

No : PF000282

Tanggal : 10 Februari 2026

Dari : Engineering

SURAT PERMINTAAN BARANG

No	Kode Barang	Nama Barang, Tipe, Spesifikasi	Lokasi / User	Riwayat Pembelian				Jumlah Permintaan	Satuan	Target Date	Kategori		Keterangan
				Tanggal	Jumlah	No SPB	Supplier						
1	PMSN00075	Softener Discharge Hand Valve Φ38	Unit 8B	-	-	-	-	1	Pcs	26-03-26	1. Inventaris		Sesuai Dengan Process & Utility Distribution Unit 8B U0.3 Purified Water System & Distribution System (10 Ton) Project Aktivasi Unit 8 (IMPORT)
2	IMO16007	Softener Pressure Gauge Radial 0 - 0.6 Mpa	Unit 8B	-	-	-	-	1	Pcs	26-03-26	2. Spareparts	v	
3	IMO16234	1st High Pressure Pump Pressure Switch Quick Connect	Unit 8B	-	-	-	-	1	Pcs	26-03-26	3. Consumable		
4	IMO16007	1st High Pressure Pump Outlet Pressure Gauge 0 - 2.5 Mpa	Unit 8B	-	-	-	-	1	Pcs	26-03-26	4. Jasa		
5	IMO16007	1st Concentrated Water Pressure Gauge 0 - 2.5 Mpa	Unit 8B	-	-	-	-	1	Pcs	26-03-26	5. Project		
6	IMO16007	1st Pure Water Pressure Gauge 0 - 0.6 Mpa	Unit 8B	-	-	-	-	1	Pcs	26-03-26			
7	IMO18020	RO Membrane 12 pcs of gasket with film head 8080	Unit 8B	-	-	-	-	8	Pcs	26-03-26			
8	IMO13063	EDI IP-LXM45Z-4	Unit 8B	-	-	-	-	2	Unit	26-03-26			
9	IMO16007	EDI Concentrated Water & Pure Water Pressure Gauge Radial 0 - 0.6 Mpa	Unit 8B	-	-	-	-	4	Pcs	26-03-26			
10	ATSP00935	EDI Concentrated Water/Pure Water Inlet and Outlet Connection Port	Unit 8B	-	-	-	-	2	Sets	26-03-26			
11	IMO14001	EDI Concentrated Water Pressure Gauge Install quick-connect tee	Unit 8B	-	-	-	-	2	Pcs	26-03-26			
12	IMO16007	Distribution Heat Exchanger Process Steam Pressure Gauge Threaded Connection : 0-0.6 Mpa	Unit 8B	-	-	-	-	1	Pcs	26-03-26			
13	IMO16007	Pure Water Distribution Outlet Pressure Gauge Radial Connection : 0 - 0.6 Mpa	Unit 8B	-	-	-	-	1	Pcs	26-03-26			
14	IMO16007	Pure Water Distribution Return Pressure Gauge Axial Connection : 0 - 0.6 Mpa	Unit 8B	-	-	-	-	1	Pcs	26-03-26			
15	IMO19073	1st Pure Water Conductivity Probe 8221 Electrode Parameter 0.1	Unit 8B	-	-	-	-	1	Pcs	26-03-26			
16	IMO06002	Pretreatment Quartz Sand, Cation Resin, Activated Carbon	Unit 8B	-	-	-	-	1	Batch	26-03-26			

No	Kode Barang	Nama Barang, Tipe, Spesifikasi	Lokasi / User	Riwayat Pembelian				Jumlah Permintaan	Satuan	Target Date	Kategori		Keterangan
				Tanggal	Jumlah	No SPB	Supplier						
17	IMO06074	Raw Water Pump Inlet and Outlet Flanges and Bolts Φ38	Unit 8B	-	-	-	-	2	Pcs	26-03-26			Sesuai Dengan Process & Utility Distribution Unit 8B U0.4 Water For Injection System & Distribution System Project Aktivasi Unit 8 (IMPORT)
18	IMO16007	Raw Water Pressure Gauge and Temperature Gauge Axial 0 - 0.6 Mpa	Unit 8B	-	-	-	-	1	Pcs	26-03-26			
19	PMSN00075	Discharge Valve at The Bottom of The 2nd to 6th Effect Evaporators Φ25	Unit 8B	-	-	-	-	5	Pcs	26-03-26			
20	ATSP00936	Discharge Connection Pipes at The Bottom of The 1st, 3rd, and 4th Effect Evaporators	Unit 8B	-	-	-	-	1	Set	26-03-26			
21	PMSN00075	Main Unit Sampling Valve of The Water Distiller Φ25	Unit 8B	-	-	-	-	1	Pcs	26-03-26			
22	PMSN00075	Industrial Steam Automatic Regulating Valve Control Head GEMU 1436	Unit 8B	-	-	-	-	1	Pcs	26-03-26			
23	ATSP00936	Non-condensable Gas Discharge Pipe of The Upper Condenser	Unit 8B	-	-	-	-	1	Sets	26-03-26			
24	IMO16007	WFI Distribution Industrial Steam Pressure Gauge Threaded Connection : 0-0.6 Mpa	Unit 8B	-	-	-	-	1	Pcs	26-03-26			
25	IMO16007	WFI Distribution Outlet and Return Water Pressure Gauge Axial 0 - 0.6 Mpa	Unit 8B	-	-	-	-	2	Pcs	26-03-26			Sesuai Dengan Process & Utility Distribution Unit 8B U0.5 Pure Steam Generator & Distribution System Project Aktivasi Unit 8 (IMPORT)
26	ATSP00936	Pure Water U-bend to Raw Water Pump Pipeline Φ25	Unit 8B	-	-	-	-	1	Set	26-03-26			
27	ATSP00936	Raw Water Pump to Manual Diaphragm Valve Pipeline Φ25	Unit 8B	-	-	-	-	1	Pcs	26-03-26			
28	PMSN00075	Raw Water Manual Diaphragm Valve Φ25	Unit 8B	-	-	-	-	1	Pcs	26-03-26			
29	PMSN00075	Recooler Sampling Valve Chuck Φ15	Unit 8B	-	-	-	-	1	Pcs	26-03-26			
30	IMO16007	Raw Water Inlet Pressure Gauge Axial 0 - 0.6 Mpa	Unit 8B	-	-	-	-	1	Pcs	26-03-26			
31	PMSN00075	Industrial Steam Automatic Regulating Valve Control Head GEMU 1436	Unit 8B	-	-	-	-	1	Pcs	26-03-26			
32	IMO02116	Industrial Steam Condensate Discharge Manual Ball Valve Partial Pipelines Φ38	Unit 8B	-	-	-	-	1	Pcs	26-03-26			
33	IMO02116	Evaporator Bottom Bypass Discharge Manual Ball Valve Φ25	Unit 8B	-	-	-	-	1	Pcs	26-03-26			
34	IMO16062	PLC CPU SR20	Unit 8B	-	-	-	-	1	Unit	26-03-26			
35	IMO16007	Pressure Gauge Radial 0 - 0.6 Mpa	Unit 8B	-	-	-	-	5	Pcs	26-03-26			

No	Kode Barang	Nama Barang, Tipe, Spesifikasi	Lokasi / User	Riwayat Pembelian				Jumlah Permintaan	Satuan	Target Date	Kategori		Keterangan
				Tanggal	Jumlah	No SPB	Supplier						
36	IMO16007	Pressure Gauge Axial 0 - 0.6 Mpa	Unit 8B	-	-	-	-	5	Pcs	26-03-26			Sesuai Dengan Process & Utility Distribution Unit 8B U0.3, U0.4 & U0.5 Project Aktivasi Unit 8 (IMPORT)
37	IMO02116	Manual Ball Valve Φ25	Unit 8B	-	-	-	-	5	Pcs	26-03-26			
38	PMSN00075	Industrial Steam Regulating Valve Automatic Control Head GEMU 1436	Unit 8B	-	-	-	-	1	Pcs	26-03-26			

PERMINTAAN SPAREPART IMPORT WATER TREATMENT SYSTEM UNTUK PROJECT AKTIVASI UNIT 8

Situasi :

Sistem PW, WFI, dan PSG di Unit 8 telah terinstal secara fisik namun dalam status idle (tidak aktif).

Sistem tidak dapat dioperasikan secara normal karena adanya kekosongan komponen kritis (seperti filter, membran, sensor, instrumen alat ukur, controller, dll).

Dengan kondisi ini mengakibatkan Water Treatment System belum bisa memproduksi air bahan baku mutu yang dibutuhkan untuk proses Produksi Unit 8.

Target :

Menghasilkan produk air PW, WFI, dan Pure Steam yang stabil sesuai volume kebutuhan lini produksi Unit 8, serta memenuhi kriteria minimum validasi agar produk yang dihasilkan memiliki izin edar/layak konsumsi secara regulasi.

Proposal :

Segera melakukan pengadaan komponen yang diperlukan untuk Water Treatment System sesuai dengan list yang telah diidentifikasi Teknisi Highfine.

Tanda tangan Pemohon (nama jelas)

Ajeng Ayu D

M. Ardhany Rafi

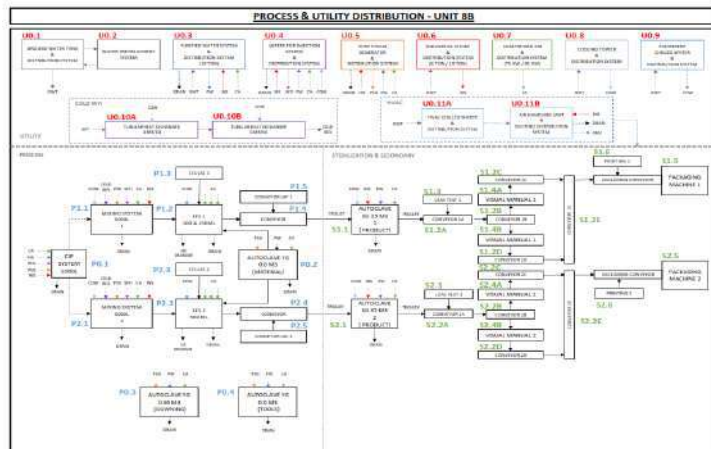
Tanda Tangan Mengetahui (nama jelas)

Firman Ardi Busono

Tanda Tangan Menyetujui (nama jelas)

Hermawan Widyaprasetya

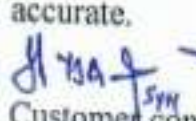
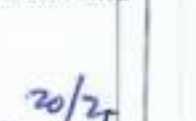
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City
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客户服务报告

Customer Service Report

客户名称 Customer Name	MERSIFARMA	设备型号 Equipment Model		系列号 Serial Number	
地址 Address	印尼				
联系人 Contact			手机 Mobile phone		
服务类型 Service type: ☐ 巡检 Routine inspection ☐ 报修 Report for repair ☐ 其他 Others			服务状态 Service status: ☐ 保内 Under Warranty ☐ 保外 Out of Warranty ☐ 其他 Others		
到达时间 Arrived time: 年 Year 月 Month 日 Date 时 Hour 分 Minute			离开时间 Leave time: 年 Year 月 Month 日 Date 时 Hour 分 Minute		
故障情况记录 Fault condition record:					
服务情况记录 Service situation record: 1、预算统计八区纯水设备、蒸馏水机、纯蒸汽、配液设备缺少配件、设计配液 PID 图。 2、6 区 2 楼纯水设备修改软化器再生程序。6 区设备运行正常 3、统计七区水处理、配液设备缺少配件。 4、各运行的蒸馏水机、纯蒸汽、纯水设备增加触摸屏报警历史数据程序。并查看设备运行情况正常。 5、六区配液维护维修，程序优化。测试 6、测试所有拆卸的触摸屏是否完好。					
维修工程师签字 Signature of the maintenance engineer:  日期 Date: 2025.12.21					
零部件更换记录 Component replacement record					
零部件名称 Component part name	型号 Model	数量 Qty	原序列号 Original serial number	更换后序列号 Serial number after replacement	
维修后系统是否正常工作: ☐ 是 ☐ 否 Whether the system works normally after maintenance: ☐ Yes ☐ No					
存在其他问题: Other problems exist:			你对本次维修服务的满意度: Your satisfaction with this maintenance service: ☐ 非常满意 ☐ 满意 ☐ 一般 ☐ 不满意 ☐ Very satisfied ☒ Satisfied ☐ Normal ☐ Not satisfied 客户意见 Customer comments: ★服务报告书上所载之内容正确无误 The contents contained in the service report are correct and accurate.    Customer confirmation 客户确认:  Mobile phone 手机:  Date 日期: 20/21/12		

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客户服务报告
Customer Service Report

客户名称 Customer Name	MERSIFARMA	设备型号 Equipment Model		系列号 Serial Number	
地址 Address	印尼				
联系人 Contact			手机 Mobile phone		
服务类型 Service type: ☐ 巡检 Routine inspection ☐ 报修 Report for repair ☐ 其他 Others			服务状态 Service status: ☐ 保内 Under Warranty ☐ 保外 Out of Warranty ☐ 其他 Others		
到达时间 Arrived time: 25 年 Year 12 月 Month 6 日 Date 时 Hour 分 Minute			离开时间 Leave time: 25 年 Year 12 月 Month 4 日 Date 时 Hour 分 Minute		
故障情况记录 Fault condition record:					
服务情况记录 Service situation record: 1. 预算统计八区纯水设备、蒸馏水机、纯蒸汽、配液设备缺少配件、设计配液 PID 图。 2. 6 区 2 楼纯水设备修改软化器再生程序。6 区设备运行正常 3. 统计七区水处理、配液设备缺少配件。 4. 各运行的蒸馏水机、纯蒸汽、纯水设备增加触摸屏报警历史数据程序。并查看设备运行情况正常。 5. 六区配液维护维修，程序优化。测试 6. 测试所有拆卸的触摸屏是否完好。 维修工程师签字 Signature of the maintenance engineer: 李强 日期 Date: 2025.12.21					
零部件更换记录 Component replacement record					
零部件名称 Component part name	型号 Model	数量 Qty	原序列号 Original serial number	更换后序列号 Serial number after replacement	
维修后系统是否正常工作: ☐ 是 ☐ 否 Whether the system works normally after maintenance: ☐ Yes ☐ No 存在其他问题: Other problems exist:			你对本次维修服务的满意度: Your satisfaction with this maintenance service: ☐ 非常满意 ☐ 满意 ☐ 一般 ☐ 不满意 ☐ Very satisfied ☐ Satisfied ☐ Normal ☐ Not satisfied 客户意见 Customer comments: ★服务报告书上所载之内容正确无误 The contents contained in the service report are correct and accurate. Customer confirmation 客户确认: 李强 日期: 2025/12/21 Mobile phone 手机:		

7区纯水设备 Zone 7 PW equipment

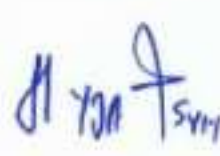
序号 No.	名称 Name	规格及型号 Specification and Model	数量 Qty.	制造商 Manufacturer	单价/美元 Unit price (USD)	总价/美元 Total price (USD)
1	原水箱液位传感器 Raw water tank level sensor	0-30Kpa/M20*1.5 (4-20mA) 接口: 丝口 材质: 304 耐温100°C 0-30Kpa/M20*1.5 (4-20mA) Connection: Threaded mouth Material: 304 Temperature resistance of 100 °C	1只 1piece	上海苏通 Shanghai Sutong		
2	原水泵 Raw water pump	CR20-5 Q=22T/h H=50m P=5.5KW 材质: 304 法兰连接 CR20-5 Q=22T/h H=50m P=5.5KW Material: 304 Flange connection	1只 1piece	格兰富 Grundfos		
3	原水压力传感器 Raw water pressure sensor	0-0.6Mpa/M20*1.5 (4-20mA) 接口: 丝口 材质: 304 耐温100°C 0-0.6Mpa/M20*1.5 (4-20mA) Connection: Threaded mouth Material: 304 Temperature resistance of 100 °C	1只 1piece	上海苏通 Shanghai Sutong		
4	板式换热器 Plate heat exchanger	3平方 材质: 304 3 square meters Material: 304	1只 1piece	南通海发 HIGHFINE		
5	原水泵进水手动角座阀 Raw water pump inlet manual angle seat valve		1只 1piece			
6	原水箱排液阀 Raw water tank drain valve	φ38 接口: 快装 材质: 304 φ38 Connection: clamp type Material: 304	1只 1piece	FUOCS		
7	石英砂过滤器压力表 Quartz sand filter pressure gauge	0-0.6Mpa/φ60 接口: 快装 材质: 316L 径向隔膜 0-0.6 Mpa / φ60 Connection type: clamp type Material: 316L Diaphragm type: Axial	1只 1piece	上海致延 Shanghai Zhiyan		
8	软化器进水压力表 Softener inlet pressure gauge	0-0.6Mpa/φ60 接口: 快装 材质: 316L 径向隔膜 0-0.6 Mpa / φ60 Connection type: clamp type Material: 316L Diaphragm type: Radial	1只 1piece	上海致延 Shanghai Zhiyan		
9	1号软化器压力表 No. 1 softener pressure gauge	0-0.6Mpa/φ60 接口: 快装 材质: 316L 径向隔膜 0-0.6 Mpa / φ60 Connection type: clamp type Material: 316L Diaphragm type: Radial	1只 1piece	上海致延 Shanghai Zhiyan		

CHAT
Sutong
Grundfos
Shanghai Zhiyan
HIGHFINE
FUOCS
Shanghai Zhiyan

10	2号软化器压力表 No. 2 softener pressure gauge	0-0.6Mpa/φ60 接口：快装 材质：316L 径向隔膜 0-0.6 Mpa / φ60 Connection type: clamp type Material: 316L Diaphragm type: Radial	1只 1piece	上海致延 Shanghai Zhiyan		
11	活性炭过滤器 Activated carbon filter	耐高温衬胶 Heat-resistant rubber lining	1只 1piece	南通海发 HIGHFINE		
12	活性炭压力表 Activated carbon pressure gauge	0-0.6Mpa/φ60 接口：快装 材质：316L 轴向隔膜 0-0.6 Mpa / φ60 Connection type: clamp type Material: 316L Diaphragm type: Axial	1只 1piece	上海致延 Shanghai Zhiyan		
13	精密过滤器进水压力表 Precision Filter inlet pressure gauge	0-0.6Mpa/φ60 接口：快装 材质：316L 径向隔膜 0-0.6 Mpa / φ60 Connection type: clamp type Material: 316L Diaphragm type: Radial	1只 1piece	上海致延 Shanghai Zhiyan		
14	精密过滤器出水压力表 Precision filter outlet pressure gauge	0-0.6Mpa/φ60 接口：快装 材质：316L 径向隔膜 0-0.6 Mpa / φ60 Connection type: clamp type Material: 316L Diaphragm type: Radial	1只 1piece	上海致延 Shanghai Zhiyan		
15	一级高压泵进水压力开关 Primary high-pressure pump inlet pressure switch	JC203	1只 1piece	韩国3S Korea 3S		
16	一级高压泵 Primary high-pressure pump	CR20-14 Q=15T/h H=190m P=15KW 材质：304 法兰连接 CR20-14 Q=15T/h H=190m P=15KW Material: 304 Flange connection	1只 1piece	格兰富 Grundfos		
17	一级RO进水压力表 1RO inlet pressure gauge		1只 1piece			
18	一级浓水压力表 Primary concentrated water pressure gauge	0-2.5Mpa/φ60 接口：快装 材质：316L 轴向隔膜 0-2.5Mpa/φ60 Connection type: clamp type Material: 316L Diaphragm type: Axial	1只 1piece	上海致延 Shanghai Zhiyan		
19	一级纯水压力表 Primary purified water pressure gauge	0-0.6Mpa/φ60 接口：快装 材质：316L 轴向隔膜 0-0.6Mpa/φ60 Connection type: clamp type Material: 316L Diaphragm type: Axial	1只 1piece	上海致延 Shanghai Zhiyan		
20	一级电导率探头 Primary conductivity probe		1只 1piece			
21	EDI电导率探头 EDI conductivity probe		1只 1piece			
22	一级RO膜 1RO membrane	CPA3, 8"	12支 12pieces	美国海德能 HYDRANAUTICS		

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23	EDI	IP-LXM45Z	2台 2units	IONPURE		
24	1号EDI浓水手动隔膜阀 No. 1 EDI concentrate manual diaphragm valve	DN25 接口：快装 材质：316L DN25 Connection type: clamp type Material: 316L	1只 1piece	FOUCS		
25	2号EDI浓水手动隔膜阀 No. 2 EDI concentrate manual diaphragm valve	DN25 接口：快装 材质：316L DN25 Connection type: clamp type Material: 316L	1只 1piece	FOUCS		
26	1号EDI纯水手动隔膜阀 No. 1 EDI purified water manual diaphragm valve	DN40 接口：快装 材质：316L DN40 Connection type: clamp type Material: 316L	1只 1piece	FOUCS		
27	2号EDI纯水手动隔膜阀 No. 2 EDI purified water manual diaphragm valve	DN40 接口：快装 材质：316L DN40 Connection type: clamp type Material: 316L	1只 1piece	FOUCS		
28	1号EDI浓水压力表 No. 1 EDI concentrate pressure gauge	0-0.6Mpa/φ60 接口：快装 材质：316L 径向隔膜 0-0.6 Mpa / φ60 Connection type: clamp type Material: 316L Diaphragm type: Radial	1只 1piece	上海致延 Shanghai Zhiyan		
29	2号EDI浓水压力表 No. 2 EDI concentrate pressure gauge	0-0.6Mpa/φ60 接口：快装 材质：316L 径向隔膜 0-0.6 Mpa / φ60 Connection type: clamp type Material: 316L Diaphragm type: Radial	1只 1piece	上海致延 Shanghai Zhiyan		
30	1号EDI纯水压力表 No. 1 EDI purified water pressure gauge	0-0.6Mpa/φ60 接口：快装 材质：316L 径向隔膜 0-0.6 Mpa / φ60 Connection type: clamp type Material: 316L Diaphragm type: Radial	1只 1piece	上海致延 Shanghai Zhiyan		







31	2号EDI纯水压力表 No. 2 EDI purified water pressure gauge	0-0.6Mpa/φ60 接口：快装 材质：316L 径向隔膜 0-0.6 Mpa / φ60 Connection type: clamp type Material: 316L Diaphragm type: Radial	1只 1piece	上海致延 Shanghai Zhiyan		
32	EDI电导率探头 EDI conductivity probe		1只 1piece			
33	EDI纯水不合格回流阀 EDI pure water non-conforming return valve	φ51*1.5 接口：焊接 材质：316L 常闭 φ51*1.5 Connection: welding Material: 316L Normally closed	1只 1piece	FOUCS		
34	纯水箱进水气动隔膜阀 Pure water tank inlet pneumatic diaphragm valve	φ51*1.5 接口：焊接 材质：316L 常闭 φ51*1.5 Connection: welding Material: 316L Normally closed	1只 1piece	FOUCS		
35	分配回水合格气动隔膜阀 Distribution return water qualified pneumatic diaphragm valve	φ38*1.5 接口：焊接 材质：316L 常闭 φ38*1.5 Connection: welding Material: 316L Normally closed	1只 1piece	FOUCS		
36	分配回水不合格气动隔膜阀 Distribution return water non-conforming pneumatic diaphragm valve	φ38*1.5 接口：焊接 材质：316L 常闭 φ38*1.5 Connection: welding Material: 316L Normally closed	1只 1piece	FOUCS		
37	分配出水压力表 Distribution outlet pressure gauge		1只 1piece			
38	分配回水压力表 Distribution return water pressure gauge		1只 1piece			
39	分配换热器工业蒸汽压力表 Distribution heat exchanger industrial steam pressure gauge	0-0.6Mpa/φ90 M20*1.5 接口：丝口 材质：304 径向 0-0.6Mpa/φ90 M20*1.5 Connection: Threaded mouth Material: 304 Radial	1只 1piece	上海致延 Shanghai Zhiyan		
40	分配换热器疏水阀 Distribution heat exchanger steam trap	DN25 接口：丝口 材质：碳钢 DN25 Connection: threaded mouth Material: carbon steel	1只 1piece	上海 Shanghai		
41	开关电源 Switching power supply	24V	1只 1piece	明纬 Meanwell		
42	EDI电源模块 EDI power supply module		1只 1piece	南通海发 HIGHFINE		
43	中间继电器 Intermediate relay		3组 3sets			
44	原水泵变频器 Raw water pump variable frequency drive		1只 1piece	法国施耐德 France Schneider		

7区纯蒸汽发生器 Zone 7 Pure Steam Generator

序号 No.	名称 Name	规格及型号 Specification and Model	数量 Qty.	制造商 Manufacturer	单价/美元 Unit price (USD)	总价/美元 Total price (USD)
1	工业蒸汽自动调节阀的控制头 Industrial steam automatic regulating valve actuator		1只 1piece			
2	蒸发器底部排放气动角坐阀 Pneumatic angle seat valve at evaporator bottom discharge	DN20 接口：快装 材质：316L Connection: clamp type Material: 316L	1只 1piece	FOUCS		
3	蒸发器底部排放旁通手动球阀 Manual ball valve for evaporator bottom discharge bypass	φ25 接口：快装 材质：316L Connection: clamp type Material: 316L	1只 1piece	FOUCS		
4	原料水压力表 Raw water pressure gauge	0-0.6Mpa/φ60 接口：隔膜式 材质：316L Connection: diaphragm type Material: 316L	1只 1piece	上海致远 Shanghai Zhiyan		
5	原料水进水手动隔膜阀 Raw water inlet manual diaphragm valve	DN20 接口：快装 材质：316L Connection: clamp type Material: 316L	1只 1piece	FOUCS		
6	原料水进水气动角坐阀 Raw water inlet pneumatic angle seat valve	DN20 接口：快装 材质：316L Connection: clamp type Material: 316L	1只 1piece	FOUCS		
7	原料水单向阀 Raw water check valve	φ25 接口：快装 材质：316L Connection: clamp type Material: 316L	1只 1piece	FOUCS		
8	纯蒸汽取样阀 Pure steam sampling valve	DN8 一端卡盘一端焊接 接口：快装 材质：316L φ25.4卡盘 DN8, one end chuck fitting, one end welded Connection: clamp type Material: 316L φ25.4 chuck	1只 1piece	FOUCS		
9	纯蒸汽电导率探头 Pure steam conductivity probe		1只 1piece			
10	工业蒸汽冷凝水排放手动球阀 Industrial steam condensate discharge manual ball valve	φ25 材质 Material: 316L	1只 1piece	FOUCS		
11	预热器壳层冷凝水排放手动球阀 Preheater shell-side condensate discharge manual ball valve	φ25 材质 Material: 316L	1只 1piece	FOUCS		
12	纯蒸汽取样气动角坐阀 Pure steam sampling pneumatic angle seat valve	DN15 接口：快装 材质：316L Connection: clamp type Material: 316L	1只 1piece	FOUCS		
13	电导率表头 Conductivity meter head		1只 1piece			
14	S7-200PLC	CPUR30	1只 1piece	西门子 Siemens		
15	开关电源 Switching power supply	24V	1只 1piece	台湾明纬 Meanwell		
16	纯蒸汽安全阀 Pure steam safety valve	DN32 材质：304 起跳压力0.55Mpa Material: 304 Jump pressure 0.55Mpa	1只 1piece	上海 Shanghai		

7区蒸馏水机

Zone 7 Water Distiller

序号 No.	名称 Name	规格及型号 Specification and Model	数量 Qty.	制造商 Manufacturer	单价/美元 Unit price (USD)	总价/美元 Total price (USD)
1	1号不凝气排气气动角座阀 No.1 non-condensable gas vent pneumatic angle seat valve		1只 1piece			
2	原料水泵进出口法兰 Raw water pump inlet and outlet flange	DN40 Φ145*14 材质: 316L	1只 1piece			
3	原料水压力表 Raw water pressure gauge	0-1.0Mpa/Φ80 接口: 快装 材质: 316L 轴向隔膜 Connection type: clamp type Material: 316L Diaphragm type: Axial	1只 1piece	上海致远 Shanghai Zhiyuan		
4	原料水温度表 Raw water temperature gauge	0-200℃/Φ80 杆长60*90 接口: 快装 材质: 316L 轴向 0-210℃ / Φ80, rod length 60*90 Connection: clamp type Material: 316L Axial	1只 1piece	DEJGEN		
5	1号不凝气排气气动角座阀 No.1 non-condensable gas vent pneumatic angle seat valve	DN20 接口: 快装 材质: 316L Connection: clamp type Material: 316L	1只 1piece	FOUCS		
6	2号不凝气排气气动角座阀 No.2 non-condensable gas vent pneumatic angle seat valve	DN20 接口: 快装 材质: 316L Connection: clamp type Material: 316L	1只 1piece	FOUCS		
7	二效蒸发器中段不凝气排气 气动角座阀 Second-effect evaporator middle section non-condensable gas vent pneumatic angle seat valve	DN20 接口: 快装 材质: 316L Connection: clamp type Material: 316L	1只 1piece	FOUCS		
8	三效蒸发器中段不凝气排气 气动角座阀 Third-effect evaporator middle section non-condensable gas vent pneumatic angle seat valve	DN20 接口: 快装 材质: 316L Connection: clamp type Material: 316L	1只 1piece	FOUCS		
9	四效蒸发器中段不凝气排气 气动角座阀 Fourth-effect evaporator middle section non-condensable gas vent pneumatic angle seat valve	DN20 接口: 快装 材质: 316L Connection: clamp type Material: 316L	1只 1piece	FOUCS		
10	五效蒸发器中段不凝气排气 气动角座阀 Fifth-effect evaporator middle section non-condensable gas vent pneumatic angle seat valve	DN20 接口: 快装 材质: 316L Connection: clamp type Material: 316L	1只 1piece	FOUCS		
11	冷却水气动角座阀 Cooling water pneumatic angle seat valve	DN40 G3/8 接口: 快装 材质: 316L Connection: clamp type Material: 316L	1只 1piece	FOUCS		

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12	蒸馏水取样阀 Distilled water sampling valve	DN8 一端卡盘一端焊接 接口: 快装 材质: 316L Φ25.4卡盘 DN8, one end chuck fitting, one end welded Connection: clamp type Material: 316L Φ25.4 chuck	1只 1piece	FOUCS		
13	一效蒸发器底部排汽气动角座阀 First-effect evaporator bottom drain pneumatic angle seat valve	DN20 接口: 快装 材质: 316L Connection: clamp type Material: 316L	1只 1piece	FOUCS		
14	二效蒸发器底部排汽手动球阀 Second-effect evaporator bottom drain manual ball valve	Φ25 接口: 快装 材质: 316L Connection: clamp type Material: 316L	1只 1piece	FOUCS		
15	三效蒸发器底部排汽手动球阀 Third-effect evaporator bottom drain manual ball valve	Φ25 接口: 快装 材质: 316L Connection: clamp type Material: 316L	1只 1piece	FOUCS		
16	四效蒸发器底部排汽手动球阀 Fourth-effect evaporator bottom drain manual ball valve	Φ25 接口: 快装 材质: 316L Connection: clamp type Material: 316L	1只 1piece	FOUCS		
17	五效蒸发器底部排汽手动球阀 Fifth-effect evaporator bottom drain manual ball valve	Φ25 接口: 快装 材质: 316L Connection: clamp type Material: 316L	1只 1piece	FOUCS		
18	六效蒸发器底部排汽手动球阀 Sixth-effect evaporator bottom drain manual ball valve	Φ25 接口: 快装 材质: 316L Connection: clamp type Material: 316L	1只 1piece	FOUCS		
19	不凝气排放视镜 Non-condensable gas vent sight glass		1只 1piece			
20	触摸屏 Touch screen	TP1200	1只 1piece	西门子 Siemens		
21	无纸记录仪 Paperless recorder	六通道 Six channels	1只 1piece	杭州美控 Meacon		
22	57-200PLC	CPU330	1只 1piece	西门子 Siemens		
23	开关电源 Switching power supply	24V	1只 1piece	台湾明纬 Meanwell		
24	中间继电器加底座 Intermediate relay with base		2套 2sets			
25	分配注射水输送泵 Distributed water for injection transfer pump	KP200E Φ20T H-30k P-10M 出口45°, 带排油口 材质: 304L DN15-3002 KP200E Φ20T H-30k P-10M 出口45°, with drainage outlet Material: 316L DN15-3002	1只 1piece	德清旺特 WONDET		
26	分配注射水出水压力表 Distributed water for injection outlet pressure gauge	0-0.6Mpa/Φ60 接口: 快装 材质: 316L 轴内隔膜 0-0.6Mpa/Φ60 Connection type: clamp type Material: 316L Diaphragm type: Axial	1只 1piece	上海致远 Shanghai Zhiyuan		
27	分配注射水回水压力表 Distributed water for injection return water pressure gauge	0-0.6Mpa/Φ60 接口: 快装 材质: 316L 轴内隔膜 0-0.6Mpa/Φ60 Connection type: clamp type Material: 316L Diaphragm type: Axial	1只 1piece	上海致远 Shanghai Zhiyuan		
28	分配换热器工业蒸汽压力表 Distribution heat exchanger industrial steam pressure gauge	0-0.6Mpa/Φ20*1.5 接口: 法兰 材质: 304 Connection: Flanged with Material: 304	1只 1piece	上海致远 Shanghai Zhiyuan		
29	分配回水合格气动隔膜阀 Distribution return water qualified pneumatic diaphragm valve	Φ38*1.5 接口: 焊接 材质: 316L Connection: welding Material: 316L	1只 1piece	FOUCS		
30	分配回水不合格气动隔膜阀 Distribution return water non-qualifying pneumatic diaphragm valve	Φ38*1.5 接口: 焊接 材质: 316L Connection: welding Material: 316L	1只 1piece	FOUCS		
31	电加热呼吸器 Electric heating breather		1套 1set			

7区配液 Zone 7 Liquid Preparation

序号 No.	名称 Name	规格及型号 Specification and Model	数量 Qty.	制造商 Manufacturer	单价/美元 Unit price (USD)	总价/美元 Total price (USD)
1	A罐上压缩空气进入软管 Compressed air inlet hose on tank A	φ25 接口：快装 Connection: clamp type	1根 1piece	国产 China		
2	A罐夹套工业蒸汽进金属软管 Industrial steam inlet metal hose for tank A jacket	φ38 接口：快装 Connection: clamp type	1根 1piece	国产 China		
3	A罐夹套工业蒸汽冷凝水出金属软管 Industrial steam condensate outlet metal hose for tank A jacket	φ38 接口：快装 Connection: clamp type	1根 1piece	国产 China		
4	过滤器压力表 Filter pressure gauge	0-0.6Mpa/φ63 接口：快装 材质：316L 径向隔膜 Connection type: clamp type Material: 316L Diaphragm type: Radial	8只 8pieces	上海致延 Shanghai Zhiyan		
5	过滤器 Filter	20英寸 3芯 0.22微米, PTFE 接口：快装 材质：316L 20 inch 3-core 0.22 micron, PTFE Connection type: clamp type Material: 316L	1套 1set	科百特 Cobetter		
6	B罐上压缩空气进入软管 Compressed air inlet hose on tank B	φ25 接口：快装 Connection type: clamp type	1根 1piece	国产 China		
7	A罐上注射水进入软管 Injection water inlet hose on tank A	φ38 接口：快装 Connection type: clamp type	2根 2pieces	国产 China		
8	B罐夹套工业蒸汽进金属软管 Industrial steam inlet metal hose for tank B jacket	φ38 接口：快装 Connection type: clamp type	1根 1piece	国产 China		
9	B罐夹套工业蒸汽冷凝水出金属软管 Industrial steam condensate outlet metal hose for tank B jacket	φ38 接口：快装 Connection type: clamp type	1根 1piece	国产 China		
10	电控柜总电源 Main power supply of electric control cabinet		1只 1piece			

7区纯水管道管件
Zone 7 PW Pipe Fittings

序号 No.	名称 Name	规格及型号 Specification and Model	数量 Qty.	制造商 Manufacturer	单价/美元 Unit price (USD)	总价/美元 Total price (USD)
1	管道 Pipe	φ64*1.2 304	6m	新莱/CSE KINGLAI/CSE		
2	加长异径三通 Extended reducing tee	φ64*φ38*1.6 304	1只 1piece	新莱/CSE KINGLAI/CSE		
3	加长短切三通 Extended stub-in tee	φ64*φ38*1.6 304	2只 2pieces	新莱/CSE KINGLAI/CSE		
4	加长卡箍式接头 Extended clamp coupling	φ64*1.2 304	6只 6pieces	新莱/CSE KINGLAI/CSE		
5	加长弯头 Extended elbow	φ64*1.2 304	4只 4pieces	新莱/CSE KINGLAI/CSE		
6	管道 Pipe	φ38*1.2 304	6m	新莱/CSE KINGLAI/CSE		
7	焊接同径三通 Welded straight tee	φ38*1.2 304	1只 1piece	新莱/CSE KINGLAI/CSE		
8	加长弯头 Extended elbow	φ38*1.2 304	4只 4pieces	新莱/CSE KINGLAI/CSE		
9	加长卡箍式接头 Extended clamp coupling	φ38*1.2 304	6只 6pieces	新莱/CSE KINGLAI/CSE		
10	偏心大小头 (罐下出口用) Eccentric reducer (for tank outlet)	φ51*φ38*1.2 316L	1只 1piece	新莱/CSE KINGLAI/CSE		

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7区纯蒸汽发生器管道管件

Zone 7 Pure Steam Generator Pipe Fittings

序号 No.	名称 Name	规格及型号 Specification and Model	数量 Qty.	制造商 Manufacturer	单价/美元 Unit price (USD)	总价/美元 Total price (USD)
1	管道 Pipe	$\phi 25 \times 1.2$ 316L	3m	新莱/CSE KINGLAI/CSE		
2	加长短切三通 Extended stub-in tee	$\phi 25 \times 1.2$ 316L	2只 2pieces	新莱/CSE KINGLAI/CSE		
3	加长卡箍式接头 Extended clamp coupling	$\phi 25 \times 1.2$ 316L	16只 16pieces	新莱/CSE KINGLAI/CSE		
4	加长弯头 Extended elbow	$\phi 25 \times 1.2$ 316L	6只 6pieces	新莱/CSE KINGLAI/CSE		

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7区蒸馏水机管道管件
Zone 7 Water Distiller Pipe Fittings

序号 No.	名称 Name	规格及型号 Specification and Model	数量 Qty.	制造商 Manufacturer	单价/美元 Unit price (USD)	总价/美元 Total price (USD)
1	管道 Pipe	Φ 25*1.2 304	3m	新莱/CSE KINGLAI/CSE		
2	加长卡箍式接头 Extended clamp coupling	Φ 25*1.2 304	16只 16pieces	新莱/CSE KINGLAI/CSE		
3	加长弯头 Extended elbow	Φ 25*1.2 304	10只 10pieces	新莱/CSE KINGLAI/CSE		
4	管道 Pipe	Φ 38*1.2 316L	2m	新莱/CSE KINGLAI/CSE		
5	加长弯头 Extended elbow	Φ 38*1.2 316L	4只 4pieces	新莱/CSE KINGLAI/CSE		
6	加长卡箍式接头 Extended clamp coupling	Φ 38*1.2 316L	4只 4pieces	新莱/CSE KINGLAI/CSE		

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印尼	12.19会议增加				
名称	型号	材质	数量	制造商	备注

电加热呼吸器控制盒（八区纯水、注射水、配液A罐B罐呼吸器用）	XMT-608		4只	余姚	余姚市长江温度仪表厂
TOC梅特勒			1只	梅特勒	
TOC配套取样阀、带纹牙卡盘、支架（八区注射水分配用）	4000				

两芯屏蔽线	0.5平方			200m	
压缩空气管	6毫米			300m	
电脑网20芯线	0.5平方			20m	
CIP罐底部磁力搅拌叶轮缺少			1只		

八区110、108、137、123、120房间用

管道	Φ25*1.2		304	16m	新莱/CSE
加长弯头	Φ25*1.2		304	24只	新莱/CSE
加长卡箍式接头	Φ25*1.2		304	24只	新莱/CSE
疏水阀（热静力）	DN15	快装	304	5只	斯派莎克 Spirax Sarco
手动球阀（纯蒸汽用）	Φ25	快装	304	7只	新莱/CSE
卡箍垫圈（A罐B罐共用）	Φ38		304	24套	新莱/CSE Kinglai/CES

编制:

日期:

审核:

日期:

客户名称	印尼	设备型号-配液系统(3套)	交货日期	2017/07/29			
编号	名称	型号	接口	材质	数量	制造商	备注
	纯蒸汽手动角座阀	Φ25*1.2	焊接	316L	2只	FOUCS	
	Y型过滤器	DN25	螺纹	316L	2只	FOUCS	
	纯蒸汽气动调节阀	Φ25*1.2	焊接	316L	2只	宝德	
	手动球阀(纯蒸汽管道)	Φ25	快装	316L	2只	FOUCS	
	手动球阀(氮气管道)	Φ25	快装	316L	2只	FOUCS	
	手动球阀(压缩空气管道)	Φ25	快装	316L	2只	FOUCS	
	多通道阀4		焊接	316L	2只	宝德	宝德提供图纸确认
	手动隔膜阀(空气过滤器排污)	Φ12.7*1.65	焊接	316L	2只	宝德	
	多通道阀5(空气过滤器与配液罐之间)		焊接	316L	2只	宝德	
	气动隔膜阀(罐顶)	DN25	快装	316L	2只	宝德	压力0.6MPa
	多通道阀1(热注射水进)		焊接	316L	2只	宝德	
	手动隔膜阀(CIP进)	Φ51*1.2	焊接	316L	4只	宝德	
	多通道阀2(冷注射水进)		焊接	316L	2只	宝德	
	多通道阀3(注射水进水)		焊接	316L	2只	宝德	
	多通道阀6(泵前)		焊接	316L	1只	宝德	
	多通道阀7(泵后)		焊接	316L	1只	宝德	
	多通道阀8(过滤器两翼)		焊接	316L	4只	宝德	
	多通道阀9		焊接	316L	1只	宝德	
	多通道阀10		焊接	316L	1只	宝德	
	手动隔膜阀(两过滤器连接)	Φ38*1.2	焊接	316L	2只	宝德	
	气动隔膜阀(过滤器底排放)	Φ12.7*1.65	焊接	316L	6只	宝德	
	疏水阀(热静力)	DN15	快装	304	2只	新派泽克	
	卫生级软管	Φ38	快装		4根	国产	L=500mm
	卫生级软管	Φ25	快装		2根	国产	L=500mm

管道		Φ25		316L	24m	新莱/CSE	
	加长卡箍式接头	Φ25*1.2		316L	30只	新莱/CSE	
	加长弯头	Φ25*1.2		316L	35只	新莱/CSE	
	单卡短切同径三通	Φ25*1.2		316L	4只	新莱/CSE	
	焊接同径三通	Φ25*1.2		316L	6只	新莱/CSE	
	卡箍+密封圈	Φ25		304	40套	新莱/CSE	
	管支架	Φ25		304	10只	新莱/CSE	
管道		Φ38		316L	24m	新莱/CSE	
	加长卡箍式接头	Φ38*1.2		316L	50只	新莱/CSE	
	加长弯头	Φ38*1.2		316L	40只	新莱/CSE	
	单卡短切同径三通	Φ38*1.2		316L	8只	新莱/CSE	
	焊接同径三通	Φ38*1.2		316L	4只	新莱/CSE	
	偏心大小头	Φ63*Φ38*1.2		316L	2只	新莱/CSE	
	偏心大小头	Φ51*Φ38*1.2		316L	4只	新莱/CSE	
	卡箍+密封圈	Φ38		304	60套	新莱/CSE	
	管支架	Φ38		304	20只	新莱/CSE	
管道		Φ51		316L	12m	新莱/CSE	
	加长卡箍式接头	Φ51*1.2		316L	10只	新莱/CSE	
	加长弯头	Φ51*1.2		316L	8只	新莱/CSE	
	焊接同径三通	Φ51*1.2		316L	2只	新莱/CSE	
	卡箍+密封圈	Φ51		304	10套	新莱/CSE	
	管支架	Φ51		304	10只	新莱/CSE	
管道		Φ76		304	9m	上海宾得	
	加长卡箍式接头	Φ76*1.6		304	6只	上海宾得	
	加长弯头	Φ76*1.6		304	4只	上海宾得	
	加长异径三通	Φ76*Φ38*1.6		316L	2只	新莱/CSE	
	加长异径三通	Φ76*Φ25*1.6		316L	2只	新莱/CSE	
	加长异径三通	Φ76*Φ12.7*1.6		316L	6只	新莱/CSE	
	卡箍+密封圈	Φ76		304	4套	上海宾得	
	管支架	Φ76		304	6只	上海宾得	

审核: 
 日期:
 第2页 共2页 2025/12/19

客户名称 Customer Name	印尼 Indonesia	八区5000L配液单独罐 Area 8 5000L Liquid Preparation Independent Tank	交货日期 Delivery Date					
编号 Item No.	名称 Name	型号 Model	接口 Connectio	材质 Material	数量 Quantity	制造商 Manufacture	备注 Remarks	
	触摸屏 touch screen							
	PLC缺少 (S7-200 CPUSR-60) PLC is missing (S7-200 CPUSR-60)							
	过滤器2套 (配置滤芯0.45、0.22微米) two sets of filters (equipped with filter cartridges of 0.45 μ m and 0.22 μ m pore sizes)							
	气动隔膜阀 (过滤器底部排液) pneumatic diaphragm valve (bottom drain of the filter)	$\phi 12.7 \times 1.65$	焊接 Welding	316L	2只 2 units	新莱/CSE Kinglai/CES		
	纯蒸汽隔膜压力表 pure steam diaphragm pressure gauge	0-0.6Mpa/	快装 Sanitary Clamp	316L	1只 1 unit	上海致远 Shanghai Zhiyuan	径向隔膜 radial diaphragm	
	过滤器压力表 filter pressure gauge	0-0.6Mpa/	快装 Sanitary Clamp	316L	8只 8 units	上海致远 Shanghai Zhiyuan	径向隔膜 radial diaphragm	
	压力传感器 (罐上用) pressure sensor (tank-mounted)	0-0.6Mpa/M20*1.5 (4-20mA)	隔膜 Diaphragm	316L	1只 1 unit	JUMO		
	温度传感器 (各过滤器和罐体共用) temperature sensor (for drainage of various filters and tanks)	(0-200℃) 可能客户从七区蒸馏水机拆卸 (0-200℃) It is probable that the component was removed from the Zone 7 distilled water generator		316L	6只 6 units	JUMO		
	温度传感器 (罐底用) temperature sensor (for tank bottom)	(0-200℃) 加长探头 (0-200℃) extended probe		316L	1只 1 unit	JUMO		
	称重模块 (罐底四脚) weighing module (four support legs of the tank)	客户想换梅特勒的因为目前配置的不显示 The client intends to replace the existing component with a Mettler product, as the currently configured device fails to provide display functionality.				梅特勒 Mettler		
	宝德电导率一套 (CIP清洗用) Burkert conductivity measurement system (for CIP cleaning)	8619, 电极0.01 8619, 0.01 cell constant electrode				宝德 Burkert		
	人孔盖密封圈 (5000L罐用) manhole cover gasket (for 5000L tank)				2个			

手动球阀 (纯蒸汽用) manual ball valve (for pure steam)	Φ25	快装 Sanitary Clamp	316L	1只 1 unit		
手动球阀 (压缩空气用, 切换氮气) manual ball valve (for compressed air / Nitrogen switching)	Φ25	快装 Sanitary Clamp	316L	2只 2 units		
无菌取样阀 aseptic sampling valve		快装 Sanitary Clamp	316L	3只 3 units		
疏水阀 (热静力) 压缩空气过滤器灭菌用 steam trap (thermostatic) for sterilization of compressed air filters	DN15	快装 Sanitary Clamp	304	1只 1 unit	斯密莎克 Sinter Sinter	
焊接同径三通 welded equal-diameter tee	Φ25*1.2		316L	2只 2 units	新莱/CSE Kinglai/CES	
加长弯头 long-radius elbow	Φ25*1.2		316L	5只 5 units	新莱/CSE Kinglai/CES	
加长卡箍式接头 extended sanitary clamp fitting	Φ25*1.2		316L	10只 10 units	新莱/CSE Kinglai/CES	
管支架 pipe support	Φ25		304	4只 4 units	新莱/CSE Kinglai/CES	
管道 pipeline	Φ25		316L	6m	新莱/CSE Kinglai/CES	

金属软管 (罐夹层加热、冷却用) metal hose (for heating and cooling of the tank jacket)	Φ38	快装 Sanitary Clamp	304	2根 2 pieces		
气动球阀 (工业蒸汽、冷却水用) pneumatic ball valve (for industrial steam and cooling water)	Φ38	快装 Sanitary Clamp	304	3只 3 units		
加长弯头 (工业蒸汽、冷却水用) long-radius elbow (for industrial steam and cooling water)	Φ38		304	10只 10 units		
焊接同径三通 (工业蒸汽、冷却水用) welded equal-diameter tee (for industrial steam and cooling water)	Φ38		304	6只 6 units		
加长卡箍式接头 (工业蒸汽、冷却水用) extended sanitary clamp fitting (for industrial steam and cooling water)	Φ38		304	16只 16 units		
工业蒸汽压力表 0-0.6Mpa (螺纹/带盘管) industrial steam pressure gauge 0-0.6Mpa (threaded connection/with coil tube)				1只 1 unit		

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管支架 pipe support	Φ38		304	5只 5 units		
管道 (工业蒸汽、冷却水用) pipeline(for industrial steam and cooling water)	Φ38		304	6只 6 units		
疏水阀 (汽罐夹套用) (工业蒸汽、冷却水用) steam trap(for the jacket of a tank) (for industrial steam and cooling water)	DN25	快装 Sanitary Clamp	304	1只 1 unit	斯派莎尔 Spirax Sarco	
疏水阀 (非自力) 呼吸器灭菌用 steam trap (thermostatic) for the sterilization of tank breather	DN25	快装 Sanitary Clamp	304	1只 1 unit	斯派莎尔 Spirax Sarco	
静压式平衡阀 (呼吸器排放用) Static pressure type check valve(for the discharge of tank breather)	DN25	快装 Sanitary Clamp	304	1只 1 unit		
管道 (呼吸器排放用) pipeline(for the discharge of tank breather)	Φ25		304	6m	新莱/CSE Kinglai/CES	
加长卡箍式接头 (呼吸器排放用) extended sanitary clamp fitting(for the discharge of tank breather)	Φ25*1.2		304	4只 4 units	新莱/CSE Kinglai/CES	
气动球阀 (呼吸器灭菌用) pneumatic ball valve(for the sterilization of tank breather)	Φ38	快装 Sanitary Clamp	304	3只 3 units		
焊接同径三通 (呼吸器排放用) welded equal-diameter tee(for the discharge of tank breather)	Φ25*1.2		304	2只 2 units	新莱/CSE Kinglai/CES	
加长弯头 (呼吸器排放用) long-radius elbow(for the discharge of tank breather)	Φ25*1.2		304	5只 5 units	新莱/CSE Kinglai/CES	
45度弯头 (呼吸器排放用) 45-degree elbow(for the discharge of tank breather)	Φ25*1.2		304	1只 1 unit	新莱/CSE Kinglai/CES	
喷淋球 (罐人孔盖用) spray ball(for the manway cover of tank)	安装在罐上Φ38 接口上 mounted on the Φ38 connection port of the tank		316	1只 1 unit		
气动隔膜阀 (罐上喷淋口用) pneumatic diaphragm valve(for the spray port on the tank)	Φ25		316L	1只 1 unit	新莱/CSE Kinglai/CES	
气动隔膜阀 (罐上补水、循环用) pneumatic diaphragm valve(for water make-up and circulation on the tank)	Φ38		316L	1只 1 unit	新莱/CSE Kinglai/CES	

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偏心大小头 (罐上喷出口变径用) eccentric reducer (for the reducing connection of tank spray port)	Φ38*Φ25*1.2		316L	2只 2 units	新莱/CSE Kinglai/CSE	
偏心大小头 (输送泵口用) eccentric reducer (for the transfer pump port)	Φ64*Φ38*1.2		316L	2只 2 units	新莱/CSE Kinglai/CSE	
偏心大小头 (罐下出口用) eccentric reducer (for the tank bottom outlet)	Φ51*Φ38*1.2		316L	2只 2 units	新莱/CSE Kinglai/CSE	
45度弯头 (罐下出口用) 45 degree elbow (for the tank bottom outlet)	Φ51*1.2		316L	2只 2 units	新莱/CSE Kinglai/CSE	
异径同径三通 (药液管通用) welded equal-diameter tee (for the drug solution pipeline)	Φ38*1.2		316L	6只 6 units	新莱/CSE Kinglai/CSE	
加长弯头 (药液管通用) long-radius elbow (for the drug solution pipeline)	Φ38*1.2		316L	30只 30 units	新莱/CSE Kinglai/CSE	
加长卡箍式接头 (药液管通用) extended sanitary clamp fitting (for the drug solution pipeline)	Φ38*1.2		316L	20只 20 units	新莱/CSE Kinglai/CSE	
管道 (药液管通用) pipeline (for the drug solution pipeline)	Φ38		316L	24m	新莱/CSE Kinglai/CSE	
管支架 (带圆底座20片) pipe support (with round base, 20 pieces)	Φ38		304	20只 20 units	新莱/CSE Kinglai/CSE	
疏水阀 (热静力) 过滤器用 steam trap (thermostatic) for filter	DN15	快装 Sanitary Clamp	304	3只 3 units	新莱/CSE Kinglai/CSE	
气动球阀 (罐底排放用) pneumatic ball valve (for tank bottom discharge)	Φ38	快装 Sanitary Clamp	304	2只 2 units		
气动球阀 (过滤器排放用) pneumatic ball valve (for filter discharge)	Φ25	快装 Sanitary Clamp	304	2只 2 units		
加长卡箍式接头 (Φ15小卡盘) extended sanitary clamp fitting (Φ15 small tri-clamp)	Φ12.7*1.65		304	6只 6 units	新莱/CSE Kinglai/CSE	
加长弯头 (过滤器排放用) long-radius elbow (for filter discharge)	Φ12.7*1.65		304	6只 6 units	新莱/CSE Kinglai/CSE	
偏心大小头 (过滤器排放用) eccentric reducer (for filter discharge)	Φ25*Φ12.7*1.2		304	4只 4 units	新莱/CSE Kinglai/CSE	
异径同径三通 (过滤器排放用) welded equal-diameter tee (for filter discharge)	Φ25*1.2		304	6只 6 units	新莱/CSE Kinglai/CSE	

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加长弯头 (过滤棒排放用) long-radius elbow(for filter discharge)	Φ38*1.2		304	5只 5 units	新莱/CSE Kinglai/CES	
管道 (冷凝水排水用) pipeline(for condensate drainage)	Φ38*1.2		304	6m	新莱/CSE Kinglai/CES	
加长卡箍式接头 (冷凝水排水用) extended sanitary clamp fitting (for condensate drainage)	Φ38*1.2		304	3只 3 units	新莱/CSE Kinglai/CES	
加长异径三通 (冷凝水排水用) extended reducing tee(for condensate drainage)	Φ38*Φ25*1.6		304	2只 2 units	新莱/CSE Kinglai/CES	
焊接同径三通 (冷凝水排水用) welded equal-diameter(for condensate drainage)	Φ38*1.2		304	2只 2 units	新莱/CSE Kinglai/CES	
加长弯头 (冷凝水排水用) long-radius elbow(for condensate drainage)	Φ38*1.2		304	4只 4 units	新莱/CSE Kinglai/CES	
手动球阀 (CIP排水回流切换用) manual ball valve(for CIP drain and reflux switching)	Φ51	快装 Sanitary Clamp	304	2只 2 units		
焊接同径三通 (CIP排水回流用) welded equal-diameter tee(for CIP drain and reflux)	Φ51*1.2		304	2只 2 units	新莱/CSE Kinglai/CES	
加长弯头 (CIP排水回流用) long-radius elbow(for CIP drain and reflux)	Φ51*1.2		304	8只 8 units	新莱/CSE Kinglai/CES	
加长卡箍式接头 (CIP排水回流用) extended sanitary clamp fitting(for CIP drain and reflux)	Φ51*1.2		304	8只 8 units	新莱/CSE Kinglai/CES	
加长异径三通 (CIP排水回流用) extended reducing tee(for CIP drain and reflux)	Φ51*Φ38*1.6		304	2只 2 units	新莱/CSE Kinglai/CES	
加长异径三通 (CIP排水回流用) extended reducing tee(for CIP drain and reflux)	Φ51*Φ25*1.6		304	2只 2 units	新莱/CSE Kinglai/CES	
空气隔断器 (进出口) (CIP排水回流用) air gap separator(inlet and outlet)(for CIP drain and reflux)	Φ51		304	1只 1 unit	新莱/CSE Kinglai/CES	
管道 (CIP排水回流用) pipeline(for CIP drain and reflux)	Φ51*1.2		304	12m	新莱/CSE Kinglai/CES	
气动隔膜阀 (罐装线CIP使用) pneumatic diaphragm valve(for CIP on pharmaceutical filling line)	Φ28		316L	3只 3 units	新莱/CSE Kinglai/CES	

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客户名称 Customer Name	印尼 Indonesia	八区5000L配液单独罐 Area 8 5000L Liquid Preparation Independent Tank	交货日期 Delivery Date				
编号 Item No.	名称 Name	型号 Model	接口 Connection	材质 Material	数量 Quantity	制造商 Manufacturer	备注 Remarks
	输送泵 transfer pump	LEH-10 Q-0T/H D=25a P=2.2KW		316	1套 1 unit	阿法拉伐 Alfa Laval	出口50°，带排污口 outlet at 45° , equipped with a drain port
	电控柜一套 a set of electric control cabinet						
	气控柜一套 a set of pneumatic control cabinet						
	纯蒸汽隔膜压力表 pure steam diaphragm pressure gauge	0-0.6MPa	快装 Sanitary Clamp	316L	1只 1 unit	上海慈城 Shanghai Chimeng	径向隔膜 radial diaphragm
	过滤器压力表 filter pressure gauge	0-0.6MPa	快装 Sanitary Clamp	316L	8只 8 units	上海慈城 Shanghai Chimeng	径向隔膜 radial diaphragm
	压力传感器(罐上型) pressure sensor (tank-mounted)	0-0.6MPa/0.05% (4-20mA)	隔膜 Diaphragm	316L	1只 1 unit	JUMO	
	温度传感器 (各过滤器和罐体使用) temperature sensor (for drainage of various filters and tanks)	(0-200℃) 可能客户从七区蒸馏水机拆卸 (0-200℃) It is probable that the component was removed from the Zone 7 distilled water generator by the customer.		316L	6只 6 units	JUMO	
	称重模块(罐四只脚) weighing module (four support legs of the tank)	客户想换掉特制的因为秤量配置的不显示 The client intends to replace the existing component with a Mettler product, as the currently configured device fails to provide display functionality.				梅特勒 Mettler	
	宝德电导率一套(CIP清洗用) Bürkert conductivity measurement system (for CIP cleaning)	BB19, 电极0.01 BB19, 0.01 cell constant electrode				宝德 Bürkert	
	人孔盖密封套(5000L罐用) manhole cover gasket (for 5000L tank)				2个		
	气动隔膜阀(罐底部排放用) pneumatic diaphragm valve (bottom discharge of transfer tank)	Φ12.7×1.65	焊接 Welding	316L	1只 1 unit	宝德 Bürkert	
	手动球阀(纯蒸汽用) manual ball valve (for pure steam)	Φ25	快装 Sanitary Clamp	316L	1只 1 unit		

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手动球阀 (压缩空气用、切换氮气) manual ball valve (for compressed air / Nitrogen switching)	Φ25	快装 Sanitary Clamp	316L	251 2 units		
气动球阀 pneumatic ball valve		快装 Sanitary Clamp	316L	251 2 units		
汽水阀 (热静力) 50mm 空气过滤器 steam trap (thermostatic) for compressed air filter	DN15	快装 Sanitary Clamp	304	111 1 unit	斯派莎克 Spirax Sarco	
焊接同径三通 welded equal-diameter tee	Φ25*1.2		316L	251 2 units	新莱/CSB Kinglai/CSB	
加长弯头 long-radius elbow	Φ25*1.2		316L	511 5 units	新莱/CSB Kinglai/CSB	
加长卡箍式接头 extended sanitary clamp fitting	Φ25*1.2		316L	1051 10 units	新莱/CSB Kinglai/CSB	
管支架 pipe support	Φ25		304	411 4 units	新莱/CSB Kinglai/CSB	
管道 pipeline	Φ25		316L	6m	新莱/CSB Kinglai/CSB	

金属软管 (罐夹层加热、冷却用) metal hose (for heating and cooling of the tank jacket)	Φ38	快装 Sanitary Clamp	304	211 2 pieces		
气动球阀 (工业蒸汽、冷却水用) pneumatic ball valve (for industrial steam and cooling water)	Φ38	快装 Sanitary Clamp	304	311 3 units		
加长弯头 (工业蒸汽、冷却水用) long-radius elbow (for industrial steam and cooling water)	Φ38		304	1031 10 units		
焊接同径三通 (工业蒸汽、冷却水用) welded equal-diameter tee (for industrial steam and cooling water)	Φ38		304	611 6 units		
加长卡箍式接头 (工业蒸汽、冷却水用) extended sanitary clamp fitting (for industrial steam and cooling water)	Φ38		304	1031 10 units		
工业蒸汽压力表 0-0.6MPa (丝牙/软管) industrial steam pressure gauge 0-0.6MPa (threaded connection/with coil tube)				111 1 unit		
管支架 pipe support	Φ38		304	511 5 units		
管道 (工业蒸汽、冷却水用) pipeline (for industrial steam and cooling water)	Φ38		304	611 6 units		
汽水阀 (罐夹层冷却) (工业蒸汽、冷却水用) steam trap (for the jacket of 3-run tank) (for industrial steam and cooling water)	DN20	快装 Sanitary Clamp	304	111 1 unit	斯派莎克 Spirax Sarco	

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疏水阀 (热静力) 呼吸器使用 steam trap (thermostatic) for the respiration of tank breather	2012	快装 Sanitary Clamp	301	1只 1 unit	新莱/CSL Kinglai/CSL	
法兰式单阀周 (呼吸器使用) flange threaded true check valve(for the discharge of tank breather)	2020	快装 Sanitary Clamp	004	1只 1 unit		
管道 (呼吸器排放用) pipeline(for the discharge of tank breather)	Φ25		304	6m	新莱/CSL Kinglai/CSL	
加长卡箍式接头 (呼吸器排放用) extended sanitary clamp fitting(for the discharge of tank breather)	Φ25*1.2		304	4只 4 units	新莱/CSL Kinglai/CSL	
焊接同径三通 (呼吸器排放用) welded equal-diameter tee(for the discharge of tank breather)	Φ25*1.2		304	2只 2 units	新莱/CSL Kinglai/CSL	
加长弯头 (呼吸器排放用) long-radius elbow(for the discharge of tank breather)	Φ25*1.2		304	5只 5 units	新莱/CSL Kinglai/CSL	
45度弯头 (呼吸器排放用) 45-degree elbow(for the discharge of tank breather)	Φ25*1.2		304	1只 1 unit	新莱/CSL Kinglai/CSL	

喷淋球 (罐人孔盖用) spray ball(for the manway cover of tank)	安装在罐上Φ38 接口上 mounted on the Φ38 connection port of the tank		310	1只 1 unit		
气动隔膜阀 (罐上喷淋口用) pneumatic diaphragm valve(for the spray port on the tank)	Φ25		310L	1只 1 unit	新莱/CSL Kinglai/CSL	
气动隔膜阀 (罐上补水、循环用) pneumatic diaphragm valve(for water make-up and circulation on the tank)	Φ38		310L	1只 1 unit	新莱/CSL Kinglai/CSL	
偏心大小头 (罐上喷淋口变径用) eccentric reducer(for the reducing connection of tank spray port)	Φ38*Φ25*1.2		310L	2只 2 units	新莱/CSL Kinglai/CSL	
偏心大小头 (罐上接口用) eccentric reducer(for the transfer pipe port)	Φ68*Φ38*1.2		310L	2只 2 units	新莱/CSL Kinglai/CSL	
偏心大小头 (罐下出口用) eccentric reducer(for the tank bottom outlet)	Φ51*Φ38*1.2		310L	2只 2 units	新莱/CSL Kinglai/CSL	
45度弯头 (罐下出口用) 45-degree elbow(for the tank bottom outlet)	Φ51*1.2		310L	2只 2 units	新莱/CSL Kinglai/CSL	
焊接同径三通 (药液管使用) welded equal-diameter tee(for the drug solution pipeline)	Φ38*1.2		316L	6只 6 units	新莱/CSL Kinglai/CSL	
加长弯头 (药液管使用) long-radius elbow(for the drug solution pipeline)	Φ38*1.2		316L	30只 30 units	新莱/CSL Kinglai/CSL	

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加长卡箍式接头 (药液管适用) extended sanitary clamp fitting(for the drug solution pipeline)	Φ38*1.2		316L	20只 20 units	新莱/CSE Kinglai/CSE	
管道 (药液管适用) pipeline(for the drug solution pipeline)	Φ38		316L	24m	新莱/CSE Kinglai/CSE	
管支架 (带圆底座20片) pipe support (with round base, 20 pieces)	Φ38		304	20只 20 units	新莱/CSE Kinglai/CSE	
疏水阀 (热静力) 过滤器用 steam trap (thermostatic) for filter	DN15	快装 Sanitary Clamp	304	3只 3 units	新莱/CSE Kinglai/CSE	
气动球阀 (罐底排液用) pneumatic ball valve(for tank bottom discharge)	Φ25	快装 Sanitary Clamp	304	2只 2 units		
气动球阀 (过滤器排液用) pneumatic ball valve(for filter discharge)	Φ25	快装 Sanitary Clamp	304	2只 2 units		
加长卡箍式接头 (Φ15小卡箍) extended sanitary clamp fitting(Φ15 small tri-clamp)	Φ12.7*1.65		304	6只 6 units	新莱/CSE Kinglai/CSE	
加长弯头 (过滤器排液用) long radius elbow(for filter discharge)	Φ12.7*1.65		304	6只 6 units	新莱/CSE Kinglai/CSE	
偏心大小头 (过滤器排液用) eccentric reducer(for filter discharge)	Φ25*Φ12.7*1.2		304	4只 4 units	新莱/CSE Kinglai/CSE	
焊接同径三通 (过滤器排液用) welded equal-diameter tee(for filter discharge)	Φ25*1.2		304	6只 6 units	新莱/CSE Kinglai/CSE	
加长弯头 (过滤器排液用) long radius elbow(for filter discharge)	Φ25*1.2		304	6只 6 units	新莱/CSE Kinglai/CSE	
管道 (冷凝水排水用) pipeline(for condensate drainage)	Φ38*1.2		304	6m	新莱/CSE Kinglai/CSE	
加长卡箍式接头 (冷凝水排水用) extended sanitary clamp fitting (for condensate drainage)	Φ38*1.2		304	6只 6 units	新莱/CSE Kinglai/CSE	
加长异径三通 (冷凝水排水用) extended reducing tee(for condensate drainage)	Φ38*Φ25*1.6		304	2只 2 units	新莱/CSE Kinglai/CSE	
焊接同径三通 (冷凝水排水用) welded equal-diameter(for condensate drainage)	Φ38*1.2		304	2只 2 units	新莱/CSE Kinglai/CSE	
加长弯头 (冷凝水排水用) long radius elbow(for condensate drainage)	Φ38*1.2		304	4只 4 units	新莱/CSE Kinglai/CSE	
手动球阀 (CIP排水回流切换用) manual ball valve(for CIP drain and reflux switching)	Φ51	快装 Sanitary Clamp	304	2只 2 units		
加长异径三通 (CIP排水回流用) extended reducing tee(for CIP drain and reflux)	Φ51*Φ25*1.6		304	2只 2 units	新莱/CSE Kinglai/CSE	

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空气分离器 (进出口) (CIP排水和回流) air gap separator (inlet and outlet) (for CIP drain and reflux)	Φ51		304	114 1 unit	新莱/CSE Kinglai/CES	
管道 (CIP排水和回流) pipeline (for CIP drain and reflux)	Φ31*1.2		304	12m	新莱/CSE Kinglai/CES	
气动隔膜阀 (配备CIP使用) pneumatic diaphragm valve (for CIP on pharmaceutical filling line)	Φ38		316L	332 3 units	新莱/CSE Kinglai/CES	
不锈钢方管 stainless steel square tube	45*75		304	6m	新莱/CSE Kinglai/CES	
手动隔膜阀 (配液罐收冲注射水用)	Φ51		316L	231	新莱/CSE Kinglai/CES	
手动角座阀 (配液罐换热器冷点用)	Φ38		304	231	新莱/CSE Kinglai/CES	
管道 (配液罐换热器冷点用)	Φ28*1.2		304	12m	新莱/CSE Kinglai/CES	
加长弯头 (配液罐换热器冷点用)	Φ28*1.2		304	831	新莱/CSE Kinglai/CES	
加长卡箍式接头 (配液罐换热器冷点用)	Φ28*1.2		304	831	新莱/CSE Kinglai/CES	
管道 (冷注射水管通用)	Φ51		316L	6m	新莱/CSE Kinglai/CES	
加长弯头 (冷注射水管通用)	Φ51*1.2		316L	431	新莱/CSE Kinglai/CES	

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8区10吨纯水设备 Zone 8 10ton PW equipment

序号 No.	名称 Name	规格及型号 Specification and Model	数量 Qty.	图片 Picture	单价/美元 Unit price (USD)	总价/美元 Total price (USD)
1	软化器排液手阀 Softener Discharge Hand Valve	Φ38	1个	=DISPIMG("ID_B8D67D48CC1C400BA7E2273C4F461898",1)		
2	2号软化器压力表 No. 2 Softener Pressure Gauge	径向0-0.6mpa Radial 0-0.6 MPa	1个	=DISPIMG("ID_83005B6A369C49989B4AED78851178D7",1)		
3	一级高压泵压力开关 1st High Pressure Pump Pressure Switch	快卡 Quick-connect	1个	=DISPIMG("ID_C2926D8937D040688D0E670276C2F6B2",1)		
4	一级高压泵出水压力表 1st High Pressure Pump Outlet Pressure Gauge	0-2.5mpa	1个	=DISPIMG("ID_8D8A7414EDC8499FB80592A5787D6681",1)		
5	一级浓水压力表 1st Concentrated Water Pressure Gauge	0-2.5mpa	1个	=DISPIMG("ID_BA79860CE4A74E8CB70374D3E957BA17",1)		
6	EDI浓水 - 一级浓水回流管道缺少部分 (客户自己完成) EDI Concentrated Water, Partial Missing in 1st Concentrated Water Return Pipeline (To Be Completed by Customer)					
7	一级纯水压力表 1st Pure Water Pressure Gauge	0-0.6mpa	1个	=DISPIMG("ID_55ED8A306D8F447DA58FB89B985A73D1",1)		
8	RO膜 RO Membrane	12支带膜头垫圈 12 pcs of gasket with film head 8080	8个 8 pieces			
9	EDI	IP-LXM452-4	2套 2 units	=DISPIMG("ID_9D84F7D1B65443828F3D7EB484AC89FC",1)		
10	EDI浓水 - 纯水压力表 EDI Concentrated Water & Pure Water Pressure Gauge	径向0-0.6mpa Radial 0-0.6 MPa	4个 4 pieces	=DISPIMG("ID_859568C9D12B42428122A888CC0B1A54",1)		
	EDI浓水/纯水进出口连接口 EDI Concentrated Water/Pure Water Inlet and Outlet Connection Port		2套 2 sets			
	EDI浓水压力表 EDI Concentrated Water Pressure Gauge	安装快卡三通 Install quick-connect tee	2个			
11	分配热交换器蒸汽压力表 Distribution Heat Exchanger Process Steam Pressure Gauge	螺纹0-0.6mpa Threaded connection: 0-0.6 MPa	1个	=DISPIMG("ID_08AF7965B8214D918D0CA48D58CS8854",1)		
12	纯水分配出水压力表 Pure Water Distribution Outlet Pressure Gauge	径向0-0.6mpa Radial connection: 0- 0.6 MPa	1个	=DISPIMG("ID_740DBD3DA0E542D8A970529D6D289A4E",1)		
	纯水分配回水压力表 Pure Water Distribution Return Pressure Gauge	轴向0-0.6mpa Axial connection: 0-0.6 MPa	1个			
13	一级纯水电导率探头 1st Pure Water Conductivity Probe	8221电极参数0.1 8221 Electrode parameter 0.1	1个			
14	预处理石英砂、阳树脂、活性炭 Pretreatment Quartz Sand, Cation Resin, Activated Carbon		1批 1 batch			

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8区纯蒸汽发生器

Zone 8 Pure steam generator

序号 No.	名称 Name	规格及型号 Specification and Model	数量 Qty.	图片 Picture	单价/美元 Unit price (USD)	总价/美元 Total price (USD)
1	纯水U型弯到原料水泵管道 Pure water U-bend to raw water pump pipeline	Φ25	1个	=DISPIMG("ID_BAAB365D211949E590E3648013EF0D09",1)		
	原料水泵到手动隔膜阀管道 Raw water pump to manual diaphragm valve pipeline	Φ25				
	原料水手动隔膜阀 Raw water manual diaphragm valve	Φ25				
2	复冷器取样阀 Recooler sampling valve	卡盘Φ15 Chuck Φ15	1个	=DISPIMG("ID_OC8872C23F074E97A57E4287619F5722",1)		
	原料水进水压力表 Raw water inlet pressure gauge	轴向0-0.6mpa Axial 0-0.6MPa	1个			
3	工业蒸汽自动调节阀控制头 Industrial steam automatic regulating valve control head	GEMU 1436	1个	=DISPIMG("ID_964DF665340849B68A771317F6E36090",1)		
4	工业蒸汽冷凝水排放手动球阀-部分管道 Industrial steam condensate discharge manual ball valve Partial pipelines	Φ38	1个	=DISPIMG("ID_7527C8AE03604F3884C1824EED7D82E2",1)		
	蒸发器底部旁通排放手动球阀 Evaporator bottom bypass discharge manual ball valve	Φ25	1个			
5	PLC的CPU	SIEMENS	1个	=DISPIMG("ID_BDF8C1984A7D4EA29FE60788C86FA1F6",1)		

共用备件

Shared spare parts

序号 No.	名称 Name	规格及型号 Specification and Model	数量 Qty.	图片 Picture	单价/美元 Unit price (USD)	总价/美元 Total price (USD)
1	气管 Air Pipe	6mm	400m			
2	两芯屏蔽线 Two-Core Shielded Cable		200m			
3	压力表 Pressure Gauge	径向0-0.6mpa Radial 0-0.6 MPa	5个 5 pieces			
4	压力表 Pressure Gauge	轴向0-0.6mpa Axial 0-0.6MPa	5个 5 pieces			
5	手动球阀 Manual Ball Valve	Φ25	5个 5 pieces			
6	工业蒸汽调节阀自动控制头 Industrial Steam Regulating Valve Automatic Control Head	1436	1个 1 piece			

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8区蒸馏水机

Zone 8 Water distiller

序号 No.	名称 Name	规格及型号 Specification and Model	数量 Qty.	图片 Picture	单价/美元 Unit price (USD)	总价/美元 Total price (USD)
1	原料水泵进出口法兰和螺栓 Raw water pump inlet and outlet flanges and bolts	Φ38	2个	=DISPIMG("ID_F746DBAA39AD428698B7C260D9ACA25E",1)		
2	原料水压力表·温度表 Raw water pressure gauge and temperature gauge	轴向0-0.6mpa Axial 0-0.6MPa	1个	=DISPIMG("ID_38011D0300BA47BE89D4F7907377482A",1)		
3	二到六效蒸发器底部排放阀 Discharge valves at the bottom of the 2nd to 6th effect evaporators	Φ25	5个 5 pieces	=DISPIMG("ID_6D0B11AE0C77427CB55399327580B4DF7",1)		
4	1效、3效、4效蒸发器底部排放连接管道 Discharge connection pipes at the bottom of the 1st, 3rd, and 4th effect evaporators			=DISPIMG("ID_6588656ED6364139B3CFF79474CF0D51",1)		
5	蒸馏水机主机取样阀 Main unit sampling valve of the water distiller	Φ25	1个	=DISPIMG("ID_C95665894A8C4B4391B93C7D349515AA",1)		
6	工业蒸汽自动调节阀控制头 Industrial steam automatic regulating valve control head	GEMU 1436	1个	=DISPIMG("ID_BC00B8C63A7A4F1DA5A31E4CA59AFCCB",1)		
7	上冷凝器不凝气排放管道 Non-condensable gas discharge pipe of the upper condenser			=DISPIMG("ID_38325087E8DE44CD900BCBAAB1886F6C",1)		
8	注射水分配工业蒸汽压力表 WFI distribution industrial steam pressure gauge	丝牙0-0.6mpa Threaded connection: 0-0.6 MPa	1个	=DISPIMG("ID_7176A25688434791840127D2E8A6183B",1)		
	注射水分配出水、回水压力表 WFI distribution outlet and return water pressure gauge	轴向0-0.6mpa Axial 0-0.6MPa	2个			

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