



SEE LETTER E-125695-180935

REVIEWED



13-SEP-2021

PLAN ENDORSED FOR IN-PRINCIPLE APPROVAL

SWITCHING & PROTECTION COMPONENTS ARE TO BE OF APPROVED MAKE & TYPE

CABLES TO CONFORM TO IRS MAIN RULES

LEGENDS	
	AIR/ MOULDED CASE/ MINIATURE CIRCUIT BREAKER
	TRANSFORMER
	GENERATOR
	AMMETER
	VOLTMETER
	FREQUENCY METER
	WATTMETER
	MOTOR
	BATTERY BANK
	TRANS-RECTIFIER CUM BATTERY CHARGER
	BUSBAR
	INSULATION MONITOR
<b>VOLTAGE &amp; FREQUENCY</b>	
1.	415V, 50HZ, 3PH
2.	230V, 50HZ, 3PH
3.	24V DC

ABBREVIATIONS	
PDB	POWER DISTRIBUTION BOX
TR	TRANSFORMER
ICCP	IMPRESSED CURRENT CATHODIC PROTECTION
LDB	LIGHTING DISTRIBUTION BOX
DB	DISTRIBUTION BOX
E/R	ENGINE ROOM

**GENERAL NOTES**

- ALL ELECTRICAL CABLES SHALL MEET THE REQUIREMENT OF CLASSIFICATION SOCIETY & TECHNICAL SPECIFICATION OF EQUIPMENT.
- MAIN GENERATORS ARE SELECTED - ONE WORKING & ONE STAND BY. SUITABLE INTERLOCKS TO BE PROVIDED. SHORT TERM PARALLING BETWEEN GENERATORS CAN BE PROVIDED, IF REQUIRED BY THE OWNER TO AVOID BLACK DURING LOAD TRANSFER.
- SHORT CIRCUIT CALCULATION AND PROTECTIVE CO-ORDINATION STUDY SHALL BE CARRIED OUT THROUGH THE SWITCHBOARD OEM. RATINGS OF BREAKERS TO BE SELECTED BY THE OEM OF SWITCHBOARD ACCORDING TO THE RATING OF THE EQUIPMENT AND BASED ON THE ABOVE STUDIES.
- DG RATINGS AND FEEDERS INDICATED ARE PRELIMINARY. TO BE UPDATED AS PER THE FINAL ELECTRICAL LOAD CALCULATION.
- INTERLOCK TO BE PROVIDED BETWEEN TWO DG'S, SO THAT ONLY ONE DG CAN BE CONNECTED TO SWITCHBOARD AT A TIME. HOWEVER PARALLING OF MAIN DG'S CAN BE CONSIDERED AS OPTION, IF REQUIRED BY SHIP OWNERS.
- INTERLOCK TO BE PROVIDED BETWEEN MAIN DG'S & SHORE CONNECTION BOX.
- BREAKERS AND CABLE RATINGS ARE PRELIMINARY. TO BE UPDATED BASED ON THE ACTUAL EQUIPMENT RATING.
- ALL CABLES SHALL BE NON-PVC AND TYPE APPROVED CABLES
- INCOMING BREAKERS OF TRANSFORMERS ARE TO BE SET AT 1.25 TIMES OF TRANSFORMER PRIMARY CURRENT
- INCOMING BREAKER/FUSE OF TRANSFORMER RECTIFIER UNITS IS TO BE MAX. 1.25 TIMES OF TRANSFORMER PRIMARY CURRENT

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