

PT. TRIMITRA WISESA ABADI				
Technical RFQ - Water & Steam Distribution				
Project : Procurement & Installation of Steam and Water Distribution				
Location : Bandar Lampung				
Date : 2022				
No :		Qty	Scope Of Supply	Scope Of Work
MECHANICAL WORK				
1	BOILER FEED WATER TANK COMPLETE WITH DEAERATOR DOME (DAE-021-004)	1 lot	TWA	TWA
	Materials & dimensions			
	Capacity : 30 M3			
	Volume of water at Operation : 25 M3			
	Material shell : A 516 Gr. 70 thk 10 mm			
	Thermal isolation : Rock wool / 120 mm #120			
	Cladding : Aluminum Sheet / 0.8 mm			
	Steel structure platform : 6 m high			
	Deaerator Dome			
	Type : Tray type			
	Material : SS304			
	Deaerated water flow : 35,000 kg/hr			
	Deaerated water temp. : ±105 °C			
	Operating pressure : 1.208 bara/ 0.28 Barg			
	Sinking time			
	NWL to bottom of level glass : 30 minutes			
	NWL to bottom of tank : 45 minutes			
	Included :			
	Steam inlet & water level control Panel system with PLC Siemens S7-1500			
	Pressure Relief valves and temperature indicator and all necessary Equipment			
	Magnetic Level Gauge			
	Another valve for all nozzle			
	Standard steel construction c/w proper platform with galvanized steel grating			
	Galvanized ladder w/ 75 °			
2	STEAM HEADER UNIT (MPSH-020-013)	1 lot	TWA	TWA
	Material : ASTM A106 Gr. B Size : 40 “ Sch 40 x 5500 mm			
	Material / thk thermal isolation : Rock wool / 120 mm #120			
	Material / thk of cladding : Aluminum Sheet / 0.8 mm			
	Accessories : 1 unit Valve Ø12” /DN300 PN25			
	3 unit Valve Ø10” /DN250 PN25			
	3 unit Valve Ø8” / DN200 PN25			
	2 unit Valve Ø6” / DN150 PN25			
	1 unit Valve Ø4” / DN100 PN25			
	1 unit Pressure Gauge Body Dia. 100 mm			
	1 set Steam trap System DN25 PN40			
	2 Blind flange Ø10” /DN250 PN25			
	4 Blind flange Ø8” / DN200 PN25			
	2 Blind flange Ø6” / DN150 PN25			
	2 Blind flange Ø4” / DN100 PN25			
	Included :			
	All device, equipment, material on P&ID which is contractor scope			
3	STEAM HEADER UNIT (LPSH-020-014)	1 lot	TWA	TWA
	Material : ASTM A106 Gr. B Size : 20 “ Sch 40 x 2500 mm			
	Material / thk thermal isolation : Rock wool / 120 mm #120			
	Material / thk of cladding : Aluminum Sheet / 0.8 mm			
	Accessories : 1 unit Valve Ø8” /DN200 PN16			
	1 unit Valve Ø6” / DN150 PN16			
	2 unit Valve Ø4” /DN100 PN16			
	1 unit Valve Ø3” / DN80 PN16			
	1 unit Pressure Gauge Body Dia. 100 mm			
	1 set Steam trap System DN25 PN16			
	1 Blind flange Ø4” /DN100 PN16			
	Included :			
	All device, equipment, material on P&ID which is contractor scope			
4	STEAM HEADER UNIT (LPSH-020-015)	1 lot	TWA	TWA
	Material : ASTM A106 Gr. B Size : 14 “ Sch 40 x 2500 mm			
	Material / thk thermal isolation : Rock wool / 120 mm #120			
	Material / thk of cladding : Aluminum Sheet / 0.8 mm			
	Accessories : 2 unit Valve Ø10” /DN250 PN25			
	1 unit Valve Ø6” / DN150 PN16			
	1 unit Valve Ø4” /DN100 PN16			
	2 unit Valve Ø3” / DN80 PN16			
	1 unit Pressure Gauge Body Dia. 100 mm			
	2 Blind flange Ø4” /DN100 PN16			
	2 Blind flange Ø3” /DN80 PN16			
	1 set Steam trap System DN25 PN16			
	Included :			
	All device, equipment, material on P&ID which is contractor scope			

5	CONDENSATE TANK (CT01)	1	lot	TWA	TWA
	Capacity : 20 M3				
	Material Body : SUS304 thk 4 mm				
	Dimension : OD 2200 mm x 5500 mm				
	Design Pressure : 3 Barg				
	Steel structur platform : 6 m high				
	Material / thk thermal isolation : Rock wool / 120 mm #120				
	Material / thk of cladding : Aluminum Sheet / 0.8 mm				
	Accessories : Outlet Ball Valve DN100				
	Inlet Ball Valve DN80 PN16				
	Venting Ball Valve DN25 PN16				
	Included :				
	All device, equipment, material on P&ID which is contractor scope				
6	CONDENSATE TANK (CT02)	1	lot	TWA	TWA
	Capacity : 10 M3				
	Material Body : SUS304 thk 4 mm				
	Dimension : OD 1600 mm x 5000 mm				
	Design Pressure : 3 Barg				
	Steel structur platform : 6 m high				
	Material / thk thermal isolation : Rock wool / 120 mm #120				
	Material / thk of cladding : Aluminum Sheet / 0.8 mm				
	Accessories : Outlet Ball Valve DN100				
	Inlet Ball Valve DN80 PN16				
	Venting Ball Valve DN25 PN16				
	Included :				
	All device, equipment, material on P&ID which is contractor scope				
7	HE SHELL AND TUBE PREATING (PHH-021-003)	1	lot	TWA	TWA
	Type : Shell and Tube (horizontal cylinder)				
	Flow Rate Cold Side : 30 m3/h				
	Flow Rate Hot Side : 2 m3/h				
	Temperature Inlet Cold Side : 25 °C				
	Temperature Inlet Hot Side : 200 °C				
	Heat Exchanged : TBA				
	Material of Tube : SS316				
	Material of Shell : SS304				
	Spurging Nozzle : SS316				
	Dimension : 8500 mm (L) x 1500 mm (D)				
	Capacity : 15 M3				
	Ratio Volume Capacity Sheell Vs Tube : TBA				
	Material / thk thermal isolation : Rock wool / 120 mm #120				
	Material / thk of cladding : Aluminum Sheet / 0.8 mm				
	Accessories : Bypass valve				
	Included :				
	All device, equipment, material on P&ID which is contractor scope				
8	BLOWDOWN TANK (BT01)	1	lot	TWA	TWA
	Capacity : 4 M3				
	Material Body : SS304				
	Type : Vertical Cylinder				
	Design Pressure : 5 Barg				
	Dimension : OD 1600 mm x 2200 mm				
	Material / thk thermal isolation : Rock wool / 120 mm #120				
	Material / thk of cladding : Aluminum Sheet / 0.8 mm				
	Accessories : Valves & Temperature Gauge				
	Included :				
	All device, equipment, material on P&ID which is contractor scope				
9	FLASH VESSEL (FV01)	1	lot	TWA	TWA
	Flow Rate Condensate : 1000 m3/h				
	Flow Rate Hot Side : 1 m3/h				
	Material : SS316				
	Material / thk thermal isolation : Rock wool / 120 mm #120				
	Material / thk of cladding : Aluminum Sheet / 0.8 mm				
	Accessories : Safety Valve ¾” PN16				
	Pressure Gauge				
	Strainer DN50 PN16				
	Steam Trap Float type DN50 PN16				
	Vaccum Breaker ½”				
	Valve DN 25 PN 16				
10	PRESSURE WATER TANK (PWT01)	1	lot	TWA	TWA
	Capacity : 1 M3				
	Water Flow Rate : 10 m3/h				
	Material : SS304				
	Design Pressure : 5 Barg				
	Accessories : Safety Valve ¾” PN16				
	Pressure Gauge				
11	PRESSURE WATER TANK (PWT02)	1	lot	TWA	TWA
	Capacity : 1 M3				
	Water Flow Rate : 10 m3/h				
	Material : SS304				
	Design Pressure : 5 Barg				
	Accessories : Safety Valve ¾” PN16				
	Pressure Gauge				
12	DAILY FUEL TANK (DFT01)	1	lot	TWA	TWA
	Capacity : 30,000 Lt				

	Material Body	:	SS400, thk 10 mm			
	Dimension	:	OD 2500 mm x 6000 mm			
	Design Pressure	:	3 Barg			
	Accessories	:	Level Gauge			
			Inlet Valve Ø 4" Ball Valve			
			Return Valve Ø 1" Ball valve			
			Outlet Valve Ø 2" Ball valve			
			Drain Ø 2 " Ball valve			
			Supply Circulation Pump Station (Redundant)			