

 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)	  Kalaye Pump Co.																								
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	<table><tr><th colspan="8">GAD FOR FIRE WATER JOCKEY PUMPS</th></tr><tr><th>نسخه</th><th>سریال</th><th>نوع مدرک</th><th>رشته</th><th>تسهیلات</th><th>صادرکننده</th><th>بسته کاری</th><th>پروژه</th></tr><tr><td>V00</td><td>0003</td><td>DW</td><td>ME</td><td>120</td><td>KP</td><td>GCS</td><td>BK</td></tr></table>	GAD FOR FIRE WATER JOCKEY PUMPS								نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه	V00	0003	DW	ME	120	KP	GCS	BK	شماره صفحه : ۱ از ۳
GAD FOR FIRE WATER JOCKEY PUMPS																										
نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه																			
V00	0003	DW	ME	120	KP	GCS	BK																			

طرح نگهداشت و افزایش تولید ۲۷ مخزن

GAD FOR FIRE WATER JOCKEY PUMPS

نگهداشت و افزایش تولید میدان نفتی بینک

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

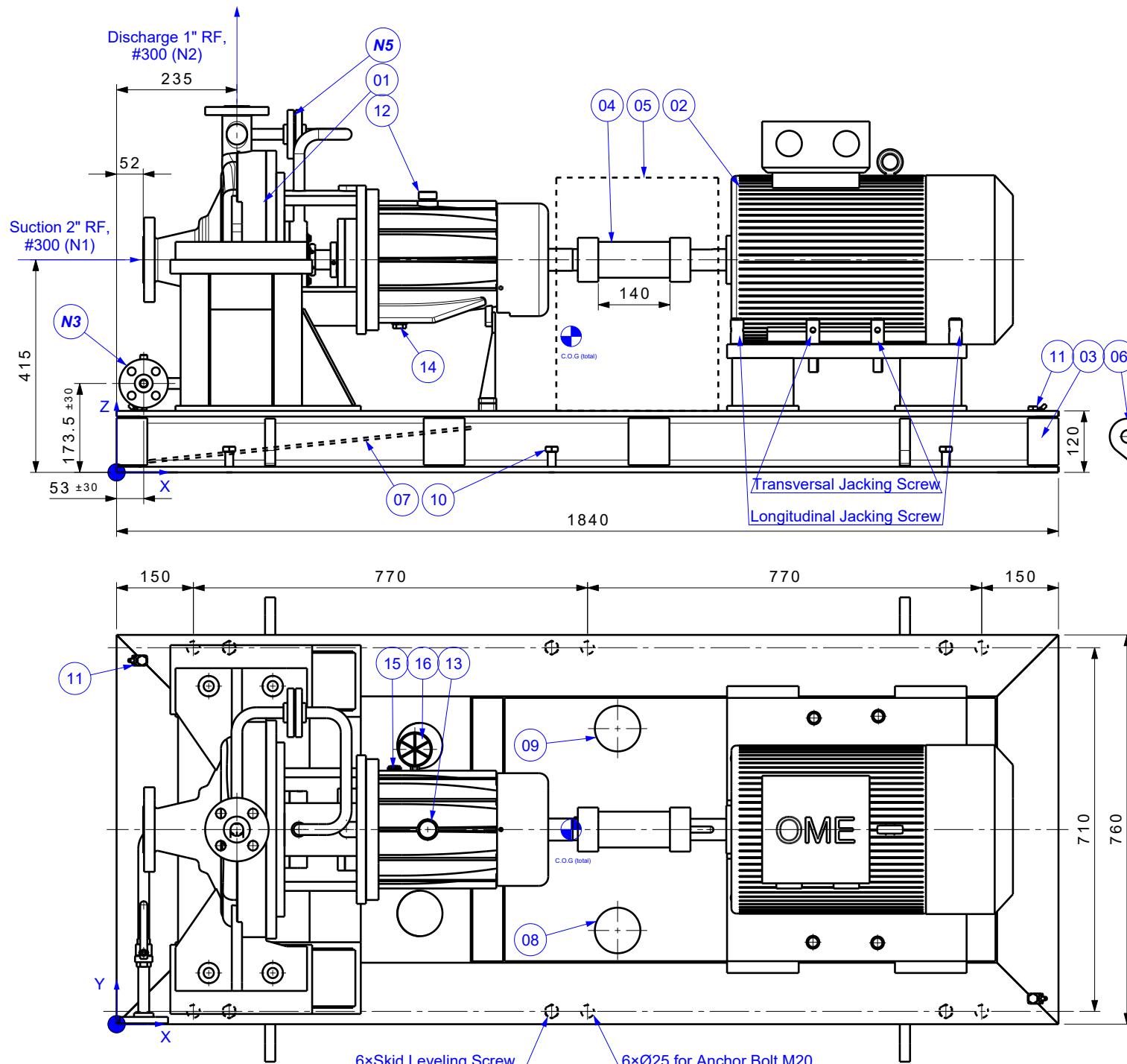
 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید پکیج پمپ های آب آتشنشانی ایستگاه تقویت فشار گاز بینک (قرارداد BK-HD-GCS-CO-0023_00)							 HIRGAN ENERGY شرکت توسعه و پیمانکاری Kalaye Pump Co.	
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	GAD FOR FIRE WATER JOCKEY PUMPS							شماره صفحه: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

REVISION RECORD SHEET

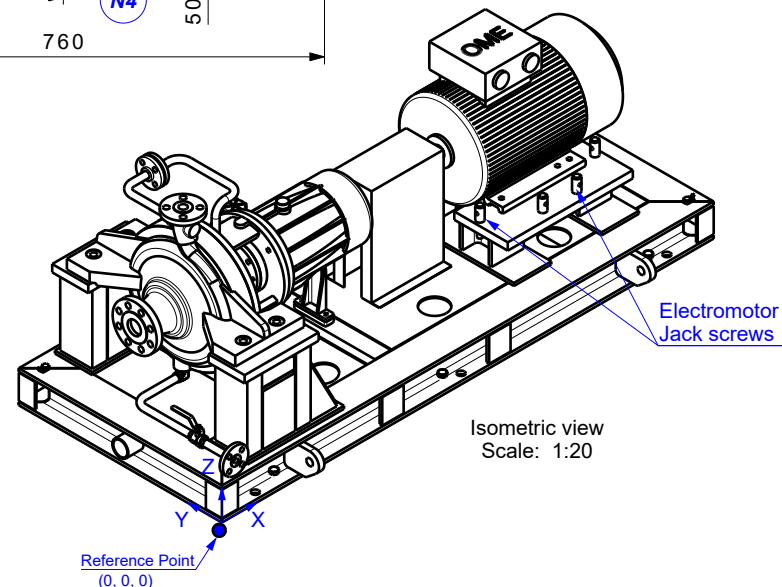
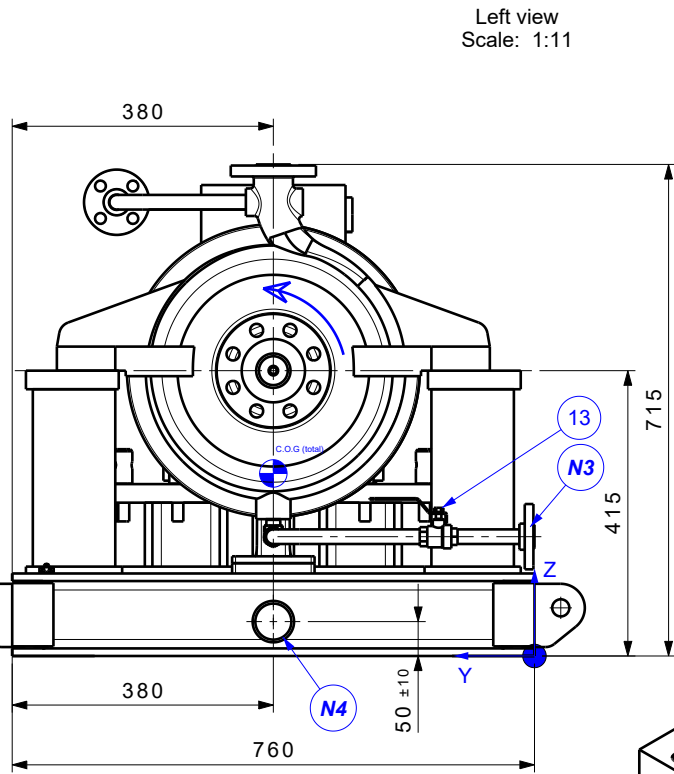
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Front view
Scale: 1:11



Top View
Scale: 1:11



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/PFORMANCE CURVE) FOR FIRE WATER JOCKEY PUMPS	BK-GCS-SP-120-ME-DS-0003
CROSS SECTIONAL DWG FOR FIRE WATER JOCKEY PUMPS	BK-GCS-SP-120-ME-DW-0007
COUPLING ASSEMBLY DWG FOR FIRE WATER JOCKEY PUMPS	BK-GCS-SP-120-ME-DW-0010
MOTOR DATA SHEET FOR FIRE WATER MAIN JOCKEY PUMPS	BK-GCS-SP-120-EL-DS-0002

KEY PLAN

xx	xx	xx	xx	xx	xx
REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	

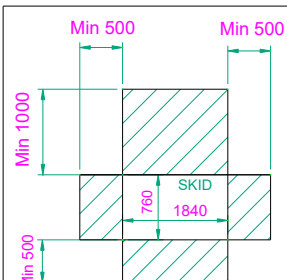
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N.I.S.O.C./ FIELDS

BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES				
GAS COMPRESSOR 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.	SHEET	REVISION	

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



MAINTENANCE AREA

NOZZLE TABLE							
<i>Item</i>	<i>Description</i>	<i>Type</i>	<i>Size</i>	<i>Qty.</i>	<i>Facing</i>	<i>Rating</i>	<i>Position</i>
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
Premissible Tolerance				Weights (kg) Approx			
Overall Dimension	To 500 mm		±1 %	Pump		2	
	Overe 500 mm		±2 %	Driver		1	
Overall Weight	To 500 Kg		±5 %	Base Plate/Coupling		1	
	Overe 500 Kg		±8 %	Total (approx.)		0.5	
Direction Of Rotation (See from Shaft End)				Max. Misalignment Of Coupling			
Pump	CW			Angular 	Axial 		
Driver	CCW						
DBSE = 180 mm							
Coupling Model: DG6-58 Large Hub				Manufacturer: Colossus			

Confirm

OR BOX

Recommended Grout Type is G2.

Anchor Box Type-T (T.F0.20.125.410.105)	
Material	ASTM F1554 Grade 36

BOLT

Reply: Confirm

Recommended Grout Type is G2.

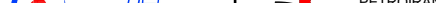
V00	30.Dec.2024	IFA	Kalaye Pump	M.Fakharian	S.Faramarzpour	** **
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME:	BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES
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GAS & GAS-CONDENSATE PIPELINES	
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PROJECT NO.:	971020
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EPC CONTRACTOR:	EPD/EPC CONTRACTOR (GC):
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WIRGAN ENERGY DESIGN & INSPECTION

HIRSHMAN ENERGY DESIGN & INSPECTION COMPANIES	PEDCO	COMPANY
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DRAWING TITLE:	
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GAD FOR FIRE WATER JOCKEY PUMPS

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SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.

As Shown	A3	BK-GCS-KP-120-ME-DW-0003	3/3	V00
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