

<b>2</b>	<b>BILL No.2:</b>
	<b>THUTHUKANI CLINIC</b>
	<b>The UPS system consist of 2x 12kVA Riello UPS. The UPS with blown inverter</b>

Item	Description	Unit	Qty	Rate	Amount
2.1	<b>UPS Repair</b>				
2.1.1	Download event History	no.	2		
2.1.2	Replace the following for both UPS:				
2.1.2.1	AC & DC capacitors	no.	2		
2.1.2.2	Rectifier and Inverter IGBT	no.	2		
2.1.2.3	Bypass SCR	no.	2		
2.1.3	Upgrade firmware to latest revision	no.	2		
2.1.4	Cleaning of the UPSs	no.	2		
2.2	<b>Replacement of batteries</b>				
2.2.2	Test, Supply, deliver, install new VRLA 12V, 7Ah batteries complete with battery enclosure for both UPSs	no.	2		
2.3	<b>Commissioning</b>				
2.3.1	Commissioning the two systems complete in the presence of the Engineer	sum	1		
2.4	<b>Miscellaneous</b>				
2.4.1	Supply and install UPS socket outlets (Red with shaved earth pin) for the monitors in reception. The rate must include the ega tube wiring complete.				
2.4.1.1	Red earth shaved sockets (Network Cabinet)	no.	3		
2.4.1.2	Supply and install EGA tube	m	40		
2.4.1.3	Supply and intall 4mm <sup>2</sup> PVC general purpose wiring	m	120		
2.5	Test and confirm the UPS output DB circuitry and issue a CoC. This must include the following labels				
2.5.1	Sockets labelling	sum	1		
2.5.2	DB Labelling	sum	1		
2.5.3	Legend card	sum	1		
2.5.4	CoC ( <b>Only for UPS Output DB</b> )	no.	1		
2.6	Service of the Air Condition Unit	Sum	1		
2.7	Provide Red top (shaved earth) plug top leads	No.	20		
2.8	Professional fees ( 15%, exclude P&Gs and Contingency)	%	0.15		
	<b>Total for Bill No 2: Thuthukani Clinic Forward to Bill of Quantities Summary Page</b>				