

INDEX SHEET

SHEET No.	DESCRIPTION	D00	D01	DOS	D03	D04
01	COVER SHEET	✓	√	✓	√	✓
02	INDEX SHEET	√	✓	✓	√	✓
03	ABBREVIATIONS	\	\	\checkmark	\	\checkmark
04	SYMBOL & LEGEND (1/2)	\	\	\checkmark	\	\checkmark
05	SYMBOL & LEGEND (2/2)	\checkmark	✓	✓	√	\checkmark
06	TYPE F1:4-POLE MCCB FEEDER LV non motor type feeder, I<63A	\checkmark	✓	\checkmark	\checkmark	\checkmark
07	TYPE F2:4-POLE MCCB FEEDER LV non motor type feeder, 63A=<<100A	√	✓	\checkmark	√	\checkmark
08	TYPE F3:4-POLE MCCB FEEDER LV non motor type feeder, 100a=<1	✓	\	\checkmark	✓	\checkmark
09	TYPE M2: LV motor type feeder, 4k₩ ≤ P < 18.5k₩	\checkmark	√	\checkmark	√	\checkmark
10	TYPE M4: DIRECT ON LINE MOTOR STARTER FEEDERS FOR 30kW ≤ P	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
11	INCOMING A- 0.4 KY	\checkmark	✓	\checkmark	\checkmark	\checkmark
12	INCOMING A- 0.4 KV	\checkmark		\checkmark	\checkmark	\checkmark
13	INCOMING A- 0.4 KV	\checkmark		\checkmark	√	\checkmark
14	INCOMING C- 0.4 KY	\checkmark	√	√	√	
15	INCOMING C- 0.4 KV	√		√	√	√
16	INCOMING C- 0.4 KV	√		√	√	√

LEGEND	
REFERENCE DRAWING	DRG. No.
SINGLE LINE DIAGRAM FOR LV SWITCHGEAR OF WELL PADS	BK-SSGRU-PEDCO-110-EL-SU-0
CONTROL LOGIC DIAGRAM FOR LV INCOMERS OF WELL PADS	BK-SSGRL-PEDCO-110-EL-LD-C
KEY PLAN	
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ſ	D04	SEP.2022	IPI	H,SHAKIBA	Ú.PÁKHARSAN	W.WEHREMAD	24,544						
Г	D03	JUL-5055	IPI	H.SHAKIBA	Ú.PÁKHARSAN	W.WEHREMAD	80,90s						
П	200	\$202.YAM	IFI	H,SHAKIBA	Ú.PAKHARIAN	W.WEHRSHAD	M,M	***	******	80,01	***,****	89,69	***,****
Γ	DO1	APR,2022	IPI	K,SHAKIBA	Ú.PAKHARIAN	W.WEHRSHAD	M,10.	REV.	DESCRIPTION	BY	DATE	BY	DATE
Γ	D00	120S,DUA	IPI	K,SHAKIBA	Ú.PÁKHARIAN	W.MEHREMAD	24,544	I KEV.	DESCRIPTION	CHE	CKED	REV.	APPR.
Г	REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT20?	91 96 B	? o4;2 199 1 9x9 kx2 o99	99991 *9991	kµ?? . p? h	222 k22 hdī	: . \$\mu n
	PROJECT	NAME:	BINAK OILPIELD DEVE	LOPMENT/S CENE		E WORK PA	CKACES	4	THE ORIGINAL AND THE COPYRIG	HT THEREIN	ARE THE SOI	E PROPERTY	
Г	PROJECT	NO.:		9710	50			4 54€	7	N.I.S.O.C	./ FIELD	i\$	

EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES

EPD/EPC CONTRACTOR (CC): PETROIRAN DEVELOPMENT COMPANY

BINAK OILFIELD DEVELOPMENT SUB-SURFACE WORK PACKAGES GENERAL

DATE SCALE DRAWING BY CHECKED BY PROJECT ENG. NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

(VENDOR TITLE BLOCK)™

DRAWING TITLE:
ELECTRICAL TYPICAL SCHEMATIC DIAGRAMS FOR LY PANELS OF WELL PADS | SECRETARION TYPICAL SCHEMATIC DIAGRAMS FOR LV PANELS OF WELL PADS | STEEP FOR CONSTRUCTION FIRST UNCLASS DIAGRAM APPROVOUGH- | STEEP FOR CONSTRUCTION | STEEP FOR CONSTRU

1 - ARRREVIATIONS

PROTECTING FARTH MAIN SWITCHING DEVICE PE: MAIN CONTACTOR SP: SPRING CHARGED CONTACT K1: MOTOR PROTECTION CIRCUIT BREAKER STOP P/B MPCR: SP. MCCB: MOULDED CASE CIRCUIT BREAKER START P/B ST: MCB: MINIATURE CIRCUIT BREAKER COMMON CIRCUIT BREAKER TRIP CBT: COMMON CIRCUIT READY K#: AUXILIARY RELAY NO.# CBR: COMMON CIRCUIT FAULT CBF: TC: TRIP COIL OF CIRCUIT BREAKER (SHUNT TRIP) CIRCUIT BREAKER CLOSING COIL CCB: CB: CIRCUIT BREAKER CIRCUIT BREAKER OPENING COIL OCB: CC: CLOSE COMMAND DIESEL GENERATOR DG: OPEN COMMAND OC: BUS TIE BT: CIRCUIT BREAKER FAULT PUSH BUTTON CF: P/B: CIRCUIT BREAKER READY CBR: PBC: PUSH BUTTON CLOSE MAT: MANUAL ASYNCHRON TRANSFER MANUAL SYNCHRON TRANSFER MST: ATOUMATIC TRANSFER MANUAL TRANSFER MT: AT: DIESEL GENERATOR CIRCUIT BREAKER DIESEL GENERATOR CONTROL PANEL DGCB: DGCP: EMERGENCY SHUT DOWN LOCAL CONTROL STATION ESD: LCS+ MAKE ON FAULT MOF: IRP. INTERPOSING RELAY PANEL BREAK ON FAULT BOF:

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.
- CONTROL CIRCUIT VOLTAGE FOR OUTGOING IS 230 VAC WHICH WILL BE SUPPLIED FOR EACH LV CUBICLE. IN OTHER WORDS FOR EACH LV CUBICLE ONE ISOLATED DRY TYPE TRANSFORMER SHALL BE CONSIDERED BY VENDOR.
- 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 M4, CURRENT AND VOLTAGE FAULT SHALL BE CONSIDERED SEPARATELY BY VENDOR.

D04	SEP.2022	IPI	H.SHAKIBA	Ú.PÁKHARSAN	W.WEHRSHAD	34,54						
D03	JUL-2022	IPI	KSHAKIBA	Ú.PÁKHARSAN	W.WEHRSHAD	20,00						
200	\$202.YAM	IFI	H,SHÁKIBÁ	V LPAKHARIAN	M.WEHRSHAD	10,00	***	******	**.**	***,****	**.**	***,****
D01	APR,2022	IPI	H,SHÁKIBÁ	Ú.PAKHARIAN	M.MEHRSMAD	44,04	REV.	DESCRIPTION	BY	DATE	BY	DATE
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LECEND

SINGLE LINE DIAGRAM FOR LW SWITCHGEAR
OF WELL PADS

CONTROL LOGIC DIAGRAM FOR LW INCOMERS

EK_SSIGRL_DEDCO_110_EL_SL

EK_SSIGRL_DEDCO_110_EL_SL

EK_SSIGRL_DEDCO_110_EL_SL

SYMBOLS

SYMBOLS	DESCRIPTION	SYMBOLS	DESCRIPTION
01	MOULDED CASE CIRCUIT BREAKER(3 POLE)	27)	UNDER VOLTAGE RELAY
MCCB 5 5	WITH OVERLOAD /OVER CURRENT RELAY(MCCB)	47)	PHASE SEQUENCE RELAY
MCCB S S	MOULDED CASE CIRCUIT BREAKER(4 POLE)	M	MOTOR
MCC S	WITH OVERLOAD /OVER CURRENT RELAY(MCCB)	49	THERMAL OVER LOAD RELAY
(M)	MOTORIZED AIR CIRCUIT BREAKER(4 POLE)	(50)	INSTANTANEOUS OVER CURRENT RELAY
ACB	WITH BULT-IN RELAY	(51)	INVERSE TIME OVER CURRENT RELAY
		(27)	UNDER VOLTAGE RELAY
	EMERGENCY STOP	(25)	SYNCHRON CHECK RELAY
QFF OF	ELECTROMAGNETIC ACTUATOR RELEASE TIMED RELAY (ACTUATE INSTANTLY, RESETS AFTER # SECONDS)	64)	RESTRICTED EARTH FAULT RELAY
Su 🗵	ELECTROMAGNETIC ACTUATOR PICK-UP TIMED RELAY (ACTUATE AFTER #SECONDS, RESETS INSTANTLY)	86)	LOCKOUT RELAY
H	NO CONTACT ON DELAY	\otimes	SIGNAL LAMP (R:RED, G:GREEN, W:WHITE, Y:YELLOW)
# #	NC CONTACT OFF DELAY		PROTECTION LOGIC SIGNAL MECHANICAL INTERCONNECTION
	DELAY ON BY # SECOND		OPERATING COIL OF ELECTROMAGNETIC ACTUATOR
OFF #	DELAY OFF BY # SECOND	\	NORMALLY OPEN CONTACT
	GLAND		BIMETAL
-(₽ - ₽)	WITHDRAW	PH.C.	PHASE CONTROL RELAY

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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
	NORMALLY CLOSE CONTACT		SWITCHING DEVICE
	LAMP (FOR LIGHTING)		(GENERAL SYMBOL)
Ц	SOCKET	/q	CONTACTOR (CONTACT OPEN IN THE UNOPERATED POSITION)
	SPACE HEATER	&	AND LOGIC
	TRANSFORMER		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
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	P: ACTIVE POWER Q: REACTIVE POWER	\vee	VOLTMETER
Ţ	EARTH	A	AMMETER
47 49 50G	MOTOR PROTECTION RELAY		

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