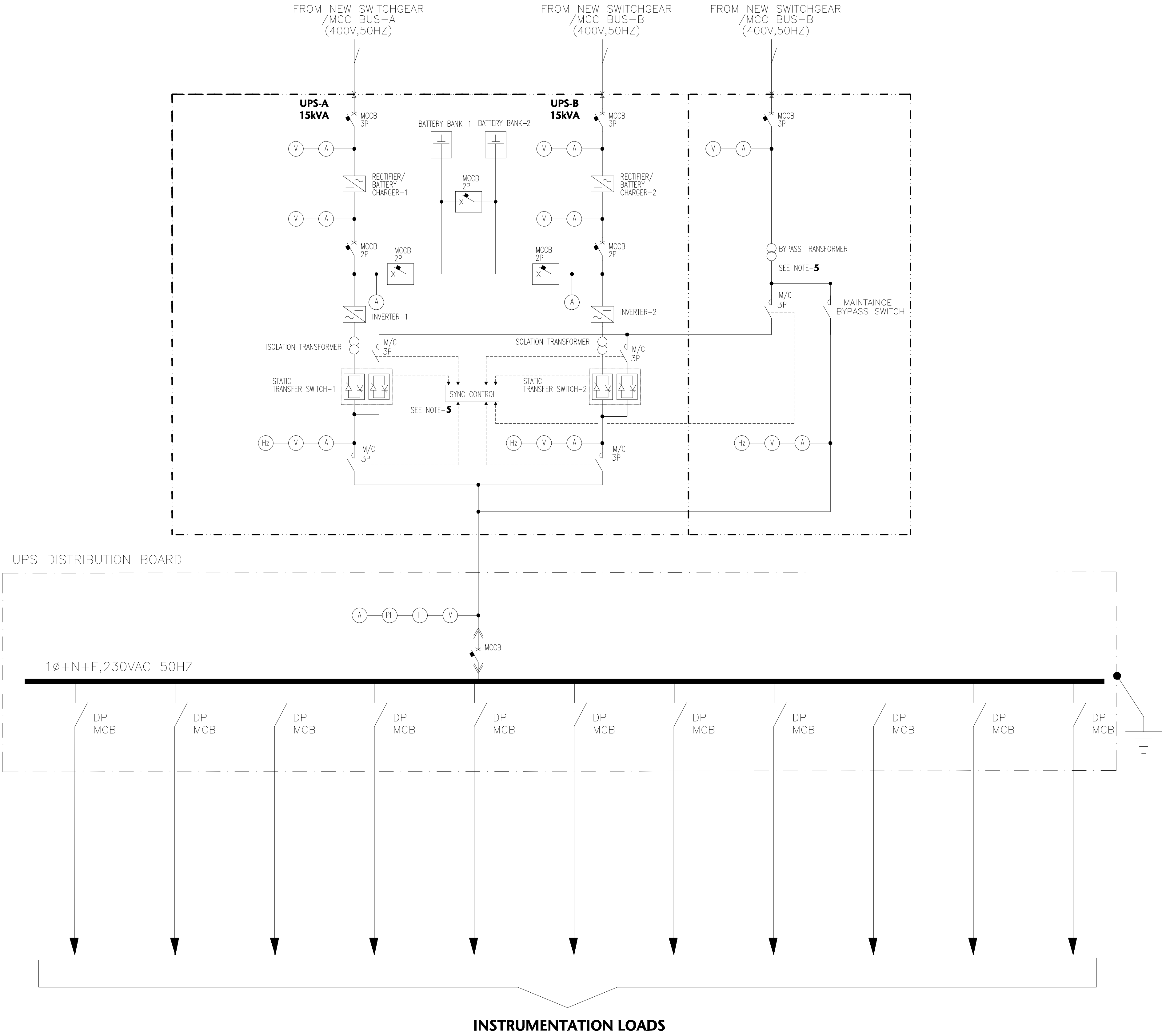


| REFERENCE DRAWING | | |
|-------------------|---------------|------------------------|
| S.No. | DRAWING No. | DESCRIPTION |
| 1 | 0259-ELA-6506 | SEPECIFICATIONS OF UPS |

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 (50%%% 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 AUXILIARY 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 | MAB |
| 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, Karachi Industrial Area, Karachi Pakistan TEL: (9221) 5962791 E-mail: info@enar.com.pk FAX: (9221) 5962791 | | DWG. NO. 0258-ELB-6603 REV. 0 | | JOB NO. 14-0258 | |
| PROJECT : KPD-TAY COMPRESSION PROJECT | | SIZE A3 | | SCALE NTS | |
| TITLE : UPS DB SINGLE LINE DIAGRAM FOR TAY-03 GGC | | SHEET 1 OF 1 | | | |