

**REFERENCES**

- 1) PROCESS DESCRIPTION INCLUDING CONTROL TRIPS AND ALARMS, SP-PR-PR-0002
- 2) PROCESS SIZING CALCULATION - INSTRUMENTS AND LINES, SP-PR-CS-0001


**GENERAL NOTE**

- 1) FOR P&ID SYMBOLS, EQUIPMENT DESIGNATION, TYPICAL AND DETAILS ARRANGEMENT, REFER TO P&ID GRAPHIC SYMBOLS DRAWINGS 2055/2056/2057/2058.
- 2) EACH INSTRUMENT TAG NUMBER IS PREFIXED BY THE UNIT NUMBER OF THE IN WHICH IT IS INSTALLED. "23-032-" FOR SPD23. Example: 23-032-TSHL-161 FOR SPD23.
- 3) PIPING SHALL BE PROVIDED WITH DRAINS AT LOWEST POINT AND VENTS AT HIGHEST POINT.
- 4) FOR MECHANISM OF PUMP START/STOP AND PROCESS RELATION BETWEEN PUMP AND AUTOCLAVE'S PRESSURE AND LEVEL PLEASE REFER TO PROCESS DESCRIPTION.
- 5) ALL BALL VALVE WOULD BE FULL BORE.

**NOTES**

- 1) PRESSURE REGULATING VALVE SHALL BE ADJUSTED AT OPTIMUM PRESSURE THAT WATER CAN GOES THROUGH THE PIPE NETWORK.
- 2) HIGH PRESSURE: 5.2barg, LOW PRESSURE: 3barg. THE EXACT SET PRESSURE SHALL BE REACHED BY COMMISSIONING AT THE PLATFORM.
- 3) THE LOW LEVEL AT THE AUTOCLAVE, PERFORMS ALARM TO NOTIFY THAT THERE IS AIR FAILURE.
- 4) THE STAND-BY PUMP WILL RUN BY THE FAILURE OF OPERATING PUMP.
- 5) THE FAULT OF HEATER INSTALLED ON BOILER WILL BE MENTIONED ON LOCAL CONTROL PANEL.
- 6) AS IT MENTIONED IN DETAILED DRAWING THERE IS JUST ONE FAILURE ALARM SENDING TO PLATFORM CONTROL CENTER.
- 7) THERE IS JUST ON ESD SIGNAL TO SHUTDOWN THE PACKAGE FROM CCR. PLATFORM CONTROL CENTER.
- 8) THE SAMPLE CONNECTION SPECIFIED AS PER SP-P1-PR-DW-2169 REV3 TYPE 3 AND NEEDLE VALVE WILL BE ONE-WAY MANIFOLD (BLOCK AND BLEED).

REV.	DATE	DESCRIPTION	BY	CHECKED	APPR'D	APPR'D BY CLIENT
5	Jun-10	FOR REVIEW	M.A	M.N	M.A	
4	MAY-10	FOR REVIEW	M.A	M.N	M.A	
3	JAN-10	FOR REVIEW	M.A	M.S	M.A	
2	DEC-09	FOR REVIEW	M.A	M.N	M.A	
1	OCT-09	FOR REVIEW	M.A	M.N	M.A	
0	AUG-09	FOR REVIEW	S.K	M.A	M.A	

  
**N.I.O.C**  
**PARS OIL & GAS COMPANY**

PROJECT No.:	SPT7/18-P1-40-P0-0081	DOC CLASS:	2	SCALE:	N/A	PLOT:	A1
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SUPPLIER:

TITLE:

**PIPING AND INSTRUMENTATION DIAGRAM  
FRESH WATER PACKAGE**

DRAWING No.:	SP-SST-PR-DW-0001	SHEETS:	1 OF 1	Rev.:	5
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TAG NUMBER	23-032-P-101A/B
SERVICE	FRESH WATER DISTRIBUTION PUMP
TYPE	CENTRIFUGAL (BB4)
FLOW RATE (RATED)	2 m3/hr
DIFFERENTIAL HEAD	4.67 barg
FLUID SPEC. GRAVITY	0.992
DISCH. OPER. TEMP/PRESS	AMB/4.63barg
DESIGN TEMP/PRESS	85C/16
MOTOR TYPE/CONSUMPTION	ELECTRICAL/0.8
MATERIAL	SS316
MOTOR RATING	2.5KW

TAG NUMBER	23-032-E-101
SERVICE	BOILER
TYPE	ELECTRICAL ELEMENT
FLOW RATE (RATED)	2 m3/hr (MAX)
INLET TEMP/PRESS	AMB/4.6barg
OUTLET TEMP/PRESS	85C/4.6barg
DESIGN TEMP/PRESS	95C/9.5barg
HEATER POWER	3.5 kW
MATERIAL	SS316L
DIMENSION IDxH (SHELL)	500x1000

TAG NUMBER	23-032-X-102
SERVICE	AUTOCLAVE
TYPE	VERTICAL WITH BLADDER
OUTLET TEMP/PRESS (MAX)	55C/7.5barg
OPERATION PRESSURE	5.5barg
DESIGN TEMP/PRESS	95C/9.5barg
MATERIAL	SS316L
DIMENSION IDxH (SHELL)	600x1200

TAG NUMBER	23-032-X-101
SERVICE	UV STERILIZER
TYPE	ULTRA VIOLET LAMP
FLOW RATE (RATED)	2 m3/hr (MAX)
INLET TEMP/PRESS	AMB/4.63barg
DESIGN TEMP/PRESS	85C/9.5barg
LAMP POWER	170 W
MATERIAL	SS316L

THIS ISSUE SENT AT MAY-30-10