CAPACITOR	BANKS	SINGLE	DIAGRAM	REFERENCE DRAWING DRG. No. ELECTRICAL OVERALL SINGLE LINE DIAGRAM CALCULATION NOTE FOR CAPACITOR BANKS DATA SHEETS FOR CAPACITOR BANK BK-GCS-PEDCO-120-EL-DT-0 BK-GCS-PEDCO-120-EL-DT-0			
			DO2 AUG.2023 AFC H.SHANDA M.FAKHARIAN AM.MOHSENI ** DO1 JUL2022 IPA H.SHANDA M.FAKHARIAN M.MOHSENI ** DO0 FEB.2022 IFC H.SHANDA M.FAKHARIAN M.MEHESHAD ** REV. DATE P.O.I.S PREP. CHK. APP. AL PROJECT NAME: BINAK OILFIELD DEVELOPMENT, SURFACE FACILITIES PROJECT NO: 971020 EPC CONTRACTOR: EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANY COMPANIES DRAWING TITLE: CAPACITOR BANKS SINGLE LINE DIAGRAM	•• REV. DESCRIPTION BY DATE BY DATE •• CHECKED REV. APPR.			

	D02
CONTROL CABLE	
AY (47)	
	4
	M.MEHRSHAD **.

I - ALL EQUIPMENT REATING WILL BE FINALIZED BY VENDOR.

2- INCOMING CABLE SIZE WILL BE ACCORDING TO "CALCULATION NOTE FOR CABLE SIZING"(BK-GCS-PEDCO-120-EL-CN-0003)

NOTES

3- MCCB WITH LSI FUNCTION INCLUDES:
FUNCTION "L": LONG TIME DELAY, SETUP CURRENT & TIME DELAY
FUNCTION "S": SHORT TIME DELAY, SETUP CURRENT & TIME DELAY
FUNCTION "I": INSTANTANEOUS, SETUP CURRENT & TIME DELAY
FUNCTION "G": GROUND

4- VENDOR SHALL MODIFY THIS SINGLE LINE IAGRAM ACCORDING TO IPS-M-EL-181(2)

5- ALL SWITCH FUSES SHALL BE STRIKER PIN TYPE WITH FAULT MICRO SWITCH.

6- ACCORDING TO ELECTRICAL TYPICAL SCHEMATIC DIAGRAMS FOR LV PANELS - According to Electrical Typical Schematic Dragrams for EV Panels
"(BK-GCS-PEDCO-120-EL-DG-002) CONTROL
CIRCUIT VOLTAGE FOR OUTGOING IS 230 VAC WHICH WILL BE SUPPLIED
FOR EACH LV CUBICLE. IN OTHER WORDS FOR EACH LV CUBICLE ONE
SOLATED DRY TYPE TRANSFORMER SHALL BE CONSIDERED BY VENDOR.
THEREFORE VENDOR SHALL CONSIDER ONE ISOLATED DRY
TYPE TRANSFORMER FOR CAPACITOR CUBICLE.

7- ALL CAPACITORS SHALL BE PROVIDED WITH A DISCHARGE RESISTOR, CHARACTERISTICS OF WHICH SHALL BE SPECIFIED BY VENDOR. CAPACITORS MUST DISCHARGE TO RESIDUAL VOLTAGE LESS THAN 75V WITHIN 3 MINUTES FOR LV CAPACITORS & 75V WITHIN 10 MINUTES FOR MY CAPACITORS

8- THE CAPACITOR BANK RATING POWER SHOULD BE CONSIDERED IN 400V/11kV, BUT CAPACITOR RATING VOLTAGE SHOULD BE 440V/12kV.

LE.	GE.	NL

REFERENCE DRAWING	DRG. No.					
ELECTRICAL OVERALL SINGLE LINE DIAGRAM	BK-GCS-PEDCO-120-EL-SL-0001					
CALCULATION NOTE FOR CAPACITOR BANKS	BK-GCS-PEDCO-120-EL-CN-0011					
DATA SHEETS FOR CAPACITOR BANK	BK-GCS-PEDCO-120-EL-DT-0007					

KEY PLAN

** ** *** *** *** *** *** H.SHAKIBA M.FAKHARIAN A.M.MOHSENI ** ** BY DATE BY DATE H.SHAKIBA M.FAKHARIAN M.MEHRSHAD REV. DESCRIPTION H.SHAKIBA M.FAKHARIAN M.MEHRSHAD ** ** CHECKED REV. APPR. PREP. CHK. APP. AUT.

EPD/EPC CONTRACTOR (GC):

PETROIRAN

COMPANY

DEVELOPMENT

EPC CONTRACTOR:

NTS A3

(VENDOR TITLE BLOCK)**

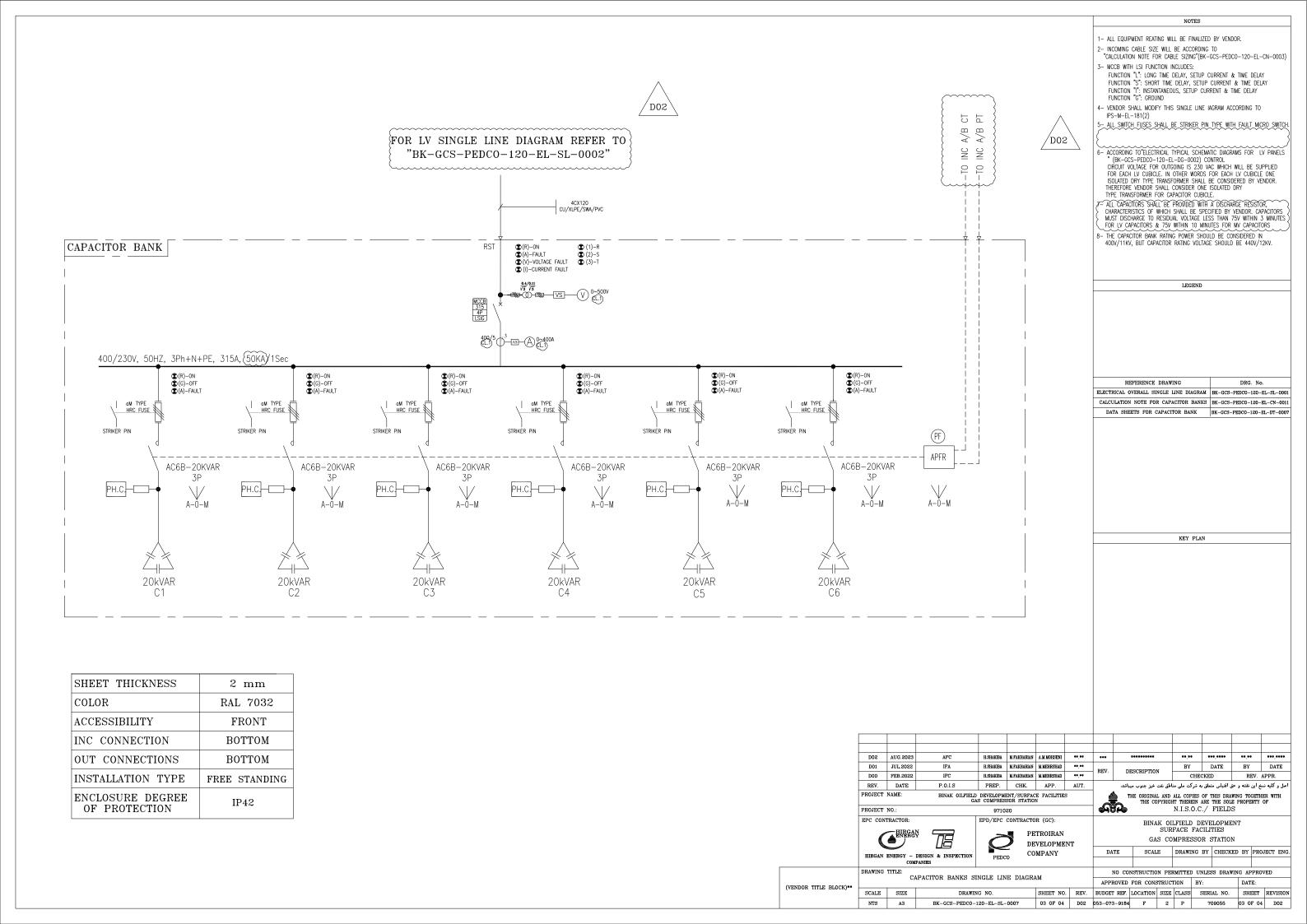
اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد. THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS

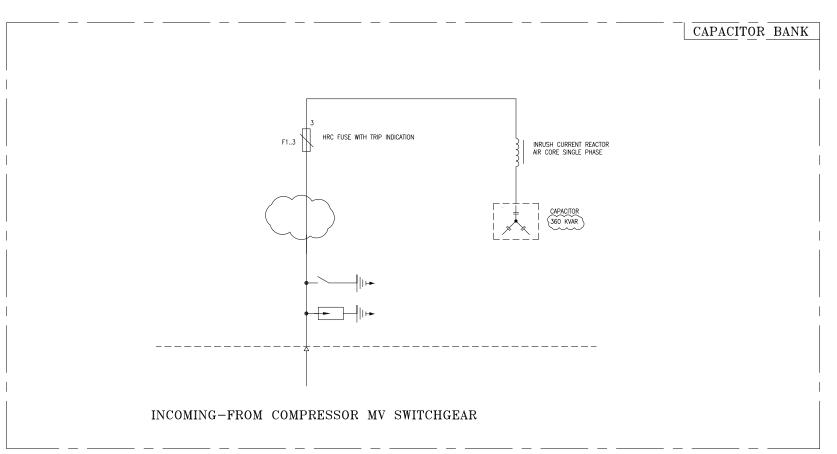
BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION

DATE SCALE DRAWING BY CHECKED BY PROJECT ENG.

HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES PEDCO NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED
APPROVED FOR CONSTRUCTION BY: DATE: CAPACITOR BANKS SINGLE LINE DIAGRAM
 DRAWING NO.
 SHEET NO.
 REV.
 BUDGET REF.
 LOCATION
 SIZE
 CLASS
 SERIAL NO.
 SHEET
 REVISION

 BK-GCS-PEDCO-120-EL-SL-0007
 02 0F 04
 D02
 053-073-9184
 F
 2
 P
 709055
 02 0F 04
 D02
 SCALE SIZE





SHEET THICKNESS

ACCESSIBILITY

INC CONNECTION

OUT CONNECTIONS INSTALLATION TYPE

ENCLOSURE DEGREE

OF PROTECTION

COLOR

2 mm

RAL 7032

FRONT

BOTTOM BOTTOM

FREE STANDING

IP42

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					T													
		D02	AUG.2023	AFC	H.SHAKIBA	M.FAKHARIAN	A.M.MOHSENI	**,**	***	***	*****		**,**			**,**	***,*	***
		D01	JUL.2022	IFA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	** **	REV.	DDGG	DIDMIA	.,	BY		DATE	BY	DA'	re
		D00	FEB.2022	IFC	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	**,**	REV.	DESC	DESCRIPTION			CHECKED			REV. APPR.	
		REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.		اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.								
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		PROJECT			9710				€	-0			N.I.S.	0.0./	FIELDS			
		EPC CONT	HIRGAL		EPD/EPC	-	OR (GC): TROIRAN EVELOPME	NΨ				SUR	FACE	FACILI	CLOPMEN TIES STATION	ΙΤ		
		umany	my mpay	DEGRAN A INCREGRAN			MPANY		DATE		SCAL	Æ	DRAWI	NG BY	СНЕСКЕ	D BY F	ROJECT	ENG
		HIRGAN		DESIGN & INSPECTION PANIES	PEDC	0										\neg		
		DRAWING	TITLE:						NC	CONST	RUCTIO	N PER	RMITTEI	D UNLE:	S DRAWI	NG APP	ROVED	
	CAPACITOR BANKS SINGLE LINE DIAGRAM						APPROVED FOR CONSTRUCTION BY: DATE:											
	(VENDOR TITLE BLOCK)**	SCALE	SIZE	DRAWIN	NG NO. SHEET		SHEET NO.	REV.	BUDGET I	EF. LO	CATION	SIZE	CLASS	SER	AL NO.	SHEE	ET REVI	SION
		NTS	A3	BK-GCS-PEDCO-	120-EL-SL-	0007	04 OF 04	D05	053-073-	9184	F	2	P	7	09055	04 OF	04 D	02
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"(BK-GCS-PEDCO-120-EL-DG-0002) CONTROL
CIRCUIT VOLTAGE FOR OUTGOING IS 230 VAC WHICH WILL BE SUPPLIED
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THEREFORE VENDOR SHALL CONSIDER ONE ISOLATED DRY
TYPE TRANSFORMER FOR CAPACITOR CUBICLE.

THE IRANSFORMER FOR CAPACITOR CUBICLE.

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MUST DISCHARGE TO RESIDUAL VOLTAGE LESS THAN 75V WITHIN 3 MINUTES

FOR LV CAPACITORS & 75V WITHIN 10 MINUTES FOR MV CAPACITORS

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LEGEND

REFERENCE DRAWING	DRG. No.						
ELECTRICAL OVERALL SINGLE LINE DIAGRAM	BK-GCS-PEDCO-120-EL-SL-0001						
CALCULATION NOTE FOR CAPACITOR BANKS	BK-GCS-PEDCO-120-EL-CN-0011						
DATA SHEETS FOR CAPACITOR BANK	BK-GCS-PEDCO-120-EL-DT-0007						

KEY PLAN