UPS - SCHEDULE OF REQUIREMENTS											
	SYSTEM VOLTAGE AND FREQUENCY SITE LOCATION CLIMATIC CONDITIONS DESIGNATION	STEM VOLTAGE AND FREQUENCY 400 Volts, 50 Hz FE LOCATION Durban, South Africa - Newtown Community Health Centre, Inanda IMATIC CONDITIONS Altitude Sea Level Ambient Temperature 5°C to 40°C Relative Humidity 95%									
(GENERATOR	1	2	3	4						
1 [Designation & Labelling	UPS 1									
2 [Description	On line, double conversion UPS with external battery cabinet. UPS running in paralell with 1 other identical unit in n+1 configuration.									
3 /	Application	No break power supply to selected equipment.									
	Load	Typical office equipment, server equipment, general electronics, fluorescent lighting etc. Varying load, load power factor 0.7 lagging to 0.9 leading.									
5	Voltage	400/230V <u>+</u> 15%, 3 phase, 4 wire									
6	Frequency	50 Hz <u>+</u> 8 Hz									
7	Voltage Frequency ITHD	< 5%									
8	UPS Output Power Rating	30 kVA									
9	Power Factor	0,9									
10	Efficiency	> 90%									
11	Voltage	400/230V +10%, 3 phase, 4 wire with operative earth conductor.									
12	Frequency	50 Hz <u>+</u> 0.5 Hz									
13	Voltage Regulation	\pm 10% deviation from steady state nominal voltage and will recover to within 5% of the nominal voltage within 50 miliseconds and to within 1% in less than 500miliseconds									
14	Voltage Regulation Frequency Stability	Normally automatically synchronised to mains frequency if the latter is within 50 Hz \pm 2% (adjustable window). Runs free at 50 Hz \pm 0.5 Hz at any load when mains is out of limits.									
15	UTHD (linear load)	< 2%									
16	Amplitude Modulation	< 2%									
17	Voltage Distortion Across Phases	Not to exceed 1% of the open circuit voltage									
18	Voltage Regulation	\pm 10% deviation from steady state nominal voltage and will recover to within 5% of the nominal voltage within 50 ms and to within 1% in less than 500ms									
19	Static Overload	100% of full load continuously									
20		125% of full load for 5 minutes									
21		150% of full load for 2 minutes									
22		165% of full load for 1 second, with inductive decay after initial equipment switch on surge current									
23	Dynamic Overload	300% of full load for 5 miliseconds									
24		1000% of full load for 1 miliseconds									
25	Туре	Maintenance Free, Valve Regulated Lead Acid									
26	Charging	Float									
	Backup Time (rated load)	10 minutes									
20	Life expectancy	Minimum 7 years or 250 complete discharge cycles									
21 22	Protection 5 Bypass	Fuse isolator Internal static bypass and external maintenance bypass. Interlock to ensure external can only be									
		operated when unit is on internal bypass.									
23 24	Bypass dibb leuojupper Communications	SNMP Network Card 8 No dry contact configurable outputs for BMS monitoring.									
25	O&M Manual		Three complete sets hardcopy. O	ne complete set electronically	I						
		Three complete sets hardcopy. One complete set electronically									

Control functionality, protection devices and alarms, including verification of sensing devices and transducers as requested by the Engineer Operational discharge, recharge and battery duration tests. Full load and Maximum load tests for sufficient duration to verify set capacity. Suitable load banks to be provided as required

28			Full load and Maximum load tests for sufficient duration to verify set capacity. Suitable load banks to be provided as required								
	Testi		Full functional test of UPS system as installed in conjunction with associated loads and systems.								
29		Site	Operational discharge, recharge and battery duration tests.								
			Integrated building testing								
30		Colour	Factory standard Refer to layout drawing								
31		Dimensions									
32	General	UPS Plantroom Conditions	Air conditioned room, typically 20 deg C. Any additional ventilation required is to be provided by UPS supplier as part of the tender price, and based on plantrooms as per drawings Floor standing								
33		Arrangement									
34		Signage	Statutory & rating and diagram plate	Statutory & rating and diagram plate	Statutory & rating and diagram plate						

Notes

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Factory

1. UPS to be Schneider, EATON, Legrand or equal and approved

					ENGINEER:	DRAWN:	DATE:	SCALE	P. SIZE	CHKD	TITLE:		BLOCK D
					МК	CG	SEP 23	NTS	A3				BLOCK D ESSEX PARK 46 ESSEX TERRACE WESTVILE P.O. BOX 1692
						00	021 20	NI0	710		Newtown conversion to Large Clinic		WESTVILLE P.O. BOX 1692
					PROJ No.:		DWG No			REV	-		WANDSBECK 3631
						2	3023-602			0		IDU A Engineers	TEL: +27 (031) 2667831
0	Original Issue C	CG	5/9/23	MK		2	5025-002			U	UPS Schedule Of Requirements	"POWERING DEVELOPMENT"	TEL: +27 (031) 2667831 FAX: +27 (031) 2667831 E-mail: ibuya@ibuya.co.za
RE	/ DESCRIPTION B	BY	DATE	CHKD	FILE NAME:	21032_6	05	SHEET:	1 of 1	-			E-mail: buyugeouyo.co.zu