## ELECTRICAL TYPICAL SCHEMATIC

## DIAGRAMS FOR MV PANEL



_															
		SEP.2023	PI	H,\$HAKIBA	4	S.PARIAARPOUR	ta'at								
	D05	MAY.2023	1P1	H,\$HAKIBA	¥.PAKHARIAN	A. M. MORESEN I	40,00								
	D04	DEC.2025	1Pl	H,\$HAKIBA	¥.PAKHARIAN	W.WBHRSHUD	40,00								
	D08	IOP 5055	1Pl	H,\$HAKIBA	W.PAKHARIAN	N.NEHRSHAD	****								
	DOS	API.2022	IPI	H,\$HAKIBA	W.FAKHARIAN	N.VEHRSHAD	40,00	***	******		-	*	*****	**,**	***,****
	D01	MAR.2022	IPI		W.FAKHARIAN	N.VEHRSHAD	40,00	REV.	DESCRIPTIO	N	BY		DATE	BY	DATE
	DOO JAN,2022 IFI			H <i>S</i> HAKIBA	Ŵ.FAKHARIAN	N.VEHRSINAD	****		. Discini non		0	HECKE	D	REV.	APPR.
	REV. DATE P.O.I.S PREP.					APP.	AUT.		فيز جئوب ميباشد،	ناطق نفت	کٽ ملي ما	ملق به شر	حق أقلباس ما	خ این نقله و	اصل و کلیه تــ
	PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION								THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF						
P	ROJECT N	0.:	90			N.I.S.O.C./ FIELDS									
E	PC CONT	RACTOR:	I	EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT				BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES							
	- (		' <i>71</i> 8					GAS COMPRESSOR STATION							
	HIRGAN ENERGY - DESIGN & INSPECTION PEDCO COMPANY							DATE SCALE			DRAŴI	NG BY	CHECKED	BY PRC	NECT ENG.
			PANIES	PODU	,										
DI	RAWING 7	WILE:						NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED							VED
	Б	LECTRIC	L TYPICAL SCHEMA	TIC DIAG	RAMS FO	R MV PAN	EL	APPROVED FOR CONSTRUCTION BY: DATE:							
(VENDOR TITLE BLOCK)**	SCALE	SIZE	DRAWIN	IG NO.		SHEET NO.	REV.	BUDGET F	EF. LOCATION	SIZE	CLASS	SERI	AL NO.	SHEET	REVISION
	N. <b>T.</b> S	AS	BK-GCS-PEDCO-1	0-EL-DC-C	0001	01 OF 07	DOB	063-073-1	0164 P	2	Р	70	9040	01 OF 0	7 D06

NOTES

ABBREVIATION

REFERENCE DRAWING

BLECTRICAL LOAD LISH BK-CCB-PEDCO-120-EL-LI-0001 EXISTENT W SWITCHGEAR EXPANSION BK-CCB-PEDCO-120-EL-SL-0003 SINGLE LINE DIAGRAM

DRC. No.



	DOS	SEP.2023	PI	H,SHANBA	ÿ.pakharian	S.PARIANREPOUR	10,00	1							
	D05	MAY.2028	191	H,SHANBA	ÿ.pakharian	A.M.MOREENI	40,00	1							
	D04	DEC.2022	IPI	H,SHAKIBA	¥.pakharian	W.WEHRSHAD	40,00								
	D08	10175055	191	H,SHAKIBA	¥.pakharian	N.VEHRSHAD	40,00								
	DOS	API.2022	191	H,\$HAKIBA	¥.pakharian	N.VEHRSHAD	11,10	***	******			***		*,**	****
	D01	MAR.2022	191	H,\$HAKIBA	¥.fakharian	N.VEHRSHAD	eries	REV.	DESCRIPTIO		BY	D	ATE	BY	DATE
	D00 JAN,2022 IFI				ÿ.fakharian	N.VEHRSHAD	****	K.5V.	DESCRIPTIO			CHECKED		REV. APPR.	
						AUT.		خيز جتوب ميباشده	اطق نفت	رکټ ملی م	متعلق په ش	و حق أقلياس ،	خ این ظل	امل و کلیه د	
	PROJECT NAME: BINAK OLLPIELD DEVELOPMENT/SURFACE PACILIVIES GAS COMPRESSOR STATION							THE ORIGINA					TOCETH OPERTY	er With Of	
	PROJECT NO.: 971020							] <b>എ</b>	r b		N.I.S.O	.C./ I	FIELDS		
	EPC CONTRACTOR:			EPD/EPC CONTRACTOR (GC):				BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES							
	(	<b>A J</b>	' NA I	DEVELOPMENT				GAS COMPRESSOR STATION							
	HIRGAN		DESIGN & INSPECTION		do	MPANY		DAT	E SCAI	£	DRAWIN	C BY	CHECKED	BY PRO	JECT ENG
	HIRGAN		PANIES	PEDC	0										
	DRAWING	WITLE:						N	O CONSTRUCTIO	N PE	MITTED	UNLES	S DRAWING	APPRO	VED
	1	ELECTRIC/	AL TYPICAL SCHEM	ATIC DIAG	RAMS FO	R MV PAN	EL	APPROVED FOR CONSTRUCTION BY: DATE:							
(VENDOR TITLE BLOCK)**	SCALE	SIZE	DRAWIN	NG NO. SHEET			REV.	BUDGET	REF. LOCATION	SIZE	CLASS	SERIA	L NO.	SHEET	REVISION
	N. <b>T.</b> S	AS	BK-GCS-PEDCO-1	20-EL-DC-	0001	02 OF 07	D06	063-073-	9184 P	2	Р	709	040 0	2 OF 07	D06
			-												

TEM No.	SYMBOLS	DESCRIPTION	ITEM No.	SYMBOLS	DESCRIPTION
01	-@-	VOLTAGE TRANSFORMER	20	ø	THERMO SWITCH
02	$\ominus$	CURRENT TRANSFORMER	21	⊞	OPERATING MECHNISM
03		CURRENT TRANSFORMER (RING TYPE)	22	$\otimes$	SIGNAL LAMP
04		CORE BLANCD C.T.	23		DRAW OUT UNIT
05	\*	CIRCUIT BREAKER	24	A	AMMETER
06	Υ'	NORMALLY OPEN / CLOSE CONTACT	25	$\heartsuit$	VOLTMETER
07	o==7	LIMIT SWITCH	26	AS	AMMETER SWITCH
08	$\sum_{i=1}^{1}$	DISCONNECTOR (ISOLATOR)	27	VS	VOLTMETER SWITCH
09	é	CONTACTOR	28		BUS BAR
10	е	START/STOP PUSH BUTTON	29	<u> </u>	OPERATING BY TURNING
11	<u></u>	EARTHING SWITCH	30		THREE POSITION LATCH TYPE SELECTOR SWITCH
12	þ	THERMAL RELAY	31	~	LATCH
13		COIL	32	к₩н	KILO WATT HOUR METER
14	Ŕ		33	0	RELAY (NUMBER IN THE SYMBOLS INDICATES)
15	<u>/</u> + –/*	TWO POLE MINIATURE CIRCUIT BREAKER	34	ф	FUSE GENERAL SYMBOL
16	* *	TWO POLE EARTH LEAKAGE MINIATURE CIRCUIT BREAKER	35		ELECTRICAL HEATER
17	a-o- <b>₩</b> [+1]—	THREE POSITION SELECTOR SWITCH	36		CABLE NUMBER INDICATION
18	V	CABLE GLAND	37	-~~ 0R ⊚	TESTING TERMINAL
19	D OR O	TERMINAL	38	(M)—	OPERATING BY ELECTRIC MOTOR

2- 3-	TERMINAL 2- PANEL H POSITION 3- THE BUR	L. HEATER SHOU L. ROEN OF C.T. L. MANUFACTI AMPERE MOTOR AMMETE CURREN HERTZ DEGREE ( KILO AN KILO VC KILO W2	ABBREVIAT ABBREVIAT R SWI1 R SWI1 AT TRAI OF PROT APERE DLT		TAÐLE						
2- 3-	A M A A A A A B B A B A B A A A A A A A	L. HEATER SHOU L. ROEN OF C.T. L. MANUFACTI AMPERE MOTOR AMMETE CURREN HERTZ DEGREE (C KILO AN KILO VC KILO W/ MEDIUM VOLTAGE	ABBREVIAT ABBREVIAT R SWI1 R SWI1 AT TRAI OF PROT APERE DLT	ISTALLED IN SUI SHOULD BE FIN NON TCH NSFORMER	TAÐLE						
3- - - - - - - - - - - - - - - - - - -	A A BY PANE BY PANE BY PANE BY PANE BY PANE CT HZ IP KA KV KV VS VI KVA KWH	L RDEN OF C.T. L MANUFACTI AMPERE MOTOR AMMETE CURREN HERTZ DEGREE C KILO AN KILO VC KILO WA MEDIUM VOLTMET VOLTAGE	. & V.T. URE. R SWI1 IT TRAI OF PROT I/PERE DLT	SHOULD BE FIN TON ICH NSFORMER	ALIZED						
	BY PANE A M AS CT HZ IP KA KV KW V V V V V V V KVA KWH	AMPERE MOTOR AMMETE CURREN HERTZ DEGREE ( KILO AN KILO VC KILO WA MEDIUM VOLTAGE	ABBREVIAT R SWIT IT TRAI OF PROT MPERE DLT	ION ICH NSFORMER							
	M AS CT HZ IP KA KV KV VS VI KVA KWH	AMPERE MOTOR AMMETE CURREN HERTZ DEGREE (C KILO AM KILO VC KILO WA MEDIUM VOLTMET VOLTAGE	R SWIT NT TRAI OF PROT VPERE DLT	ICH NSFORMER							
	M AS CT HZ IP KA KV KV VS VI KVA KWH	AMPERE MOTOR AMMETE CURREN HERTZ DEGREE (C KILO AM KILO VC KILO WA MEDIUM VOLTMET VOLTAGE	R SWIT NT TRAI OF PROT VPERE DLT	ICH NSFORMER							
	M AS CT HZ IP KA KV KV VS VI KVA KWH	AMPERE MOTOR AMMETE CURREN HERTZ DEGREE (C KILO AM KILO VC KILO WA MEDIUM VOLTMET VOLTAGE	R SWIT NT TRAI OF PROT VPERE DLT	ICH NSFORMER							
	M AS CT HZ IP KA KV KV VS VI KVA KWH	AMPERE MOTOR AMMETE CURREN HERTZ DEGREE (C KILO AM KILO VC KILO WA MEDIUM VOLTMET VOLTAGE	R SWIT NT TRAI OF PROT VPERE DLT	ICH NSFORMER							
	M AS CT HZ IP KA KV KV VS VI KVA KWH	MOTOR AMMETE CURREN HERTZ DEGREE (C KILO AN KILO VC KILO WA MEDIUM VOLTMET VOLTAGE	R SWIT NT TRAI DF PROT I/PERE DLT	NSFORMER							
	AS CT HZ IP KA KV KW VS VI KVA KWH	AMMETE CURREN HERTZ DEGREE ( KILO AN KILO VC KILO WA MEDIUM VOLTMET VOLTAGE	NT TRAI	NSFORMER							
	CT Hz IP KA KV KW VS VI KVA KWH	CURREN HERTZ DEGREE ( KILO AN KILO VC KILO WA MEDIUM VOLTME	NT TRAI	NSFORMER							
	Hz IP KA KV KW VS VI KVA KWH	HERTZ DEGREE ( KILO AN KILO VO KILO WA MEDIUM VOLTME VOLTAGE	OF PROT IPERE OLT								
i i i i i i i i i i i i i i i i i i i	IP KV KW VS VI KVA	degree ( Kilo AN Kilo VC Kilo WA Medium Voltme <sup>-</sup>	/PERE DLT	ECTION BY EN							
i i i k k	KA KW MV VS VI KVA KWH	KILO AN KILO VC KILO WA MEDIUM VOLTAGE	/PERE DLT	ECTION BY EN							
i i k k	KV KW MV VS VI KVA KWH	KILO VO KILO WA MEDIUM VOLTME <sup>-</sup> VOLTAGE	DLT		CLOSURE						
i K K	KW MV VS VI KVA KWH	KILO WA MEDIUM VOLTME VOLTAGE		KILO VOLT							
r K K	MV VS VI KVA	MEDIUM VOLTME VOLTAGE									
ĸ	VS VI KVA KWH	VOLTME VOLTAGE	MEDIUM VOLTAGE								
к к	VI KVA KWH	VOLTAGE									
к к	KVA KWH										
к	к₩н	KILUVUL									
		KILOWATT-HOUR									
v l	VCB				D						
1	TCS			UIT BREAKE	к						
	KVAR	TRIP COIL SUPERVISION KILOVAR									
24	SWGR	SWITCH	GLAR								
			REFERENCE DRAWING DRC. No.								
	BLEC	CURICAL LOAD L	BLECTRICAL LOAD LIST BK-CCS-PEDCO-120-EL-LI-000 T MY SWITCHCBAR EXPANSION BINCLE LINE DIADRAM BK-CCS-PEDCO-120-EL-SL-000								

ITEM No.	SYMBOLS	DESCRIPTION	ITEM No.	SYMBOLS	DESCRIPTION		3- THE BURDEN OF C.T. & V.T. SHOULD BE FINALIZED BY PANEL MANUFACTURE.
39		LIGHTING ARRESTER OR SURGE ARRESTER	58	50	INSTANTANEOUS OVER CURRENT RELAY		
40	AT	AMMETER TRANSDUCER	59	(51)	AC TIME OVER CURRENT RELAY		ABBREVIATION
41	VT	VOLT TRANSDUCER	60	(50G)	SENSITIVE EARTH FAULT RELAY		A AMPERE M MOTOR
42	KWT	KILO WATT TRANSDUCER	61	(50N)	INSTANTANEOUS EARTH FAULT RELAY		AS AMMETER SWITCH CT CURRENT TRANSFORMER Hz HERTZ
43	KVART	KILO VAR TRANSDUCER	62	(51N)	AC INVERSE TIME EARTH FAULT RELAY		IP DEGREE OF PROTECTION BY ENCLOSE
44	CosøT	POWER FACTOR TRANSDUCER	63	(74TCS)	TRIP COIL SUPERVISION RELAY		KV KILO VOLT KW KILO WATT
45	Cos	POWER FACTOR METER	64	86	LOCK OUT RELAY		MV MEDIUM VOLTAGE VS VOLTMETER SWITCH
46	Ŵ	WATT METER	65	66	TOO FREQUENT START RELAY		VI VOLTAGE TRANSFORMER KVA KILOVOLT-AMPERE
47	(var)	VAR METER	66	(49R)	WINDING OVER TEMPERATURE RELAY		KWH KILOWATT-HOUR VCB VACUUM CIRCUIT BREAKER
48	CO	CLOSING COIL	67	(49CR)	LOCKED ROTOR RELAY		TCS TRIP COIL SUPERVISION KVAR KILOVAR SWGR SWITCH GEAR
49	CO	SHUNT TRIP	68	(86T)	INTERTRIP RECEIVE RELAY		
50	RS	AUXILIARY RELAY	69				REFERENCE DRAWING DRC. No.
51	XF	AUXILIARY RELAY	70				BILGORIGAL DISANTA DI ALCONTROLLA LINE DI AGUARDA DI ALCONTRALI AL LINE DI AGRAMI EXISTENTI VI STITUTIGEAR EXPANSION BK-GCS-PEDCO-120-EL- SINGLE LINE DI AGRAM
52	27	UNDER VOLTAGE RELAY	71				
53	(27M)	INDUCED VOLTAGE RELAY	72				
54	33	POSITION SWITCH	73		006 SRP.2023 71	H.SHAKIBA W.YAKHARI.UT S.PARUJUBROUR **	
55	38	BEARING PROTECTIVE DEVICE	74		006 MJX25826 [19] 004 08453022 [19] 009 JUL2022 [19] 009 JUL2022 [19]	H,SHAUDA W,PAKHARUK A,LAUKUSIDI	144
56	(46)	REVERSE-PHASE OR PHASE- BALANCE CURRENT RELAY	75		D01 MJA.2022 IPI   D00 AM.2022 IPI   REV. DATE IPI   REV. DATE IPI   PROJECT NARE SINAK OU	H SHAKBA W.FAKHARUN W.VEHRSHUD ++ H SHAKBA W.FAKHARUN W.VEHRSHUD ++ PREP. CHK. APP. AU FIELD DEVELOPMENT/SURPACE FACILITIES	ده.
		THERMAL RELAY	76		PROJECT NO.: EPC' CONTRACTOR:	GAS COMPRESSOR STATION 971020 EPD/EPC CONTRACTOR (CC): PETROIRAN DEVELOPMENT DEVELOPMENT	THE COPYRICHT THEORY AR THE SOLF PROPERTY I N.I.S.O.C./ FIELDS BINAK OLFRED DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION DAME
ر <b>س تابل</b> BLEAU 🐕					(VENDOR TITLE BLOCK)** SCALE SIZE D	HEMATIC DIAGRAMS FOR MV PANEL RAWING NO. SHEET NO. F	DATE SCALE DRAVING BY CHECKED BY PRC   NO CONSTRUCTION PERMITTED UNLESSI DRAVING APPROVED PERMITTED   APPROVED FOR CONSTRUCTION BY: DATE   BUDGET REV. LOCATION BY: DATE   BUDGET REV. LOCATION BY: DATE   Ge 065-07-045 P P 700640 DS 00 0°

NOTES! 1- MAX. TWO WIRES SHOULD BE CONNECTED TO ONE

TERMINAL.







