

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک							 	
	PROCESS DATA SHEETS FOR POTABLE WATER PUMP								
شماره پیمان: 053 - 073 - 9184	پروژه BK	بسته کاری GCS	صادرکننده PEDCO	تجهیزات 120	رشته PR	نوع مدرک DT	سریال 0026	نسخه D04	شماره صفحه: 1 از 3

طرح نگهداشت و افزایش تولید 27 مخزن

PROCESS DATA SHEETS FOR POTABLE WATER PUMP

نگهداشت و افزایش تولید میدان نفتی بینک

D04	AUG.2023	AFC	M.Aryafar	M.Fakharian	A.M.Mohseni	
D03	OCT.2022	AFC	M.Aryafar	M.Fakharian	M.Mehrshad	
D02	AUG.2022	IFA	M.Aryafar	M.Fakharian	M.Mehrshad	
D01	FEB.2022	IFA	M.Aryafar	M.Fakharian	M.Mehrshad	
D00	NOV.2021	IFC	M.Aryafar	M.Fakharian	M.Mehrshad	
Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval

Class: 1 CLIENT Doc. Number: F0Z-708770

status:

IDC: Inter-Discipline Check

IFC: Issued For Comment

IFA: Issued For Approval

AFD: Approved For Design

AFC: Approved For Construction

AFP: Approved For Purchase

AFQ: Approved For Quotation

IFI: Issued For Information

AB-R: As-Built for CLIENT Review

AB-A: As-Built -Approved

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	PROCESS DATA SHEETS FOR POTABLE WATER PUMP								
شماره پیمان: 053 - 073 - 9184	پروژه BK	بسته کاری GCS	صادر کننده PEDCO	تسهیلات 120	رشته PR	نوع مدرک DT	سریال 0026	نسخه D04	شماره صفحه: 2 از 3

REVISION RECORD SHEET

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PROCESS DATA SHEETS FOR POTABLE WATER PUMP		
شماره پیمان: 053 - 073 - 9184	پروژه: BK بسته کاری: GCS صادر کننده: PEDCO تهیلات: 120 رشته: PR نوع مدرک: DT سریال: 0026 نسخه: D04	شماره صفحه: 3 از 3

1	Note		Rev
2	GENERAL DATA		
3	Type		
4	☒ Centrifugal ☐ Positive displacement		
5	Centrifugal	☒ Horizontal ☐ Vertical	
6	Positive displacement	☐ Reciprocating ☐ Rotary ☐ Metering	
7	Item P-2209	No. of Main/Stand By Units 1 / 0	
8	Service Potable Water Pump	Installation (Indoor-Outdoor-Other) Outdoor	
9	Operation	☐ Continuous ☒ Discontinuous ☐ Parallel ☒ Single	
10	Type of Driver	Electrical Motor	
11	CHARACTERISTICS OF HANDLED LIQUID		
12	Type of Handled Liquid	Potable Water	
13	Pumping Temp.e (Min. / Max.)	°C 5 / 50	
14	Density at Min. / Norm / Max. Temp.	kg/m³ / 1024 /	
15	Viscosity At Min. / Normal / Max. Temp.	cP / 1.6 /	
16	Vapour Pressure at Max. Pumping Temp.	bara 0.1	
17	Freezing Point / Pour Point	°C	
18	Dissolved Gas	Yes-No	
19	Corrosive / Erosive / Hazardous Agents / Flammable	Yes-No No / No / No / No	
20	Suspended solids (Type / Dimen. / Vol.%)	mm / /	
21	OPERATING CONDITIONS		
22	Suction Pressure (Min/ Max.)	barg -0.05 / 0.15	
23	Discharge Pressure at Rated Capacity	barg 2.95	D04
24	Differential Pressure at Rated Capacity	bar 3	D04
25	Capacity (Min. / Normal / Rated)	m³/hr / 5 / 5.5	Note 1
26	Head at Rated Capacity	m 29.9	D04
27	NPSH Available	m 8.6	Note 7
28	Max Allowable Pressure at Shut-Off	barg 3.80	D04
29	Hydraulic Power	kW 0.5	D04
30	Reacceleration	Yes-No No	
31	Automatic Start-Up	Yes-No No	
32	Start-Up with Delivery Valve	☐ Open ☒ Close	
33	Flow Controlled By	☐ Pressure Controller ☐ Level Controller ☐ Flow Controller ☒ Other	
34	DESIGN CONDITIONS		
35	Design Temperature: Min / Max	°C 5 / 85	
36	Design Pressure	barg 2.60	
37	MECHANICAL DATA		
38	Contamination of Liquid Handled Allowed	Yes-No No	
39	Air Entrainment Allowed	Yes-No No	
40	Leaks Allowed	Yes-No Yes	Note 6
41	Antifreezing Protection	Yes-No No	
42	Suction Line: Diameter	in 2"	
43	Discharge Line: Diameter	in 2"	
44	Mat. in Contact with Liq. Handled (Min.)	API 610, Cl. I-2	Note5
45	Note		
46	1 Design (rated) flow rates is 110 % of normal flow rate.		
47	2 Deleted		
48	3 Deleted		
49	4 API Plan 11 shall be considered.		
50	5 (Vendor to confirm)		
51	6 Applicable :ISO 5199, IPS-M-PM-115.		
52	7 Margin between NPSHA and NPSHR shall not be less than 1 m.		
53	8 Refer to hazardous area classification layout, all instrumentation and electrical devices shall be suitable for: safe area		
54	9 For P&ID refer to BK-GCS-PEDCO-120-PR-PI-0024		
55	10 Minimum Design Metal Tem (MDMT) = 5		

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