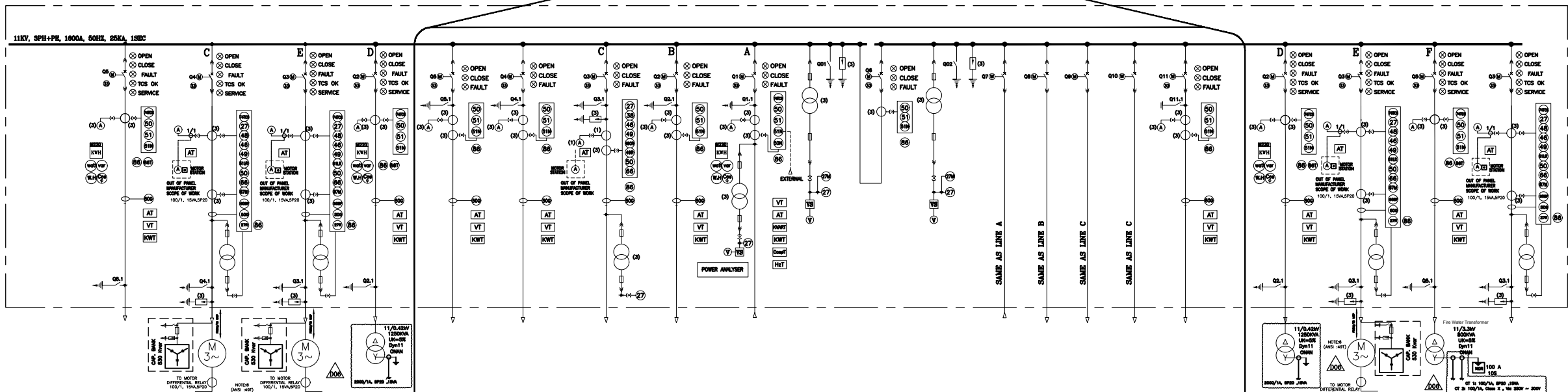
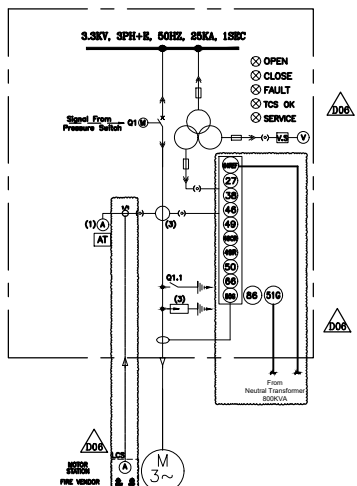


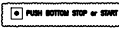
EXISTENT MV SWITCHGEAR EXPANSION SINGLE LINE DIAGRAM

EXISTING

[illegible][illegible]

NOTES

- 1- FOR CONTROL AND WIRING DIAGRAM CATEGORY (C2, C3)
 - REFER TO DOC. NO. "BK-GCS-PEDDO-120-13--CG-00001"
 - THE GCS-11-1-SING RUGSEW MAY BE USED IN BOTH SIDE & NEW OUTDOOR FEEDERS WILL BE CONSIDER ON EXTENSION
- 2- ADD KVA TRANSFORMER WILL POWER 3.3 KV BUS WHICH WILL SUPPLY THIS WATER PUMP.
- 3- IF ANY VOLTAGE & CURRENT SAMPING FOR CAPACITOR BANKS OF COMPRESSORS IS REQUIRED SHALL BE CONSIDERED BY VENDOR.
- 4- DIFFERENTIAL LOW IMPEDANCE PROTECTION SHALL BE PROVIDED FOR MOTORS ABOVE 1000 KW.
- 5- PROTECTIONS CONSIST OF REQUIRED PROTECTIONS FOR POWER CABLE & 47% FUNCTION SHALL BE CONSIDERED IN 3.3KV PANEL.
- 6- LOCKOUT RELAY SHALL HAVE FLAG.
- 7- MOTOR RTD SIGNALS WILL BE SENT TO UCP.

	VOLTAGE TRANSFORMER	
	CURRENT TRANSFORMER	
	CURRENT TRANSFORMER (RING TYPE)	
	CIRCUIT BREAKER	
	EARTHING SWITCH	
	CABLE GLAND	
	SIGNAL LAMP	
	DRAWOUT UNIT	
	AMMETER	
	VOLTMETER	
	VOLTMETER SWITCH	
	BUS BAR	
	KILO WATT HOUR METER	
	RELAY (NUMBER IN THE SYMBOLS INDICATES FUSE GENERAL SYMBOL	
	TESTING TERMINAL	
	—OPERATING BY ELECTRIC MOTOR	
	—LIGHTNING ARRESTER OR SURGE ARRESTER	
	AMMETER TRANSDUCER	
	VOLT TRANSDUCER	
	KILO WATT TRANSDUCER	
	KILO VAR TRANSDUCER	
	POWER FACTOR TRANSDUCER	
	POWER FACTOR METER	
	WATT METER	
	VAR METER	
	UNDER VOLTAGE RELAY	
	INDUCED VOLTAGE RELAY	
	POSITION SWITCH	
	BEARING PROTECTIVE DEVICE	
	REVERSE-PHASE OR PHASE-BALANCE CURRENT RELAY	
	MACHINE THERMAL RELAY	
	INSTANTANEOUS OVER CURRENT RELAY	
	AC TIME OVER CURRENT RELAY	
	SENSITIVE EARTH FAULT RELAY	
	INSTANTANEOUS EARTH FAULT RELAY	
	AC INVERSE TIME EARTH FAULT RELAY	
	LOCK OUT RELAY	
	TOO FREQUENT START RELAY	
	WINDING OVER TEMPERATURE RELAY	
	LOCKED ROTOR RELAY	
	DIFFERENTIAL RELAY FOR MV MOTOR	
	TRIP CIRCUIT SUPERVISION	
	INTER TRIP RECEIVE RELAY	

REFERENCES	
ELECTRICAL LOAD LIST	BK-GCS-PEDCO-120-EL-LI-0001
ELECTRICAL TYPICAL SCHEMATIC DIAGRAMS FOR MY PANEL	BK-GCS-PEDCO-120-EL-DG-0001

ABBREVIATION	
A	AMPERE
M	MOTOR
AS	AMMETER SWITCH
CT	CURRENT TRANSFORMER
Hz	HERTZ
IP	DEGREE OF PROTECTION BY ENCLOSURE
KA	KILO AMPERE
KV	KILO VOLT
KW	KILO WATT
MV	MEDIUM VOLTAGE
VS	VOLTMETER SWITCH
VI	VOLTAGE TRANSFORMER
KVA	KILOVOLT-AMPERE
KWH	KILOWATT-HOUR
VCB	VACUUM CIRCUIT BREAKER
ICS	TRIP COIL SUPERVISION
KVAR	KILOVAR
SWGR	SWITCH GEAR

[illegible]

اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت غیز جنوب میباشد.

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Existent MV Switchgear Expansion Single Line Diagram						APPROVED FOR CONSTRUCTION				BY:		DATE:											
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