

BOUSTEAD SALCON WATER SOLUTIONS PTE LTD
 PROJECT: TANJUNG JATI B EXPANSION PROJECT UNIT 5&6 - AMMONIA REMOVAL SYSTEM
 P.O. NO.: 17956.65.2101
 DOC TITLE: INTIAL SPARE PART LIST

REV: 0
 DATE: 24-Jul-18
 DOC. NO.: GNB-G-LST-0006
 PROJECT DOC. NO.: TJB56-L3-OFF-C-GNB-G-LST-0006

S/N	Parts Name	Main Equipment	Tag No.	Vendor / Manufacturer Name	Part No. / Model No.	Delivery Lead Time (weeks)	Recommended q'ty for 2 years O&M		UNIT PRICE		TOTAL	REMARKS
							Q'ty	Unit	USD	USD		
1	V-Belt	Gravity Filter Backwash Blower A/B	00GNB62AN101 00GNB63AN101	NTK Industrial Sdn Bhd / Takeo	TBL 50 (TG085005)	8	1	UNIT	-	-	-	Qty given for 1 piece of equipment
2	Spare Parts kit include 1 x Diaphragm 1 x suction valve assembly 1 x discharge valve assembly 2 x valve balls 1 x connector kit	Caustic Feed Pump A/B For Neutralization Tank	00GNB66AP101 00GNB66AP102	ProMinent	0413-2/0713-2 PPE	8	1	SET	-	-	-	Qty given for 1 piece of equipment
3	Spare Parts kit include 1 x Diaphragm 1 x suction valve assembly 1 x discharge valve assembly 2 x valve balls 1 x connector kit	Caustic Feed Pump A/B For pH Adjustment Tank	00GNB68AP101 00GNB68AP102	ProMinent	SRPM110	8	1	SET	-	-	-	Qty given for 1 piece of equipment
4	Spare Parts kit include 1 x Diaphragm 1 x suction valve assembly 1 x discharge valve assembly 2 x valve balls 1 x connector kit	Acid Feed Pump A/B For Neutralization Tank	00GNB72AP101 00GNB72AP102	ProMinent	Spare Part Kit 1604-2 TTT	8	1	SET	-	-	-	Qty given for 1 piece of equipment
5	Spare Parts kit include 1 x Diaphragm 1 x suction valve assembly 1 x discharge valve assembly 2 x valve balls 1 x connector kit	Acid Feed Pump A/B For Breakpoint Chlorination Sump	00GNB74AP101 00GNB74AP102	ProMinent	Spare Part Kit 1604-2 TTT	8	1	SET	-	-	-	Qty given for 1 piece of equipment
6	Spare Parts kit include 1 x Diaphragm 1 x suction valve assembly 1 x discharge valve assembly 2 x valve balls 1 x elastomer sealing set 2 x ball seat discs 4 x composite seals	Acid Feed Pump A/B For Scrubber	00GNB76AP101 00GNB76AP102	ProMinent	Spare Part Kit Sigma 1, d.-br. FM 50 PVT	8	1	SET	-	-	-	Qty given for 1 piece of equipment
7	Spare Parts kit include 1 x Diaphragm 1 x suction valve assembly 1 x discharge valve assembly 2 x valve balls 1 x connector kit	Coagulant Feed Pump A/B	00GNB79AP101 00GNB79AP102	ProMinent	Spare Part Kit 0708-2/1008-2 PPE	8	1	SET	-	-	-	Qty given for 1 piece of equipment
8	Spare Parts kit include 1 x Diaphragm 1 x suction valve assembly 1 x discharge valve assembly 2 x valve balls 1 x connector kit	Organic Sulfide Feed Pump A/B	00GNB82AP101 00GNB82AP102	ProMinent	Spare Part Kit 0708-2/1008-2 PPE	8	1	SET	-	-	-	Qty given for 1 piece of equipment
9	Spare Parts kit include 1 x Diaphragm 1 x suction valve assembly 1 x discharge valve assembly 2 x valve balls 1 x connector kit	NaOCL Feed Pump A/B	00GNB85AP101 00GNB85AP102	ProMinent	Spare Part Kit 1005-2/1605-2 PVT	8	1	SET	-	-	-	Qty given for 1 piece of equipment
10	Spare Parts kit include 1 x Diaphragm 1 x suction valve assembly 1 x discharge valve assembly 2 x valve balls 1 x connector kit	SBS Feed Pump A/B	00GNB88AP101 00GNB88AP102	ProMinent	Spare Part Kit 1601-2 PPE	8	1	SET	-	-	-	Qty given for 1 piece of equipment

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							Q'ty	Unit	USD	USD		
11	Spare Parts kit include 1 x Diaphragm 1 x suction valve assembly 1 x discharge valve assembly 2 x valve balls 1 x connector kit	Polymer Feed Pump A/B	00GNB91AP101 00GNB91AP102	ProMinent	Spare Part Kit 0708-2/1008-2 PPE	8	1	SET	-	-	-	Qty given for 1 piece of equipment
12	O-ring O-ring	Slurry A/B	00GNB21AP101 00GNB22AP101	Netzsch	8015 / 516528	8	1	UNIT	-	-	-	Qty given for 1 piece of equipment
				Netzsch	8060 / 516555	8	4	UNIT	-	-	-	Qty given for 1 piece of equipment
13	Rigid Ball Bearings Kit	Lift Pump A/B	00GNB02AP101 00GNB03AP101	Affetti	Affetti - CFV-N 1.5x1x6	8	2	SET	-	-	-	Qty given for 1 piece of equipment
14	Rigid Ball Bearings Kit	Treated Effluent Lift Pump A/B	00GNB59AP101 00GNB60AP101	Affetti	Affetti - CFV-N 3x1.5x6	8	2	SET	-	-	-	Qty given for 1 piece of equipment
15	Mechanical Seal Bearing	Gravity Filter Backwash Pump A/B	00GNB31AP101 00GNB32AP101	Garbarino	GPA-65CWZ-11B	8	2	SET	-	-	-	Qty given for 1 piece of equipment
				Garbarino	GPA-65CWZ-11B	8	2	SET	-	-	-	Qty given for 1 piece of equipment
16	Mechanical Seal Bearing	Stripper Feed Pump A/B	00GNB35AP101 00GNB36AP101	Garbarino	GPA-32CWZ-4A	8	2	SET	-	-	-	Qty given for 1 piece of equipment
				Garbarino	GPA-32CWZ-4A	8	2	SET	-	-	-	Qty given for 1 piece of equipment
17	Guide Bushing with Fastener O-Ring Volute Casing	Caustic Unloading Pump	00GNB65AP101	Argal	T M R 1 6 . 1 5 P W R E X 1 Z E S 3 S P T M R 2	8	1	SET	-	-	-	
				Argal	T M R 1 6 . 1 5 P W R E X 1 Z E S 3 S P T M R 2	8	1	SET	-	-	-	
18	Guide Bushing with Fastener O-Ring Volute Casing	Acid Unloading Pump	00GNB71AP101	Argal	T M R 1 6 . 1 5 S G F V N 2 Z E S 3 S P T M R 2	8	1	SET	-	-	-	
				Argal	T M R 1 6 . 1 5 S G F V N 2 Z E S 3 S P T M R 2	8	1	SET	-	-	-	
19	Guide Bushing with Fastener O-Ring Volute Casing	Coagulant Unloading Pump	00GNB78AP101	Argal	T M R 1 6 . 1 5 P W R E X 1 Z E S 3 S P T M R 2	8	1	SET	-	-	-	
				Argal	T M R 1 6 . 1 5 P W R E X 1 Z E S 3 S P T M R 2	8	1	SET	-	-	-	
20	Guide Bushing with Fastener O-Ring Volute Casing	NaOCL Unloading Pump	00GNB84AP101	Argal	T M R 1 6 . 1 5 P G F V N 2 Z E S 3 K W 2.2 S P _ T M R 2	8	1	SET	-	-	-	
				Argal	T M R 1 6 . 1 5 P G F V N 2 Z E S 3 K W 2.2 S P _ T M R 2	8	1	SET	-	-	-	
21	Fan Spare Parts Kit	Stripper Fan A/B	00GNB46AN101 00GNB47AN101	CLOMAR	CD 710/M	14	1	SET	-	-	-	Qty given for 1 piece of equipment
22	Thermoresistance PT100 3 Wire Temperature Transmitter	Water Heater	00GNB38AH101	Masterwatt	172099	10	1	SET	-	-	-	Qty given for 1 piece of equipment
				Masterwatt	172099	12	1	SET	-	-	-	Qty given for 1 piece of equipment
23	Pressure Gauge	-	-	WIKA	Various	8	2	UNIT	-	-	-	
24	Pressure Switch	-	-	WIKA	Various	8	2	UNIT	-	-	-	
25	Indicating Lamp for Electrical Panel 230V White	-	-	YSL	Various	8	10	UNIT	-	-	-	
26	Indicating Lamp for Electrical Panel 230V Red	-	-	YSL	Various	8	10	UNIT	-	-	-	
27	Indicating Lamp for Electrical Panel 230V Green	-	-	YSL	Various	8	10	UNIT	-	-	-	
28	Indicating Lamp for Electrical Panel 230V Amber	-	-	YSL	Various	8	10	UNIT	-	-	-	
29	Terminal Block for Electrical Panel 2.5mm	-	-	YSL	Various	8	20	UNIT	-	-	-	
30	Terminal Block for Electrical Panel 4mm	-	-	YSL	Various	8	20	UNIT	-	-	-	
31	Relay for Electrical Panel - 2P	-	-	YSL	Various	8	10	UNIT	-	-	-	
32	Relay for Electrical Panel - 4P	-	-	YSL	Various	8	10	UNIT	-	-	-	
33	Gasket for Manhole	-	-	-	Various	8	20	UNIT	-	-	-	
34	Filter Nozzle for Gravity Filter	-	-	Wassertechnische	S 10	8	10	UNIT	-	-	-	
35	pH Sensor	-	-	HACH / Yokogawa	PC1R1A	8	2	UNIT	-	-	-	
36	Solenoid Valve	-	-	ASCO	G521A2B42SA00H6	8	6	UNIT	-	-	-	
37	Nut and Bolt	-	-	Chin Yuan	Various	8	1	SET	-	-	-	

NOTE:

1. Price of Initial Spar Parts are included in PO Baseprice as per PO Section 00400.6.1 and 00400.6.2

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 PROJECT: TANJUNG JATI B EXPANSION PROJECT UNIT 5&6 - AMMONIA REMOVAL SYSTEM
 P.O. NO.: 179956.652101
 DOC TITLE: RECOMMENDED STRATEGIC SPARE PART LIST

REV: 0
 DATE: 24-Jul-18
 DOC. NO.: GNB-G-LST-0007
 PROJECT DOC. NO.: TJB56-L3-OFF-C-GNB-G-LST-0007

SN	Parts Name	Main Equipment	Tag No.	Vendor / Manufacturer Name	Part No. / Model No.	Delivery Lead Time (weeks)	Recommended q'ty for 2 years O&M		UNIT PRICE		TOTAL	REMARKS
							Qty	Unit	USD	USD		
1	Gear	Gravity Filter Backwash Blower A/B	00GNB62AN101 00GNB63AN101	NTK Industrial Sdn Bhd / Takeo	TBL 50 (TG085001)	8	1	SET	960.00	960.00	Qty given for 1 piece of equipment	
	Bearing				TBL 50 (TG085002)	8	1	SET	640.00	640.00	Qty given for 1 piece of equipment	
	Rotor				TBL 50 (TG085003)	8	1	SET	2,940.00	2,940.00	Qty given for 1 piece of equipment	
	Oil seal				TBL 50 (TG085004)	8	1	SET	260.00	260.00	Qty given for 1 piece of equipment	
	V-Belt				TBL 50 (TG085005)	8	1	SET	200.00	200.00	Qty given for 1 piece of equipment	
2	Motor Bearing	Neutralization Tank Mixer	00GNB05AM101	NTK Industrial Sdn Bhd / N-Spindle	NS 15L2R10 (N3070)	8	1	SET	400.00	400.00		
	Gear Side Bearing				NS 15L2R10 (N3070)	8	1	SET	400.00	400.00		
	Gasket				NS 15L2R10 (N3070)	8	1	SET	400.00	400.00		
3	Motor Bearing	Coagulation Tank Mixer	00GNB06AM101	NTK Industrial Sdn Bhd / N-Spindle	NS 10L2R10 (N3071)	8	1	SET	400.00	400.00		
	Gear Side Bearing				NS 10L2R10 (N3071)	8	1	SET	400.00	400.00		
	Gasket				NS 10L2R10 (N3071)	8	1	SET	400.00	400.00		
4	Motor Bearing	Flocculation Tank Mixer	00GNB07AM101	NTK Industrial Sdn Bhd / N-Spindle	NS 129L1R10 (N3072)	8	1	SET	400.00	400.00		
	Gear Side Bearing				NS 129L1R10 (N3072)	8	1	SET	400.00	400.00		
	Gasket				NS 129L1R10 (N3072)	8	1	SET	400.00	400.00		
5	Motor Bearing	pH Adjustment Tank Mixer	00GNB28AM101	NTK Industrial Sdn Bhd / N-Spindle	NS 125L1R10 (N3073)	8	1	SET	600.00	600.00		
	Gear Side Bearing				NS 125L1R10 (N3073)	8	1	SET	600.00	600.00		
	Gasket				NS 125L1R10 (N3073)	8	1	SET	600.00	600.00		
6	Motor Bearing	Breakpoint Chlorination Sump Mixer	00GNB56AM101	NTK Industrial Sdn Bhd / N-Spindle	NS 219L1R10 (N3074)	8	1	SET	700.00	700.00		
	Gear Side Bearing				NS 219L1R10 (N3074)	8	1	SET	700.00	700.00		
	Gasket				NS 219L1R10 (N3074)	8	1	SET	700.00	700.00		
7	Motor Bearing	Organic Sulfide Storage Tank Mixer	00GNB81AM101	NTK Industrial Sdn Bhd / N-Spindle	NS 114L2S610 (N3075)	8	1	SET	500.00	500.00		
	Gear Side Bearing				NS 114L2S610 (N3075)	8	1	SET	500.00	500.00		
	Gasket				NS 114L2S610 (N3075)	8	1	SET	500.00	500.00		
8	Motor Bearing	SBS Storage Tank Mixer	00GNB87AM101	NTK Industrial Sdn Bhd / N-Spindle	NS 035L1S610 (N3076)	8	1	SET	300.00	300.00		
	Gear Side Bearing				NS 035L1S610 (N3076)	8	1	SET	300.00	300.00		
	Gasket				NS 035L1S610 (N3076)	8	1	SET	300.00	300.00		
9	Spare Parts kit include 1 x Diaphragm 1 x suction valve assembly 1 x discharge valve assembly 2 x valve balls 1 x connector kit	Caustic Feed Pump A/B For Neutralization Tank	00GNB66AP101 00GNB66AP102	ProMinent	0413-2/0713-2 PPE	8	1	SET	324.00	324.00	Qty given for 1 piece of equipment	
10	Spare Parts kit include 1 x Diaphragm 1 x suction valve assembly 1 x discharge valve assembly 2 x valve balls 1 x connector kit	Caustic Feed Pump A/B For pH Adjustment Tank	00GNB68AP101 00GNB68AP102	ProMinent	SRPW110	8	1	SET	324.00	324.00	Qty given for 1 piece of equipment	
11	Spare Parts kit include 1 x Diaphragm 1 x suction valve assembly 1 x discharge valve assembly 2 x valve balls 1 x connector kit	Acid Feed Pump A/B For Neutralization Tank	00GNB72AP101 00GNB72AP102	ProMinent	Spare Part Kit 1604-2 TTT	8	1	SET	1,188.00	1,188.00	Qty given for 1 piece of equipment	
12	Spare Parts kit include 1 x Diaphragm 1 x suction valve assembly 1 x discharge valve assembly 2 x valve balls 1 x connector kit	Acid Feed Pump A/B For Breakpoint Chlorination Sump	00GNB74AP101 00GNB74AP102	ProMinent	Spare Part Kit 1604-2 TTT	8	1	SET	1,188.00	1,188.00	Qty given for 1 piece of equipment	
13	Spare Parts kit include 1 x Diaphragm 1 x suction valve assembly 1 x discharge valve assembly 2 x valve balls 1 x elastomer sealing set 2 x ball seat discs 4 x composite seals	Acid Feed Pump A/B For Scrubber	00GNB76AP101 00GNB76AP102	ProMinent	Spare Part Kit Sigma 1, d-br. FM 50 PVT	8	1	SET	676.00	676.00	Qty given for 1 piece of equipment	
14	Spare Parts kit include 1 x Diaphragm 1 x suction valve assembly 1 x discharge valve assembly 2 x valve balls 1 x connector kit	Coagulant Feed Pump A/B	00GNB79AP101 00GNB79AP102	ProMinent	Spare Part Kit 0708-2/1008-2 PPE	8	1	SET	352.00	352.00	Qty given for 1 piece of equipment	
15	Spare Parts kit include 1 x Diaphragm 1 x suction valve assembly 1 x discharge valve assembly 2 x valve balls 1 x connector kit	Organic Sulfide Feed Pump A/B	00GNB82AP101 00GNB82AP102	ProMinent	Spare Part Kit 0708-2/1008-2 PPE	8	1	SET	352.00	352.00	Qty given for 1 piece of equipment	
16	Spare Parts kit include 1 x Diaphragm 1 x suction valve assembly 1 x discharge valve assembly 2 x valve balls 1 x connector kit	NaOCL Feed Pump A/B	00GNB85AP101 00GNB85AP102	ProMinent	Spare Part Kit 1005-2/1605-2 PVT	8	1	SET	318.00	318.00	Qty given for 1 piece of equipment	
17	Spare Parts kit include 1 x Diaphragm 1 x suction valve assembly 1 x discharge valve assembly 2 x valve balls 1 x connector kit	SBS Feed Pump A/B	00GNB88AP101 00GNB88AP102	ProMinent	Spare Part Kit 1601-2 PPE	8	1	SET	330.00	330.00	Qty given for 1 piece of equipment	

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 DOC TITLE: RECOMMENDED STRATEGIC SPARE PART LIST

REV: 0
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SN	Parts Name	Main Equipment	Tag No.	Vendor / Manufacturer Name	Part No. / Model No.	Delivery Lead Time (weeks)	Recommended q'Ty for 2 years Q&M		UNIT PRICE		TOTAL	REMARKS
							Qty	Unit	USD	USD		
18	Spare Parts kit include 1 x Diaphragm 1 x suction valve assembly 1 x discharge valve assembly 2 x valve balls 1 x connector kit	Polymer Feed Pump A/B	00GNB91AP101 00GNB91AP102	ProMinent	Spare Part Kit 0708-2/1008-2 PPE	8	1	SET	352.00	352.00	Qty given for 1 piece of equipment	
19	Mechanical Seal	Slurry Pump A/B	00GNB21AP101 00GNB22AP101	Netzsch	7010 / 889435	8	1	UNIT	2,342.00	2,342.00	Qty given for 1 piece of equipment	
	Stator			Netzsch	3005 / 5181317	8	1	UNIT	2,208.00	2,208.00	Qty given for 1 piece of equipment	
	O-Ring			Netzsch	8015 / 516528	8	1	UNIT	28.00	28.00	Qty given for 1 piece of equipment	
	O-Ring			Netzsch	8060 / 516555	8	4	UNIT	10.00	40.00	Qty given for 1 piece of equipment	
	Joint Bolt			Netzsch	5075 / 868665	8	2	UNIT	172.00	344.00	Qty given for 1 piece of equipment	
20	SM Pin Joint Seal	Lift Pump A/B	00GNB02AP101 00GNB03AP101	Netzsch	8235 / 877620	8	2	UNIT	344.00	688.00	Qty given for 1 piece of equipment	
	O'Ring Kit in EPDM and NBR			Affetti	Affetti - CFVN 1.5x1x6	8	2	SET	2,800.00	5,600.00	Qty given for 1 piece of equipment	
	Rotating Guide Bushing Kit			Affetti	Affetti - CFVN 1.5x1x6	8	2	SET	9,200.00	18,400.00	Qty given for 1 piece of equipment	
	Static Guide Bushing Kit			Affetti	Affetti - CFVN 1.5x1x6	8	2	SET	9,000.00	18,000.00	Qty given for 1 piece of equipment	
	Shaft Sleeve			Affetti	Affetti - CFVN 1.5x1x6	8	2	SET	2,600.00	5,200.00	Qty given for 1 piece of equipment	
21	Semi-Open Impeller Kit	Treatect Effluent Lift Pump A/B	00GNB59AP101 00GNB60AP101	Affetti	Affetti - CFVN 3x1 5x6	8	2	SET	4,000.00	8,000.00	Qty given for 1 piece of equipment	
	Rope Ball Bearings Kit			Affetti	Affetti - CFVN 3x1 5x6	8	2	SET	800.00	1,600.00	Qty given for 1 piece of equipment	
	O'Ring Kit in EPDM and NBR			Affetti	Affetti - CFVN 3x1 5x6	8	2	SET	2,200.00	4,400.00	Qty given for 1 piece of equipment	
	Rotating Guide Bushing Kit			Affetti	Affetti - CFVN 3x1 5x6	8	2	SET	5,200.00	10,400.00	Qty given for 1 piece of equipment	
	Static Guide Bushing Kit			Affetti	Affetti - CFVN 3x1 5x6	8	2	SET	5,000.00	10,000.00	Qty given for 1 piece of equipment	
22	Shaft Sleeve	Gravity Filter Backwash Pump A/B	00GNB31AP101 00GNB32AP101	Affetti	Affetti - CFVN 3x1 5x6	8	2	SET	2,200.00	4,400.00	Qty given for 1 piece of equipment	
	Semi-Open Impeller Kit			Affetti	Affetti - CFVN 3x1 5x6	8	2	SET	4,000.00	8,000.00	Qty given for 1 piece of equipment	
	Rope Ball Bearings Kit			Affetti	Affetti - CFVN 3x1 5x6	8	2	SET	800.00	1,600.00	Qty given for 1 piece of equipment	
	O'Rings and Gaskets			Garbarino	GPA-65CWZ-11B	8	2	SET	800.00	1,200.00	Qty given for 1 piece of equipment	
	Mechanical Seal			Garbarino	GPA-65CWZ-11B	8	2	SET	2,200.00	4,400.00	Qty given for 1 piece of equipment	
23	Wear Ring	Stripper Feed Pump A/B	00GNB35AP101 00GNB36AP101	Garbarino	GPA-32CWZ-4A	8	2	SET	2,600.00	5,200.00	Qty given for 1 piece of equipment	
	Shaft Sleeve			Garbarino	GPA-65CWZ-11B	8	2	SET	1,200.00	2,400.00	Qty given for 1 piece of equipment	
	Bearing			Garbarino	GPA-65CWZ-11B	8	2	SET	800.00	1,600.00	Qty given for 1 piece of equipment	
	O'Rings and Gaskets			Garbarino	GPA-32CWZ-4A	8	2	SET	600.00	1,200.00	Qty given for 1 piece of equipment	
	Mechanical Seal			Garbarino	GPA-32CWZ-4A	8	2	SET	2,200.00	4,400.00	Qty given for 1 piece of equipment	
24	Wear Ring	Caustic Unloading Pump	00GNB65AP101	Garbarino	GPA-32CWZ-4A	8	2	SET	2,600.00	5,200.00	Qty given for 1 piece of equipment	
	Shaft Sleeve			Garbarino	GPA-65CWZ-11B	8	2	SET	1,200.00	2,400.00	Qty given for 1 piece of equipment	
	Bearing			Garbarino	GPA-65CWZ-11B	8	2	SET	800.00	1,600.00	Qty given for 1 piece of equipment	
	O'Rings and Gaskets			Garbarino	GPA-32CWZ-4A	8	2	SET	600.00	1,200.00	Qty given for 1 piece of equipment	
	Mechanical Seal			Garbarino	GPA-32CWZ-4A	8	2	SET	2,200.00	4,400.00	Qty given for 1 piece of equipment	
25	Wear Ring	Acid Unloading Pump	00GNB71AP101	Garbarino	GPA-32CWZ-4A	8	2	SET	2,600.00	5,200.00	Qty given for 1 piece of equipment	
	Shaft Sleeve			Garbarino	GPA-65CWZ-11B	8	2	SET	1,200.00	2,400.00	Qty given for 1 piece of equipment	
	Bearing			Garbarino	GPA-65CWZ-11B	8	2	SET	800.00	1,600.00	Qty given for 1 piece of equipment	
	O'Rings and Gaskets			Garbarino	GPA-32CWZ-4A	8	2	SET	600.00	1,200.00	Qty given for 1 piece of equipment	
	Mechanical Seal			Garbarino	GPA-32CWZ-4A	8	2	SET	2,200.00	4,400.00	Qty given for 1 piece of equipment	
26	Wear Ring	Coagulant Unloading Pump	00GNB78AP101	Garbarino	GPA-32CWZ-4A	8	2	SET	2,600.00	5,200.00	Qty given for 1 piece of equipment	
	Shaft Sleeve			Garbarino	GPA-65CWZ-11B	8	2	SET	1,200.00	2,400.00	Qty given for 1 piece of equipment	
	Bearing			Garbarino	GPA-65CWZ-11B	8	2	SET	800.00	1,600.00	Qty given for 1 piece of equipment	
	O'Rings and Gaskets			Garbarino	GPA-32CWZ-4A	8	2	SET	600.00	1,200.00	Qty given for 1 piece of equipment	
	Mechanical Seal			Garbarino	GPA-32CWZ-4A	8	2	SET	2,200.00	4,400.00	Qty given for 1 piece of equipment	
27	Wear Ring	NaOCL Unloading Pump	00GNB84AP101	Argal	T M R 1.6 . 1.5 P GF V N2 Z ES3 KW 2.2	8	1	SET	800.00	800.00		
	Shaft Sleeve			Argal	T M R 1.6 . 1.5 P WR E X1 Z ES3 SP_TMR2	8	1	SET	600.00	600.00		
	Bearing			Argal	T M R 1.6 . 1.5 P WR E X1 Z ES3 SP_TMR2	8	1	SET	800.00	800.00		
	O-Ring Volute Casing			Argal	T M R 1.6 . 1.5 P GF V N2 Z ES3 KW 2.2	8	1	SET	1,000.00	1,000.00		
	Front Thrust Bearing			Argal	T M R 1.6 . 1.5 P GF V N2 Z ES3 KW 2.2	8	1	SET	400.00	400.00		
28	Front Thrust Bearing	Stripper Fan A/B	00GNB45AN101 00GNB47AN101	Argal	T M R 1.6 . 1.5 P WR E X1 Z ES3 SP_TMR2	8	1	SET	600.00	600.00		
	Impeller			Argal	T M R 1.6 . 1.5 P WR E X1 Z ES3 SP_TMR2	8	1	SET	600.00	600.00		
	Guide Bushing with Fastener			Argal	T M R 1.6 . 1.5 P WR E X1 Z ES3 SP_TMR2	8	1	SET	1,000.00	1,000.00		
	O-Ring Volute Casing			Argal	T M R 1.6 . 1.5 P WR E X1 Z ES3 SP_TMR2	8	1	SET	400.00	400.00		
	Front Thrust Bearing			Argal	T M R 1.6 . 1.5 P GF V N2 Z ES3 KW 2.2	8	1	SET	800.00	800.00		
29	Impeller	Scrubber Recirculation Pump A/B	00GNB43AP101 00GNB44AP101	Argal	T M R 1.6 . 1.5 P GF V N2 Z ES3 KW 2.2	8	1	SET	800.00	800.00		
	Guide Bushing with Fastener			Argal	T M R 1.6 . 1.5 P GF V N2 Z ES3 KW 2.2	8	1	SET	1,000.00	1,000.00		
	O-Ring Volute Casing			Argal	T M R 1.6 . 1.5 P GF V N2 Z ES3 KW 2.2	8	1	SET	400.00	400.00		
	Front Thrust Bearing			Argal	T M R 1.6 . 1.5 P GF V N2 Z ES3 KW 2.2	8	1	SET	800.00	800.00		
	Impeller			Argal	T M R 1.6 . 1.5 P WR E X1 Z ES3 SP_TMR2	8	1	SET	600.00	600.00		
30	Isolation Shell Flushing	Scrubber Drain Pump A/B	00GNB50AP101 00GNB51AP101	Argal	T M R 1.6 . 1.5 P GF V N2 Z ES3 KW 2.2	8	1	SET	1,000.00	1,000.00		
	Fluxed Shaft			Argal	T M R 1.6 . 1.5 P GF V N2 Z ES3 KW 2.2	8	1	SET	800.00	800.00		
	Suction Cover Flushing			Argal	T M R 1.6 . 1.5 P GF V N2 Z ES3 KW 2.2	8	1	SET	400.00	400.00		
	Isolation Shell Flushing			Argal	T M R 1.6 . 1.5 P GF V N2 Z ES3 KW 2.2	8	1	SET	1,200.00	1,200.00		
	Fluxed Shaft			Argal	T M R 1.6 . 1.5 P GF V N2 Z ES3 KW 2.2	8	1	SET	800.00	800.00		
31	Suction Cover Flushing	Water Heater	00GNB38AH101	Argal	T M R 1.6 . 1.5 P GF V N2 Z ES3 KW 2.2	8	1	SET	1,000.00	1,000.00		
	Thermoresistance PT100 3 Wire			Argal	T M R 1.6 . 1.5 P GF V N2 Z ES3 KW 2.2	8	1	SET	400.00	400.00		
	Temperature Transmitter			Argal	T M R 1.6 . 1.5 P GF V N2 Z ES3 KW 2.2	8	1	SET	1,200.00	1,200.00		
	Pressure Gauge			Argal	T M R 1.6 . 1.5 P GF V N2 Z ES3 KW 2.2	8	1	SET	3,000.00	3,000.00		
	pH Sensor			Argal	T M R 1.6 . 1.5 P GF V N2 Z ES3 KW 2.2	8	1	SET	800.00	800.00		
32	pH Sensor	Stripper and Scrubber Packing	-	Wika	Wika	8	2	UNIT	300.00	600.00		
	Pressure Gauge			Wika	Wika	8	2	UNIT	300.00	600.00		
	pH Sensor			HACH / Yokogawa	PC1RTA	8	1	UNIT	1,200.00	1,200.00		
	Solenoid Valve			ASCO	G521A2B42SA00H6	8	2	UNIT	340.00	680.00		
	Flexible Joint			Various	Various	8	1	UNIT	1,700.00	1,700.00		
33	Flexible Joint	Filter Nozzle for Gravity Filter	-	Sinartex / BAUM	Sinartex	8	1	UNIT	1,700.00	1,700.00		
	Filter Nozzle for Gravity Filter			Wasserrechtliche	S10	8	1	SET	2,300.00	2,300.00		
	Stripper and Scrubber Packing			Ecoplast SRL	Eco-Form Diam 50mm	8	1	SET	38,200.00	38,200.00		
	Indicating Lamp for Electrical Panel			Various	Various	8	1	SET	11,200.00	11,200.00		

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