



Schematic line diagram notes:

Distribution Board Name	DATA CENTRE - MAIN DB	Colour UPS Section	N/A
Cascading	Yes	Colour Door	ORANGE
Equipment Spare Space	25%	Material and Thickness	1.2mm Mild Steel
Uninterruptible Spare	25%	Maximum Dimensions (WxDxH)	400x600x200
Form Factor	Form	IP Level Doors Closed	IP20
Labeling	Labels	Terminology	Terminology
Switchgear Manufacturer	ABB	To be Manufactured	Panel Manufacturer
Compliance Standards	SANS 10008-1, IEC 60947	High Voltage Approval	Yes
Panel Standards	SANS 1973 SANS 61439	Spare Ways For BMS	Yes
Islanding of Phases	By Contractor	Cable Entry	Top and Bottom Entry
Colour Neutral Section	ORANGE		
Colour Standby Section	N/A		

SYMBOLS FOR LINE DIAGRAMS		SYMBOLS FOR LINE DIAGRAMS	
	BREAKER GENERAL SYMBOL		TIME SWITCH
	CIRCUIT BREAKER		FUSE DISCONNECTION
	ISOLATOR		AMMETER
	POTENTIAL FREE RELAY (LOCATED INSIDE DB MUST BE A BATTERY NOT A CIRCUIT BREAKER)		VOLTMETER
	LIGHT SWITCH (INSTALLED AS SHOWN ON RELEVANT LIGHTING LAYOUT DRAWING)		ACTUATOR
	POTENTIAL FREE RELAY CONTACT CONTROLLER BY BMS INTERLOCK		BUILDING MANAGEMENT SYSTEM
	FUSE		GENERATOR
	FUSE SWITCH		CURRENT TRANSFORMER
			TRANSFORMER
			3-PHASE ARRESTOR
			REMOTE OCCUPANCY SENSOR
			BUS COUPLER
			DAY NIGHT SWITCH
			EARTH LEAKAGE RELAY WITH OVERLOAD PROTECTION
			DAY CONTROLLER FOR LIGHTING
			RESISTOR TO TERMINATE GATEWAY FOR BMS COMMUNICATION
			ENERGY METER MODULE
			INPUT/OUTPUT MODULE FOR BMS
			DAY POWER SUPPLY FOR BMS

PROJECT NO.	181-TD-101
DATE	2023-07-18
BY	02
DATE	
PROJECT NAME	CSIR BUILDING 9 DATA CENTER Elec. DB layout
CLIENT	CSIR BUILDING 9 DATA CENTER
ENGINEER	ELECTRICAL ENGINEERING SERVICES PVT. Consulting Engineers
REGISTERED NO.	20070044
REGISTERED NAME	PVT Consulting Engineers
REGISTERED ADDRESS	
REGISTERED PHONE	
REGISTERED EMAIL	
REGISTERED WEBSITE	
REGISTERED SOCIAL MEDIA	
REGISTERED SIGNATURE	
REGISTERED PHOTO	
REGISTERED STAMP	