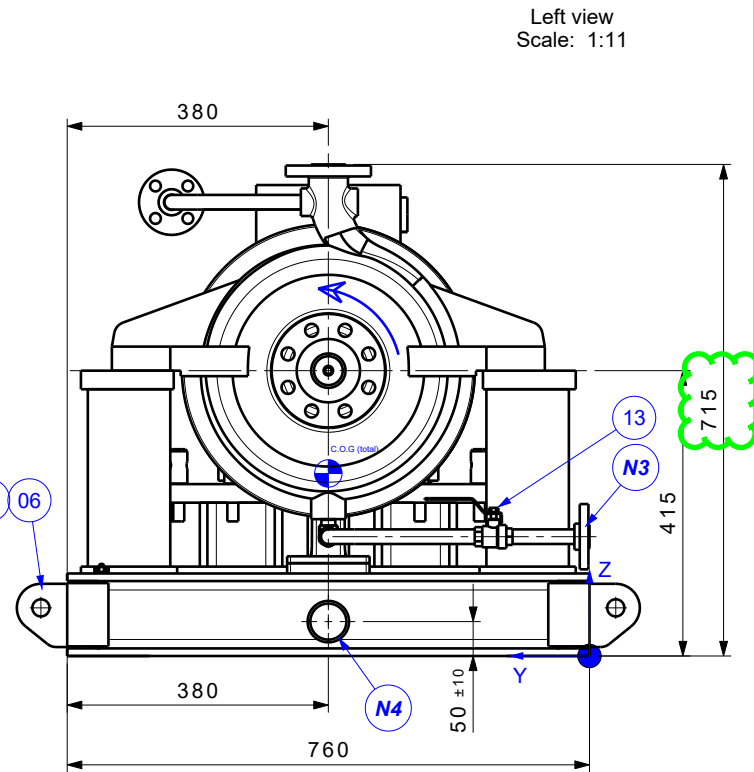
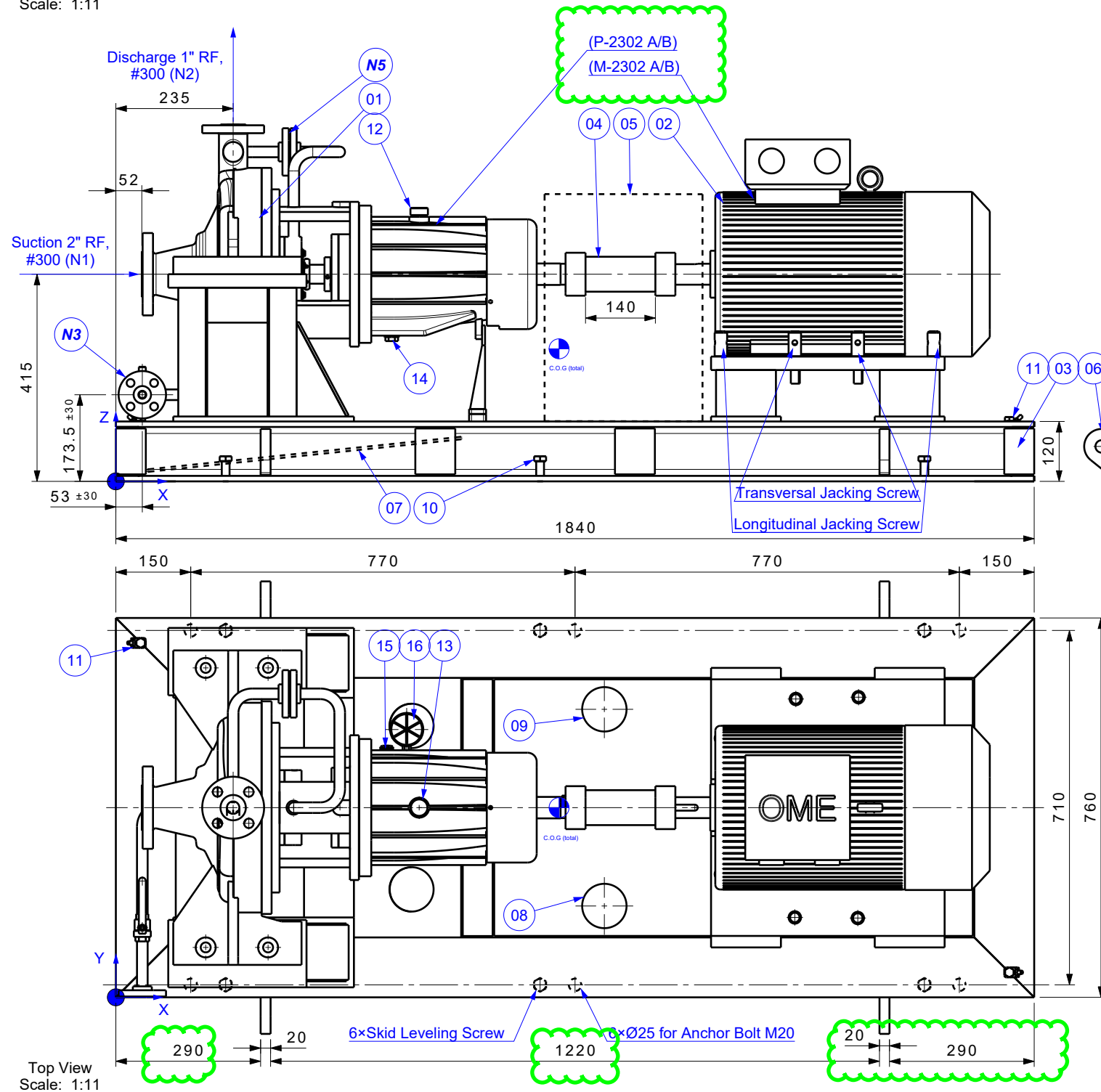


Front view
Scale: 1:11

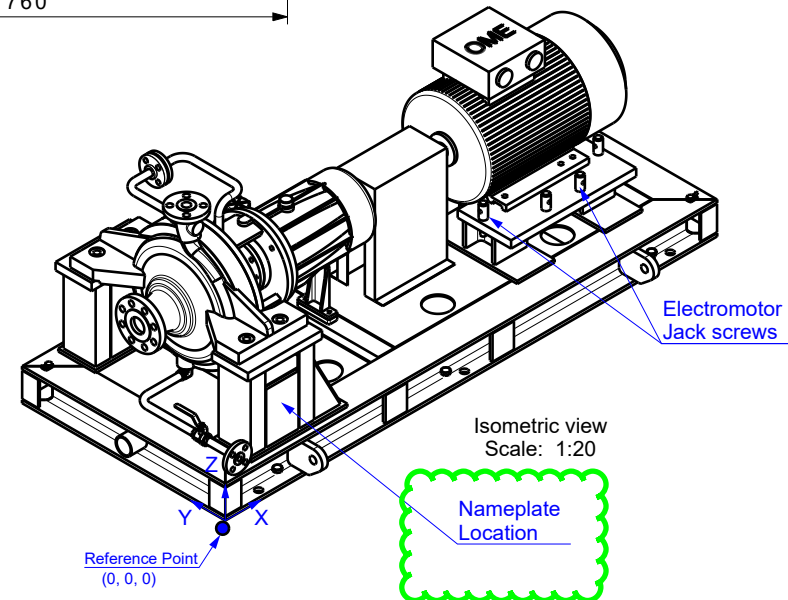


Part List		
Item	Description	Qty.
01	PUMP	1
02	Electro Motor	1
03	Skid	1
04	Coupling	1
05	Coupling Cover (Al.)	1
06	Skid Lifting Lug	4
07	Skid Drain Pan	1
08	Skid Grout Hole	3
09	Skid Air Hole	3
10	Skid Jacking Screw	6
11	Skid Earth Lug	2
12	Oil Filling	1
13	Casing Drain Valve, 1/2"	1
14	Oil Drain	1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

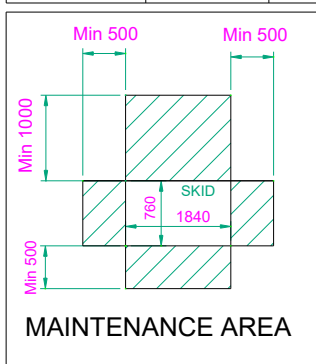
Item	Center of Gravity Coordinate		
	Gx	Gy	Gz
Pump	340.5	380.5	359
Driver	1543	380	465
Skid	988	380	138
Total	888	380	265.5

Static Load	Dynamic Load
7936 N	F=304 N



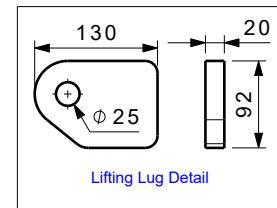
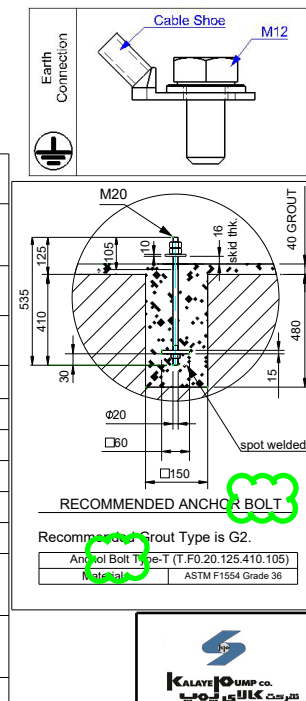
Volute OH2 2532 (7-5093)

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							
<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

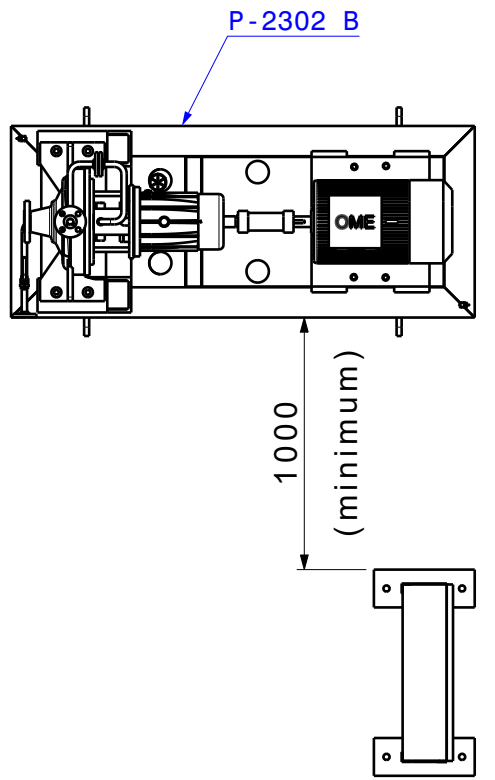
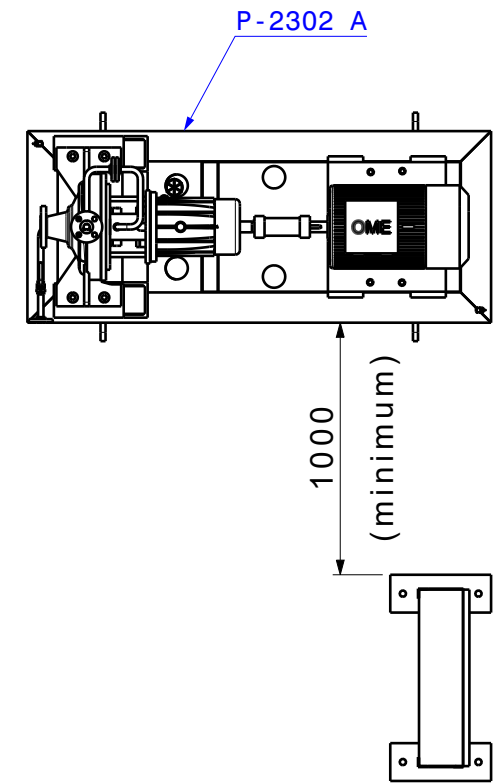
External Force & Moments (2xAPI)							
	Fx	Fy	Fz	Mx	My	Mz	Resultant
	(KN)			(KNm)			
Discharge 1"	1.42	1.16	1.78	0.92	0.46	0.70	FR : 2.56 MR : 1.24
Suction 2"	1.78	1.42	1.16	0.92	0.46	0.70	FR : 2.56 MR : 1.24
Premissible Tolerance				Weights (kg) Approx.			
Overal Dimension	To 500 mm	±1 %		Pump		250 (25)	
	Overe 500 mm	±2 %		Driver		146 (29)	
Overal 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 = 140 mm							
Coupling Model: DG6-58 Large Hub				Manufacturer: Colossus			



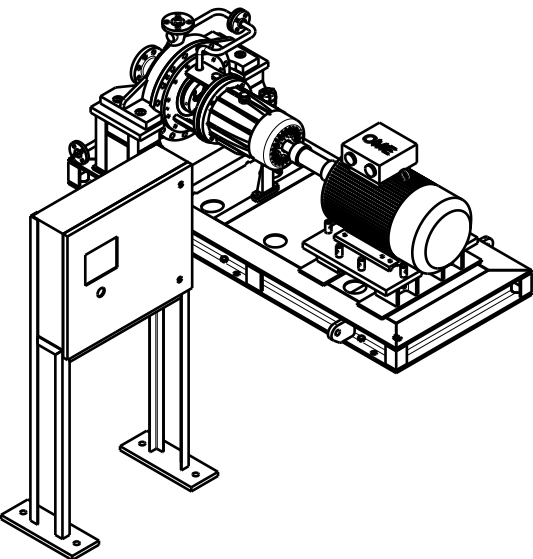
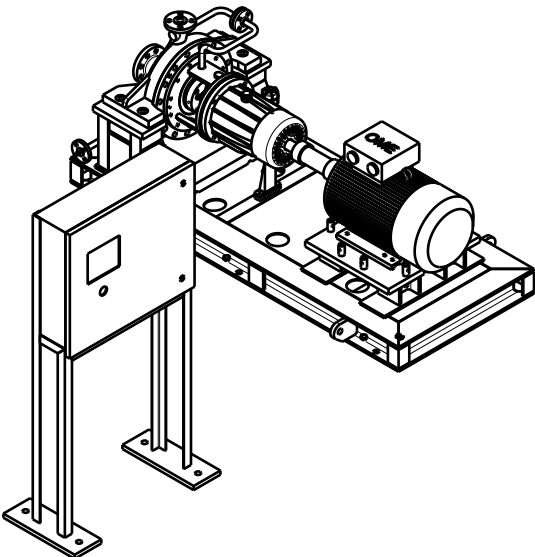
V01	APR. 2025	AFC	Kalaye Pump	M.Fakharian	S.Faramarzpour	
V00	DEC. 2024	IFA	Kalaye Pump	M.Fakharian	S.Faramarzpour	
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME:		BNAK 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		DRAWING NO.	
A3		B/C/C/S/ KD/ 420 ME/ DM/ 0002	
SHEET NO.		REV.	
1		1	

KEY PLAN					
**	**	**	**	**	**
REV.	DESCRIPTION	BY	DATE	BY	DATE
CHECKED			REV. APPR.		
hw . ,to k- .hdj k? , p h r o ? f a A z i f x c k z o g { ? } i o 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 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.	REVISION



Front view
Scale: 1:30



Isometric view
Scale: 1:30

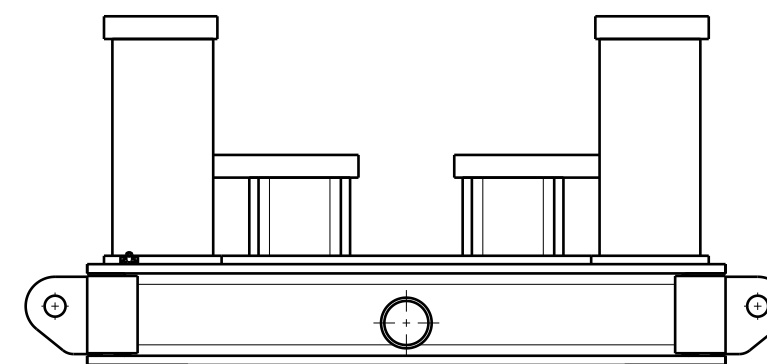
- NOTES
1. Current views are just a schematic and recommended arrangement. following current arrangement is not mandatory. End-user might change this arrangement based on space limitation at site.
 2. All Piping and wiring between vendor skids and local control panels are in the vendor scope of supply as loose parts.
 3. Type of routes for related instrument cables are tray.
 4. All equipment outside the pump skid such as PSL, PRV, CRV, Waste cone and etc. will be supplied be KPC (acc. to contract) as loose parts. These items will be shown as a schematic in documents BK-GCS-KP-120-IN-DW-0004.
 5. Minimum distance between controllern and pump skid is 1 m.
 6. Current view of controller is just a schematic. Detailed drawing and specification of jockey control panel is submitted in document no. BK-GCS-KP-120-IN-DW-0003.

LEGEND

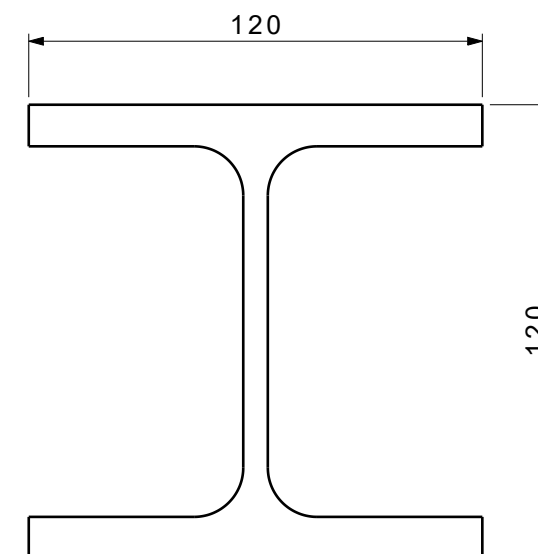
REFERENCE DRAWING	DRG. No.
DATA SHEETS (W/PERFORMANCE CURVE) FOR FIRE WATER JOCKEY PUMPS	BK-GCS-KP-120-ME-DS-0003
CROSS SECTIONAL DWG FOR FIRE WATER JOCKEY PUMPS	BK-GCS-KP-120-ME-DW-0007
COUPLING ASSEMBLY DWG FOR FIRE WATER JOCKEY PUMPS	BK-GCS-KP-120-ME-DW-0010
MOTOR DATA SHEET FOR FIRE WATER MAIN JOCKEY PUMPS	BK-GCS-KP-120-EL-DS-0002
P&I D	BK-GCS-KP-120-PR-PI-0001

KEY PLAN

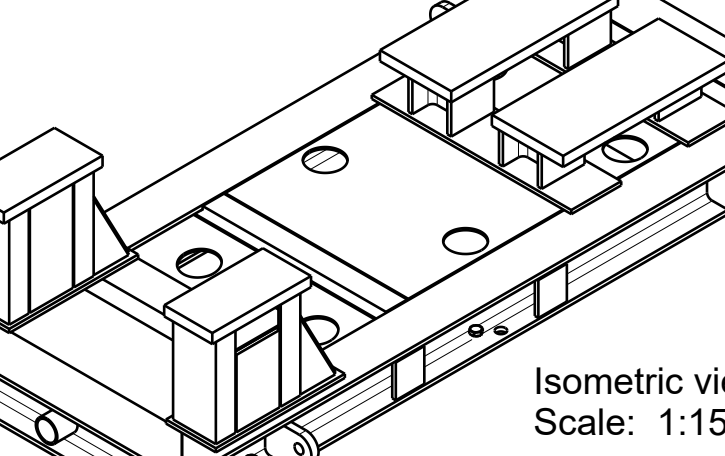
PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS & GAS-CONDENSATE PIPELINES						PROJECT NO.: 971020					
EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES						EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY					
DRAWING TITLE: GAD FOR FIRE WATER JOCKEY PUMPS						NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED					
SCALE: As Shown						APPROVED FOR CONSTRUCTION					
SIZE: A3						BY: SERIAL NO.					
DRAWING NO: BK-GCS-KP-120-ME-DW-0003						DATE: SHEET REVISION					
SHEET NO: 2/3						BUDGET REF. LOCATION SIZE CLASS					
REV: V01						PROJECT ENG.					



Front view
Scale: 1:9



Front view
Scale: 1:2



Isometric view
Scale: 1:15

Isometric view
Scale: 1:15

NOTES						
1. All dimension are in millimeter.						
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		
P&I D				BK-GCS-KP-120-PR-PI-0001		
KEY PLAN						
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		CHECKED	REV. APPR.			
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DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.		
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APPROVED FOR CONSTRUCTION			BY:		DATE:	
BUDGET REF:	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION