TAG NO	T-4206
DESCRIPTION	CIP TANK 1X100% (SINGLE VERTICAL TANK)
MEDIUM	POTABLE WATER/CLEANING FLUID
OPERATING CAPACITY m³	10
OPERATING TEMPERATURE °C	15 - 35
OPERATING PRESSURE bar g	ATM
DESIGN TEMPERATURE °C	-7.6 / 50
DESIGN PRESSURE bar g	FULL STATIC+0.07
DIMENSION LXWXH mm	2420 x 1705 x 3030
WEIGHT DRY/OPERATING/FLOODED ton	2.5 / 10.0 / 12.5
MATERIAL VESSEL	SS 316L
INTERNAL COATING	BELZONA 5811

TAG NO	H-4206
DESCRIPTION	CIP TANK HEATER 1X100% (IMMERSION)
MEDIUM	POTABLE WATER/CLEANING FLUID
POWER kW	220
OPERATING TEMPERATURE °C	35
OPERATING PRESSURE bar g	ATM
DESIGN TEMPERATURE °C	100
PRESSURE RATING #	150
MATERIAL	TITANIUM

TAG NO	P-4209A/B
DESCRIPTION	CIP UF PUMP 2x100% (CENTRIFUGAL)
MEDIUM	POTABLE WATER/CLEANING FLUID
CAPACITY m³/h	120
OPERATING TEMPERATURE °C	25
OPERATING PRESSURE bar g	3.85
DESIGN TEMPERATURE °C	-7.6 / 50
DESIGN PRESSURE bar g	16
DIFFERENTIAL HEAD bar	4.0
ABSORBED/RATED POWER kW	17.3 (SEE MD2-002) / 22
DRIVER	E-MOTOR / EEx d / e
MATERIAL PUMP	WETTED PARTS SS316
MATERIAL MOTOR	CAST IRON

TAG NO	F-4208
DESCRIPTION	CIP FILTER 1X100%
MEDIUM	POTABLE WATER/CLEANING FLUID
CAPACITY m³/h	160
FILTER PERFORMANCE µ	10
OPERATING TEMPERATURE °C	35
OPERATING PRESSURE bar g	6
DESIGN TEMPERATURE °C	-7.6 / 50
DESIGN PRESSURE bar g	18.5 / - FV
DIMENSION ODXTT mm	457 / 2219
WEIGHT DRY/OPERATING/FLOODED kg	915 / 1315 / 1315
MATERIAL WETTED PARTS	S/S 316L

TAG NO	P-4210
DESCRIPTION	CIP SR PUMP 1x100% (CENTRIFUGAL)
MEDIUM	POTABLE WATER/CLEANING FLUID
CAPACITY m³/h	160
OPERATING TEMPERATURE °C	35
OPERATING PRESSURE bar g	5.85
DESIGN TEMPERATURE °C	-7.6 / 50
DESIGN PRESSURE bar g	16
DIFFERENTIAL HEAD bar	6
ABSORBED/RATED POWER kW	36.72 (SEE MD2) / 55
DRIVER	E-MOTOR / EEx d / e
MATERIAL PUMP	WETTED PARTS SS 316
MATERIAL MOTOR	CAST IRON

CNOOC
SIEMENS

X-4210 UF & SR CIP UNIT

NOTES 1, 22, 25

NOTES

1. PIPING TO BE INSTALLED WITH HIGH POINT VENTS & LOW POINT DRAINS.
2. HEATER HAS LOCAL START/STOP (FOR SR CIP), TSH & TSHH ON ELEMENT TEMPERATURE. THE HEATER OPERATION IS FULLY AUTOMATIC FOR UF CIP AND IS MANUALLY OPERATED FOR SR MEMBRANES CIP.
3. FILL CONNECTION TO BE COLOR CODED AND CONNECTOR TO BE MECHANICALLY INCOMPATIBLE WITH CONNECTORS OF OTHER CHEMICALS. SEE P&ID: PY-4201-01.
4. HEATER & PUMP TO TRIP ON LALL.
5. INCLUDE SUBMERGED PIPES ON HIGH POINT TANK INLETS & VORTEX BREAKER ON PUMP SUCTION.
6. INCLUDE ANTI SIPHONED HOLE.
7. PUMP HAS A LOCAL EMERGENCY STOP WIRED DIRECT TO MCC (CLIENT SUPPLY) AND HARDWIRED START AND STOP COMMANDS FROM UCP TO MCC (CLIENT SUPPLY).
8. SAMPLING POINT FOR CHLORINE & pH CONTROL MEASUREMENT, VDS SP-1033
9. INCLUDES HEATER CONTROL.
10. DELETED.
11. ADDITIONAL CONNECTION FOR OTHER CHEMICALS.
12. VALVE TO BE OPERABLE WHERE FI-42199 IS VISIBLE. TO BE ADJUSTED DURING SR CIP CLEANING.
13. CARTRIDGE FILTER RATED FOR PH2-11 SOLUTION.
14. DELETED.
15. DELETED.
16. DELETED.
17. dP LEVEL TRANSMITTER
18. TT-42192 TO BE LOCATED BELOW HEATER.
19. FAIL MODE AS IS (LAST POSITION).
20. SEQUENCE FOR OPENING AND CLOSING VALVES ON SUCTION & DISCHARGE AND MOTOR TO AVOID MOTOR START ON CLOSED VALVES DURING SRU-CLEANING IS DESCRIBED IN OPERATING MANUAL.
21. MAGNETIC LEVEL GAUGE.
22. REFER TO P&ID LEGEND 168397-100-PR-PI-0001-01 TO 0012-01.
23. PUMPS INSTALLED ARE SELF VENTING HAVE DRAIN PIPE CONNECTION WITH 1/2" VALVE & FLANGE.
24. BUNDED AREA SIZED FOR LARGEST TOTE TANK (2.4 m³)
25. ALL MANUAL VALVES ARE EQUIPPED WITH LOCKING PLATE.
26. FOR ADDITION OF PROPYLENE GLYCOL FOR FROST PROTECTION.
27. HARDWIRED START AND STOP COMMANDS FROM UCP TO MCC (CLIENT SUPPLY).
28. CIP FILTER VENT.
29. REFER TO P&ID 168397-200-PO-3363-MC2-012 FOR DETAILS.
30. TEMPORARY ONLY. CONICAL STRAINER FOR COMMISSIONING AND START-UP.
31. VALVE TO BE OPERABLE WHERE FI-42232 IS VISIBLE.
32. VALVE EQUIPPED WITH LOCKING POSITION DEVICE TO AVOID COMPLETE CLOSING SP-2359 TO SATISFY MINIMUM FLOW OF PUMPS P-4209A/B AND P-4210.
33. HEAT TRACING ON PUMP SUMP AND CASING DRAIN.
34. DELETED.
35. DISCREPANCY ALARM WHEN FQI-52186 HAS INCREASING READING WHILE XV-52192 IS CLOSED.
36. UPSTREAM PIPING TO PSV IS OF MINIMUM LENGTH TO SECURE NO OR LITTLE AIR POCKET.
37. L1 AND L2 ARE OPERATING EVENTS AND NOT ALARMS.
38. DELETED.
39. COMMON BUNDED AREA FOR CIP AND HYPOCHLORITE DOSING UNIT.
40. L1 - SET 100 mm ABOVE HEATER. L2 - SET 100 mm ABOVE NOZZLE N10.
41. DELETED.
42. FUTURE AIR VENT CONNECTION.
43. MIN. 1:100 SLOPE.
44. BUND DRAIN PLUGGED.
45. FT-42232 IS PFA LINED.
46. T-4206 (CIP TANK) INTERNALLY COATED WITH BELZONA 5811
47. TEMPERATURE CONTROL FOR CIP TANK HEATER PROVIDED BY TT-42237 ONCE FLOW IS ESTABLISHED EITHER VIA FT-42232 OR P-4210/P-4209A/B PUMP RUNNING SIGNAL.
48. LOGIC ALLOWS THE CIP TANK HEATER TO BE TURNED ON WHEN UF CIP SEQUENCE IS NOT ACTIVE ALLOWING THE TEMPERATURE WITHIN TANK T-4206 TO BE MAINTAINED.

TIE-IN	SIZE	TYPE	RATING	SERVICE
TP6	2"	RF	SCHEDULE 10S, #150	ALKALI CLEANING CHEMICAL
TP7	2"	RF	SCHEDULE 10S, #150	ACID CLEANING CHEMICAL
TP27	2"	RF	SCHEDULE 10S, #150	PROPYLENE GLYCOL

Revision 11 – Issued As-Built by CB&I as per Nexen Site Red Line Mark-Up.

SIEMENS DRW:	51PO-03733.410-H-006				SIEMENS REV:	10
Z9	10.07.2019	AS-BUILT FOR GMOC0054	LM	JL	JL	TR
Z8	21.12.2018	AS-BUILT FOR GMOC0286	ppSB	JL	JL	TR
Z7	15.11.2018	AS-BUILT FOR GMOC0145	LM	JL	JL	TR
Z6	27.08.2018	AS-BUILT FOR GMOC0156	LM	JL	JL	TR
Z5	01.05.2018	AS-BUILT FOR GMOC0307 & GMOC0231	LM	JL	JL	TR
Z10	15/10/2020	AS-BUILT FOR GMOC0096	~~LM~~	~~JL~~	~~JL~~	TR
REV	DATE	DESCRIPTION	DRN	CHK	APP	CLT

CNOOC Limited
Golden Eagle Area Development

VENDOR : SIEMENS (WORLEYPARSONS)

EQUIPMENT TITLE: PIPING & INSTRUMENT DIAGRAM (P&ID) UF & SR CIP UNIT (X-4210)

EQUIPMENT TAG NO(S) : X-4210

GEAD Vendor Document Number

Purchase Order Number	Doc Type Code	Seq. No.	Rev.	DATE
168397-200-PO-3363 – MC2 – 006			Z10	15/10/20

INCLUDES DOCUMENT CODES : TOTAL SHEETS : 1

	F	Final (accepted) – manufacturing may proceed.
	A	Qualified Release – revise and re-submit. Manufacturing may proceed subject to incorporation of comments.
	R	Rejected – revise and re-submit. Manufacturing may not proceed.
	I	Accepted for information only.

Review of Vendor documents does not relieve Vendor of the responsibility for correctness under the Purchase Order. Permission to proceed does not constitute acceptance of design, detail and calculations, test methods or materials developed or selected by the Vendor and does not relieve the Vendor from full compliance with the Purchase Order or any other obligations, nor detract from any of the Purchaser's rights.

Engineer : Date:

FILENAME: \\ABZ3-FS1\SHARED\PROJECTNEX\EN\GOLDEN EAGLE\WORK\SCOPE\SIGMOC0096 SRP PIPEWORK REPLACEMENT\PROCESS\P&IDS\AS-BUILDING UPDATE\168397-200-PO-3363-MC2-006_Z10.DWG (PRINTED: 15/10/2020 10:33:02)