



**Schematic line diagram notes:**

Distribution Board Name:	MDB 9	Colour UPS Section:	N/A
Cascading:	Yes	Colour Door:	White
Equipment Spare Space:	20%	Material and Thickness:	1.2mm Mild Steel
Unequipped Space:	20%	Maximum Dimensions (WxHxD):	
Form Factor:		IP Level Doors Closed:	20
Form:		Labels:	Traffolyte
Switchgear Manufacturer:		To be Manufactured:	Panel Manufacturer
Switchgear Standards:	SABS, IEC60989-1, IEC 60947	Shop Drawings Required:	Yes
Panel Standards:	SANS 1973, SANS 81439	Spare Ways For BMS:	
Balancing of Phases:	By Contractor	Cable Entry:	Top and Bottom Entry
Colour Normal Section:	White		
Colour Standby Section:	N/A		

SYMBOLS FOR LINE DIAGRAMS			
	SWITCH GENERAL SYMBOL		TIME SWITCH
	CIRCUIT BREAKER		AMMETER
	ISOLATOR		VOLTMETER
	BYPASS SWITCH, LOCATED INSIDE DB (MUST BE A SWITCH, NOT A CIRCUIT BREAKER)		MOTOR
	LIGHT SWITCH INSTALLED AS SHOWN ON RELEVANT LIGHTING LAYOUT DRAWING		BUILDING MANAGEMENT SYSTEM
	POTENTIAL FREE RELAY CONTACT CONTROLLER BY BMS (MODBUS)		GENERATOR
	FUSE		CURRENT TRANSFORMER
	FUSE SWITCH		TRANSFORMER
	FUSE DISCONNECTOR		SURGE ARRESTOR
	CONTACTOR OR RELAY		REMOTE OCCUPANCY SENSOR
	WITHDRAWABLE CIRCUIT BREAKER		BUS COUPLER
	EARTH LEAKAGE		DAY NIGHT SWITCH
	EARTH LEAKAGE RELAY WITH OVERLOAD PROTECTION		DALI CONTROLLER FOR LIGHTING
	OPERATING DEVICE (LPS)		MODBUS TO TCP/IP GATEWAY FOR BMS COMMUNICATION
	ACTUATOR WITH KKK MODULE		ENERGY METER, MODBUS
	24V POWER SUPPLY FOR BMS		INPUT / OUTPUT MODULE FOR BMS

Revision Number	Revision Date	Revision Description
01	2022-02-18	Issue for tender

CLIENT:



Mr. Abongile Gobeni  
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CONSULTANTS:

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PROJECT:

WITS: BUILDING 9  
ROOM 103 MDB 9  
Elec: DB layout

DESCRIPTION:  
ROOM 103 MAIN DISTRIBUTION BOARD

SCALE:	1:100	DRAWING NO:	P181-TD-100
DRAWING DATE:	2022-02-18	REVISION NO:	0
DRAWN:	LC	CHECKED:	VS
DATE:		PLOT DATE:	