

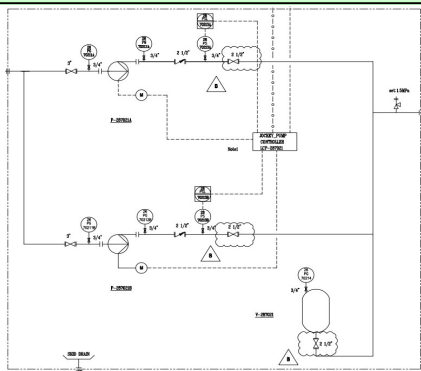
 <div>中海油石化工程有限公司 CNOOC Petrochemical Engineering Co., Ltd.</div>	DATA SHEET FOR JOCKEY PUMP SKID (Y-287021)	Owner Doc.No.		CMIT-240048-728-ROT-15.17-0014		
		Job's Doc. No.		253001D0728ME00D14		
		Phase		Detailed Design		
		Rev.		A	Page 1 of 2	
Company:  CMIT CNOOC IRAQ LIMITED						
Project: FQN NEW DEGASSING STATION UPGRADING PROJECT						
Unit: FQN DEGASSING STATION						
Contract No.: CMIT-PRT-10.53-240048						
<div>Discipline: ROT</div> <div>Prepared by: Liu H.Q.</div> <div>Checked by: Xie Long</div> <div>Approved by: Huang J.D.</div>						
A	ISSUED FOR REVIEW	Liu Hanqi	Xie Long	Huang Jingdong		20251011
Rev.	Description	Prepared	Checked	Approved		Date

 中海石油石化工程有限公司 CNOOC Petrochemical Engineering Co., Ltd.			DATA SHEET FOR JOCKEY PUMP SKID (Y-287021)		Owner Doc.No. CMIT-240048-728-ROT-15.17-0014 Job's Doc. No. 253001D0728ME00D14 Phase Detailed Design Rev. A Page 2 of 2	
1	APPLICABLE TO: PURCHASE		APPLICABLE NTL/INTNTL STANDARD:		NFPA20	
2	FOR CNOOC IRAQ LIMITED		MANUFACTURER		*	
3	SITE MISSAN OIL FIELD, MISSAN PROVINCE, IRAQ		TYPE			
4	UNIT FQN DEGASSING STATION		MODEL		*	
5	SERVICE JOCKEY PUMP SKID		NO. STAGES		*	
6	ITEM NO. Y-287021 NO. REQ 1		SERIAL NO.		*	
7	OPERATING DATA		SITE DATA			
8	CAPACITY (RATED) (m ³ /h)	18	NOISE		MAX 85 dB(A) @ 1m	
9	DIFFERENTIAL (RATED) HEAD (m)	105	AMBIENT TEMP. RANGE (°C)		-5~55	
10	DIFFERENTIAL PRESSURE (MPa)	1.05	LOCATION		OUTDOOR / SHELTERED	
11	OPERATING TEMPERATURE (°C)	20~40	ELEVATION (m ASL)		4~24	
12	PUMPED LIQUID	FIRE WATER	RELATIVE HUMIDITY (%)		25~80	
13	DENSITY @ NORMAL P/T (40°C) (kg/m ³)	992.5	DESIGN DATA			
14	VISCOSITY @ NORMAL P/T (40°C) (Cp)	0.6527	DESIGN CODE		NFPA 20 Edition 2025	
15	VAPOUR PRESSURE @ NORMAL P/T (40°C)	7.4	SPECIFICATION		CMIT-740-ROT-15-03-10024	
16	AVAILABLE NPSH (m)	7	CAPACITY (MAX/MIN) (m ³ /h)		* / *	
17	DRIVER DATA		DIFFERENTIAL (MAX/MIN) HEAD (m)		* / *	
18	DRIVER TYPE	MOTOR	DESIGN PRESSURE (MPa)		1.6	
19	MOTOR TYPE	*	DESIGN TEMPERATURE (°C)		60	
20	ELECTRICAL AREA CLASSIFICATION	NON-HAZARDOUS	PUMP QTY (Per Set)		2	
21	MANUFACTURER	*	BUFFER TANK EFFECTIVE VOLUME (m ³)			
22	POWER (each) (kW)	*	BUFFER TANK DESIGN			
23	ENCLOSURE	IP55	PRESSURE/TEMP. (MPa/°C)		* / *	
24	MOTOR VOLTAGE (V)	400	SERVICE LIFE (YEARS)		25	
25	MOTOR SPEED (rpm)	*	NATURE OF LIQUID		Cl	
26	TEMPERATURE RISE	B	(CORROSIVE/EROSIVE) DUE TO:			
27	INSULATION CLASS	F	SALINITY (ppm)		5,150	
28	COOLING TYPE	AIR	CHLORIDE (ppm)		8,280	
29	FAN VOLTAGE (V)	*				
30	FAN POWER (kW)	*				
31	STRUCTURE					
32	PRESSURE (BUFFER) TANK TYPE	VERTICAL	JOCKEY PUMP TYPE		CENTRIFUGAL (VERTICAL)	
33	TANK'S INSIDE SHELL DIAMETER (mm)	800	LUBRICATION TYPE			
34	TANK EFFECTIVE VOLUME (Liter)	300	SEAL TYPE		MECHANICAL SEAL	
35	TANKS NUMBER (Per Set)	1	CONNECTION OF BEARING		ELASTIC FIXING OR BRACHY AXIS CONNECTING	
36	EQUIPPED SUPPLY PUMP (QTY)	2 (1 WORK + 1 STANDBY)	PRESSURE SENSING LINE		Comply with NFPA20-4.32.3 *	
37	SUCTION CONNECTING PATTERNS	FLANGE (RF), DN80 *	CONNECTION			
38	DISCHARGE CONNECTING PATTERNS	FLANGE (RF), DN65				
39	CONSTRUCTION MATERIAL (Note 5)					
40	PUMP BODY	ASTM CLASS 35/40B	SHAFT		AISI 316	
41	CASING	AISI 316L	SHAFT SLEEVE		*	
42	IMPELLER(S)	AISI 304	PACKING		*	
43	PRESSURE (BUFFER) TANK	CARBON STEEL (ASTM A36)				
44	WEIGHT					
45	PUMP (kg)	*	DRIVER (kg)		*	
46	BUFFER TANK (kg)	*	OTHERS (kg)		*	
47	TOTAL(kg)	*				
48	SHIPMENT					
49	DOMESTIC / EXPORT	EXPORT	OUTDOOR STORAGE MORE THAN 12 MONTHS		YES	
50	EXPORT BOXING REQUIRED	YES				
51						
52	NOTES:					
53	1. The Pump Skid shall be supplied with the Jockey Pumps, Pressure Tank, Controller, Pressure Meter, Pressure Sensing Line, Check Valve, etc.					
54	For details of the Pump Skid's Scope of Supply and Battery Limit, please revert to PID (CMIT-240048-728-FFS-15.11-0103).					
55	2. The Jockey Pump Controller must be UL-Listed and the Sensing Line must be independent of the Main Pump Controller Sensing Line.					
56	The Controller must be sized for the Jockey Pump Motor's Horsepower and Voltage.					
57	3. All Pump Nozzles shall be WNRF ASME B 16.5 designed and equipped with its Companion Flange and Accessories (Bolts, Nuts, Gaskets, etc.).					
58	4. The Pump's Acceptance Tests (including Field Test) shall be as per NFPA 20 (Chapter 14). Only missing parts shall be based on ISO5199.					
59	5. The Vendor shall provide Material Test Certificates (MTCs) for the Pump's Pressure Components, Impellers, and Shaft.					
60	6. Pump, motor, local starter, control panel and other associated auxiliaries housed in control panel shall be mounted on common base plate.					
61	7. All necessary Power/Control Panels, Instruments, Cabling, and Junction Boxes shall be supplied by the Vendor.					
62	All Electrical Components, Clearances, and Wiring shall meet the NFPA 70 requirements.					
63	8. The Pump's Total Discharge Pressure at Shutoff condition shall not exceed the downstream Fire Protection System's Rating Pressure;					
64	otherwise, a Relief Valve sized to prevent the System's overpressuring shall be supplied by the Vendor as part of the Skid Package.					
65	INSPECTION AND TESTING (Note 4)			DRAWING SNAPSHOT		
66	SHOP TESTS	REQ'D	WITNESS			
67	PERFORMANCE (COMPLETE UNIT) SHOP	YES	YES			
68	AND AT SITE	YES	YES			
69	NPSH	YES	YES			
70	HYDROSTATIC	YES	YES			
71	PUMP SPEED DURING PERFORMANCE	YES	YES			
72	TEST	YES	YES			
73	SOUND LEVELS	YES	NO			
74	MECHANICAL RUN	YES	YES			
75	BALANCING (STATIC / ROTATING)	YES	NO			
76	PACKING (SEAWORTHY / LONG TERM)	YES	YES			
77						
78						
79						
80						
81	* To be filled and confirmed by the Vendor.					