



BLOCK A						
ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
1	<b><u>PRELIMINARY AND GENERAL</u></b>  Note: All items shall be priced for whatever cost may be considered necessary for Preliminary and General items to carry out the Electrical Installation in full, as detailed in the drawings, Specifications and Schedules, which shall include, but shall not be limited, to the following:					
1.1	Site establishment - including but not limited to latrines, water, generators, fuel, ALL safety aspects, site office, clerks of works. Careful planning will be required from building contractor to ensure that all completion dates are achieved. Make allowance in your price to work after hours and weekends.	Sum				
1.2	Any additional builders work over and above main contractors, including make good after chasing, plaster to builders satisfaction.	Sum				
1.3	For marking up of Engineers drawings during construction and compiling of As-built drawings	Sum				
1.4	Any necessary calculations or drawings requested by the Engineer.	Sum				
1.5	Electrical Certificate of Compliance	Sum				
	<b><u>FOR THE CODING AND LABELLING OF:</u></b>					
1.6	All plant and equipment	Sum				
1.7	Wiring	Sum				
	<b><u>FOR HEALTH AND SAFETY:</u></b>					
1.8	All Health and Safety related activities such as H&S File, Toolbox Talks, etc.	Sum				
	<b><u>FOR ENVIRONMENTAL:</u></b>					
1.9	For managing environmental aspects	Sum				
Total Carried Forward To Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>2</b>	<b>CABLING</b>  Circuit wiring along with earth wire with the following sizes of XLPE insulated copper conductor single core/ multi strand cable in surface/recessed PVC conduit as required.					
2.1	Supply and install 2.5 sq.mm GP wire	m	1150			
2.2	Supply and install 4 sq.mm GP wire	m	280			
2.3	Supply and install 6sq mm 1-phase 3-core SWA CU cable compatible with SANS 1507-3	m	190			
2.4	Supply and install cable terminations set for 6sq.mm 3 core Cu cable	No	32			
2.5	Supply and install 16 sq.mm 3-phase 4-core	m	390			
2.6	Supply and install cable terminations for	No	4			
2.7	Supply and install 70 sq.mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m	80			
2.8	Supply and install cable terminations for 70sq.mm 4 core Cu cable	No	6			
2.9	Supply and install 25 sq.mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m	195			
2.10	Supply and install cable terminations for 25sq.mm 4 core Cu cable	No	2			
2.11	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	460			
2.12	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	93			
2.13	Supply and install M160 PVC Sleeves	m	80			
2.14	Trenching for Power M160 PVC - 500mm wide x 1000mm deep, including bedding soil and backfill	m	80			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
3	<b>LIGHTING</b>  <b>LIGHT FITTINGS</b> Supply and installation of the following lamps and light fittings with Electronic Control Gear, starter, capacitor, tubes/lamps, reflector, diffuser, holder etc. complete with all fixing accessories. Includes installation of the 1.5 sq.mm wiring to all light points as indicated in the lighting layout drawing. All interior lighting shall be mounted onto ceilings.					
3.1	15W LED downlight	No.	34			
3.2	35W round LED Bulkhead	No.	6			
3.3	55W LED linear fitting 4000k	No.	55			
3.4	7W LED downlight	No.	7			
3.5	35W LED panel 600x1200mm	No.	9			
3.6	43W LED spot light	No.	2			
3.7	50W LED floodlight	No.	1			
3.8	Strobe light	No.	1			
3.9	<b>OCCUPANCY SENSORS</b>  Supply and installation of Passive infrared Occupancy sensors complete with power packs and auxiliary relays, for control of lighting circuits	No.	3			
3.10	<b>PHOTO SENSORS</b> Supply and installation of Daylight photo sensors, for the control of outdoor lighting circuits. Switch LS10C Photo sensor-10A, IP56, or similar.  <b>LIGHT SWITCHES</b> Supply and install Schneider S3000 light switches complete with coverplate. Includes wiring of the switch points	No.	2			
3.11	1-lever 1-way switch, 100x50mm with cover plate, white	No	25			
3.12	1-lever 2-way switch, 100x50mm with cover plate, white	No	4			
3.13	Emergency panic button	No	1			
3.14	Testing and Commissioning of Lighting Installation	Lot	1			
3.15	4x2 PVC bxes complete with fittings	No	101			
3.16	5A plugs for light fitting	No	55			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY			AMOUNT R
<b>4</b>	<b>SMALL POWER</b> Supply and installation of Crabtree range (or similar) small power equipment in accordance with SANS10142-1.					
4.1	Single 16A, 3pin switched socket outlet with Euro Combination	No.	19			
4.2	Double 16A, 3pin switched socket outlet with Euro Combination	No.	0			
4.3	Double 16A, 3pin switched socket outlet with Euro Combination for UPS circuits	No.	73			
4.4	Trunking	No.	150			
4.5	1Tier Power Skirting including all accessories	m	0			
4.6	2Tier Power Skirting including all accessories (Power + Data)	m	72			
4.7	Telephone Point	No.	0			
4.8	Data Point	No.	1			
4.9	Wifi Including all accessories	No.	2			
4.10	4x4 PVC boxes complete with fittings	No.	110			
4.11	4x2 PVC boxes complete with fittings	No.	0			
	<b>ISOLATORS</b> Supply and installation of flush or surface mounted Isolators in either 100 x 100, 100 x 50, round box or wiring channel, excluding box (for flush type) and conduit connections, but including cover plate.					
4.12	10A Single Pole 3KA Isolators Points with light indicator and cord grip	No.	16			
4.13	20A Triple Pole 3KA Isolators with light indicator and cord grip	No.	0			
4.14	30A Triple Pole 3KA Isolators with light indicator and cord grip	No.	2			
4.15	Testing and Commissioning of Small Power Installation	Lot	1			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>5</b>	<b>DISTRIBUTION BOARDS</b>					
	Supply and install Distribution Boards in					
5.1	DB-A	No	1			
5.2	DB-A1	No	1			
Total Carried Forward to Summary						

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>6</b>	<b>LIGHTNING PROTECTION AND EARTHING</b>					
	Supply and install lightning protection system in accordance with SANS 10313. Copper Earthing straps to be bonded and earthed according to SANS10142. By Specialist					
6.1	Bonding Points	No	11			
6.2	Earth Test Points	No	8			
6.3	Clamps including all accessories	No	54			
6.4	10mm sq Insulated Aluminium down	m	95			
6.5	50mm sq BCEW cable	m	65			
6.6	10mm sq Bare Aluminium conductor	m	120			
6.7	1.5m Long Copper Earth Rods	No	34			
6.8	Exothermic Welds	No	11			
6.9	300mm wide X 600mm deep trenching	m	65			
Total Carried Forward						



ITEM	DESCRIPTION	AMOUNT R
1	PRELIMINARY AND GENERAL	
2	CABLING	
3	LIGHTING	
4	SMALL POWER	
5	DISTRIBUTION BOARDS	
6	LIGHTNING PROTECTION AND EARTHING	
Total		
Add 5% Contingency		
Sub Total		
Add VAT @ 15%		
Grand Total		



BLOCK B						
ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
1	<b><u>PRELIMINARY AND GENERAL</u></b>  Note: All items shall be priced for whatever cost may be considered necessary for Preliminary and General items to carry out the Electrical Installation in full, as detailed in the drawings, Specifications and Schedules, which shall include, but shall not be limited, to the following:					
1.1	Site establishment - including but not limited to latrines, water, generators, fuel, ALL safety	Sum				
1.2	Any additional builders work over and above main contractors, including make good after chasing, plaster to builders satisfaction.	Sum				
1.3	For marking up of Engineers drawings during construction and compiling of As-built drawings	Sum				
1.4	Any necessary calculations or drawings requested by the Engineer.	Sum				
1.5	Electrical Certificate of Compliance	Sum				
	<b><u>FOR THE CODING AND LABELLING OF:</u></b>					
1.6	All plant and equipment	Sum				
1.7	Wiring	Sum				
	<b><u>FOR HEALTH AND SAFETY:</u></b>					
1.8	All Health and Safety related activities such	Sum				
	<b><u>FOR ENVIRONMENTAL:</u></b>					
1.9	For managing environmental aspects	Sum				
Total Carried Forward To Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>2</b>	<b>CABLING</b>  Circuit wiring along with earth wire with the following sizes of XLPE insulated copper conductor single core/ multi strand cable in surface/recessed PVC conduit as required.					
2.1	Supply and install 2.5 sq.mm GP wire	m	2050			
2.2	Supply and install 4 sq.mm GP wire for wiring	m	980			
2.3	Supply and install 6sq mm 1-phase 3-core SWA CU cable compatible with SANS 1507-3	m				
2.4	Supply and install cable terminations set for 6sq.mm 3 core Cu cable	No				
2.5	Supply and install 16 sq.mm 1-phase 3-core SWA CU cable compatible with SANS 1507-3	m	250			
2.6	Supply and install cable terminations for 16sq.mm 3 core Cu cable	No	2			
2.7	Supply and install 70 sq.mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m	100			
2.8	Supply and install cable terminations for 70sq.mm 4 core Cu cable	No	4			
2.9	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	820			
2.10	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	327			
2.11	Supply and install M160 PVC Sleeves	m	100			
2.12	Trenching for Power M160 PVC - 500mm wide x 1000mm deep, including bedding soil and backfill	m	100			
Total Carried Forward						





ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
3	<b>LIGHTING</b>  <b>LIGHT FITTINGS</b> Supply and installation of the following lamps and light fittings with Electronic Control Gear, starter, capacitor, tubes/lamps, reflector, diffuser, holder etc. complete with all fixing accessories. Includes installation of the 1.5 sq.mm wiring to all light points as indicated in the lighting layout drawing. All interior lighting shall be mounted onto ceilings.					
3.1	15W LED downlight	No.	27			
3.2	35W round LED Bulkhead	No.	27			
3.3	55W LED linear fitting 4000k	No.	67			
3.4	25W LED bulkhead	No.	4			
3.5	43W LED spot light	No.	5			
3.6	<b>OCCUPANCY SENSORS</b> Supply and installation of Passive infrared Occupancy sensors complete with power packs and auxiliary relays, for control of lighting circuits	No.	4			
3.7	<b>PHOTO SENSORS</b> Supply and installation of Daylight photo sensors, for the control of outdoor lighting circuits. Switch LS10C Photo sensor-10A, IP56, or similar.	No.	3			
	<b>LIGHT SWITCHES</b> Supply and install Schneider S3000 light switches complete with coverplate. Includes wiring of the switch points					
3.8	1-lever 1-way switch, 100x50mm with cover plate, white	No	12			
3.9	1-lever 2-way switch, 100x50mm with cover plate, white	No	4			
3.10	2-lever 2-way switch, 100x50mm with cover plate, white	No	6			
3.12	Testing and Commissioning of Lighting Installation	Lot	1			
3.13	4x2 PVC bxs complete with fittings	No	37			
3.14	5A plugs for light fitting	No	67			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY			AMOUNT R
<b>4</b>	<b>SMALL POWER</b> Supply and installation of Crabtree range (or similar) small power equipment in accordance with SANS10142-1.					
4.1	Single 16A, 3pin switched socket outlet with Euro Combination	No.	11			
4.2	Double 16A, 3pin switched socket outlet with Euro Combination	No.	10			
4.3	Double 16A, 3pin switched socket outlet with Euro Combination for UPS circuits	No.	0			
4.4	Trunking	No.	100			
4.5	1Tier Power Skirting including all accessories	No.	0			
4.6	2Tier Power Skirting including all accessories (Power + Data)	No.	0			
4.7	Telephone Point	No.	1			
4.8	Data Point	No.	0			
4.9	Wifi Including all accessories	No.	2			
4.10	4x4 PVC boxes complete with fittings	No.	21			
4.11	4x2 PVC boxes complete with fittings	No.	0			
	<b>ISOLATORS</b> Supply and installation of flush or surface mounted Isolators in either 100 x 100, 100 x 50, round box or wiring channel, excluding box (for flush type) and conduit connections, but including cover plate.					
4.12	10A Single Pole 3KA Isolators Points with light indicator and cord grip	No.	0			
4.13	20A Triple Pole 3KA Isolators with light indicator and cord grip	No.	0			
4.14	30A Triple Pole 3KA Isolators with light indicator and cord grip	No.	0			
4.15	Testing and Commissioning of Small Power Installation	Lot	1			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>5</b>	<b>DISTRIBUTION BOARDS</b> Supply and install Distribution Boards in accordance with SANS10142 as per the following: Drawing Reference					
5.1	DB-SAAL	No	1			
Total Carried Forward to Summary						

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>6</b>	<b>LIGHTNING PROTECTION AND EARTHING</b>  Supply and install lightning protection system in accordance with SANS 10313. Copper Earthing straps to be bonded and earthed according to SANS10142. By Specialist					
6.1	Bonding Points	No	11			
6.2	Earth Test Points	No	8			
6.3	Clamps including all accessories	No	54			
6.4	10mm sq Insulated Aluminium down conductor	m	95			
6.5	50mm sq BCEW cable	m	65			
6.6	10mm sq Bare Aluminium conductor	m	120			
6.7	1.5m Long Copper Earth Rods	No	34			
6.8	Exothermic Welds	No	11			
6.9	300mm wide X 600mm deep trenching	m	65			
Total Carried Forward						

ITEM	DESCRIPTION	AMOUNT R
1	PRELIMINARY AND GENERAL	
2	CABLING	
3	LIGHTING	
4	SMALL POWER	
5	DISTRIBUTION BOARDS	
6	LIGHTNING PROTECTION AND EARTHING	
Total		
Add 5% Contingency		
Sub Total		
Add VAT @ 15%		
Grand Total		



BLOCK C						
ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
1	<b><u>PRELIMINARY AND GENERAL</u></b>  Note: All items shall be priced for whatever cost may be considered necessary for Preliminary and General items to carry out the Electrical Installation in full, as detailed in the drawings, Specifications and Schedules, which shall include, but shall not be limited, to the following:					
1.1	Site establishment - including but not limited to latrines, water, generators, fuel, ALL safety aspects, site office, clerks of works. Careful planning will be required from building contractor to ensure that all completion dates are achieved. Make allowance in your price to work after hours and weekends.	Sum				
1.2	Any additional builders work over and above main contractors, including make good after chasing, plaster to builders satisfaction.	Sum				
1.3	For marking up of Engineers drawings during construction and compiling of As-built drawings	Sum				
1.4	Any necessary calculations or drawings requested by the Engineer.	Sum				
1.5	Electrical Certificate of Compliance	Sum				
	<b><u>FOR THE CODING AND LABELLING OF:</u></b>					
1.6	All plant and equipment	Sum				
1.7	Wiring	Sum				
	<b><u>FOR HEALTH AND SAFETY:</u></b>					
1.8	All Health and Safety related activities such as H&S File, Toolbox Talks, etc.	Sum				
	<b><u>FOR ENVIRONMENTAL:</u></b>					
1.9	For managing environmental aspects	Sum				
Total Carried Forward To Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
2	<b>CABLING</b>  Circuit wiring along with earth wire with the following sizes of XLPE insulated copper conductor single core/ multi strand cable in surface/recessed PVC conduit as required.					
2.1	Supply and install 2.5 sq.mm GP wire	m	3920			
2.2	Supply and install 4 sq.mm GP wire	m	4500			
2.3	Supply and install 6sq mm 1-phase 3-core SWA CU cable compatible with SANS 1507-3	m	120			
2.4	Supply and install cable terminations set for 6sq.mm 4 core Cu cable	No	8			
2.5	Supply and install 16 sq.mm 1-phase 3-core SWA CU cable compatible with SANS 1507-3 for	m	100			
2.6	Supply and install cable terminations for 16sq.mm 4 core Cu cable	No	4			
2.7	Supply and install 35 sq.mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3 for	m	100			
2.8	Supply and install cable terminations for 35sq.mm 4 core Cu cable	No	12			
2.9	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	1568			
2.10	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	1500			
Total Carried Forward						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
3	<b>LIGHTING</b>  <b>LIGHT FITTINGS</b> Supply and installation of the following lamps and light fittings with Electronic Control Gear, starter, capacitor, tubes/lamps, reflector, diffuser, holder etc. complete with all fixing accessories. Includes installation of the 1.5 sq.mm wiring to all light points as indicated in the lighting layout drawing. All interior lighting shall be mounted onto ceilings.					
3.1	15W LED downlight	No.	54			
3.2	35W round LED Bulkhead	No.	13			
3.3	55W LED linear fitting 4000k	No.	235			
3.4	55W LED linear fitting 4000k, IP65	No.	36			
3.5	35W LED panel 600x1200mm	No.	16			
3.6	<b>OCCUPANCY SENSORS</b> Supply and installation of Passive infrared Occupancy sensors complete with power packs and auxiliary relays, for control of lighting circuits	No.	5			
3.7	<b>PHOTO SENSORS</b> Supply and installation of Daylight photo sensors, for the control of outdoor lighting circuits. Switch LS10C Photo sensor-10A, IP56, or similar.	No.	3			
	<b>LIGHT SWITCHES</b> Supply and install Schneider S3000 light switches complete with coverplate. Includes wiring of the switch points					
3.8	1-lever 1-way switch, 100x50mm with cover plate, white	No	65			
3.9	1-lever 2-way switch, 100x50mm with cover plate, white	No	2			
3.10	2-lever 1-way switch, 100x50mm with cover plate, white	No	2			
3.11	2-lever 2-way switch, 100x50mm with cover plate, white	No	4			
3.12	4-lever 1-way switch, 100x50mm with cover plate, white	No	0			
3.13	Multigang Point (Switching, 2pin, 3pin, usb interchangeable etc)	No	0			
3.14	Testing and Commissioning of Lighting Installation	Lot	1			
3.15	4x2 PVC bxs complete with fittings	No	123			
3.16	5A plugs for light fitting	No	271			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY			AMOUNT R
<b>4</b>	<b>SMALL POWER</b> Supply and installation of Crabtree range (or similar) small power equipment in accordance with SANS10142-1.					
4.1	Single 16A, 3pin switched socket outlet with Euro Combination	No.	0			
4.2	Double 16A, 3pin switched socket outlet with Euro Combination	No.	0			
4.3	Double 16A, 3pin switched socket outlet with Euro Combination for UPS circuits	No.	0			
4.4	Trunking	No.	50			
4.5	1Tier Power Skirting including all accessories	m	0			
4.6	2Tier Power Skirting including all accessories (Power + Data)	m	0			
4.7	Telephone Point	No.	0			
4.8	Data Point	No.	0			
4.9	Wifi Including all accessories	No.	0			
4.10	4x4 PVC boxes complete with fittings	No.	0			
4.11	4x2 PVC boxes complete with fittings	No.	0			
	<b>ISOLATORS</b> Supply and installation of flush or surface mounted Isolators in either 100 x 100, 100 x 50, round box or wiring channel, excluding box (for flush type) and conduit connections, but including cover plate.					
4.12	10A Single Pole 3KA Isolators Points with light indicator and cord grip	No.	0			
4.13	20A Triple Pole 3KA Isolators with light indicator and cord grip	No.	0			
4.14	30A Triple Pole 3KA Isolators with light indicator and cord grip	No.	0			
4.15	Testing and Commissioning of Small Power Installation	Lot	1			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>5</b>	<b>DISTRIBUTION BOARDS</b> Supply and install Distribution Boards in accordance with SANS10142 as per the following: Drawing Reference					
5.1	DB-C1	No	1			
Total Carried Forward to Summary						

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>6</b>	<b>LIGHTNING PROTECTION AND EARTHING</b>  Supply and install lightning protection system in accordance with SANS 10313. Copper Earthing straps to be bonded and earthed according to SANS10142. By Specialist					
6.1	Bonding Points	No	5			
6.2	Earth Test Points	No	5			
6.3	Clamps including all accessories	No	44			
6.4	10mm sq Insulated Aluminium down conductor	m	48			
6.5	50mm sq BCEW cable	m	228			
6.6	10mm sq Bare Aluminium conductor	m	300			
6.7	1.5m Long Copper Earth Rods	No	68.5			
6.8	Exothermic Welds	No	5			
6.9	300mm wide X 600mm deep trenching	m	228			
Total Carried Forward						

ITEM	DESCRIPTION	AMOUNT R
1	PRELIMINARY AND GENERAL	
2	CABLING	
3	LIGHTING	
4	SMALL POWER	
5	DISTRIBUTION BOARDS	
6	LIGHTNING PROTECTION AND EARTHING	
Total		
Add 5% Contingency		
Sub Total		
Add VAT @ 15%		
Grand Total		





BLOCK D						
ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
1	<b><u>PRELIMINARY AND GENERAL</u></b>  Note: All items shall be priced for whatever cost may be considered necessary for Preliminary and General items to carry out the Electrical Installation in full, as detailed in the drawings, Specifications and Schedules, which shall include, but shall not be limited, to the following:					
1.1	Site establishment - including but not limited to latrines, water, generators, fuel, ALL safety aspects, site office, clerks of works. Careful planning will be required from building contractor to ensure that all completion dates are achieved. Make allowance in your price to work after hours and weekends.	Sum				
1.2	Any additional builders work over and above main contractors, including make good after chasing, plaster to builders satisfaction.	Sum				
1.3	For marking up of Engineers drawings during construction and compiling of As-built drawings	Sum				
1.4	Any necessary calculations or drawings requested by the Engineer.	Sum				
1.5	Electrical Certificate of Compliance	Sum				
	<b><u>FOR THE CODING AND LABELLING OF:</u></b>					
1.6	All plant and equipment	Sum				
1.7	Wiring	Sum				
	<b><u>FOR HEALTH AND SAFETY:</u></b>					
1.8	All Health and Safety related activities such as H&S File, Toolbox Talks, etc.	Sum				
	<b><u>FOR ENVIRONMENTAL:</u></b>					
1.9	For managing environmental aspects	Sum				
Total Carried Forward To Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
2	<b>CABLING</b>  Circuit wiring along with earth wire with the following sizes of XLPE insulated copper conductor single core/ multi strand cable in surface/recessed PVC conduit as required.					
2.1	Supply and install 2.5 sq.mm GP wire	m	1110			
2.2	Supply and install 4 sq.mm GP wire	m	120			
2.3	Supply and install 6sq mm 1-phase 3-core SWA CU cable compatible with SANS 1507-3	m	20			
2.4	Supply and install cable terminations set for 6sq.mm 4 core Cu cable	No	2			
2.5	Supply and install 10sq.mm 1-phase 4-core SWA CU cable compatible with SANS 1507-3	m	150			
2.6	Supply and install cable terminations for 16sq.mm 3 core Cu cable	No	2			
2.7	Supply and install 95 sq.mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m	80			
2.8	Supply and install cable termination sets for 95sq.mm 4 core Cu cable	No	2			
2.9	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	444			
2.10	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	40			
Total Carried Forward						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
3	<b>LIGHTING</b>  <b>LIGHT FITTINGS</b> Supply and installation of the following lamps and light fittings with Electronic Control Gear, starter, capacitor, tubes/lamps, reflector, diffuser, holder etc. complete with all fixing accessories. Includes installation of the 1.5 sq.mm wiring to all light points as indicated in the lighting layout drawing. All interior lighting shall be mounted onto ceilings.					
3.1	15W LED downlight	No.	21			
3.2	35W round LED Bulkhead	No.	14			
3.3	55W LED linear fitting 4000k	No.	31			
3.4	<b>OCCUPANCY SENSORS</b> Supply and installation of Passive infrared Occupancy sensors complete with power packs and auxiliary relays, for control of lighting circuits	No.	2			
3.5	<b>PHOTO SENSORS</b> Supply and installation of Daylight photo sensors, for the control of outdoor lighting circuits. Switch LS10C Photo sensor-10A, IP56, or similar.	No.	2			
	<b>LIGHT SWITCHES</b> Supply and install Schneider S3000 light switches complete with coverplate. Includes wiring of the switch points					
3.6	1-lever 1-way switch, 100x50mm with cover plate, white	No	11			
3.7	2-lever 1-way switch, 100x50mm with cover plate, white	No	1			
3.8	Testing and Commissioning of Lighting Installation	Lot	1			
3.9	4x2 PVC bxs complete with fittings	No	#REF!			
3.10	5A plugs for light fitting	No	31			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY			AMOUNT R
4	<b>SMALL POWER</b> Supply and installation of Crabtree range (or similar) small power equipment in accordance with SANS10142-1.					
4.1	Single 16A, 3pin switched socket outlet with Euro Combination	No.	17			
4.2	Double 16A, 3pin switched socket outlet with Euro Combination	No.	11			
4.3	Double 16A, 3pin switched socket outlet with Euro Combination for UPS circuits	No.	81			
4.4	Trunking	No.	150			
4.5	1Tier Power Skirting including all accessories	No.	0			
4.6	2Tier Power Skirting including all accessories (Power + Data)	No.	11			
4.7	Telephone Point	No.	1			
4.8	Data Point	No.	0			
4.9	Wifi Including all accessories	No.	3			
4.10	4x4 PVC boxes complete with fittings	No.	110			
4.11	4x2 PVC boxes complete with fittings	No.	0			
	<b>ISOLATORS</b> Supply and installation of flush or surface mounted Isolators in either 100 x 100, 100 x 50, round box or wiring channel, excluding box (for flush type) and conduit connections, but including cover plate.					
4.12	10A Single Pole 3KA Isolators Points with light indicator and cord grip	No.	1			
4.13	20A Triple Pole 3KA Isolators with light indicator and cord grip	No.	0			
4.14	30A Triple Pole 3KA Isolators with light indicator and cord grip	No.	0			
4.15	Testing and Commissioning of Small Power Installation	Lot	1			
4.16	6KVA Eaton or similar UPS systems including 10minutes back each	No.	0			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>5</b>	<b>DISTRIBUTION BOARDS</b> Supply and install Distribution Boards in accordance with SANS10142 as per the following: Drawing Reference					
5.1	DB-KAF	No	1			
Total Carried Forward to Summary						

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>6</b>	<b>LIGHTNING PROTECTION AND EARTHING</b>  Supply and install lightning protection system in accordance with SANS 10313. Copper Earthing straps to be bonded and earthed according to SANS10142. By Specialist					
6.1	Bonding Points	No	8			
6.2	Earth Test Points	No	8			
6.3	Clamps including all accessories	No	40			
6.4	10mm sq Insulated Aluminium down conductor	m	75			
6.5	50mm sq BCEW cable	m	80			
6.6	10mm sq Bare Aluminium conductor	m	150			
6.7	1.5m Long Copper Earth Rods	No	25			
6.8	Exothermic Welds	No	8			
6.9	300mm wide X 600mm deep trenching	m	80			
Total Carried Forward						



ITEM	DESCRIPTION	AMOUNT R
1	PRELIMINARY AND GENERAL	
2	CABLING	
3	LIGHTING	
4	SMALL POWER	
5	DISTRIBUTION BOARDS	
6	LIGHTNING PROTECTION AND EARTHING	
Total		
Add 5% Contingency		
Sub Total		
Add VAT @ 15%		
Grand Total		



BLOCK E						
ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
1	<p><b><u>PRELIMINARY AND GENERAL</u></b></p> <p>Note: All items shall be priced for whatever cost may be considered necessary for Preliminary and General items to carry out the Electrical Installation in full, as detailed in the drawings, Specifications and Schedules, which shall include, but shall not be limited, to the following:</p>					
1.1	Site establishment - including but not limited to latrines, water, generators, fuel, ALL safety aspects, site office, clerks of works. Careful planning will be required from building contractor to ensure that all completion dates are achieved. Make allowance in your price to work after hours and weekends.	Sum				
1.2	Any additional builders work over and above main contractors, including make good after chasing, plaster to builders satisfaction.	Sum				
1.3	For marking up of Engineers drawings during construction and compiling of As-built drawings	Sum				
1.4	Any necessary calculations or drawings requested by the Engineer.	Sum				
1.5	Electrical Certificate of Compliance	Sum				
	<b><u>FOR THE CODING AND LABELLING OF:</u></b>					
1.6	All plant and equipment	Sum				
1.7	Wiring	Sum				
	<b><u>FOR HEALTH AND SAFETY:</u></b>					
1.8	All Health and Safety related activities such as H&S File, Toolbox Talks, etc.	Sum				
	<b><u>FOR ENVIRONMENTAL:</u></b>					
1.9	For managing environmental aspects	Sum				
Total Carried Forward To Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>2</b>	<b>CABLING</b>  Circuit wiring along with earth wire with the following sizes of XLPE insulated copper conductor single core/ multi strand cable in surface/recessed PVC conduit as required.					
2.1	Supply and install 2.5 sq.mm GP wire	m	450			
2.2	Supply and install 4 sq.mm GP wire	m	650			
2.3	Supply and install 6sq mm 1-phase 3-core SWA CU cable compatible with SANS 1507-3	m	130			
2.4	Supply and install cable terminations set for 6sq.mm 4 core Cu cable	No	2			
2.5	Supply and install 10 sq.mm 1-phase 3-core SWA CU cable compatible with SANS 1507-3	m	150			
2.6	Supply and install cable terminations for 10sq.mm 3 core Cu cable	No	2			
2.7	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	180			
2.8	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	217			
2.9	Supply and install M160 PVC Sleeves	m	150			
2.10	Trenching for Power M160 PVC Sleeve- 500mm wide x 1000mm deep, including bedding soil and backfill	m	150			
Total Carried Forward						





ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>3</b>	<b>LIGHTING</b>					
	<b>LIGHT FITTINGS</b> Supply and installation of the following lamps and light fittings with Electronic Control Gear, starter, capacitor, tubes/lamps, reflector, diffuser, holder etc. complete with all fixing accessories. Includes installation of the 1.5 sq.mm wiring to all light points as indicated in the lighting layout drawing. All interior lighting shall be mounted onto ceilings.					
3.1	15W LED downlight	No.	13			
3.2	25W round LED Bulkhead	No.	6			
3.3	35W round LED Bulkhead	No.	14			
3.4	25W LED panel 600x1200mm	No.	1			
3.5	50W LED panel 600x1200mm	No.	43			
3.6	40W LED linear fitting 4000k	No.	9			
3.7	<b>OCCUPANCY SENSORS</b> Supply and installation of Passive infrared Occupancy sensors complete with power packs and auxiliary relays, for control of lighting circuits	No.	5			
3.8	<b>PHOTO SENSORS</b> Supply and installation of Daylight photo sensors, for the control of outdoor lighting circuits. Switch LS10C Photo sensor-10A, IP56, or similar.	No.	3			
	<b>LIGHT SWITCHES</b> Supply and install Schneider S3000 light switches complete with coverplate. Includes wiring of the switch points					
3.9	1-lever 1-way switch, 100x50mm with cover plate, white	No	14			
3.10	1-lever 2-way switch, 100x50mm with cover plate, white	No				
3.11	2-lever 1-way switch, 100x50mm with cover plate, white	No	1			
3.12	3-lever 1-way switch, 100x50mm with cover plate, white	No	1			
3.13	4-lever 1-way switch, 100x50mm with cover plate, white	No				
3.14	Multigang Point (Switching, 2pin, 3pin, usb interchangeable etc)	No				
3.15	Testing and Commissioning of Lighting Installation	Lot	1			
3.16	4x2 PVC bxs complete with fittings	No	66			
3.17	5A plugs for light fitting	No	9			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY			AMOUNT R
<b>4</b>	<b>SMALL POWER</b> Supply and installation of Crabtree range (or similar) small power equipment in accordance with SANS10142-1.					
4.1	Single 16A, 3pin switched socket outlet with Euro Combination	No.	17			
4.2	Double 16A, 3pin switched socket outlet with Euro Combination	No.	13			
4.3	Double 16A, 3pin switched socket outlet with Euro Combination for UPS circuits	No.	0			
4.4	Trunking	No.	50			
4.5	1Tier Power Skirting including all accessories	No.	0			
4.6	2Tier Power Skirting including all accessories (Power + Data)	No.	0			
4.7	Telephone Point	No.	1			
4.8	Data Point	No.	0			
4.9	Wifi Including all accessories	No.	3			
4.10	4x4 PVC boxes complete with fittings	No.	31			
4.11	4x2 PVC boxes complete with fittings	No.	0			
	<b>ISOLATORS</b> Supply and installation of flush or surface mounted Isolators in either 100 x 100, 100 x 50, round box or wiring channel, excluding box (for flush type) and conduit connections, but including cover plate.					
4.12	10A Single Pole 3KA Isolators Points with light indicator and cord grip	No.	1			
4.13	20A Triple Pole 3KA Isolators with light indicator and cord grip	No.	0			
4.14	30A Triple Pole 3KA Isolators with light indicator and cord grip	No.	0			
4.15	Testing and Commissioning of Small Power Installation	Lot	1			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>5</b>	<b>DISTRIBUTION BOARDS</b> Supply and install Distribution Boards in accordance with SANS10142 as per the following: Drawing Reference					
5.1	DB-BIB	No	1			
Total Carried Forward to Summary						

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>6</b>	<b>LIGHTNING PROTECTION AND EARTHING</b>  Supply and install lightning protection system in accordance with SANS 10313. Copper Earthing straps to be bonded and earthed according to SANS10142. By Specialist					
6.1	Bonding Points	No	8			
6.2	Earth Test Points	No	8			
6.3	Clamps including all accessories	No	52			
6.4	10mm sq Insulated Aluminium down conductor	m	45			
6.5	50mm sq BCEW cable	m	115			
6.6	10mm sq Bare Aluminium conductor	m	140			
6.7	1.5m Long Copper Earth Rods	No	35			
6.8	Exothermic Welds	No	8			
6.9	300mm wide X 600mm deep trenching	m	115			
Total Carried Forward						

ITEM	DESCRIPTION	AMOUNT R
1	PRELIMINARY AND GENERAL	
2	CABLING	
3	LIGHTING	
4	SMALL POWER	
5	DISTRIBUTION BOARDS	
6	LIGHTNING PROTECTION AND EARTHING	
Total		
Add 5% Contingency		
Sub Total		
Add VAT @ 15%		
Grand Total		



BLOCK FGH						
ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
1	<b><u>PRELIMINARY AND GENERAL</u></b>  Note: All items shall be priced for whatever cost may be considered necessary for Preliminary and General items to carry out the Electrical Installation in full, as detailed in the drawings, Specifications and Schedules, which shall include, but shall not be limited, to the following:					
1.1	Site establishment - including but not limited to latrines, water, generators, fuel, ALL safety aspects, site office, clerks of works. Careful planning will be required from building contractor to ensure that all completion dates are achieved. Make allowance in your price to work after hours and weekends.	Sum				
1.2	Any additional builders work over and above main contractors, including make good after chasing, plaster to builders satisfaction.	Sum				
1.3	For marking up of Engineers drawings during construction and compiling of As-built drawings	Sum				
1.4	Any necessary calculations or drawings requested by the Engineer.	Sum				
1.5	Electrical Certificate of Compliance	Sum				
	<b><u>FOR THE CODING AND LABELLING OF:</u></b>					
1.6	All plant and equipment	Sum				
1.7	Wiring	Sum				
	<b><u>FOR HEALTH AND SAFETY:</u></b>					
1.8	All Health and Safety related activities such as H&S File, Toolbox Talks, etc.	Sum				
	<b><u>FOR ENVIRONMENTAL:</u></b>					
1.9	For managing environmental aspects	Sum				
Total Carried Forward To Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
2	<b>CABLING</b>  Circuit wiring along with earth wire with the following sizes of XLPE insulated copper conductor single core/ multi strand cable in surface/recessed PVC conduit as required.					
2.1	Supply and install 2.5 sq.mm GP wire	m	2850			
2.2	Supply and install 4 sq.mm GP wire	m	650			
2.3	Supply and install 6sq mm 1-phase 3-core SWA CU cable compatible with SANS 1507-3	m	50			
2.4	Supply and install cable terminations set for 6sq.mm 4 core Cu cable	No	18			
2.5	Supply and install 10 sq.mm 1-phase 3-core SWA CU cable compatible with SANS 1507-3	m	175			
2.6	Supply and install cable terminations for 10sq.mm 3 core Cu cable	No	2			
2.7	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	1140			
2.8	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	217			
2.9	Supply and install M160 PVC Sleeves	m	175			
2.10	Trenching for Power M160 PVC Sleeve- 500mm wide x 1000mm deep, including bedding soil and backfill	m	175			
Total Carried Forward						



ITEM	DESCRIPTION	UNIT	QTY			AMOUNT R
<b>3</b>	<b>LIGHTING</b>					
	<b>LIGHT FITTINGS</b> Supply and installation of the following lamps and light fittings with Electronic Control Gear, starter, capacitor, tubes/lamps, reflector, diffuser, holder etc. complete with all fixing accessories. Includes installation of the 1.5 sq.mm wiring to all light points as indicated in the lighting layout drawing. All interior lighting shall be mounted onto ceilings.					
3.1	15W LED downlight	No.	53			
3.2	35W round LED Bulkhead	No.	68			
3.3	55W LED linear fitting 4000k	No.	215			
3.4	<b>OCCUPANCY SENSORS</b> Supply and installation of Passive infrared Occupancy sensors complete with power packs and auxiliary relays, for control of lighting circuits	No.	6			
3.5	<b>PHOTO SENSORS</b> Supply and installation of Daylight photo sensors, for the control of outdoor lighting circuits. Switch LS10C Photo sensor-10A, IP56, or similar.	No.	1			
	<b>LIGHT SWITCHES</b> Supply and install Schneider S3000 light switches complete with coverplate. Includes wiring of the switch points					
3.6	1-lever 1-way switch, 100x50mm with cover plate, white	No	47			
3.7	2-lever 1-way switch, 100x50mm with cover plate, white	No	2			
3.8	Testing and Commissioning of Lighting Installation	Lot	1			
3.9	4x2 PVC boxes complete with fittings	No	280			
3.10	5A plugs for light fitting	No	68			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY			AMOUNT R
4	<b>SMALL POWER</b> Supply and installation of Crabtree range (or similar) small power equipment in accordance with SANS10142-1.					
4.1	Single 16A, 3pin switched socket outlet with Euro Combination	No.	233			
4.2	Double 16A, 3pin switched socket outlet with Euro Combination	No.	5			
4.3	Double 16A, 3pin switched socket outlet with Euro Combination for UPS circuits	No.	0			
4.4	Trunking	No.	20			
4.5	1Tier Power Skirting including all accessories	No.	0			
4.6	2Tier Power Skirting including all accessories (Power + Data)	No.	360			
4.7	Telephone Point	No.	0			
4.8	Data Point	No.	185			
4.9	Wifi Including all accessories	No.	11			
4.10	4x4 PVC boxes complete with fittings	No.	247			
4.11	4x2 PVC boxes complete with fittings	No.	0			
	<b>ISOLATORS</b> Supply and installation of flush or surface mounted Isolators in either 100 x 100, 100 x 50, round box or wiring channel, excluding box (for flush type) and conduit connections, but including cover plate.					
4.12	10A Single Pole 3KA Isolators Points with light indicator and cord grip	No.	5			
4.13	20A Triple Pole 3KA Isolators with light indicator and cord grip	No.	0			
4.14	30A Triple Pole 3KA Isolators with light indicator and cord grip	No.	4			
4.15	Testing and Commissioning of Small Power Installation	Lot	1			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>5</b>	<b>DISTRIBUTION BOARDS</b> Supply and install Distribution Boards in accordance with SANS10142 as per the following: Drawing Reference					
5.1	VDB-F	No	1			
5.2	VDB-G	No	1			
5.3	VDB-G1	No	1			
5.4	DB-BH	No	1			
5.5	VDB-H1	No	1			
5.6	VDB-H2	No	1			
Total Carried Forward to Summary						

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>6</b>	<b>LIGHTNING PROTECTION AND EARTHING</b> Supply and install lightning protection system in accordance with SANS 10313. Copper Earthing straps to be bonded and earthed according to SANS10142. By Specialist					
6.1	Bonding Points	No	20			
6.2	Earth Test Points	No	14			
6.3	Clamps including all accessories	No	65			
6.4	10mm sq Insulated Aluminium down conductor	m	250			
6.5	50mm sq BCEW cable	m	240			
6.6	10mm sq Bare Aluminium conductor	m	440			
6.7	1.5m Long Copper Earth Rods	No	34			
6.8	Exothermic Welds	No	20			
6.9	300mm wide X 600mm deep trenching	m	240			
Total Carried Forward						





ITEM	DESCRIPTION	AMOUNT R
1	PRELIMINARY AND GENERAL	
2	CABLING	
3	LIGHTING	
4	SMALL POWER	
5	DISTRIBUTION BOARDS	
6	LIGHTNING PROTECTION AND EARTHING	
Total		
Add 5% Contingency		
Sub Total		
Add VAT @ 15%		
Grand Total		



BLOCK T1						
ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
1	<b><u>PRELIMINARY AND GENERAL</u></b>  Note: All items shall be priced for whatever cost may be considered necessary for Preliminary and General items to carry out the Electrical Installation in full, as detailed in the drawings, Specifications and Schedules, which shall include, but shall not be limited, to the following:					
1.1	Site establishment - including but not limited to latrines, water, generators, fuel, ALL safety aspects, site office, clerks of works. Careful planning will be required from building contractor to ensure that all completion dates are achieved. Make allowance in your price to work after hours and weekends.	Sum				
1.2	Any additional builders work over and above main contractors, including make good after chasing, plaster to builders satisfaction.	Sum				
1.3	For marking up of Engineers drawings during construction and compiling of As-built drawings	Sum				
1.4	Any necessary calculations or drawings requested by the Engineer.	Sum				
1.5	Electrical Certificate of Compliance	Sum				
	<b><u>FOR THE CODING AND LABELLING OF:</u></b>					
1.6	All plant and equipment	Sum				
1.7	Wiring	Sum				
	<b><u>FOR HEALTH AND SAFETY:</u></b>					
1.8	All Health and Safety related activities such as H&S File, Toolbox Talks, etc.	Sum				
	<b><u>FOR ENVIRONMENTAL:</u></b>					
1.9	For managing environmental aspects	Sum				
Total Carried Forward To Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>2</b>	<b>CABLING</b>  Circuit wiring along with earth wire with the following sizes of XLPE insulated copper conductor single core/ multi strand cable in surface/recessed PVC conduit as required.					
2.1	Supply and install 2.5 sq.mm GP wire	m	600			
2.2	Supply and install 4 sq.mm GP wire	m	140			
2.3	Supply and install 6 sq.mm 1-phase 3-core SWA CU cable compatible with SANS 1507-3	m	0			
2.4	Supply and install cable terminations for 6sq.mm 3 core Cu cable	No	0			
2.5	Supply and install 10 sq.mm 1-phase 3-core SWA CU cable compatible with SANS 1507-3	m	110			
2.6	Supply and install cable terminations for 10sq.mm 3 core Cu cable	No	2			
2.7	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	240			
2.8	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	47			
2.9	Supply and install M110 PVC Sleeves	m	0			
2.10	Trenching for Power M110 PVC Sleeve- 500mm wide x 1000mm deep, including bedding soil and backfill	m	0			
Total Carried Forward						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
3	<b>LIGHTING</b>  <b>LIGHT FITTINGS</b> Supply and installation of the following lamps and light fittings with Electronic Control Gear, starter, capacitor, tubes/lamps, reflector, diffuser, holder etc. complete with all fixing accessories. Includes installation of the 1.5 sq.mm wiring to all light points as indicated in the lighting layout drawing. All interior lighting shall be mounted onto ceilings.					
3.1	35W round LED Bulkhead	No.	5			
3.2	55W LED linear fitting 4000k	No.	73			
3.3	<b>PHOTO SENSORS</b> Supply and installation of Daylight photo sensors, for the control of outdoor lighting circuits. Switch LS10C Photo sensor-10A, IP56, or similar.	No.	2			
	<b>LIGHT SWITCHES</b> Supply and install Schneider S3000 light switches complete with coverplate. Includes wiring of the switch points					
3.4	1-lever 1-way switch, 100x50mm with cover plate, white	No	13			
3.5	1-lever 2-way switch, 100x50mm with cover plate, white	No	2			
3.6	Testing and Commissioning of Lighting Installation	Lot	1			
3.7	4x2 PVC bxs complete with fittings	No	#REF!			
3.8	5A plugs for light fitting	No	73			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>4</b>	<b>SMALL POWER</b> Supply and installation of Crabtree range (or similar) small power equipment in accordance with SANS10142-1.					
4.1	Single 16A, 3pin switched socket outlet with Euro Combination	No.	62			
4.2	Double 16A, 3pin switched socket outlet with Euro Combination	No.	12			
4.3	Double 16A, 3pin switched socket outlet with Euro Combination for UPS circuits	No.	0			
4.4	Trunking	No.	0			
4.5	1Tier Power Skirting including all accessories	No.	20			
4.6	2Tier Power Skirting including all accessories (Power + Data)	No.	80			
4.7	Telephone Point	No.	0			
4.8	Data Point	No.	27			
4.9	Wifi Including all accessories	No.	1			
4.10	4x4 PVC boxes complete with fittings	No.	74			
4.11	4x2 PVC boxes complete with fittings	No.	0			
	<b>ISOLATORS</b> Supply and installation of flush or surface mounted Isolators in either 100 x 100, 100 x 50, round box or wiring channel, excluding box (for flush type) and conduit connections, but including cover plate.					
4.12	10A Single Pole 3KA Isolators Points with light indicator and cord grip	No.	0			
4.13	20A Triple Pole 3KA Isolators with light indicator and cord grip	No.	0			
4.14	30A Triple Pole 3KA Isolators with light indicator and cord grip	No.	0			
4.15	Testing and Commissioning of Small Power Installation	Lot	1			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>5</b>	<b>DISTRIBUTION BOARDS</b> Supply and install Distribution Boards in accordance with SANS10142 as per the following: Drawing Reference					
5.1	VDB-T	No	1			
5.2	VDB-T1	No	1			
Total Carried Forward to Summary						

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>6</b>	<b>LIGHTNING PROTECTION AND EARTHING</b>  Supply and install lightning protection system in accordance with SANS 10313. Copper Earthing straps to be bonded and earthed according to SANS10142. By Specialist					
6.1	Bonding Points	No	6			
6.2	Earth Test Points	No	6			
6.3	Clamps including all accessories	No	50			
6.4	10mm sq Insulated Aluminium down conductor	m	27			
6.5	50mm sq BCEW cable	m	108			
6.6	10mm sq Bare Aluminium conductor	m	117			
6.7	1.5m Long Copper Earth Rods	No	36			
6.8	Exothermic Welds	No	6			
6.9	300mm wide X 600mm deep trenching	m	108			
Total Carried Forward						

ITEM	DESCRIPTION	AMOUNT R
1	PRELIMINARY AND GENERAL	
2	CABLING	
3	LIGHTING	
4	SMALL POWER	
5	DISTRIBUTION BOARDS	
6	LIGHTNING PROTECTION AND EARTHING	
Total		
Add 5% Contingency		
Sub Total		
Add VAT @ 15%		
Grand Total		



BLOCK W1						
ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
1	<b><u>PRELIMINARY AND GENERAL</u></b>  Note: All items shall be priced for whatever cost may be considered necessary for Preliminary and General items to carry out the Electrical Installation in full, as detailed in the drawings, Specifications and Schedules, which shall include, but shall not be limited, to the following:					
1.1	Site establishment - including but not limited to latrines, water, generators, fuel, ALL safety aspects, site office, clerks of works. Careful planning will be required from building contractor to ensure that all completion dates are achieved. Make allowance in your price to work after hours and weekends.	Sum				
1.2	Any additional builders work over and above main contractors, including make good after chasing, plaster to builders satisfaction.	Sum				
1.3	For marking up of Engineers drawings during construction and compiling of As-built drawings	Sum				
1.4	Any necessary calculations or drawings requested by the Engineer.	Sum				
1.5	Electrical Certificate of Compliance	Sum				
	<b><u>FOR THE CODING AND LABELLING OF:</u></b>					
1.6	All plant and equipment	Sum				
1.7	Wiring	Sum				
	<b><u>FOR HEALTH AND SAFETY:</u></b>					
1.8	All Health and Safety related activities such as H&S File, Toolbox Talks, etc.	Sum				
	<b><u>FOR ENVIRONMENTAL:</u></b>					
1.9	For managing environmental aspects	Sum				
Total Carried Forward To Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
2	<b>CABLING</b>  Circuit wiring along with earth wire with the following sizes of XLPE insulated copper conductor single core/ multi strand cable in surface/recessed PVC conduit as required.					
2.1	Supply and install 2.5 sq.mm GP wire	m	830			
2.2	Supply and install 4 sq.mm GP wire	m	60			
2.3	Supply and install 6 sq.mm 1-phase 3-core SWA CU cable compatible with SANS 1507-3	m	0			
2.4	Supply and install cable terminations for 6sq.mm 3 core Cu cable	No	2			
2.5	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	332			
2.6	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	20			
2.8	Supply and install M110 PVC Sleeves	m	0			
2.9	Trenching for Power M110 PVC Sleeve- 500mm wide x 1000mm deep, including bedding soil and backfill	m	0			
Total Carried Forward						





ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
3	<b>LIGHTING</b>  <b>LIGHT FITTINGS</b> Supply and installation of the following lamps and light fittings with Electronic Control Gear, starter, capacitor, tubes/lamps, reflector, diffuser, holder etc. complete with all fixing accessories. Includes installation of the 1.5 sq.mm wiring to all light points as indicated in the lighting layout drawing. All interior lighting shall be mounted onto ceilings.					
3.1	15W LED downlight	No.	28			
3.2	35W round LED Bulkhead	No.	5			
3.3	55W LED linear fitting 4000k	No.	44			
3.4	55W LED linear fitting 4000k, IP65	No.	5			
3.5	50W LED floodlight	No.	2			
3.6	<b>OCCUPANCY SENSORS</b> Supply and installation of Passive infrared Occupancy sensors complete with power packs and auxiliary relays, for control of lighting circuits	No.	4			
3.7	<b>PHOTO SENSORS</b> Supply and installation of Daylight photo sensors, for the control of outdoor lighting circuits. Switch LS10C Photo sensor-10A, IP56, or similar.	No.	2			
	<b>LIGHT SWITCHES</b> Supply and install Schneider S3000 light switches complete with coverplate. Includes wiring of the switch points					
3.8	1-lever 1-way switch, 100x50mm with cover plate, white	No	9			
3.9	Testing and Commissioning of Lighting Installation	Lot	1			
3.10	4x2 PVC bxs complete with fittings	No	29			
3.11	5A plugs for light fitting	No	44			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>4</b>	<b>SMALL POWER</b> Supply and installation of Crabtree range (or similar) small power equipment in accordance with SANS10142-1.					
4.1	Single 16A, 3pin switched socket outlet with Euro Combination	No.	20			
4.2	Double 16A, 3pin switched socket outlet with Euro Combination	No.	0			
4.3	Double 16A, 3pin switched socket outlet with Euro Combination for UPS circuits	No.	0			
4.4	Trunking	No.	0			
4.5	1Tier Power Skirting including all accessories	No.	0			
4.6	2Tier Power Skirting including all accessories (Power + Data)	No.	0			
4.7	Telephone Point	No.	0			
4.8	Data Point	No.	0			
4.9	Wifi Including all accessories	No.	2			
4.10	4x4 PVC boxes complete with fittings	No.	20			
4.11	4x2 PVC boxes complete with fittings	No.	0			
	<b>ISOLATORS</b> Supply and installation of flush or surface mounted Isolators in either 100 x 100, 100 x 50, round box or wiring channel, excluding box (for flush type) and conduit connections, but including cover plate.					
4.12	10A Single Pole 3KA Isolators Points with light indicator and cord grip	No.	0			
4.13	20A Triple Pole 3KA Isolators with light indicator and cord grip	No.	0			
4.14	30A Triple Pole 3KA Isolators with light indicator and cord grip	No.	0			
4.15	Testing and Commissioning of Small Power Installation	Lot	1			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>5</b>	<b>DISTRIBUTION BOARDS</b> Supply and install Distribution Boards in accordance with SANS10142 as per the following: Drawing Reference					
5.1	VDB-W1	No	1			
Total Carried Forward to Summary						

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>6</b>	<b>LIGHTNING PROTECTION AND EARTHING</b>  Supply and install lightning protection system in accordance with SANS 10313. Copper Earthing straps to be bonded and earthed according to SANS10142. By Specialist					
6.1	Bonding Points	No	9			
6.2	Earth Test Points	No	9			
6.3	Clamps including all accessories	No	83			
6.4	10mm sq Insulated Aluminium down conductor	m	47			
6.5	50mm sq BCEW cable	m	183			
6.6	10mm sq Bare Aluminium conductor	m	194			
6.7	1.5m Long Copper Earth Rods	No	60			
6.8	Exothermic Welds	No	9			
6.9	300mm wide X 600mm deep trenching	m	183			
Total Carried Forward						



ITEM	DESCRIPTION	AMOUNT R
1	PRELIMINARY AND GENERAL	
2	CABLING	
3	LIGHTING	
4	SMALL POWER	
5	DISTRIBUTION BOARDS	
6	LIGHTNING PROTECTION AND EARTHING	
Total		
Add 5% Contingency		
Sub Total		
Add VAT @ 15%		
Grand Total		



BLOCK T2						
ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
1	<b><u>PRELIMINARY AND GENERAL</u></b>  Note: All items shall be priced for whatever cost may be considered necessary for Preliminary and General items to carry out the Electrical Installation in full, as detailed in the drawings, Specifications and Schedules, which shall include, but shall not be limited, to the following:					
1.1	Site establishment - including but not limited to latrines, water, generators, fuel, ALL safety aspects, site office, clerks of works. Careful planning will be required from building contractor to ensure that all completion dates are achieved. Make allowance in your price to work after hours and weekends.	Sum				
1.2	Any additional builders work over and above main contractors, including make good after chasing, plaster to builders satisfaction.	Sum				
1.3	For marking up of Engineers drawings during construction and compiling of As-built drawings	Sum				
1.4	Any necessary calculations or drawings requested by the Engineer.	Sum				
1.5	Electrical Certificate of Compliance	Sum				
	<b><u>FOR THE CODING AND LABELLING OF:</u></b>					
1.6	All plant and equipment	Sum				
1.7	Wiring	Sum				
	<b><u>FOR HEALTH AND SAFETY:</u></b>					
1.8	All Health and Safety related activities such as H&S File, Toolbox Talks, etc.	Sum				
	<b><u>FOR ENVIRONMENTAL:</u></b>					
1.9	For managing environmental aspects	Sum				
Total Carried Forward To Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
2	<b>CABLING</b>  Circuit wiring along with earth wire with the following sizes of XLPE insulated copper conductor single core/ multi strand cable in surface/recessed PVC conduit as required.					
2.1	Supply and install 2.5 sq.mm GP wire	m	550			
2.2	Supply and install 4 sq.mm GP wire	m	90			
2.3	Supply and install 6 sq.mm 1-phase 3-core SWA CU cable compatible with SANS 1507-3	m	0			
2.4	Supply and install cable terminations for 6sq.mm 4 core Cu cable	No	0			
2.5	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	220			
2.6	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	30			
2.8	Supply and install M110 PVC Sleeves	m	0			
2.9	Trenching for Power M110 PVC Sleeve- 500mm wide x 1000mm deep, including bedding soil and backfill	m	0			
Total Carried Forward						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
3	<b>LIGHTING</b>  <b>LIGHT FITTINGS</b> Supply and installation of the following lamps and light fittings with Electronic Control Gear, starter, capacitor, tubes/lamps, reflector, diffuser, holder etc. complete with all fixing accessories. Includes installation of the 1.5 sq.mm wiring to all light points as indicated in the lighting layout drawing. All interior lighting shall be mounted onto ceilings.					
3.1	35W round LED Bulkhead	No.	7			
3.2	55W LED linear fitting 4000k	No.	54			
3.3	<b>PHOTO SENSORS</b> Supply and installation of Daylight photo sensors, for the control of outdoor lighting circuits. Switch LS10C Photo sensor-10A, IP56, or similar.	No.	2			
	<b>LIGHT SWITCHES</b> Supply and install Schneider S3000 light switches complete with coverplate. Includes wiring of the switch points					
3.4	1-lever 1-way switch, 100x50mm with cover plate, white	No	6			
3.5	Testing and Commissioning of Lighting Installation	Lot	1			
3.6	4x2 PVC bxes complete with fittings	No	24			
3.7	5A plugs for light fitting	No	54			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
4	<b>SMALL POWER</b> Supply and installation of Crabtree range (or similar) small power equipment in accordance with SANS10142-1.					
4.1	Single 16A, 3pin switched socket outlet with Euro Combination	No.	18			
4.2	Double 16A, 3pin switched socket outlet with Euro Combination	No.	0			
4.3	Double 16A, 3pin switched socket outlet with Euro Combination for UPS circuits	No.	0			
4.4	Trunking	No.	0			
4.5	1Tier Power Skirting including all accessories	No.	0			
4.6	2Tier Power Skirting including all accessories (Power + Data)	No.	0			
4.7	Telephone Point	No.	0			
4.8	Data Point	No.	0			
4.9	Wifi Including all accessories	No.	1			
4.10	4x4 PVC boxes complete with fittings	No.	18			
4.11	4x2 PVC boxes complete with fittings	No.	0			
	<b>ISOLATORS</b> Supply and installation of flush or surface mounted Isolators in either 100 x 100, 100 x 50, round box or wiring channel, excluding box (for flush type) and conduit connections, but including cover plate.					
4.12	10A Single Pole 3KA Isolators Points with light indicator and cord grip	No.	0			
4.13	20A Triple Pole 3KA Isolators with light indicator and cord grip	No.	0			
4.14	30A Triple Pole 3KA Isolators with light indicator and cord grip	No.	0			
4.15	Testing and Commissioning of Small Power Installation	Lot	1			
Total Carried Forward to Summary						





ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>5</b>	<b>DISTRIBUTION BOARDS</b> Supply and install Distribution Boards in accordance with SANS10142 as per the following: Drawing Reference					
5.1	VDB-T2	No	1			
Total Carried Forward to Summary						

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>6</b>	<b>LIGHTNING PROTECTION AND EARTHING</b>  Supply and install lightning protection system in accordance with SANS 10313. Copper Earthing straps to be bonded and earthed according to SANS10142. By Specialist					
6.1	Bonding Points	No	6			
6.2	Earth Test Points	No	6			
6.3	Clamps including all accessories	No	50			
6.4	10mm sq Insulated Aluminium down conductor	m	27			
6.5	50mm sq BCEW cable	m	108			
6.6	10mm sq Bare Aluminium conductor	m	117			
6.7	1.5m Long Copper Earth Rods	No	36			
6.8	Exothermic Welds	No	6			
6.9	300mm wide X 600mm deep trenching	m	108			
Total Carried Forward						



ITEM	DESCRIPTION	AMOUNT R
1	PRELIMINARY AND GENERAL	
2	CABLING	
3	LIGHTING	
4	SMALL POWER	
5	DISTRIBUTION BOARDS	
6	LIGHTNING PROTECTION AND EARTHING	
Total		
Add 5% Contingency		
Sub Total		
Add VAT @ 15%		
Grand Total		



BLOCK W2						
ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
1	<b><u>PRELIMINARY AND GENERAL</u></b>  Note: All items shall be priced for whatever cost may be considered necessary for Preliminary and General items to carry out the Electrical Installation in full, as detailed in the drawings, Specifications and Schedules, which shall include, but shall not be limited, to the following:					
1.1	Site establishment - including but not limited to latrines, water, generators, fuel, ALL safety aspects, site office, clerks of works. Careful planning will be required from building contractor to ensure that all completion dates are achieved. Make allowance in your price to work after hours and weekends.	Sum				
1.2	Any additional builders work over and above main contractors, including make good after chasing, plaster to builders satisfaction.	Sum				
1.3	For marking up of Engineers drawings during construction and compiling of As-built drawings	Sum				
1.4	Any necessary calculations or drawings requested by the Engineer.	Sum				
1.5	Electrical Certificate of Compliance	Sum				
	<b><u>FOR THE CODING AND LABELLING OF:</u></b>					
1.6	All plant and equipment	Sum				
1.7	Wiring	Sum				
	<b><u>FOR HEALTH AND SAFETY:</u></b>					
1.8	All Health and Safety related activities such as H&S File, Toolbox Talks, etc.	Sum				
	<b><u>FOR ENVIRONMENTAL:</u></b>					
1.9	For managing environmental aspects	Sum				
Total Carried Forward To Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
2	<b>CABLING</b>  Circuit wiring along with earth wire with the following sizes of XLPE insulated copper conductor single core/ multi strand cable in surface/recessed PVC conduit as required.					
2.1	Supply and install 2.5 sq.mm GP wire	m	780			
2.2	Supply and install 4 sq.mm GP wire	m	70			
2.3	Supply and install 6 sq.mm 1-phase 3-core SWA CU cable compatible with SANS 1507-3	m	0			
2.4	Supply and install cable terminations for 6sq.mm 3 core Cu cable	No	0			
2.5	Supply and install 70 sq.mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m	250			
2.6	Supply and install cable terminations for 70sq.mm 5 core Cu cable	No	4			
2.7	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	23			
2.8	Supply and install M110 PVC Sleeves	m	0			
2.9	Trenching for Power M110 PVC Sleeve- 500mm wide x 1000mm deep, including bedding soil and backfill	m	0			
Total Carried Forward						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
3	<b>LIGHTING</b>  <b>LIGHT FITTINGS</b> Supply and installation of the following lamps and light fittings with Electronic Control Gear, starter, capacitor, tubes/lamps, reflector, diffuser, holder etc. complete with all fixing accessories. Includes installation of the 1.5 sq.mm wiring to all light points as indicated in the lighting layout drawing. All interior lighting shall be mounted onto ceilings.					
3.1	35W round LED Bulkhead	No.	6			
3.2	55W LED linear fitting 4000k	No.	44			
3.3	55W LED linear fitting 4000k, IP65	No.	3			
3.4	50W LED floodlight	No.	1			
3.5	<b>PHOTO SENSORS</b> Supply and installation of Daylight photo sensors, for the control of outdoor lighting circuits. Switch LS10C Photo sensor-10A, IP56, or similar.	No.	2			
	<b>LIGHT SWITCHES</b> Supply and install Schneider S3000 light switches complete with coverplate. Includes wiring of the switch points					
3.6	1-lever 1-way switch, 100x50mm with cover plate, white	No	9			
3.7	Testing and Commissioning of Lighting Installation	Lot	1			
3.8	4x2 PVC bxs complete with fittings	No	#REF!			
3.9	5A plugs for light fitting	No	3			
3.10	4x2 PVC bxs complete with fittings	No	24			
3.11	5A plugs for light fitting	No	3			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY			AMOUNT R
4	<b>SMALL POWER</b> Supply and installation of Crabtree range (or similar) small power equipment in accordance with SANS10142-1.					
4.1	Single 16A, 3pin switched socket outlet with Euro Combination	No.	22			
4.2	Double 16A, 3pin switched socket outlet with Euro Combination	No.	2			
4.3	Double 16A, 3pin switched socket outlet with Euro Combination for UPS circuits	No.	0			
4.4	Trunking	No.	0			
4.5	1Tier Power Skirting including all accessories	No.	0			
4.6	2Tier Power Skirting including all accessories (Power + Data)	No.	0			
4.7	Telephone Point	No.	0			
4.8	Data Point	No.	0			
4.9	Wifi Including all accessories	No.	2			
4.10	4x4 PVC boxes complete with fittings	No.	24			
4.11	4x2 PVC boxes complete with fittings	No.	0			
	<b>ISOLATORS</b> Supply and installation of flush or surface mounted Isolators in either 100 x 100, 100 x 50, round box or wiring channel, excluding box (for flush type) and conduit connections, but including cover plate.					
4.12	10A Single Pole 3KA Isolators Points with light indicator and cord grip	No.	0			
4.13	20A Triple Pole 3KA Isolators with light indicator and cord grip	No.	0			
4.14	30A Triple Pole 3KA Isolators with light indicator and cord grip	No.	0			
4.15	Testing and Commissioning of Small Power Installation	Lot	1			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>5</b>	<b>DISTRIBUTION BOARDS</b> Supply and install Distribution Boards in accordance with SANS10142 as per the following: Drawing Reference					
5.1	DB-W2	No	1			
Total Carried Forward to Summary						

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>6</b>	<b>LIGHTNING PROTECTION AND EARTHING</b>  Supply and install lightning protection system in accordance with SANS 10313. Copper Earthing straps to be bonded and earthed according to SANS10142. By Specialist					
6.1	Bonding Points	No	11			
6.2	Earth Test Points	No	11			
6.3	Clamps including all accessories	No	77			
6.4	10mm sq Insulated Aluminium down conductor	m	55			
6.5	50mm sq BCEW cable	m	168			
6.6	10mm sq Bare Aluminium conductor	m	186			
6.7	1.5m Long Copper Earth Rods	No	53			
6.8	Exothermic Welds	No	11			
6.9	300mm wide X 600mm deep trenching	m	168			
Total Carried Forward						

ITEM	DESCRIPTION	AMOUNT R
1	PRELIMINARY AND GENERAL	
2	CABLING	
3	LIGHTING	
4	SMALL POWER	
5	DISTRIBUTION BOARDS	
6	LIGHTNING PROTECTION AND EARTHING	
Total		
Add 5% Contingency		
Sub Total		
Add VAT @ 15%		
Grand Total		



STAFF QUARTERS						
ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
1	<p><b><u>PRELIMINARY AND GENERAL</u></b></p> <p>Note: All items shall be priced for whatever cost may be considered necessary for Preliminary and General items to carry out the Electrical Installation in full, as detailed in the drawings, Specifications and Schedules, which shall include, but shall not be limited, to the following:</p>					
1.1	Site establishment - including but not limited to latrines, water, generators, fuel, ALL safety aspects, site office, clerks of works. Careful planning will be required from building contractor to ensure that all completion dates are achieved. Make allowance in your price to work after hours and weekends.	Sum				
1.2	Any additional builders work over and above main contractors, including make good after chasing, plaster to builders satisfaction.	Sum				
1.3	For marking up of Engineers drawings during construction and compiling of As-built drawings	Sum				
1.4	Any necessary calculations or drawings requested by the Engineer.	Sum				
1.5	Electrical Certificate of Compliance	Sum				
	<b><u>FOR THE CODING AND LABELLING OF:</u></b>					
1.6	All plant and equipment	Sum				
1.7	Wiring	Sum				
	<b><u>FOR HEALTH AND SAFETY:</u></b>					
1.8	All Health and Safety related activities such as H&S File, Toolbox Talks, etc.	Sum				
	<b><u>FOR ENVIRONMENTAL:</u></b>					
1.9	For managing environmental aspects	Sum				
Total Carried Forward To Summary						





ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>2</b>	<b>CABLING</b>  Circuit wiring along with earth wire with the following sizes of XLPE insulated copper conductor single core/ multi strand cable in surface/recessed PVC conduit as required.					
2.1	Supply and install 2.5 sq.mm GP wire	m	750			
2.2	Supply and install 4 sq.mm GP wire	m	80			
2.3	Supply and install 6 sq.mm 1-phase 3-core SWA CU cable compatible with SANS 1507-3	m	30			
2.4	Supply and install cable terminations for 6sq.mm 3 core Cu cable	No	2			
2.5	Supply and install 10sq mm 1-phase 3-core SWA CU cable compatible with SANS 1507-3	m	2			
2.6	Supply and install cable terminations set for 10sq.mm 3 core Cu cable	No	16			
2.7	Supply and install 16 sq.mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m	200			
2.8	Supply and install cable terminations for 16sq.mm 4 core Cu cable	No	80			
2.9	Supply and install 95 sq.mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m	160			
2.10	Supply and install cable termination sets for 95sq.mm 4 core Cu cable	No	32			
2.11	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	300			
2.12	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	27			
Total Carried Forward						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>3</b>	<b>LIGHTING</b>					
	<b>LIGHT FITTINGS</b> Supply and installation of the following lamps and light fittings with Electronic Control Gear, starter, capacitor, tubes/lamps, reflector, diffuser, holder etc. complete with all fixing accessories. Includes installation of the 1.5 sq.mm wiring to all light points as indicated in the lighting layout drawing. All interior lighting shall be mounted onto ceilings.					
3.1	15W LED downlight	No.	32			
3.2	35W round LED Bulkhead	No.	9			
3.3	55W LED linear fitting 4000k	No.	34			
3.4	<b>OCCUPANCY SENSORS</b> Supply and installation of Passive infrared Occupancy sensors complete with power packs and auxiliary relays, for control of lighting circuits	No.	5			
3.5	<b>PHOTO SENSORS</b> Supply and installation of Daylight photo sensors, for the control of outdoor lighting circuits. Switch LS10C Photo sensor-10A, IP56, or similar.	No.	2			
	<b>LIGHT SWITCHES</b> Supply and install Schneider S3000 light switches complete with coverplate. Includes wiring of the switch points					
3.6	1-lever 1-way switch, 100x50mm with cover plate, white	No	10			
3.7	1-lever 2-way switch, 100x50mm with cover plate, white	No	2			
3.8	Testing and Commissioning of Lighting Installation	Lot	1			
3.9	4x2 PVC bxes complete with fittings	No	24			
3.10	5A plugs for light fitting	No	34			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY			AMOUNT R
<b>4</b>	<b>SMALL POWER</b> Supply and installation of Crabtree range (or similar) small power equipment in accordance with SANS10142-1.					
4.1	Single 16A, 3pin switched socket outlet with Euro Combination	No.	12			
4.2	Double 16A, 3pin switched socket outlet with Euro Combination	No.	6			
4.3	Double 16A, 3pin switched socket outlet with Euro Combination for UPS circuits	No.	0			
4.4	Trunking	No.	250			
4.5	1Tier Power Skirting including all accessories	No.	0			
4.6	2Tier Power Skirting including all accessories (Power + Data)	No.	0			
4.7	Telephone Point	No.	0			
4.8	Data Point	No.	0			
4.9	Wifi Including all accessories	No.	1			
4.10	4x4 PVC boxes complete with fittings	No.	21			
4.11	4x2 PVC boxes complete with fittings	No.	0			
	<b>ISOLATORS</b> Supply and installation of flush or surface mounted Isolators in either 100 x 100, 100 x 50, round box or wiring channel, excluding box (for flush type) and conduit connections, but including cover plate.					
4.12	10A Single Pole 3KA Isolators Points with light indicator and cord grip	No.	2			
4.13	20A Triple Pole 3KA Isolators with light indicator and cord grip	No.	0			
4.14	30A Triple Pole 3KA Isolators with light indicator and cord grip	No.	1			
4.15	Testing and Commissioning of Small Power Installation	Lot	1			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>5</b>	<b>DISTRIBUTION BOARDS</b> Supply and install Distribution Boards in accordance with SANS10142 as per the following: Drawing Reference					
5.1	DB-SQ	No	1			
Total Carried Forward to Summary						

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>6</b>	<b>LIGHTNING PROTECTION AND EARTHING</b>					
6.1	Bonding Points	No	11			
6.2	Earth Test Points	No	10			
6.3	Clamps including all accessories	No	54			
6.4	10mm sq Insulated Aluminium down conductor	m	39			
6.5	50mm sq BCEW cable	m	116			
6.6	10mm sq Bare Aluminium conductor	m	140			
6.7	1.5m Long Copper Earth Rods	No	34			
6.8	Exothermic Welds	No	38			
6.9	300mm wide X 600mm deep trenching	m	116			
Total Carried Forward						

ITEM	DESCRIPTION	AMOUNT R
1	PRELIMINARY AND GENERAL	
2	CABLING	
3	LIGHTING	
4	SMALL POWER	
5	DISTRIBUTION BOARDS	
6	LIGHTNING PROTECTION AND EARTHING	
Total		
Add 5% Contingency		
Sub Total		
Add VAT @ 15%		
Grand Total		



ENGINEERING OFFICE						
ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
1	<b><u>PRELIMINARY AND GENERAL</u></b>  Note: All items shall be priced for whatever cost may be considered necessary for Preliminary and General items to carry out the Electrical Installation in full, as detailed in the drawings, Specifications and Schedules, which shall include, but shall not be limited, to the following:					
1.1	Site establishment - including but not limited to latrines, water, generators, fuel, ALL safety aspects, site office, clerks of works. Careful planning will be required from building contractor to ensure that all completion dates are achieved. Make allowance in your price to work after hours and weekends.	Sum				
1.2	Any additional builders work over and above main contractors, including make good after chasing, plaster to builders satisfaction.	Sum				
1.3	For marking up of Engineers drawings during construction and compiling of As-built drawings	Sum				
1.4	Any necessary calculations or drawings requested by the Engineer.	Sum				
1.5	Electrical Certificate of Compliance	Sum				
	<b><u>FOR THE CODING AND LABELLING OF:</u></b>					
1.6	All plant and equipment	Sum				
1.7	Wiring	Sum				
	<b><u>FOR HEALTH AND SAFETY:</u></b>					
1.8	All Health and Safety related activities such as H&S File, Toolbox Talks, etc.	Sum				
	<b><u>FOR ENVIRONMENTAL:</u></b>					
1.9	For managing environmental aspects	Sum				
Total Carried Forward To Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>2</b>	<b>CABLING</b>  Circuit wiring along with earth wire with the following sizes of XLPE insulated copper conductor single core/ multi strand cable in surface/recessed PVC conduit as required.					
2.1	Supply and install 2.5 sq.mm GP wire	m	340			
2.2	Supply and install 4 sq.mm GP wire	m	35			
2.3	Supply and install 6 sq.mm 1-phase 3-core SWA CU cable compatible with SANS 1507-3	m	0			
2.4	Supply and install cable terminations for 6sq.mm 3 core Cu cable	No	0			
2.5	Supply and install 10sq mm 1-phase 3-core SWA CU cable compatible with SANS 1507-3	m	180			
2.6	Supply and install cable terminations set for 10sq.mm 4 core Cu cable	No	16			
2.7	Supply and install 16 sq.mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m	200			
2.8	Supply and install cable terminations for 16sq.mm 4 core Cu cable	No	80			
2.9	Supply and install 95 sq.mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m	160			
2.10	Supply and install cable termination sets for 95sq.mm 4 core Cu cable	No	32			
2.11	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	136			
2.12	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	12			
Total Carried Forward						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
3	<b>LIGHTING</b>  <b>LIGHT FITTINGS</b> Supply and installation of the following lamps and light fittings with Electronic Control Gear, starter, capacitor, tubes/lamps, reflector, diffuser, holder etc. complete with all fixing accessories. Includes installation of the 1.5 sq.mm wiring to all light points as indicated in the lighting layout drawing. All interior lighting shall be mounted onto ceilings.					
3.1	35W round LED Bulkhead	No.	5			
3.2	55W LED linear fitting 4000k	No.	10			
3.3	<b>PHOTO SENSORS</b> Supply and installation of Daylight photo sensors, for the control of outdoor lighting circuits. Switch LS10C Photo sensor-10A, IP56, or similar.	No.	2			
	<b>LIGHT SWITCHES</b> Supply and install Schneider S3000 light switches complete with coverplate. Includes wiring of the switch points					
3.4	1-lever 1-way switch, 100x50mm with cover plate, white	No	5			
3.5	1-lever 2-way switch, 100x50mm with cover plate, white	No	2			
3.6	Testing and Commissioning of Lighting Installation	Lot	1			
3.7	4x2 PVC bxs complete with fittings	No	26			
3.8	5A plugs for light fitting	No	10			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY			AMOUNT R
<b>4</b>	<b>SMALL POWER</b> Supply and installation of Crabtree range (or similar) small power equipment in accordance with SANS10142-1.					
4.1	Single 16A, 3pin switched socket outlet with Euro Combination	No.	0			
4.2	Double 16A, 3pin switched socket outlet with Euro Combination	No.	0			
4.3	Double 16A, 3pin switched socket outlet with Euro Combination for UPS circuits	No.	19			
4.4	Trunking	No.	250			
4.5	1Tier Power Skirting including all accessories	No.	0			
4.6	2Tier Power Skirting including all accessories (Power + Data)	No.	0			
4.7	Telephone Point	No.	0			
4.8	Data Point	No.	4			
4.9	Wifi Including all accessories	No.	1			
4.10	4x4 PVC boxes complete with fittings	No.	19			
4.11	4x2 PVC boxes complete with fittings	No.	0			
	<b>ISOLATORS</b> Supply and installation of flush or surface mounted Isolators in either 100 x 100, 100 x 50, round box or wiring channel, excluding box (for flush type) and conduit connections, but including cover plate.					
4.12	10A Single Pole 3KA Isolators Points with light indicator and cord grip	No.	0			
4.13	20A Triple Pole 3KA Isolators with light indicator and cord grip	No.	0			
4.14	30A Triple Pole 3KA Isolators with light indicator and cord grip	No.	0			
4.15	Testing and Commissioning of Small Power Installation	Lot	1			
Total Carried Forward to Summary						





ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>5</b>	<b>DISTRIBUTION BOARDS</b> Supply and install Distribution Boards in accordance with SANS10142 as per the following: Drawing Reference					
5.1	VDB-R	No	1			
Total Carried Forward to Summary						

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>6</b>	<b>LIGHTNING PROTECTION AND EARTHING</b>					
6.1	Bonding Points	No	8			
6.2	Earth Test Points	No	8			
6.3	Clamps including all accessories	No	31			
6.4	10mm sq Insulated Aluminium down conductor	m	24			
6.5	50mm sq BCEW cable	m	53			
6.6	10mm sq Bare Aluminium conductor	m	56			
6.7	1.5m Long Copper Earth Rods	No	18			
6.8	Exothermic Welds	No	8			
6.9	300mm wide X 600mm deep trenching	m	53			
Total Carried Forward						

ITEM	DESCRIPTION	AMOUNT R
1	PRELIMINARY AND GENERAL	
2	CABLING	
3	LIGHTING	
4	SMALL POWER	
5	DISTRIBUTION BOARDS	
6	LIGHTNING PROTECTION AND EARTHING	
Total		
Add 5% Contingency		
Sub Total		
Add VAT @ 15%		
Grand Total		



ABLUTION BLOCK						
ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
1	<b><u>PRELIMINARY AND GENERAL</u></b>  Note: All items shall be priced for whatever cost may be considered necessary for Preliminary and General items to carry out the Electrical Installation in full, as detailed in the drawings, Specifications and Schedules, which shall include, but shall not be limited, to the following:					
1.1	Site establishment - including but not limited to latrines, water, generators, fuel, ALL safety aspects, site office, clerks of works. Careful planning will be required from building contractor to ensure that all completion dates are achieved. Make allowance in your price to work after hours and weekends.	Sum				
1.2	Any additional builders work over and above main contractors, including make good after chasing, plaster to builders satisfaction.	Sum				
1.3	For marking up of Engineers drawings during construction and compiling of As-built drawings	Sum				
1.4	Any necessary calculations or drawings requested by the Engineer.	Sum				
1.5	Electrical Certificate of Compliance	Sum				
	<b><u>FOR THE CODING AND LABELLING OF:</u></b>					
1.6	All plant and equipment	Sum				
1.7	Wiring	Sum				
	<b><u>FOR HEALTH AND SAFETY:</u></b>					
1.8	All Health and Safety related activities such as H&S File, Toolbox Talks, etc.	Sum				
	<b><u>FOR ENVIRONMENTAL:</u></b>					
1.9	For managing environmental aspects	Sum				
Total Carried Forward To Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
2	<b>CABLING</b>  Circuit wiring along with earth wire with the following sizes of XLPE insulated copper conductor single core/ multi strand cable in surface/recessed PVC conduit as required.					
2.1	Supply and install 2.5 sq.mm GP wire	m	100			
2.2	Supply and install 4 sq.mm GP wire	m	0			
2.3	Supply and install 10 sq.mm 1-phase 3-core SWA CU cable compatible with SANS 1507-3	m	145			
2.4	Supply and install cable terminations for 10sq.mm 3 core Cu cable	No	2			
2.5	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	40			
2.6	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	0			
2.8	Supply and install M160 PVC Sleeves	m	145			
2.9	Trenching for Power M160 PVC Sleeve- 500mm wide x 1000mm deep, including bedding soil and backfill	m	145			
Total Carried Forward						



ITEM	DESCRIPTION	UNIT	QTY			AMOUNT R
3	<b>LIGHTING</b>  <b>LIGHT FITTINGS</b> Supply and installation of the following lamps and light fittings with Electronic Control Gear, starter, capacitor, tubes/lamps, reflector, diffuser, holder etc. complete with all fixing accessories. Includes installation of the 1.5 sq.mm wiring to all light points as indicated in the lighting layout drawing. All interior lighting shall be mounted onto ceilings.					
3.1	15W LED downlight	No.	10			
3.2	35W round LED Bulkhead	No.	3			
3.3	<b>OCCUPANCY SENSORS</b> Supply and installation of Passive infrared Occupancy sensors complete with power packs and auxiliary relays, for control of lighting circuits	No.	3			
3.4	<b>PHOTO SENSORS</b> Supply and installation of Daylight photo sensors, for the control of outdoor lighting circuits. Switch LS10C Photo sensor-10A, IP56, or similar.  <b>LIGHT SWITCHES</b> Supply and install Schneider S3000 light switches complete with coverplate. Includes wiring of the switch points	No.	1			
3.5	1-lever 1-way switch, 100x50mm with cover plate, white	No	4			
3.6	Testing and Commissioning of Lighting Installation	Lot	1			
3.7	4x2 PVC bxes complete with fittings	No				
3.8	5A plugs for light fitting	No				
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>4</b>	<b>SMALL POWER</b> Supply and installation of Crabtree range (or similar) small power equipment in accordance with SANS10142-1.					
4.1	Single 16A, 3pin switched socket outlet with Euro Combination	No.	0			
4.2	Double 16A, 3pin switched socket outlet with Euro Combination	No.	0			
4.3	Double 16A, 3pin switched socket outlet with Euro Combination for UPS circuits	No.	0			
4.4	Trunking	No.	30			
4.5	1Tier Power Skirting including all accessories	No.	0			
4.6	2Tier Power Skirting including all accessories (Power + Data)	No.	0			
4.7	Telephone Point	No.	0			
4.8	Data Point	No.	0			
4.9	Wifi Including all accessories	No.	0			
4.10	4x4 PVC boxes complete with fittings	No.	0			
4.11	4x2 PVC boxes complete with fittings	No.	0			
	<b>ISOLATORS</b> Supply and installation of flush or surface mounted Isolators in either 100 x 100, 100 x 50, round box or wiring channel, excluding box (for flush type) and conduit connections, but including cover plate.					
4.12	10A Single Pole 3KA Isolators Points with light indicator and cord grip	No.	0			
4.13	20A Triple Pole 3KA Isolators with light indicator and cord grip	No.	0			
4.14	30A Triple Pole 3KA Isolators with light indicator and cord grip	No.	0			
4.15	Testing and Commissioning of Small Power Installation	Lot	1			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>5</b>	<b>DISTRIBUTION BOARDS</b> Supply and install Distribution Boards in accordance with SANS10142 as per the following: Drawing Reference					
5.1	VDB-U	No	1			
Total Carried Forward to Summary						

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>6</b>	<b>LIGHTNING PROTECTION AND EARTHING</b>  Supply and install lightning protection system in accordance with SANS 10313. Copper Earthing straps to be bonded and earthed according to SANS10142. By Specialist					
6.1	Bonding Points	No	4			
6.2	Earth Test Points	No	4			
6.3	Clamps including all accessories	No	17			
6.4	10mm sq Insulated Aluminium down conductor	m	16			
6.5	50mm sq BCEW cable	m	40			
6.6	10mm sq Bare Aluminium conductor	m	30			
6.7	1.5m Long Copper Earth Rods	No	10			
6.8	Exothermic Welds	No	4			
6.9	300mm wide X 600mm deep trenching	m	40			
Total Carried Forward						

ITEM	DESCRIPTION	AMOUNT R
1	PRELIMINARY AND GENERAL	
2	CABLING	
3	LIGHTING	
4	SMALL POWER	
5	DISTRIBUTION BOARDS	
6	LIGHTNING PROTECTION AND EARTHING	
Total		
Add 5% Contingency		
Sub Total		
Add VAT @ 15%		
Grand Total		



GUARDHOUSE						
ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
1	<b><u>PRELIMINARY AND GENERAL</u></b>  Note: All items shall be priced for whatever cost may be considered necessary for Preliminary and General items to carry out the Electrical Installation in full, as detailed in the drawings, Specifications and Schedules, which shall include, but shall not be limited, to the following:					
1.1	Site establishment - including but not limited to latrines, water, generators, fuel, ALL safety aspects, site office, clerks of works. Careful planning will be required from building contractor to ensure that all completion dates are achieved. Make allowance in your price to work after hours and weekends.	Sum				
1.2	Any additional builders work over and above main contractors, including make good after chasing, plaster to builders satisfaction.	Sum				
1.3	For marking up of Engineers drawings during construction and compiling of As-built drawings	Sum				
1.4	Any necessary calculations or drawings requested by the Engineer.	Sum				
1.5	Electrical Certificate of Compliance	Sum				
	<b><u>FOR THE CODING AND LABELLING OF:</u></b>					
1.6	All plant and equipment	Sum				
1.7	Wiring	Sum				
	<b><u>FOR HEALTH AND SAFETY:</u></b>					
1.8	All Health and Safety related activities such as H&S File, Toolbox Talks, etc.	Sum				
	<b><u>FOR ENVIRONMENTAL:</u></b>					
1.9	For managing environmental aspects	Sum				
Total Carried Forward To Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
2	<b>CABLING</b>  Circuit wiring along with earth wire with the following sizes of XLPE insulated copper conductor single core/ multi strand cable in surface/recessed PVC conduit as required.					
2.1	Supply and install 2.5 sq.mm GP wire	m	80			
2.2	Supply and install 4 sq.mm GP wire	m	10			
2.3	Supply and install 10 sq.mm 1-phase 3-core SWA CU cable compatible with SANS 1507-3	m	165			
2.4	Supply and install cable terminations for 10sq.mm 3 core Cu cable	No	2			
2.5	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	32			
2.6	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	3			
2.8	Supply and install M160 PVC Sleeves	m	165			
2.9	Trenching for Power M160 PVC Sleeve-500mm wide x 1000mm deep, including bedding soil and backfill	m	165			
Total Carried Forward						





ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
3	<b>LIGHTING</b>  <b>LIGHT FITTINGS</b> Supply and installation of the following lamps and light fittings with Electronic Control Gear, starter, capacitor, tubes/lamps, reflector, diffuser, holder etc. complete with all fixing accessories. Includes installation of the 1.5 sq.mm wiring to all light points as indicated in the lighting layout drawing. All interior lighting shall be mounted onto ceilings.					
3.1	35W round LED Bulkhead	No.	3			
3.2	50W LED floodlight	No.	1			
3.3	<b>PHOTO SENSORS</b> Supply and installation of Daylight photo sensors, for the control of outdoor lighting circuits. Switch LS10C Photo sensor-10A, IP56, or similar.	No.	1			
	<b>LIGHT SWITCHES</b> Supply and install Schneider S3000 light switches complete with coverplate. Includes wiring of the switch points					
3.4	1-lever 1-way switch, 100x50mm with cover plate, white	No	1			
3.5	Testing and Commissioning of Lighting Installation	Lot	1			
3.6	4x2 PVC bxes complete with fittings	No	2			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>4</b>	<b>SMALL POWER</b> Supply and installation of Crabtree range (or similar) small power equipment in accordance with SANS10142-1.					
4.1	Single 16A, 3pin switched socket outlet with Euro Combination	No.	0			
4.2	Double 16A, 3pin switched socket outlet with Euro Combination	No.	1			
4.3	Double 16A, 3pin switched socket outlet with Euro Combination for UPS circuits	No.	0			
4.4	Trunking	No.	0			
4.5	1Tier Power Skirting including all accessories	No.	0			
4.6	2Tier Power Skirting including all accessories (Power + Data)	No.	0			
4.7	Telephone Point	No.	1			
4.8	Data Point	No.	0			
4.9	Wifi Including all accessories	No.	0			
4.10	4x4 PVC boxes complete with fittings	No.	1			
4.11	4x2 PVC boxes complete with fittings	No.	0			
	<b>ISOLATORS</b> Supply and installation of flush or surface mounted Isolators in either 100 x 100, 100 x 50, round box or wiring channel, excluding box (for flush type) and conduit connections, but including cover plate.					
4.12	10A Single Pole 3KA Isolators Points with light indicator and cord grip	No.	0			
4.13	20A Triple Pole 3KA Isolators with light indicator and cord grip	No.	0			
4.14	30A Triple Pole 3KA Isolators with light indicator and cord grip	No.	0			
4.15	Testing and Commissioning of Small Power Installation	Lot	1			
Total Carried Forward to Summary						

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>5</b>	<b>DISTRIBUTION BOARDS</b> Supply and install Distribution Boards in accordance with SANS10142 as per the following: Drawing Reference					
5.1	VDB-S1	No	1			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>6</b>	<b>LIGHTNING PROTECTION AND EARTHING</b>					
	Supply and install lightning protection system in accordance with SANS 10313. Copper Earthing straps to be bonded and earthed according to SANS10142. By Specialist					
6.1	Bonding Points	No	4			
6.2	Earth Test Points	No	4			
6.3	Clamps including all accessories	No	22			
6.4	10mm sq Insulated Aluminium down conductor	m	12			
6.5	50mm sq BCEW cable	m	42			
6.6	10mm sq Bare Aluminium conductor	m	30			
6.7	1.5m Long Copper Earth Rods	No	14			
6.8	Exothermic Welds	No	4			
6.9	300mm wide X 600mm deep trenching	m	42			
Total Carried Forward						

ITEM	DESCRIPTION	AMOUNT R
1	PRELIMINARY AND GENERAL	
2	CABLING	
3	LIGHTING	
4	SMALL POWER	
5	DISTRIBUTION BOARDS	
6	LIGHTNING PROTECTION AND EARTHING	
Total		
Add 5% Contingency		
Sub Total		
Add VAT @ 15%		
Grand Total		



GARAGE						
ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
1	<p><b><u>PRELIMINARY AND GENERAL</u></b></p> <p>Note: All items shall be priced for whatever cost may be considered necessary for Preliminary and General items to carry out the Electrical Installation in full, as detailed in the drawings, Specifications and Schedules, which shall include, but shall not be limited, to the following:</p>					
1.1	Site establishment - including but not limited to latrines, water, generators, fuel, ALL safety aspects, site office, clerks of works. Careful planning will be required from building contractor to ensure that all completion dates are achieved. Make allowance in your price to work after hours and weekends.	Sum				
1.2	Any additional builders work over and above main contractors, including make good after chasing, plaster to builders satisfaction.	Sum				
1.3	For marking up of Engineers drawings during construction and compiling of As-built drawings	Sum				
1.4	Any necessary calculations or drawings requested by the Engineer.	Sum				
1.5	Electrical Certificate of Compliance	Sum				
	<b><u>FOR THE CODING AND LABELLING OF:</u></b>					
1.6	All plant and equipment	Sum				
1.7	Wiring	Sum				
	<b><u>FOR HEALTH AND SAFETY:</u></b>					
1.8	All Health and Safety related activities such as H&S File, Toolbox Talks, etc.	Sum				
	<b><u>FOR ENVIRONMENTAL:</u></b>					
1.9	For managing environmental aspects	Sum				
Total Carried Forward To Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
2	<b>CABLING</b>  Circuit wiring along with earth wire with the following sizes of XLPE insulated copper conductor single core/ multi strand cable in surface/recessed PVC conduit as required.					
2.1	Supply and install 2.5 sq.mm GP wire	m	195			
2.2	Supply and install 4 sq.mm GP wire	m	4500			
2.3	Supply and install 10sq mm 1-phase 3-core SWA CU cable compatible with SANS 1507-3	m				
2.4	Supply and install cable terminations set for 10sq.mm 4 core Cu cable	No				
2.5	Supply and install 16 sq.mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m				
2.6	Supply and install cable terminations for 16sq.mm 4 core Cu cable	No				
2.7	Supply and install 95 sq.mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m				
2.8	Supply and install cable termination sets for 95sq.mm 4 core Cu cable	No	32			
2.9	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	78			
2.10	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	1500			
Total Carried Forward						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
3	<b>LIGHTING</b>  <b>LIGHT FITTINGS</b> Supply and installation of the following lamps and light fittings with Electronic Control Gear, starter, capacitor, tubes/lamps, reflector, diffuser, holder etc. complete with all fixing accessories. Includes installation of the 1.5 sq.mm wiring to all light points as indicated in the lighting layout drawing. All interior lighting shall be mounted onto ceilings.					
3.1	35W round LED Bulkhead	No.	4			
3.2	55W LED linear fitting 4000k	No.	3			
3.3	<b>PHOTO SENSORS</b> Supply and installation of Daylight photo sensors, for the control of outdoor lighting circuits. Switch LS10C Photo sensor-10A, IP56, or similar.	No.	1			
	<b>LIGHT SWITCHES</b> Supply and install Schneider S3000 light switches complete with coverplate. Includes wiring of the switch points					
3.4	1-lever 1-way switch, 100x50mm with cover plate, white	No	1			
3.5	Testing and Commissioning of Lighting Installation	Lot	1			
3.6	4x2 PVC bxs complete with fittings	No	2			
3.7	5A plugs for light fitting	No	3			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY			AMOUNT R
<b>4</b>	<b>SMALL POWER</b> Supply and installation of Crabtree range (or similar) small power equipment in accordance with SANS10142-1.					
4.1	Single 16A, 3pin switched socket outlet with Euro Combination	No.	0			
4.2	Double 16A, 3pin switched socket outlet with Euro Combination	No.	1			
4.3	Double 16A, 3pin switched socket outlet with Euro Combination for UPS circuits	No.	0			
4.4	Trunking	No.	250			
4.5	1Tier Power Skirting including all accessories	No.	0			
4.6	2Tier Power Skirting including all accessories (Power + Data)	No.	0			
4.7	Telephone Point	No.	0			
4.8	Data Point	No.	0			
4.9	Wifi Including all accessories	No.	0			
4.10	4x4 PVC boxes complete with fittings	No.	1			
4.11	4x2 PVC boxes complete with fittings	No.	0			
	<b>ISOLATORS</b> Supply and installation of flush or surface mounted Isolators in either 100 x 100, 100 x 50, round box or wiring channel, excluding box (for flush type) and conduit connections, but including cover plate.					
4.12	10A Single Pole 3KA Isolators Points with light indicator and cord grip	No.	0			
4.13	20A Triple Pole 3KA Isolators with light indicator and cord grip	No.	0			
4.14	30A Triple Pole 3KA Isolators with light indicator and cord grip	No.	0			
4.15	Testing and Commissioning of Small Power Installation	Lot	1			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>5</b>	<b>DISTRIBUTION BOARDS</b> Supply and install Distribution Boards in accordance with SANS10142 as per the following: Drawing Reference					
5.1	DB-GARAGE	No	1			
Total Carried Forward to Summary						

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>6</b>	<b>LIGHTNING PROTECTION AND EARTHING</b>					
6.1	Bonding Points	No	12			
6.2	Earth Test Points	No	6			
6.3	Clamps including all accessories	No	40			
6.4	10mm sq Insulated Aluminium down conductor	m	21			
6.5	50mm sq BCEW cable	m	59			
6.6	10mm sq Bare Aluminium conductor	m	70			
6.7	1.5m Long Copper Earth Rods	No	21			
6.8	Exothermic Welds	No	12			
6.9	300mm wide X 600mm deep trenching	m	59			
Total Carried Forward						

ITEM	DESCRIPTION	AMOUNT R
1	PRELIMINARY AND GENERAL	
2	CABLING	
3	LIGHTING	
4	SMALL POWER	
5	DISTRIBUTION BOARDS	
6	LIGHTNING PROTECTION AND EARTHING	
Total		
Add 5% Contingency		
Sub Total		
Add VAT @ 15%		
Grand Total		





EXTERNAL WORKS						
ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
1	<b><u>PRELIMINARY AND GENERAL</u></b>  Note: All items shall be priced for whatever cost may be considered necessary for Preliminary and General items to carry out the Electrical Installation in full, as detailed in the drawings, Specifications and Schedules, which shall include, but shall not be limited, to the following:					
1.1	Site establishment - including but not limited to latrines, water, generators, fuel, ALL safety aspects, site office, clerks of works. Careful planning will be required from building contractor to ensure that all completion dates are achieved. Make allowance in your price to work after hours and weekends.	Sum				
1.2	Any additional builders work over and above main contractors, including make good after chasing, plaster to builders satisfaction.	Sum				
1.3	For marking up of Engineers drawings during construction and compiling of As-built drawings	Sum				
1.4	Any necessary calculations or drawings requested by the Engineer.	Sum				
1.5	Electrical Certificate of Compliance	Sum				
	<b><u>FOR THE CODING AND LABELLING OF:</u></b>					
1.6	All plant and equipment	Sum				
1.7	Wiring	Sum				
	<b><u>FOR HEALTH AND SAFETY:</u></b>					
1.8.1	All Health and Safety related activities such as H&S File compilation	Sum				
1.8.2	Medical certificates of fitness	Sum				
1.8.3	First aid box	Sum				
1.8.4	Provision of a safety officer (Fully registered with SACPCMP)	Sum				
1.8.5	Provision of Personal Protective Equipment	Sum				



1.8.6	Signage, information display and barricading	Sum				
1.8.7	Non-contact thermometer	Sum				
1.8.8	70% alcohol hand sanitiser (500ml)	Sum				
1.8.9	COVID-19 PPE	Sum				
	<b><u>FOR ENVIRONMENTAL:</u></b>					
1.9	For managing environmental aspects	Sum				
	<b><u>DECOMMISSION/DEMOLISH</u></b>					
1.10	For stripping, removal and making safe of any damaged existing infrastructure <b><u>Ancillary Works</u></b>	Sum				
1.11	Provision for associated works	Sum				
Total Carried Forward To Summary						R -



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>2</b>	<b>CABLING</b>					
	Circuit wiring along with earth wire with the following sizes of XLPE insulated copper conductor single core/ multi strand cable in surface/recessed PVC conduit as required.					
2.1	Supply and install 2.5 sq.mm GP wire	m				
2.2	Supply and install 4 sq.mm GP wire	m				
2.1	Supply and install 95 sq.mm 3-phase 4-core + ECC SWA CU cable compatible with SANS 1507-3	m				
2.2	Supply and install cable terminations for 95sq.mm 5 core Cu cable	No				
2.3	Supply and install 150sq mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m				
2.4	Supply and install cable terminations set for 150sq.mm 4 core Cu cable	No				
2.5	Supply and install Metal Cable Tray (HCT) complete with accessories	m				
2.6	Supply and install Cable Ladder (CL130) complete with accessories	m				
2.7	Manhole - FC chamber, with bases, ports and a concrete coverslab with a hinged DMC polymer lid which is lockable including excavation of dimensions 1200mm wide x 1200mm wide x 1200mm deep for POWER	No				
2.8	Supply and install M160 PVC Sleeves	m				
2.9	Trenching for Power M160 PVC MV Sleeve- 500mm wide x 1000mm deep, including bedding soil and backfill	m				
2.6	Supply and installation of 300mm thick concrete plinth (5500x2500mm footprint) protruding 150mm above ground level with the following:					
2.6.1	25MPa/19mm stone concrete	m <sup>3</sup>				
2.6.2	Mesh ref. 311 (5400x2400mm footprint) placed 50mm from top and bottom of plinth	m <sup>2</sup>				
2.6.3	Vertical Formwork 150mm high all around	m <sup>2</sup>				



2.6.4	Layerworks: Rip and recompact 150 thick layer of in-situ material to 90% Mod AASHTO	m <sup>2</sup>				
2.6.5	Layerworks:150mm thick imported G5 layer compacted to 95% Mod AASHTO	m <sup>2</sup>				
2.6.6	250 micron DPC layer below plinth	m <sup>2</sup>				
2.6.7	Soil Poisoning	m <sup>2</sup>				
2.7	Testing					
2.7.1	Concrete cube testing	No				
2.7.1	G5 Compaction testing	No				
Total Carried Forward to Summary					R	-



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
3	<b>LIGHTING</b>  <b>LIGHT FITTINGS</b> Supply and installation of the following lamps and light fittings with Electronic Control Gear, starter, capacitor, tubes/lamps, reflector, diffuser, holder etc. complete with all fixing accessories. Includes installation of the 1.5 sq.mm wiring to all light points as indicated in the lighting layout drawing. All interior lighting shall be mounted onto ceilings.					
3.1	4m Galvanized steel LED 50W post top luminaire	No.				
3.2	<b>PHOTO SENSORS</b> Supply and installation of Daylight photo sensors, for the control of outdoor lighting circuits. Switch LS10C Photo sensor-10A, IP56, or similar.	No.				
Total Carried Forward to Summary						R -

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
4	<b>DISTRIBUTION BOARDS</b> Supply and install Distribution Boards in accordance with SANS10142 as per the following: Drawing Reference					
4.1	Generator Main LV Panel including automatic Changeover	No				
4.2	Main LV Panel for Normal Loads	No				
Total Carried Forward to Summary						R -

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
5	<b>LIGHTNING PROTECTION AND EARTHING</b>					
5.1	Supply and install lightning protection system in accordance with SANS 10313 for the Generator. Copper Earthing straps to be bonded and earthed according to SANS10142.	No.				
Total Carried Forward						R -



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
<b>6</b>	<b>POWER SUPPLY AND BACK-UP</b>					
6.1	Upgrade of 800A supply to 1000A including connection and all other associated costs from Supply Authority	Sum				
6.2	Profit and Attendance on Item 6.1 and 6.2	%				
6.3	Supply and Install a 400KVA (Scania/Volvo or equivalent) closed set generator c/w AMF panel & change-over. 3CR12 sound attenuation canopy, delivery to site, operating manuals and commissioning documentation to be included.	No				
6.4	Access and coordination of power outages to ensure minimal shutdown for campus operations.	Sum				
6.5	Provisional Sum to allow for Data Logging to gather all load readings as instructed by engineer during load testing and commissioning.	Sum				
Total Carried Forward						R -

ITEM	DESCRIPTION	AMOUNT R
1	PRELIMINARY AND GENERAL	R -
2	CABLING	R -
3	LIGHTING	R -
4	DISTRIBUTION BOARDS	R -
5	LIGHTNING PROTECTION AND EARTHING	R -
6	POWER SUPPLY AND BACK-UP	R -
Total		R -
Add 5% Contingency		R -
Sub Total		R -
Add VAT @ 15%		R -
Grand Total		R -



EKURHULENI EAST TVET BENONI CAMPUS SUMMARY		
ITEM	DESCRIPTION	AMOUNT R
1	Block A	
2	Block B	
3	Block C	
4	Block D	
5	Block E	
6	Block F/G/H	
7	Block J/K/L	
8	Block T1	
9	Block T2	
10	Block W1	
11	Block W2	
12	Block STAFF QUARTERS	
13	Block ENGINEERING OFFICE	
14	Block ABLUTION	
15	Block GUARDHOUSE	
16	Block GARAGE	
17	SITE AND EXTERNAL WORKS	
Total Incl VAT		

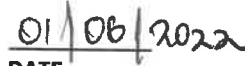
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MR M MATHE  
BSC CHAIRPERSON

  
30/5/2022  
DATE



MS HM SIBANDE  
PRINCIPAL

  
01/06/2022  
DATE

