

## INDEX SHEET

SHEET No.	DESCRIPTION	D00	D01	DOS	D03	D04	D05
01	COVER SHEET	$\checkmark$	$\checkmark$	✓	<b>✓</b>	<b>✓</b>	
02	INDEX SHEET	<b>√</b>	✓	✓	<b>√</b>	<b>√</b>	
03	ABBREVIATION & NOTES	<b>√</b>	$\checkmark$	$\checkmark$	$\checkmark$	<b>√</b>	
04	SYMBOL & LEGEND (1/2)	$\checkmark$	✓	✓	$\checkmark$		
05	SYMBOL & LEGEND (2/2)	✓	$\checkmark$	<b>√</b>	<b>√</b>	<b>√</b>	
06	F1: SIMPLE 4-POLE MCCB FEEDER WITH THERMAL/MAGNETIC TRIPS, FOR I<63A FEEDERS.	$\checkmark$	$\checkmark$	<b>√</b>	<b>√</b>		
07	F2: SIMPLE 4-POLE MCCB FEEDER WITH THERMAL/MAGNETIC TRIPS, FOR 63A=<<100A FEEDERS.	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>		
08	F3: SIMPLE 4-POLE MCCB FEEDER WITH THERMAL/MAGNETIC TRIPS, FOR 100A=⊲ FEEDERS.	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>		
09	F4: SIMPLE 3-POLE MCCB FEEDER WITH THERMAL/MAGNETIC TRIPS, FOR I<63A FEEDERS.	$\checkmark$	<b>√</b>	<b>√</b>	<b>√</b>		
10	F6: SIMPLE 3-POLE MCCB FEEDER WITH THERMAL/MAGNETIC TRIPS, FOR 63A=<<100A FEEDERS,	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>		
11	F6: SIMPLE 3-POLE MCCB FEEDER WITH THERMAL/MAGNETIC TRIPS, FOR 100A=⊲ FEEDERS.	$\checkmark$	<b>√</b>	<b>√</b>	<b>√</b>		
12	F7: SIMPLE 2-POLE MCCB FEEDER FOR FEEDING SINGLE PHASE LOADS (PH+N OR 2-PH)	$\checkmark$	<b>√</b>	$\checkmark$	<b>√</b>		
13	M1: DIRECT ON LINE MOTOR STARTER FEEDERS FOR 0.4kW $\leq$ P $<$ 4kW	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	
14	M2: DIRECT ON LINE MOTOR STARTER FEEDERS FOR $4kW \le P < 18.5kW$	$\checkmark$	$\checkmark$	<b>√</b>	<b>√</b>	<b>√</b>	
15	M3: DIRECT ON LINE MOTOR STARTER FEEDERS FOR 18.5k $\psi$ $\leq$ P $<$ 30k $\psi$	$\checkmark$	$\checkmark$	<b>√</b>	<b>√</b>	$\checkmark$	
16	M4: DIRECT ON LINE MOTOR STARTER FEEDERS FOR 30k♥ ≤ P & AND HAZARDOUS AREA	$\checkmark$	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	
17	IN1: INCOMING 1 FROM DISTRIBUTION TRANSFORMER	$\checkmark$	<b>√</b>	<b>√</b>	<b>√</b>		
18	CO1: COUPLING 1	$\checkmark$	<b>√</b>	<b>√</b>	<b>√</b>		
19	IN2: INCOMING 2 FROM DISTRIBUTION TRANSFORMER	<b>√</b>	<b>√</b>	<b>√</b>	$\checkmark$		
20	CO2: COUPLING 2	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>		
21	IN3: INCOMING FROM DIESEL GENERATOR	✓	<b>√</b>	<b>√</b>	<b>√</b>		
22	INCOMING 1 (CB1)	$\checkmark$	$\checkmark$	✓	$\checkmark$		
23	INCOMING 2 (CB2)	$\checkmark$	<b>√</b>	<b>√</b>	<b>√</b>		
24	COUPLING 1 (BT1)	$\checkmark$	$\checkmark$	<b>√</b>	<b>√</b>		
25	COUPLING 1 (BT1)	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>		
26	COUPLING 1 (BT1)	<b>√</b>	✓	<b>√</b>	<b>√</b>		
27	COUPLING 1 (BT1)	<b>√</b>	✓	<b>√</b>	<b>√</b>		
28	COUPLING 2 (BT2)	<b>√</b>	<b>√</b>	<b>√</b>	✓		
29	COUPLING 2 (BT2)	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>		
30	INCOMING 3 (CB3)			<b>√</b>	<b>√</b>		

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										KEY PL	AN		
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## 1 - ABBREVIATIONS

MAIN SWITCHING DEVICE MAIN CONTACTOR MOTOR PROTECTION CIRCUIT BREAKER MPCB: MOULDED CASE CIRCUIT BREAKER

MCCB: MCB: MINIATURE CIRCUIT BREAKER AUXILIARY RELAY NO.# KA: TC: TRIP COIL OF CIRCUIT BREAKER (SHUNT TRIP)

CB: CIRCUIT BREAKER CC: CLOSE COMMAND OC: OPEN COMMAND PUSH BUTTON P/B: PUSH BUTTON CLOSE PBC:

MANUAL SYNCHRON TRANSFER MST: ATOUMATIC TRANSFER AT:

DIESEL GENERATOR CIRCUIT BREAKER DGCR: EMERGENCY SHUT DOWN FSD.

MAKE ON FAULT MOF: BOF. BREAK ON FAULT

## 2 - CATEGORY DESCRIPTION

- ALL SWITCH FUSES SHALL BE EQUIPPED WITH STRIKER PIN.
- LV NON MOTOR TYPE FEEDERS INCLUDE 400A & ABOVE SHALL BE ACB INSTEAD OF MCCB.
- START COMMAND FROM DCS & STOP COMMAND FROM ESD & DCS HAVE BEEN CONSIDERED FOR MOTOR TYPE FEEDER, IF THERE ARE NOT, THESE FACILITIES SHALL BE DELETED.
- CONTROL CIRCUIT VOLTAGE FOR INCOMINGS & COUPLERS IS 110 VDC WHICH WILL BE SUPPLIED BY NEW CHARGER SYSTEM INSTALLED IN SWITCHGEAR ROOM.

PF.

SP.

SP:

ST:

CBT:

CBR:

CBF:

CCB:

OCB:

DG:

BT:

CF∙

CBR.

MAT:

MT:

DGCP+

LCS:

IRP:

- CONTROL CIRCUIT VOLTAGE FOR OUTGOING IS 230 VAC WHICH WILL BE SUPPLIED FOR EACH LY CUBICLE. IN OTHER WORDS FOR EACH LY CUBICLE ONE ISOLATED DRY TYPE TRANSFORMER SHALL BE CONSIDERED BY VENDOR.

PROTECTING FARTH

STOP P/B

START P/B

BUS TIE

SPRING CHARGED CONTACT

COMMON CIRCUIT READY

COMMON CIRCUIT FAULT

CIRCUIT BREAKER FAULT

CIRCUIT BREAKER READY

LOCAL CONTROL STATION

INTERPOSING RELAY PANEL

DIESEL GENERATOR

MANUAL TRANSFER

COMMON CIRCUIT BREAKER TRIP

CIRCUIT BREAKER CLOSING COIL

CIRCUIT BREAKER OPENING COIL

MANUAL ASYNCHRON TRANSFER

DIESEL GENERATOR CONTROL PANEL

- EMERGENCY STOP & START PUSH BUTTON SHALL BE CONSIDERED ON INCOMINGS & BUS-TIES.
- HEATER/S IN EACH CUBICLE WILL BE PROTECTED BY A MINIATURE CIRCUIT BREAKER AND AN EARTH LEAKAGE PROTECTION DEVICE OR RESIDUAL CIRCUIT BREAKER OF 30MA SENSITIVITY, THE HEATERS WILL BE FED BY INTERNAL SUPPLY WITH REDUNDANCY CIRCUIT THAT FEEDING THE HEATERS IN ONE SECTION OF THE SWITCHGEAR WILL BE FED FROM THE OPPOSITE SECTION OF THE BUS BAR.
- SWITCH-FUSE COMBINATION UNITS SHALL COMPLY WITH SUITABLE FOR UNINTERRUPTED DUTY, UTILIZATION CATEGORY AC-23
- FOR FEEDER WITH TYPE M3&M4, CURRENT AND VOLTAGE FAULT SHALL BE CONSIDERED SEPARATELY BY VENDOR.
- MICROPROCESSOR TYPE PROTECTIVE RELAYS SHALL BE EQUIPPED WITH RS 485 TO SEND SIGNALS BY SERIAL LINK
- 3- VENDOR SHALL CONSIDER "CONTROL LOGIC DIAGRAM FOR LY INCOMERS AND BUS TIE" (BK-GCS-PEDCO-120-EL-LD-0001)" & "LV SWITCHGEAR/MCC SINGLE LINE DIAGRAM (BK-GCS-PEDCO-120-EL-SL-0002)" AS REFERENCES FOR METERING & SCHEMATIC DIAGRAM OF INCOMINGS.

LEGEND

REFERENCE DRAWING	DRG, No.
LV SWITCHGEAR/MCC SINGLE LINE DIAGRAM	BK-00\$-PE000-180-BL-\$L-0008
CONTROL LOGIC DIAGRAM FOR LV INCOMERS & BUS TIB	BK-CCS-PEDCO-120-BL-LD-6001
ELECTRICAL OVERALL SINGLE LINE DIAGRAM	RK-603-PEDCO-120-EU-3L-0001

KEY PLAN

D05	3803.NAL	IPI	H,SHAKIBA	<b>V.Pakharian</b>	W.VBHRSHAD	**,**						
D04	NOA'5055	IPI	H,\$HAKIBA	V.PAKHARIAN	W.VBHRSHUD	**,**						
D08	10F5055	IPI	H,\$HAKIBA	V.PAKHARIAN	W.VEHRSHAD	**,**						
D05	3303.YAM	IPI	H.#HÁKIBÁ	V.PAKHARIAN	W.WEHRSHAD	**,**	***	********	**,**	****	**,**	***
D01	APR.2022	IPI	H,\$HAKIBA	V.PAKHARIAN	W.WEHRSHAD	**,**	REV.	DESCRIPTION	BY	DATE	BY	DATE
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REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.	کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.					امل و کلیه تـــ

PROJECT NAME: BINAK OILPIELD DEVELOPMENT/SURPACE PACILIVIES PROJECT NO.:

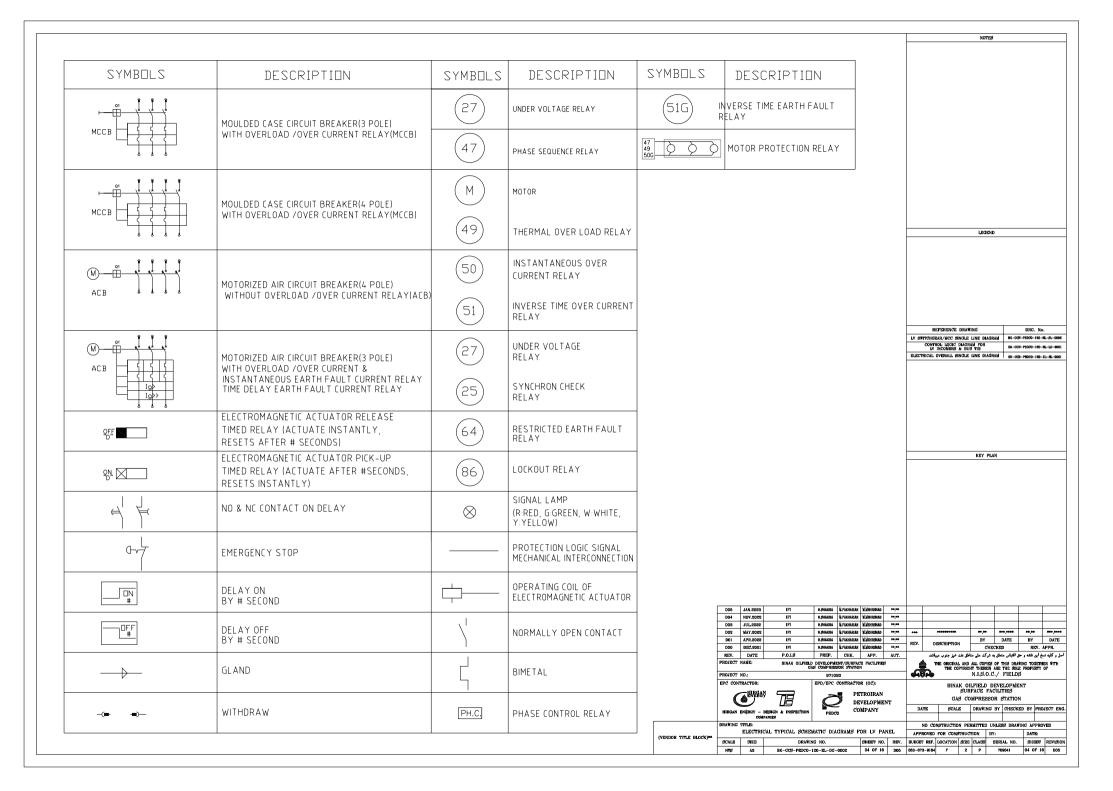


COMPANY

PETROIRAN DEVELOPMENT

N.I.S.O.C./ FIELDS BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION SCALE DRAWING BY CHECKED BY PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED ELECTRICAL TYPICAL SCHEMATIC DIAGRAMS FOR LV PANEL APPROVED FOR CONSTRUCTION BY: SHEET NO, REV. BUDGET REF. LOCATION SIZE CLASS SERIAL NO. SHEET REVISION SCALE SIZE DRAWING NO. BK-GCF-PEDCO-120-EL-DG-0002 03 0F 16 D06 063-073-9184 F 2 P 709041



SYMBOLS	DESCRIPTION	SYMBOLS	DESCRIPTION
	PUSH BUTTON, NORMALLY OPEN CONTACT	V.S	VOLTAGE SELECTOR SWITCH
H	PUSH BUTTON, NORMALLY CLOSE CONTACT	A.S	AMMETER SELECTOR SWITCH
7	NORMALLY CLOSE CONTACT	\  \	SWITCHING DEVICE
	LAMP (FOR LIGHTING)		(GENERAL SYMBOL)
Ц	SOCKET	/4	CONTACTOR (CONTACT OPEN IN THE UNOPERATED POSITION)
	SPACE HEATER	&	AND LOGIC
	TDANICTODMED		OR LOGIC
	TRANSFORMER	0	NOT LOGIC
	INDUCTOR, REACTOR, SPRING	ф	FUSE GENERAL SYMBOL
	CURRENT TRANSFORMER	*	MINIATURE CIRCUIT BREAKER (MCB)
*	TRANSDUCER 4-20mA I: CURRENT V: VOLTAGE	0	TERMINALS OF SWITCHGEAR
I	P: ACTIVE POWER Q: REACTIVE POWER	$\vee$	VOLTMETER
<u>_</u>	EARTH	A	AMMETER

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COMPARIES		D08 D02 D01 D00 REV. PROJECT	MAY.2022 APR.2022 DEC.2021 DATE NAME: NO.:	IPI IPI IPI P.O.I.S BINAK OILPIELD	H.SHÁIBÁ H.SHÁIBÁ PREP. DEVELOPMI LSI COMPRES	CONTRACTO	APP. E PACILIWIES R (GC): TROIRAN		4	THE ORIGINAL AN THE COPYRI	N.I.S.O.C DILFIELD E RFACE FA	OF THIS DRA ARE THE SOI C./ FIELD DEVELOPMING	ان عده و WING TODETY E PROPERTY SI	APPR. اصل و کلیه تـــ	
VENDOR TITLE BLOCK)**  ELECTRICAL TYPICAL SCHEMATIC DIAGRAMS FOR LV PANEL  APPROVED FOR CONSTRUCTION BY: DATE  APPROVED FOR CONSTRUCTION BY: DATE  DEALER SCALE SCALE STREET NO. SHEET NO.		DOS DOS DOS DOS DOS PROJECT   PROJECT   EPC CONT	MAY.2022 APR.2022 DEC.2021 DATE NAME: NO.: TRACTOR:	1PI 1PI 1PI POLIS BINAK OILPIELO	HAMAGBA HAMAGBA PREP. DEVELOPMINS COMPRES 97102 EPD/EPC	CONTRACTO	APP.  E PACILIVIES  R (GC):  TROIRAN  VELOPME			THE ORIGINAL AN THE COPYRI BINAK C SU GAS C	D ALL COPIES CHT THEREIN N.I.S.O.C DILFIELD E RFACE FA	OF THIS DRA ARE THE SOI C./ FIELD DEVELOPME CILITIES OR STATIO	WING TODETTY E PROPERTY S ONT	APPR. اصل و کلیه تب IER WITH OF	
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