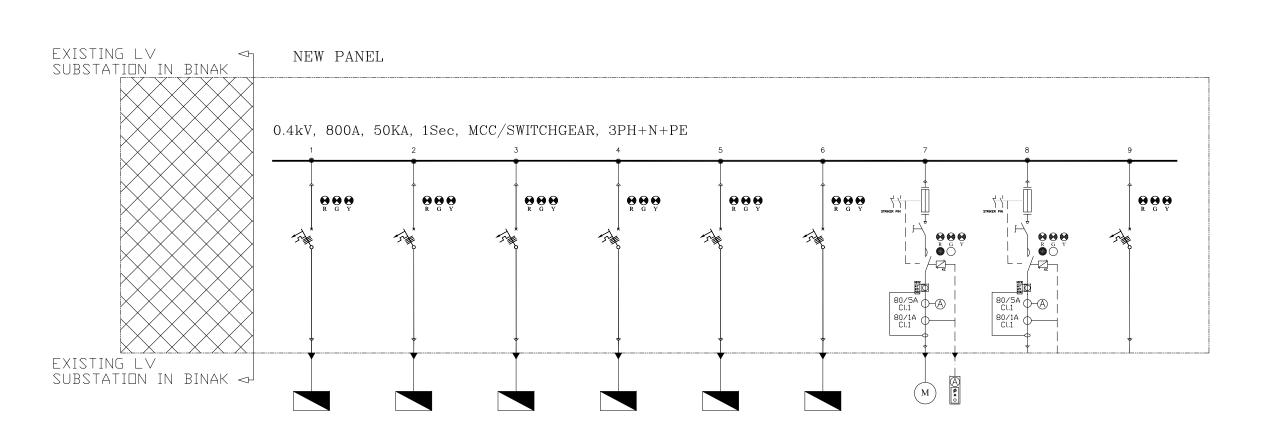
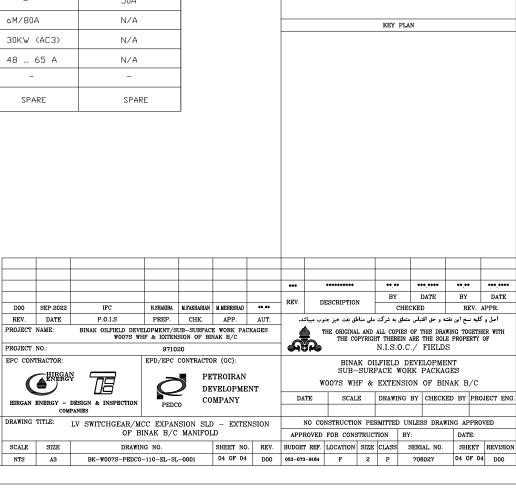


NOTES: 1- ALL AMMETERS OF MOTORS HAVE TO BE 6xIn. 2- CATEGORY DESCRIPTION: F1: SIMPLE 4-POLE MCCB FEEDER WITH THERMAL/MAGNETIC TRIPS, FOR I<63A FEEDERS. F2: SIMPLE 4-POLE MCCB FEEDER WITH THERMAL/MAGNETIC TRIPS, FOR 63A=<I<100A FEEDERS F3: SIMPLE 4-POLE MCCB FEEDER WITH THERMAL/MAGNETIC TRIPS, FOR 100A=<I FEEDERS. F4: SIMPLE 3-POLE MCCB FEEDER WITH THERMAL/MAGNETIC TRIPS, FOR I<63A FEEDERS. F5: SIMPLE 3-POLE MCCB FEEDER WITH THERMAL/MAGNETIC TRIPS, FOR 63A=<I<100A FEEDERS F6: SIMPLE 3-POLE MCCB FEEDER WITH THERMAL/MAGNETIC TRIPS, FOR 100A=<I FEEDERS. F7: SIMPLE 2-POLE MCCB FEEDER FOR FEEDING SINGLE PHASE LOADS (PH+N OR 2-PH) M1: DIRECT ON LINE MOTOR STARTER FEEDERS FOR P < 4kW (SWITCH FUSE + CONTACTOR + BIMETAL + R/L SIGNALING) M2: DIRECT ON LINE MOTOR STARTER FEEDERS FOR 4kW \leq P < 18.5kW (SWITCH FUSE + CONTACTOR + BIMETAL + R/L SIGNALING + R/L AMMETER) M3: DIRECT ON LINE MOTOR STARTER FEEDERS FOR 18.5kW ≤ P < 30kW REFERENCE DRAWING DRG No. SWITCH FUSE + CONTACTOR + BIMETAL + R/L SIGNALING + R/L AMMETER + (49, 50G + PHASE CONTROL) ELECTRICAL TYPICAL SCHEMATIC DIAGRAMS M4: DIRECT ON LINE MOTOR STARTER FEEDERS FOR 30kW \leq P (SWITCH FUSE + CONTACTOR + R/L SIGNALING+ R/L AMMETER + MOTOR PROTECTION RELAY(MPR), (49, 50G & PHASE CONTROL) 3- CORE BALANCE CT RATING OF EARTH LEAKAGE RELAYS SHALL BE ACCORDING TO RELAY MANUFACTURER STANDARD. 4- VOLTAGE AND CURRENT TRANSFORMERS SHALL HAVE APPROPRIATE VA. 5- THIS SWITCHGEAR SHALL BE DESIGNED, MANUFACTURED, INSPECTED AND TESTED IN ACCORDING WITH THE APPLICABLE SECTION OF IPS-E-EL-100(1) & IPS-E-EL-143(3) 6- ALL SWITCH FUSES SHALL BE EQUIPPED WITH STRIKER PIN 7- ALL EQUIPMENT SIZING SHALL BE FINALIZED BY MANUFACTURER BASED ON SITE CONDITION. IN ADDITION, TYPE 2 OF COORDINATION SHALL BE FOLLOWED BY VENDOR. 8- WHEN FUNCTION 27 IS ACTIVATED, ALL OUTGOING FEEDERS SHALL BE TRIPPED. 9- STATUS FROM BUS TIE & LV INCOMING TO DCS SHALL BE CONSIDERED BY VENDOR. 10- STOP & START PUSH BUTTON SHALL BE CONSIDERED ON INCOMINGS & BUS-TIEs. 11- 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. 12- FOR FEEDER WITH TYPE M3,M4, CURRENT AND VOLTAGE FAULT SHALL BE CONSIDERED SEPARATELY BY VENDOR BY DATE D00 SEP 2022 H SHAKIRA M PAKHARIAN M MEHRSHAD CHECKED REV APPR REV. DATE P.O.I.S PREP. CHK. APP. AUT. 13- MICROPROCESSOR TYPE PROTECTIVE RELAYS SHALL BE EQUIPPED WITH RS 485 TO SEND SIGNALS BY THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES WOO7S WHF & EXTENSION OF BINAK B/C SERIAL LINK PROJECT NO. 971020 EPC CONTRACTO EPD/EPC CONTRACTOR (GC) BINAK OILFIELD DEVELOPMENT HIRGAN 14- MCCB TYPE OUTGOING FEEDER SHALL BE EQUIPED WITH ROTARY SWITCH SUB-SURFACE WORK PACKAGES PETROIRAN EXTENSION OF BINAK B/C DEVELOPMENT COMPANY 15- CONNECTION BETWEEN MEASURING UNIT AND DCS SHALL BE RS 485 TO SEND SIGNALS BY SERIAL LINK. HIRGAN ENERGY PEDCO LV SWITCHGEAR/MCC EXPANSION SLD - EXTENSION OF BINAK B/C MANIFOLD NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVEI APPROVED FOR CONSTRUCTION BY:

SCALE SIZE



CATEGORY	F1	F1	F1	F1	F1	F1	M4	M4	F1
CODE	MANIFOLD-110-UPS-001	MANIFOLD-110-UPS-002	MANIFOLD-110-UPS-BYPASS	MANIFOLD-24-CHG-001	MANIFOLD-24-CHG-002	NON UPS	P-1701	SPARE	SPARE
POWER (kW)	(120A×110V)/0.9 14.7KW	(120A×110V)/0.9 14.7KW	(72A×110V)/0.9 8.8KW	(125.1A×24V)/0.9 3.4KW	(125.1A×24V)/0.9 3.4KW	1.82KW	30KW	30KW	(120A×110V)/0.9 14.7KW
C.B TYPE/RATING	50A	50A	32A	16A	16A	10A	_	-	50A
FUSE TYPE/RATING	N/A	N/A	N/A	N/A	N/A	N/A	aM/80A	aM/80A	N/A
CONTACTOR RATING (A)	N/A	N/A	N/A	N/A	N/A	N/A	30KW (AC3)	30KW (AC3)	N/A
OVER LOAD SETTING RANGE	N/A	N/A	N/A	N/A	N/A	N/A	48 65 A	48 65 A	N/A
CABLE SIZE	-	-	-	-	-	-	-	-	-
DESCRIPTION OF FEEDER	110 VAC FOR INSTRUMENT (CHARGER A)	110 VAC FOR INSTRUMENT (CHARGER B)	110 VAC FOR INSTRUMENT (BYPASS TRANSFORMER)	24VDC FOR F&G (CHARGER A)	24VDC FOR F&G (CHARGER B)	NON UPS POWER FOR INSTRUMENT	OIL SUMP PUMP	SPARE	SPARE



(VENDOR TITLE BLOCK)**

NOTES

LEGEND

DRG. No.

BK-GCS-PEDCO-120-EL-DG-0002

REFERENCE DRAWING

ELECTRICAL TYPICAL SCHEMATIC DIAGRAMS FOR LV PANELS