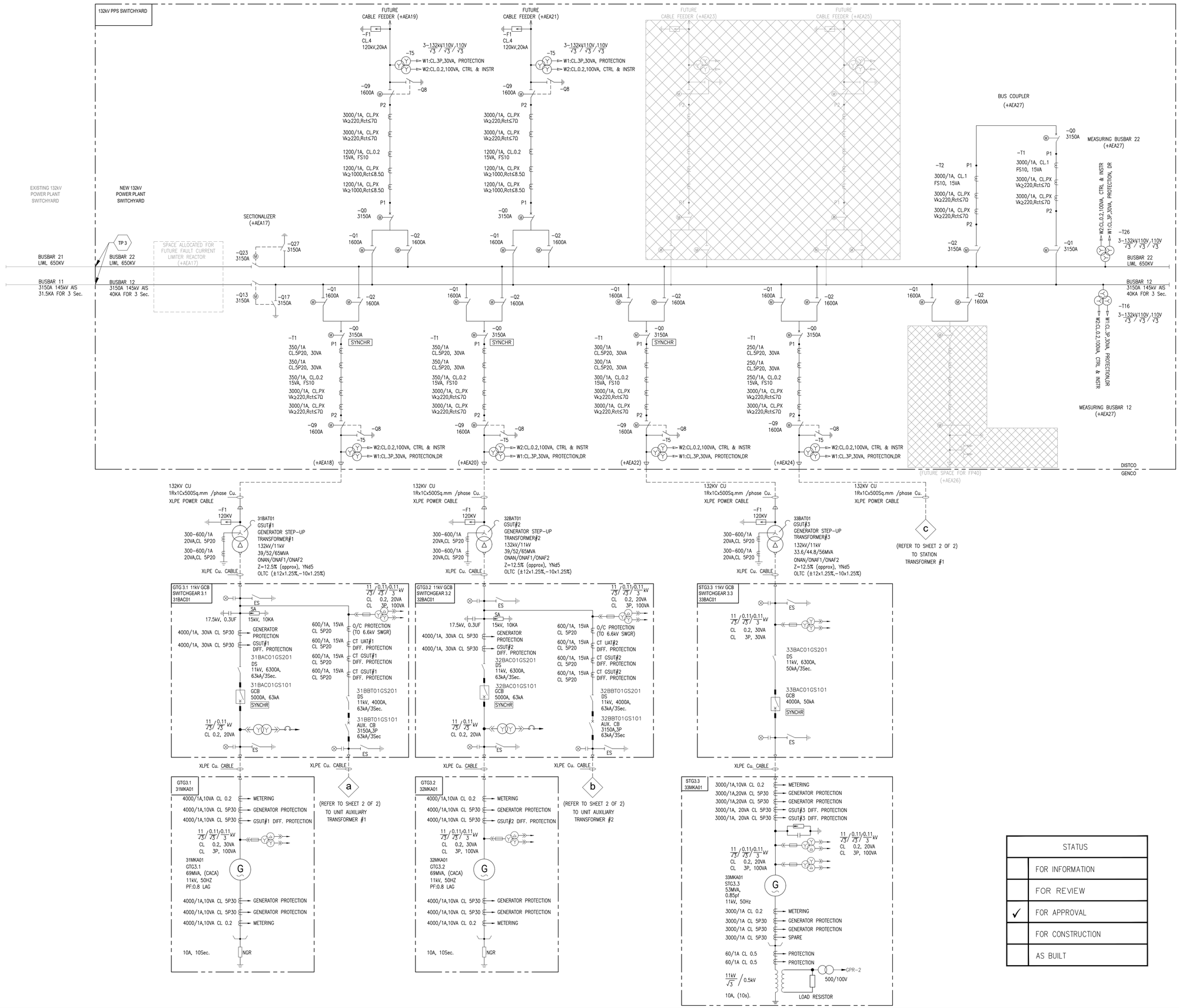


LEGENDS:

SYMBOL	DESCRIPTION
	CIRCUIT BREAKER (SF6, VCB, ACB)
	DISCONNECTING SWITCH
	DRAW-OUT TYPE
	CURRENT TRANSFORMER
	VOLTAGE TRANSFORMER
	2-WINDING 3Ø TRANSFORMER WITH OFF CIRCUIT TAP CHANGER
	2-WINDING 3Ø TRANSFORMER WITH ON LOAD TAP CHANGER
	CONTACTOR
	EARTH
ES	EARTHING SWITCH
	FUSE
	CABLE CONNECTION
	LIGHTNING ARRESTER
G 3 ~	3Ø GENERATOR
M 3 ~	3Ø INDUCTION MOTOR
TP	TERMINAL POINT
	INVERTER
	RECTIFIER
	DOL STARTER

NOTES:

1. THIS DRAWING IS SHOWING OVERALL CONFIGURATION OF PLANT ELECTRICAL DISTRIBUTION SYSTEM. REFER TO INDIVIDUAL SINGLE LINE DIAGRAMS FOR DETAILED DESIGN PARAMETERS.
2. ALL EQUIPMENT / PARAMETERS ARE INDICATIVE AND THE SAME SHALL BE CONFIRMED DURING THE DETAILED DESIGN PHASE.
3. MOTOR RATED ABOVE 200kW ARE CONNECTED TO 6.6kV SYSTEM.
4. GT PACKAGE, SFC EQUIPMENT & GT MCC's SUPPLY IS PART OF GT SUPPLIER SCOPE OF SUPPLY.
5. THE RATING OF MAIN STEP-UP TRANSFORMER IS SELECTED BASED ON GROSS OUTPUT OF RESPECTIVE GAS TURBINE AND STEAM TURBINE.
6. THE GENERATOR RATING FOR GT & ST WILL BE BASED ON EQUIPMENT RATING SUPPLIED BY OEM.
7. 132KV BUS VOLTAGE WILL BE TAPPED FROM THE NEW BUSBAR VTS FOR THE GTG & STG HV SYNCHRONIZATION.

REFERENCE DRAWINGS/DOCUMENTS:

DRAWING NO.	DRAWING TITLE
PAUR-30-AEA-SL-E6002	SINGLE LINE DIAGRAM FOR 132kV SWITCHYARD
PAUR-30-BAC-SL-E6003	SINGLE LINE DIAGRAM FOR 11kV SYSTEM
PAUR-30-BBA-SL-E6004	SINGLE LINE DIAGRAM FOR 6.6kV SYSTEM
PAUR-30-BFA-SL-E6005	SINGLE LINE DIAGRAM FOR 415V LV SWITCHGEAR
PAUR-30-BMA-SL-E6006	SINGLE LINE DIAGRAM FOR 415V ESSENTIAL SWITCHGEAR
PAUR-30-BTL-SL-E6010	SINGLE LINE DIAGRAM FOR 220V DC SYSTEM-POWER PLANT
PAUR-30-BRA-SL-E6011	SINGLE LINE DIAGRAM FOR 240V UPS SYSTEM-POWER PLANT
PAUR-30-BHR-SL-E6012	SINGLE LINE DIAGRAM FOR HVAC & WELDING SOCKET DB
PAUR-30-BJJ-SL-E6013	SINGLE LINE DIAGRAM FOR 415 / 240V SYSTEM - OVERALL LIGHTING
PAUR-30-BFB-SL-E6007	SINGLE LINE DIAGRAM FOR 415V STG MCC
PAUR-30-BFC-SL-E6008	SINGLE LINE DIAGRAM FOR 415V BOP & HRSG MCC
PAUR-30-MKA-SL-E1002	GTG - SINGLE LINE DIAGRAM - MV
PAUR-30-MKA-SL-E1003	GTG - SINGLE LINE DIAGRAM - LV
PAUR-30-BAT-CL-E6101	GENERATOR STEP-UP TRANSFORMER SIZING CALCULATION
PAUR-30-BBT-CL-E6201	UNIT AUXILIARY TRANSFORMER SIZING CALCULATION
PAUT-30-BTL-CL-E6401	220V DC SYSTEM SIZING CALCULATION
PAUR-30-BRU-CL-E6402	230V UPS SYSTEM SIZING CALCULATION
PAUR-30-BRV-CL-E6301	EDG SIZING CALCULATION

TIE-IN No.	SYSTEM DESCRIPTION	LOCATION
TP-3	HV ELECTRICAL POWER	AT THE BUS SECTION BAY OF THE 132KV SUBSTATION OF EXISTING FACILITY
TP-21	6.6KV SWITCHGEAR	6.6KV TIE FEEDER CUBICAL AT THE EXISTING 6.6KV STATION BOARD 01BCA, EXTENDING FROM THE EXISTING BUSBAR. THIS NEW TIE FEEDER SHALL CONNECTED TO THE 6.6KV STATION BOARD OF THE FACILITY

REV.	DATE	DESCRIPTION	DRAWN	DESIGNED	CHECKED	APPROVED
B	18/09/2023	ISSUED FOR APPROVAL	KRIBA	KRIBA	PRABAKAR	NAUSHAD
A	09/06/2023	ISSUED FOR APPROVAL	KRIBA	KRIBA	PRABAKAR	NAUSHAD

STATUS	
	FOR INFORMATION
	FOR REVIEW
✓	FOR APPROVAL
	FOR CONSTRUCTION
	AS BUILT

OWNER : NUR power — N. U. R. GENERATION SDN BHD

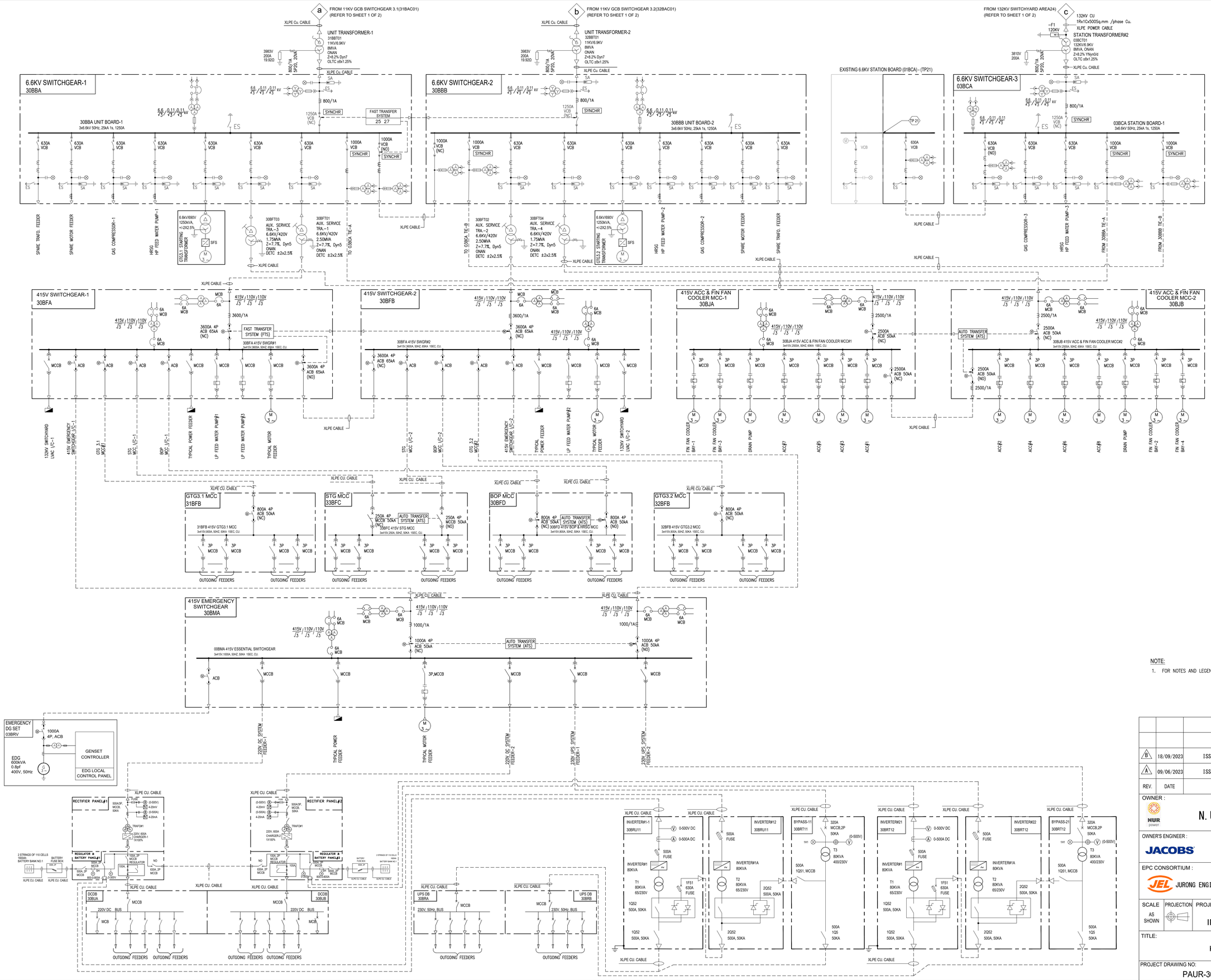
OWNER'S ENGINEER : JACOBS — JACOBS ENGINEERING GROUP MALAYSIA SDN BHD

EPC CONSORTIUM : JEL JURONG ENGINEERING LIMITED — EESB EQUATOR ENGINEERING SDN. BHD.

SCALE: AS SHOWN | PROJECTION | PROJECT : 130MW COMBINED CYCLE GAS TURBINE IN KULIM HI TECH PARK("PROJECT AURORA")

TITLE: KEY OVERALL SINGLE LINE DIAGAM

PROJECT DRAWING NO: PAUR-30-YYY-SL-E6001 | JOB NO: 20064 | REV B | SHT 1/2



NOTE:

1. FOR NOTES AND LEGENDS REFER TO SHEET 1 OF 2.

REV.	DATE	DESCRIPTION	DRAWN	DESIGNED	CHECKED	APPROVED
B	18/09/2023	ISSUED FOR APPROVAL	KRIBA	KRIBA	PRABAKAR	NAUSHAD
A	09/06/2023	ISSUED FOR APPROVAL	KRIBA	KRIBA	PRABAKAR	NAUSHAD

OWNER : NUR power

N. U. R. GENERATION SDN BHD

OWNER'S ENGINEER : JACOBS

JACOBS ENGINEERING GROUP MALAYSIA SDN BHD

EPC CONSORTIUM : JEL JURONG ENGINEERING LIMITED EESB EQUATOR ENGINEERING SDN. BHD.

SCALE: AS SHOWN

PROJECTION

PROJECT : 130MW COMBINED CYCLE GAS TURBINE IN KULIM HI TECH PARK("PROJECT AURORA")

TITLE: KEY OVERALL SINGLE LINE DIAGAM

PROJECT DRAWING NO:	JOB NO:	REV	SHT
PAUR-30-YYY-SL-E6001	20064	B	2/2