

 中海油石化工程有限公司 CNOOC Petrochemical Engineering Co., Ltd.	DATA SHEET FOR BLOW OFF HATCH FOR BUN	Job No.		243007D0796		
		Doc. No.		WS10D04		
		Phase		DETAILED DESIGN		
		Rev.	A	Page 1 of 3		
Client:	 CMIT CNOOC IRAQ LIMITED					
Project:	WATER INJECTION STATIONS EXPANSION PROJECT					
Unit:	BUN WATER INJECTION STATION					
Company's Doc. No.:	CMIT-230084-1-796-PCS-15.17-10-0004					
Discipline: PCS PIP (MP) Prepared by: Sun X.P. Liu X.Y. 20250305 Checked by: Lu X.H. Ma X.R. 20250305 Approved by: Liqiang Chou D.L. 20250305						
A	ISSUED FOR REVIEW	Sun.X.P.	Lu.X.H.	Li.Q.		20250305
Rev.	Description	Prepared	Checked	Approved	P.A.	Date



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Rev.	A	Page 2 of 3
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Contents

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Job No.	243007D0796	
Doc. No.	WS10D04	
Phase	DETAILED DESIGN	
Rev.	A	Page 3 of 3

1	TAG No.	BOH-2745401C
2	Service	WATER INJECTION TANK(NEW)
3	Tank No.	TK-274540C
4	Tank Capacity m ³	2000
5	Tank Dimension m	14.9(D)X12.87(H)
6	P&ID No.	CMIT-230084-1-796-PCS-15.11-10-0002
7	Purpose of valve	Emergency Relief
8	Quantity	1
9	Design/Operating Data	
10	Design pressure kPaG	-0.5~5.0
11	Design Temperature °C	99
12	Operating Pressure kPaG	3.4/-0.3
13	Operating Temperature °C	75
14	Set Relief Pressure kPaG	4
15	Re-seating Pressure kPaG	3.6
16	% of Allowable Overpressure	10%
17	Emergency Venting Capacity Nm ³ /hr	VTA
18	Fluid	Mixture of Steam and Hydrocarbon Gas
19	Inlet Pressure Loss kPa	0
20	Diff of Open and Close Pressure	10%
21	Test Pressure of Leakage kPaG	3
22	Details of Offered Valve	
23	Manufacturer	
24	Valve Type	Spring
25	Connection Flange Size	24"
26	Connection (ASME Rating/Type)	150#/WN/ RF ASME B16.5
27	BOH Size	24"
28	NACE Service	Y
29	Body Material	CS A216-WCB(NACE)
30	Seat Material	SS316L
31	Pallet Material	SS316L
32	O-ring Material	FFKM
33	Stainless Steel Tag Required	Y
34	Overall Height	by Vendor
35	Weight	by Vendor
36	Sizing based on - Free Air	
37	Atmospheric Pressure kPaA,At	102
38	Compressibility Factor,Z	1
39	Specific Heats kJ/(kmole.°C),K	29.064
40	Relief Temperature °C,T	75
41	Molecular Weight,M	29

Notes:

- 1.VENDOR shall provide GA drawing of BOH indicating overall dimensions,material of various parts construction of along with the offer. VENDOR shall provide product structure drawings and instructions.
2. All materials indicated herein are the minimum requirements. Vendor shall provide detailed bill of materials as part of his offer; the VENDOR may adjust (or upgrade as necessary) appropriately according to process conditions. And it can only be produced after confirmation by the PURCHASER. All materials used shall be of ASTM grade only unless otherwise specified.
3. VTA: Vendor To Advise. VTC: Vendor To Confirm.
4. Pressure bearing parts shall be certified in accordance with EN 10204 Type 3.1. Non-pressure bearing parts shall be certified in accordance with EN 10204 Type 2.2.
- 5.The quality of injection water : Salt Content: 199300mg/l; Cl⁻: 162000mg/l; SS: <5mg/l; H₂S: ≤30mg/l; Oil Content: ≤10mg/l.
- 6.The performance testing for the BOH refer to ISO28300/API 2000, the VENDOR shall supply the testing report and the related documments. The leakage test must be carried out according to ISO28300 /API2000. Provide information such as photos of leakage testing instrument and leakage test report.
- 7.VENDOR shall complete this data sheet and confirm materials listed above.
8. The matching flanges, gaskets, bolts & nuts with the BLOW OFF HATCH shall be provided by vendor and in accordance with CMIT-230084-1-796-PIP-15.03-00-2011_SPECIFICATION FOR PROCESS PIPING MATERIALS.
9. (NACE) indicates that the material meets the requirements of NACE MR 0175/ISO 15156.
10. Painting shall meet CMIT-230084-1-796-PAI-15.03-00-2001_SPECIFICATION FOR PAINTING. The color of painting shall meet CMIT-230084-1-796-PAI-15.03-00-2002_SPECIFICATION FOR COLOUR OF EXTERNAL PAINTING.
11. The allowable overpressure will be no more than 10%, and the VENDOR shall supply the related technical documents.