

REFERENCE DRAWING		
S.No.	DRAWING No.	DESCRIPTION
1	0259-ELA-6506	SEPECIFICATIONS OF UPS

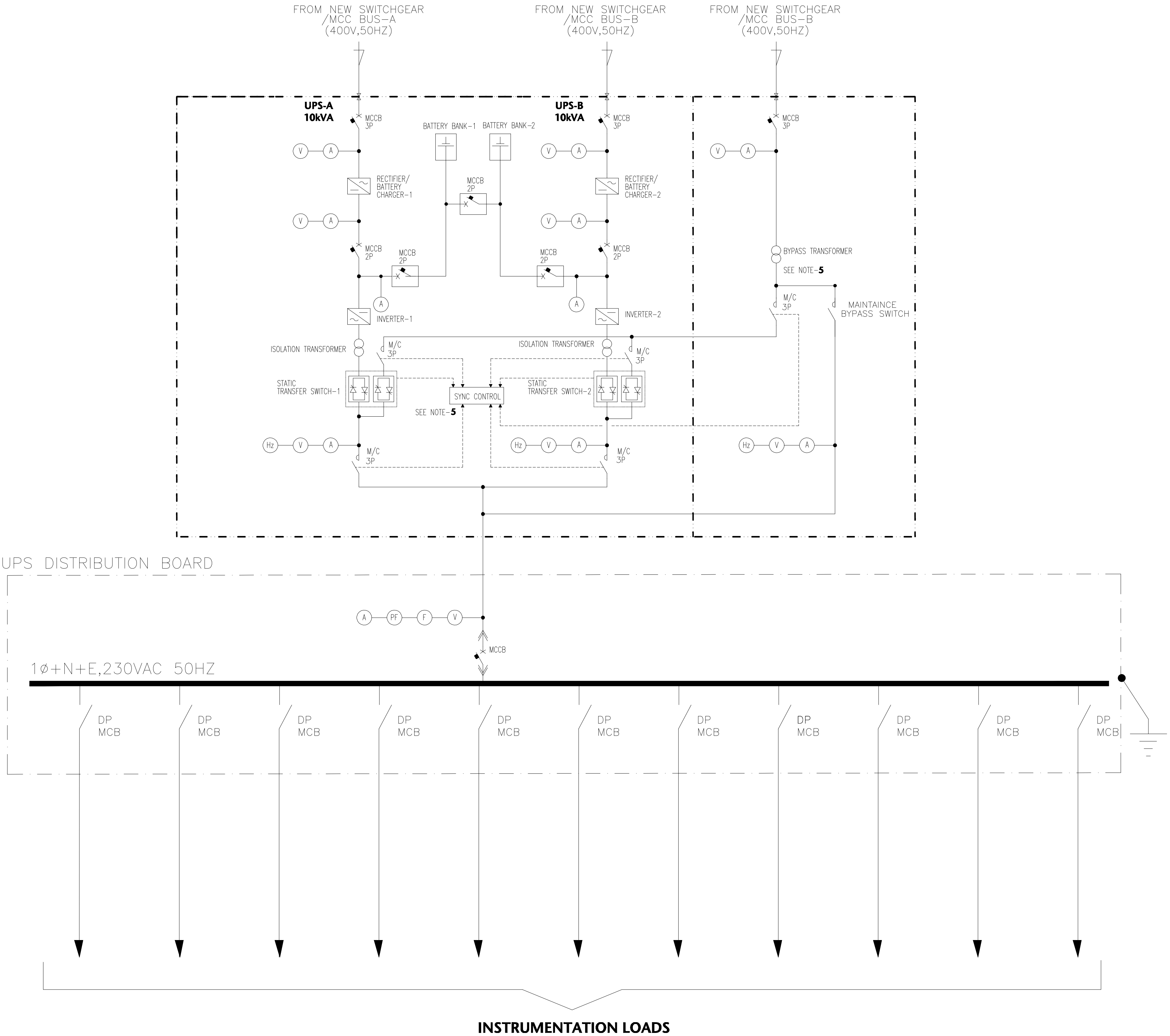
NOTES:-

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE DOC. NO.0259-ELA-6506.
- BATTERIES SHALL BE OF SEALED LEAD ACID TYPE, MAINTENANCE FREE WITH BACK UP TIME OF 60 MINUTES (MINIMUM AT FULL LOAD).
- BATTERY BANK AND CHARGER SIZES SHALL BE CALCULATED BY THE UPS VENDOR/CONTRACTOR.
- UPS SYSTEM (BATTERY BANK AND DISCONNECT SWITCH, CHARGER, INVERTERS, BY PASS SWITCH AND DISTRIBUTION BOARD) SHALL BE INSTALLED IN NEW CONTROL ROOM.
- THE OUTPUT VOLTAGE OF THE INVETER-1 & 2 SHALL BE SYNCHRONIZED WITH INVERTER 2 & 1 (50ø LOADED EACH), AND WITH THE BY PASS SUPPLY VOLTAGE. UPON TRIPPING/FAILURE OF ANY INVERTER THE LOAD SHALL BE TRANSFERRED TO THE OTHER INVERTER. UPON TRIPPING/FAILURE OF BOTH THE INVERTER THE LOAD SHALL BE TRANSFERRED TO THE BY PASS SUPPLY.
- MCCBs SHALL BE EQUIPPED WITH AUXILLARY CONTACTS FOR REMOTE ALARM ON TRIPPING.
- UPS SHALL BE PROVIDED PROVISION OF BELOW MENTIONED HARD WIRED VOLT FREE SIGNAL FOR INTERFACING WITH DCS FOR MONITORING OF ALARM AND FOLLOWING MINIMUM INFORMATION.
  - UPS OUTPUT FAILURE
  - INCOMING POWER SUPPLY FAILURE.
  - AUTOMATIC BYPASS FAILURE.
  - AUTOMATIC CUT OUT DISTRIBUTION RELEASE
  - BATTERY BACK TIME.
  - BATTERY VOLTAGE MONITORING WITH HIGH / LOW VOLTAGE ALARM.
- VENDOR/CONTRACTOR SHALL PERFORM ALL INTERCONNECTION CABLES BETWEEN BATTERY BANK AND UPS SYSTEM.
- NEW DISTRIBUTION BUS AMPERE RATING AND SHORT CIRCUIT RATING TO BE EVALUATED BY VENDOR/CONTRACTOR.
- THE VENDOR/CONTRACTOR SHALL PROVIDE REGULATED OUTPUT.
- THE INTERCONNECTING CABLES FORM UPS AND DB PLACED AT CONTROL ROOM TO NEW INSTRUMENT PANELS AND DCS SHALL BE PROVIDED BY CONTRACTOR.
- THE AC UPS SHALL BE DESIGNED WITH 25%% SPARE LOADING CAPACITY FOR FUTURE.
- THE AC-DISTRIBUTION BOARD SHALL CATER TO THE UPS LOADS, AND SHALL BE PROVIDED WITH 25%% SPARE CIRCUIT BREAKERS FOR FUTURE LOADS.
- ALL THE INSTRUMENTATION LOADS I.E. FEC COMPRESSOR'S UCPS, AIR COMPRESSOR'S CONTROL PANELS, WORKSTATIONS, PRINTER ETC. SHALL BE SUPPLIED FROM UPS DISTRIBUTION BOARD
- EPC CONTRACTOR SHALL FINALIZE THE UPS RATING DURING DETAILED ENGINEERING. HOWEVER, RATING MENTIONED IN THIS DRAWING SHALL BE CONSIDERED AS MINIMUM.

SYMBOLS	DESCRIPTION
	MCCB
	MAGNETIC CONTACTOR
	MCB
	BATTERY BANK
	BATTERY CHARGER/RECTIFIER
	INVERTER
	ISOLATION/BYPASS TRANSFORMER
	STATIC TRANSFER SWITCH
	AMMETER
	POWER FACTOR METER
	FREQUENCY METER
	VOLTMETER

ISSUED FOR TENDER

0	07-01-2022	ISSUED FOR TENDER	MAA	ASB	MAS
REV.	DATE	DESCRIPTION OF REVISION	DRAWN	CHECKED	APPR.
CLIENT: OIL & GAS DEVELOPMENT COMPANY LTD. 00001 HOUSE TOWER, FIRST FLOOR, BLUE AREA, BAHAM AVENUE, BAHAMAD PAKISTAN P.O. BOX 10000, P.O. BOX 10000					
ENAR PETROTECH SERVICES (PRIVATE) LIMITED 7-B, Sector 7-A, Korangi Industrial Area, Karachi Pakistan TEL: (9221) 5962791 E-mail: info@enar.com.pk FAX: (9221) 5962791			DWG. NO. 0258-ELB-6601 REV. 0		
PROJECT : KPD-TAY COMPRESSION PROJECT			JOB NO. 14-0258		
TITLE : UPS DB SINGLE LINE DIAGRAM FOR THORA DEEP-03 GGS			SIZE A3	SCALE NTS	SHEET 1 OF 1



INSTRUMENTATION LOADS