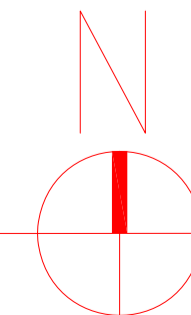


4 SINGLE LINE DIAGRAM



LEGEND	
	AIR CIRCUIT BREAKER
	MOULDED CASE CIRCUIT BREAKER
	MINIATURE CIRCUIT BREAKER
	LOAD MANAGER
	EARTH
	CURRENT TRANSFORMER
	ISOLATOR
	MOTOR PROTECTION CIRCUIT BREAKER
	INDICATION LAMPS
	SC - SPRING CHANGED
	SP - SERVICE POSITION
	TP - TEST POSITION
	CSH - CONTROL SUPPLY HEALTHY
	LTPB - LAMP TEST PUSH BUTTON
	TCPB - TRIP COIL PUSH BUTTON
	ETPB - EMERGENCY TRIP PUSH BUTTON
	TVSS
	APFCR
	EFF
	MFM
	EMI
	49
	61GN
	81
	59
	51
	61N
	V
	VSS
	ASS
	A
	FUSE
	MARSHALLING BOX
	SURGE ARRESTER
	CAPACITOR BANK
	ANNUNCIATOR

- NOTES:**
- ALL SWITCHGEARS SHALL BE PROVIDED WITH TNC SWITCHES.
 - ALL SURGE ARRESTER SHALL BE WITH SURGE COUNTER.
 - ALL MCCBS SHALL BE CURRENT LIMITING TYPE.
 - THE ON, OFF AND TRIP POSITION OF MCCB SHALL BE CLEARLY INDICATED. OPERATING HANDLE FOR OPERATING MCCBS WITH THE DOOR CLOSED SHALL BE PROVIDED.
 - ALL INDICATING LAMPS SHALL BE MULTICHIP LED TYPE.
 - ALL BUS COUPLERS SHOULD BE WITH ON (RED) & OFF (GREEN) INDICATION LAMPS.
 - MULTI FUNCTION METER & ENERGY METER SHALL BE PROVIDED WITH (BUT NOT LIMITED TO) FOLLOWING METRINGS FEATURES: CURRENT, VOLTAGE, ENERGY (KWH), MD (KW / KVA).
 - ALL VERTICAL & HORIZONTAL BUSBARS SHALL BE WITH MENTIONED RATING THROUGHOUT.
 - MPCB SHALL BE USED INSTEAD OF FUSE WHILE FEEDING CONTROL SUPPLY VOLTAGE I.E. 230V AC DIRECTLY DERIVED FROM AC BUS.
 - ALL MCCB FEEDERS ON ALL PANELS SHALL BE PROVIDED WITH ON/OFF/TRIP INDICATING LAMPS THROUGH AUXILIARY CONTACTS.
 - ALL MCC PANELS - RELAY SETTING & CONTROLS SHALL SUIT TO MOTOR CAPACITY AS PER TYPE 2 CO-ORDINATION.
 - MULTI FUNCTION METER (MFM) SHALL BE CLASS-1 AND SHALL BE PROVIDED WITH RS485 PORT & MOD BUS COMMUNICATION PROTOCOL.
 - METAL ENGRAVED CAUTION BOARD'S SHALL BE RIVETTED ON COVERS FOR BUSBAR CHAMBERS.
 - NEUTRAL IS REQUIRED FOR ALL PANELS AS SHOWN. SIZE OF NEUTRAL SHALL BE 50% OF PHASE FOR ALL PANELS EXCEPT UPS PANELS. FOR UPS PANELS NEUTRAL SHALL BE 200% OF PHASE.
 - FOR SPARE FEEDERS MFM / EM IS NOT REQUIRED, HOWEVER, SPACE PROVISION SHALL BE MADE FOR MFM / EM.
 - ALL SIGNALS MONITORING SHALL BE SOFT SIGNALS RS485 PORT.
 - THE CONTRACTOR AND PANEL VENDOR IS RESPONSIBLE FOR RELAY/RELEASE COORDINATION, OVERCURRENT/EARTH FAULT/SHORT CIRCUIT CURRENT SETTINGS AT VARIOUS LEVELS AND AT EACH PANEL/DB, TO ACHIEVE PROPER FAULT DISCRIMINATION. RELAY SETTINGS AT EACH VOLTAGE LEVEL SHALL BE SUITABLY SELECTED, COORDINATED AND SET AT SITE BY ELECTRICAL CONTRACTOR TO ACHIEVE PROPER DISCRIMINATION.

- NOTES**
- ALL DIMENSIONS SHALL BE CHECKED AND CORRELATED WITH THE STRUCTURAL DRAWINGS AND ANY AMBIGUITY SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE ARCHITECT BEFORE COMMENCEMENT OF THE WORK.
 - ALL DIMENSIONS ARE IN CENTIMETERS UNLESS AND OTHERWISE SPECIFIED.
 - ALL LEVELS ARE FINISHED LEVELS.
 - ALL MARGINS, CLEARANCES ETC. REQUIRED AS PER BYE-LAWS SHOULD BE CHECKED AND PROVIDED BY THE CONTRACTOR AND ANY DISCREPANCIES FOUND SHOULD BE IMMEDIATELY BROUGHT TO THE NOTICE OF ARCHITECT BEFORE COMMENCEMENT OF WORK.

No.	Date.	Remarks.
Revisions		
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Title
SINGLE LINE DIAGRAM – ELECTRICAL
FOR TENDER

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