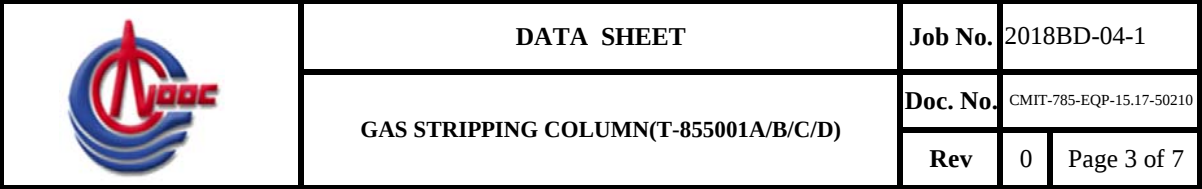


	DATA SHEET		Job No.	2018BD-04-1	
	GAS STRIPPING COLUMN(T-855001A/B/C/D)		Doc. No.	CMIT-785-EQP-15.17-50210	
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CHANGE RECORD PAGE

REVISION	DESCRIPTION OF REVISION
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0	ISSUED FOR BID
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REVISION TABLE

[illegible]

		DATA SHEET				Job No. 2018BD-04-1		
		GAS STRIPPING COLUMN(T-855001A/B/C/D)				Doc. No. CMIT-785-EQP-15.17-50210		
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1	Equipment Name:	GAS STRIPPING COLUMN		Unit Name:	OILY WATER TREATMENT PLANT- TRAIN D		Unit :	785
2	Tag Number:	T-855001A/B/C/D		Client:	CNOOC IRAQ LIMITED			
3	Quantity:	4		Manufacturer:				
4	Rev.	Process Data						
5	Operation Conditions & Medium Properties				components			
6	Service:	Sour Gas /Sour Water		Main components	--			
7	OPERATING PRESSURE	MPa.g	TOP:0.15 BOT:0.165	TOP:Sour Gas			H ₂ S 4.49% (mol);	
8	OPERATING TEMPERATURE	°C	80	BOT:Sour Water			H ₂ S<30ppm;Cl ⁻ :160000ppm	
9	GAS FLOWRATE(15.5°C,1atm)	m ³ /h		Medium Hazard Characteristics			Inflammable,Explosive,Toxic	
10	GAS DENSITY	kg/m ³	1.964					
11	GAS VISCOSITY	cP						
12	LIQUID FLOWRATE	m ³ /h	250					
13	LIQUID DENSITY	kg/m ³	~1000					
14	SET PRESSURE OF SAFETY VALVES	MPa.g	0.35					
15								
16								
17								
23	Design Criteria							
24	Design Code:	ASME Sec. VIII-1, Latest ED		Design Life:	Years	25		
25	Design Temperature:	°C	100	Ambient Temperature:	°C	Min. -5 Max. 55		
26	Design Pressure:	MPag	0.35	Min. Design Metal Temperature:	°C	-5		
27	External Design Pressure:	MPag	N/A	Max Allowable External Working Pressure:	MPag	N/A		
28	Shell Inside Diameter:	mm	1800/2000	Medium:	☐ Sweet ☒ Sour ☐ Lethal ☒ Wet H ₂ S			
29	Shell Length:	mm	10000/7600/17600(T/T)	Location:	☐ Indoor ☒ Outdoor ☐ Underground (Buried)			
30	Skirt Inside Diameter	mm	2000	Under Shed:	☐ Yes ☒ No			
31	Skirt/Leg Height:	mm	3250	Vessel Type:	☐ Horizontal ☒ Vertical			
32	Capacity:	m ³	50.5	Head Type:	☒ 2:1 Semi-Ellipse ☐ Other Type			
33	Corrosion Allowance:	mm	Shell: 0, Head: 0, Nozzles:0	Liquid Level:	mm			
34	Max. Design Wind Speed:	km/hr	140	Thickness (Shell/Head):	mm	By vender		
35	Seismic Zone:	--	2B	Thickness (Skirt):	mm	By vender		
36	Joint Efficiency:	--	Shell: 1 Head:1	NET WEIGHT	kg	By vender		
37	Max. Allowable Working Pressure:	Mpag	By vender	Full of Water WEIGHT	kg	By vender		
38	MAP (New & Cold):	MPag	By vender	Operating WEIGHT	kg	By vender		
39	Insulation Thickness:	mm	60	Internal Lining / Coating:	By vender			
40	Hazardous Area Classification:			External Paint System:	CILBCFQ-710-EQP-15.03-10088			
41	General specification	CILBCFQ-710-EQP-15.03-10072		Official language	ENGLISH			
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		DATA SHEET				Job No. 2018BD-04-1	
		GAS STRIPPING COLUMN(T-855001A/B/C/D)				Doc. No. CMIT-785-EQP-15.17-50210	
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1	Rev.	Internal & External Attachments					
2	Type of Support:	☐ Saddle ☒ Skirt ☐ Leg		Demister:		☒ Yes ☐ No	
3	Manway with Davit/Hinge:	☒ Yes ☐ No		Trays (Seive)		☐ Yes ☒ No	
4	Vortex Breaker:	☒ Yes ☐ No		Skid Mounting:		☐ Yes ☒ No	
5	Insulation Supports/Clips:	☒ Yes ☐ No		Ladders & Platforms:		☒ Yes ☐ No	
6	Heating Coil:	☐ Yes ☒ No		Inner Ladder Rung:		☒ Yes ☐ No	
7	Lifting Lugs:	☒ Yes ☐ No		Sacrificial Anodes:		☐ Yes ☒ No	
8	Tailing Lugs:	☒ Yes ☐ No		Spill Over Weir:		☐ Yes ☒ No	
9	Internal Pipes:	☐ Yes ☒ No		FEED Inlet Distribution:		☐ Yes ☒ No	
10	Earthing Boss:	☒ Yes ☐ No					
11	Materials						
12	Material Code:	ASME BPVC SEC. II ,Latest ED		Nozzles (Pipe):		S31803	
13	Shell:	SA516Gr.60+S31803		Nozzles (Plate):		S31803	
14	Head:	SA516Gr.60+S31803		Nozzles (Forged):		S31803	
15	Skirt/saddle/leg:	SA516Gr.60		Flanges:		S31803	
16	Tray:	N/A		Backing Plate Welded to Shell:		SA-516 Gr.60	
17	Bolts:(External)	SA193 Gr.B7M		Basing Ring / Anchor Chair:		SA-516 Gr.60	
18	Nuts:(External)	SA194 Gr.2HM		Internals Fixed/Removable		S31803	
19	Insulation :			Insulation Supports/Clips:		SA-36	
20	Lifting Lugs:	SA-36		Name Plate & Earthing Boss:		SS304	
21	Sacrificial Anodes:	N/A		Nozzle Flanges Gasket:		Spiral Wound Flexible Graphite Gaskets with SS316L Winding,316L Inner &Outer Rings	
22	Fabrication and Testing Requirements						
23	Non-destructive Testing				Fabrication Code:		ASME BPVC Sec. VIII Div. 1 ,Latest ED
24	Joint Category	Test Means	Test Ratio	Grade	NDE Code:	ASME BPVC Sec. V, Latest ED	
25	A	SHELL	RT	FULL	UW-51	Welding Code:	ASME BPVC Sec. IX, Latest ED
26						Impact Test:	☐ Yes ☒ No
27		HEAD	RT	FULL	UW-51	Stress Relief (PWHT):	☐ Yes ☒ No
28						Positive Material Identification:	☒ Yes ☐ No
29	B	RT	FULL	UW-51	HIC Testing:	☐ Yes ☒ No	
30					Hydraulic Test Pressure:	MPa(g)	As per Code
31	C	NOZZLE NPS > 10 or THK. > 29mm	RT	FULL	UW-51	Hardness Test	As per Code
32		OTHER	MT/PT	FULL	Appendix 6&8	Third Party Inspection:	☒ Yes ☐ No
33	D	MT/PT	FULL	Appendix 6&8	Code Stamp Required:	☐ Yes ☒ No	
34	NOTES						
35	1. Vendor shall complete this data sheet and confirm materials listed above.						
36	2. Thickness to be confirmed during detailed engineering.						
37	3. Nozzles orientation will be given later.						
38	4. Third Party Inspection is specified by the owner.						
39	5. Ladder & Platform shall be provided as per CILBCFQ-710-EQP-15.03-10082						
40	6. Applicable Specifications: CILBCFQ-710-EQP-15.03-10071.						
41	7. Insulation Specification: CILBCFQ-710-EQP-15.03-10033.						
42	8. Material certification requirement shall be EN 10204 Type 3.1.						
43	9. Skirt shall be fireproofed.						
44							
45							
46							

