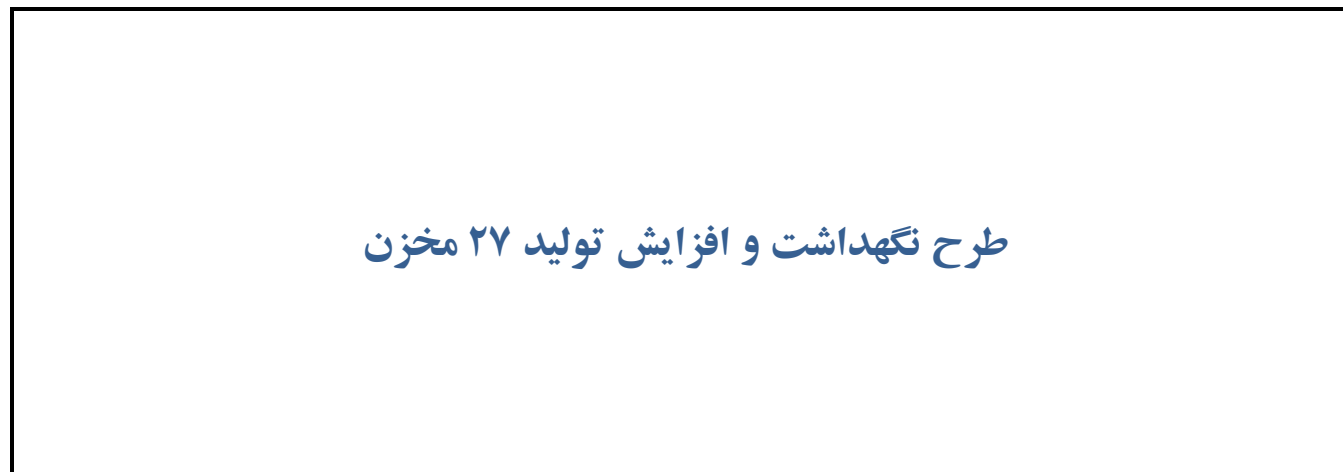


 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید پکیج پمپ های آب آتشنشانی ایستگاه تقویت فشار گاز بینک (قرارداد BK-HD-GCS-CO-0023_00)							 مکرت تهر تهر ایران  Kalaye Pump Co.	
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	GAD FOR FIRE WATER JOCKEY PUMPS								شماره صفحه : ۱ از ۳
	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	
	BK	GCS	KP	120	ME	DW	0003	V00	



V00	DEC. 2024	IFA	Kalaye Pump	M.Fakharian	S.Faramarzpour	
Rev.	Date	Purpose of Issue/Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval

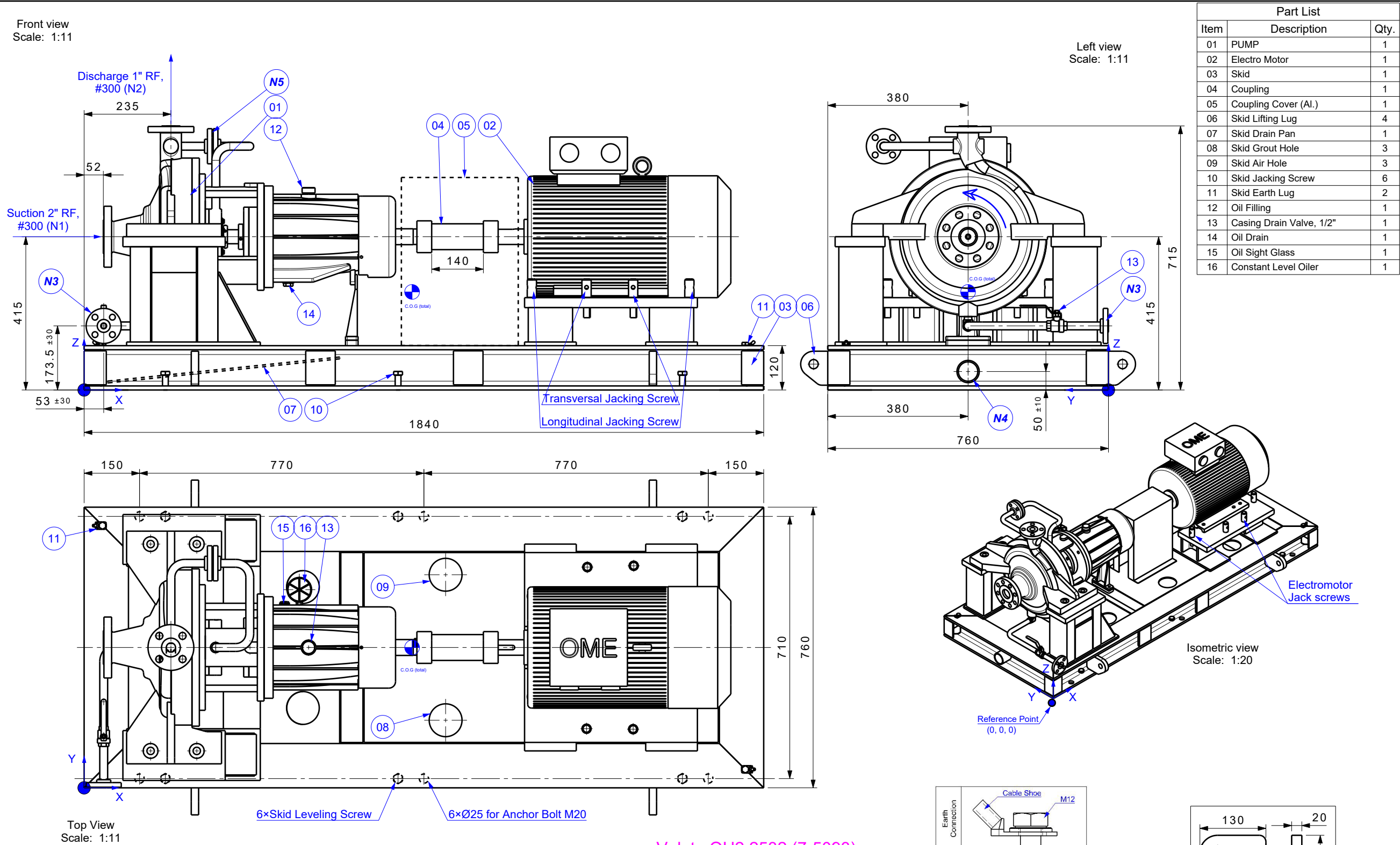
Status: IFA: Issued for Approval IFI: Issued for Information AFC: Approved for Construction
--

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید پکیج پمپ های آب آتشنشانی ایستگاه تقویت فشار گاز بینک (قرارداد BK-HD-GCS-CO-0023_00)							 HIRGAN ENERGY شرکت توسعه و پیمانکاری Kalaye Pump Co.	
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	GAD FOR FIRE WATER JOCKEY PUMPS							شماره صفحه: ۲ از ۳	
	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
	BK	GCS	KP	120	ME	DW	0003		V00

REVISION RECORD SHEET

PAGE	V00	V01	V02	V03	V04
1	X				
2	X				
3	X				
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
41					
42					
43					
44					
45					
46					
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
60					
61					
62					
63					
64					
65					

PAGE	V00	V01	V02	V03	V04
66					
67					
68					
69					
70					
71					
72					
73					
74					
75					
76					
77					
78					
79					
80					
81					
82					
83					
84					
85					
86					
87					
88					
89					
90					
91					
92					
93					
94					
95					
96					
97					
98					
99					
100					
101					
102					
103					
104					
105					
106					
107					
108					
109					
110					
111					
112					
113					
114					
115					
116					
117					
118					
119					
120					
121					
122					
123					
124					
125					
126					
127					
128					
129					
130					



Part List		
Item	Description	Qty.
01	PUMP	1
02	Electro Motor	1
03	Skid	1
04	Coupling	1
05	Coupling Cover (Al.)	1
06	Skid Lifting Lug	4
07	Skid Drain Pan	1
08	Skid Grout Hole	3
09	Skid Air Hole	3
10	Skid Jacking Screw	6
11	Skid Earth Lug	2
12	Oil Filling	1
13	Casing Drain Valve, 1/2"	1
14	Oil Drain	1
15	Oil Sight Glass	1
16	Constant Level Oiler	1

- NOTES
1. All dimension are in millimeter.
 2. Flange faces are in accordance with ASME B16.5 for diameter 24" or less and ASME B16.47 series 'A' for 26" and above.
 3. Tolerances for general outline drawing are based on ASME Y14.5 Standard.
 4. For maintenance, the heaviest pump part is casing cover which is 150 kg.
 5. KPC volute pumps are self vent.
 6. Pumps with item no. P-2302 A/B are identical.
 7. Mechanical seal plan is 11+61.
 8. The skid drain pan shall be filled completely with non-shrinkage grout or similar. (G2)
 9. All sensors and instrument for diesel pump is gathered in local control panel.
 10. Each pump (diesel, electrical and jockeys) includes one CRV 1"
 11. All Items and instruments outside the pump baseplate, will be referenced in doc. no. BK-GCS-KP-120-IN-DW-0004.
 12. Dynamic load acts in rotational direction on a plane perpendicular to pump shaft which contains total COG.

Item	Center of Gravity Coordinate		
	Gx	Gy	Gz
Pump	340.5	380.5	359
Driver	1543	380	465
Skid	988	380	138
Total	888	380	265.5

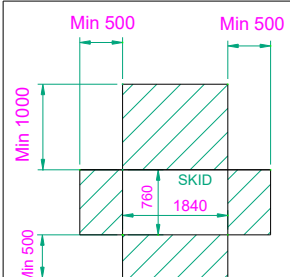
Static Load	Dynamic Load
7936 N	F=304 N

LEGEND

REFERENCE DRAWING	DRG. No.
DATA SHEETS (W/PERFORMANCE CURVE) FOR FIRE WATER JOCKEY PUMPS	BK-GCS-KP-120-ME-DS-0003
CROSS SECTIONAL DWG FOR FIRE WATER JOCKEY PUMPS	BK-GCS-KP-120-ME-DW-0007
COUPLING ASSEMBLY DWG FOR FIRE WATER JOCKEY PUMPS	BK-GCS-KP-120-ME-DW-0010
MOTOR DATA SHEET FOR FIRE WATER MAIN JOCKEY PUMPS	BK-GCS-KP-120-EL-DS-0002

KEY PLAN

Electric Motor Specificaion						
Manufacturer	Frame Size	Power	Speed	Protection	Frequency	Voltage
OME	18.5	160	2950 rpm	Safe Area IP55	50 Hz	400 V



NOZZLE TABLE							
Item	Description	Type	Size	Qty.	Facing	Rating	Position
N1	Suction	Flange	2"	1	RF	#300	End
N2	Discharge	Flange	1"	1	RF	#300	Top
N3	Casing Drain	Flange	1/2"	1	RF	#300	Side
N4	Skid Drain	Coupling	2"	1	Female Thread	Sch. 40	End
N5	Plan 11 Orifice	Flange	1/2"	2	RF	#300	End

External Force & Moments (2xAPI)							
	Fx	Fy	Fz	Mx	My	Mz	Resultant
	(KN)			(KNm)			
Discharge 1"	1.42	1.16	1.78	0.92	0.46	0.70	FR : 2.56 MR : 1.24
Suction 2"	1.78	1.42	1.16	0.92	0.46	0.70	FR : 2.56 MR : 1.24
Permissible Tolerance				Weights (kg) Approx.			
Overall Dimension	To 500 mm		±1 %	Pump		250 (25)	
	Overe 500 mm		±2 %	Driver		146 (29)	
Overall Weight	To 500 Kg		±5 %	Base Plate/Coupling		405/8	
	Overe 500 Kg		±8 %	Total (approx.)		809	
Direction Of Rotation (See from Shaft End)				Max. Misalignment Of Coupling			
				Angular		Axial	
Pump	CW			2/3°	±1 mm		
Driver	CCW						
DBSE = 180 mm							
Coupling Model: DG6-58 Large Hub				Manufacturer: Colossus			

V00	30 Dec 2024	IFA	Kalaye Pump	M.Fakharian	S.Faramarzpour	** **
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.
PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS & GAS-CONDENSATE PIPELINES						
PROJECT NO.: 971020						
EPC CONTRACTOR:			EPD/EPC CONTRACTOR (GC):			
 HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES			 PETROIRAN DEVELOPMENT COMPANY			
DRAWING TITLE: GAD FOR FIRE WATER JOCKEY PUMPS						
SCALE		SIZE		DRAWING NO.		SHEET NO.
As Shown		A3		BK-GCS-KP-120-ME-DW-0003		3/3

**	**	**	**	**	**
REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	
hw~ ,?w k~ h~ k? k?, p? h?r? ???? ?rA?A? ?r?w k?z o? ???? ????.					
 THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS					
BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES					
GAS CPMRESSOR STATION					
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.	
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED					
APPROVED FOR CONSTRUCTION			BY:	DATE:	
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	REVISION