-
DELIVERY TIME: 30 WORKING DAYS
PAYMENT: TT 50% UPFRONT, THE BALANCE PAY GOODS AT LOAD PORT OF DELIVERY
CONTAINER: 2*40HQ (SHIPPING)
Option 1: commissioning by factory engineer (including training \$5,000 (FREE if purchase of 4 units))
Option 2: 1 year spares including filters/membrane \$ 3,000 (FREE if purchase of 4 units)

Prepared by:

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