



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
1	<u>PRELIMINARY AND GENERAL</u> 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				
	<u>FOR THE CODING AND LABELLING OF:</u>					
1.6	All plant and equipment	Sum				
1.7	Wiring	Sum				
	<u>FOR HEALTH AND SAFETY:</u>					
1.8	All Health and Safety related activities such as H&S File, Toolbox Talks, etc.	Sum				
	<u>FOR ENVIRONMENTAL:</u>					
1.9	For managing environmental aspects	Sum				
Total Carried Forward To Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
2	CABLING 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	8800			
2.2	Supply and install 4 sq.mm GP wire	m	9200			
2.3	Supply and install 6sq mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m	420			
2.4	Supply and install cable terminations set for 6sq.mm 4 core Cu cable	No	16			
2.5	Supply and install 16 sq.mm 1-phase 3-core SWA CU cable compatible with SANS 1507-3	m	120			
2.6	Supply and install cable terminations for 16sq.mm 4 core Cu cable	No	4			
2.7	Supply and install 70 sq.mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m	125			
2.8	Supply and install cable terminations for 70sq.mm 4 core Cu cable	No	6			
2.9	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	3520			
2.10	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	3067			
2.11	Supply and install M160 PVC Sleeves	m	125			
2.12	Trenching for Power M160 PVC - 500mm wide x 1000mm deep, including bedding soil and backfill	m	125			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
3	LIGHTING					
	LIGHT FITTINGS 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.	20			
3.3	55W LED linear fitting 4000k	No.	0			
3.4	55W LED linear fitting 4000k, IP65	No.	0			
3.5	36W LED panel 600x600mm	No.	130			
3.6	54W LED panel 600x1200mm	No.	63			
3.7	50W LED floodlight	No.	10			
3.8	OCCUPANCY SENSORS Supply and installation of Passive infrared Occupancy sensors complete with power packs and auxiliary relays. for control of	No.	10			
3.9	PHOTO SENSORS Supply and installation of Daylight photo sensors, for the control of outdoor lighting circuits. Switch LS10C Photo sensor-10A, IP56, or similar.	No.	10			
	LIGHT SWITCHES Supply and install Schneider S3000 light switches complete with coverplate. Includes wiring of the switch points					
3.10	1-lever 1-way switch, 100x50mm with cover plate, white	No	66			
3.11	Testing and Commissioning of Lighting Installation	Lot	1			
3.12	4x2 PVC bxs complete with fittings	No	66			
3.13	5A plugs for light fitting	No	0			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
4	SMALL POWER Supply and installation of Crabtree range (or similar) small power equipment in accordance					
4.1	Single 16A, 3pin switched socket outlet with Euro Combination	No.	84			
4.2	Double 16A, 3pin switched socket outlet with Euro Combination	No.	264			
4.3	Double 16A, 3pin switched socket outlet with Euro Combination for UPS circuits	No.	0			
4.4	Trunking	No.	320			
4.5	1Tier Power Skirting including all accessories	No.	62			
4.6	2Tier Power Skirting including all accessories (Power + Data)	No.	50			
4.7	Telephone Point	No.	12			
4.8	Data Point	No.	60			
4.9	Wifi Including all accessories	No.	0			
4.10	4x4 PVC boxes complete with fittings	No.	364			
4.11	4x2 PVC boxes complete with fittings	No.	0			
	ISOLATORS 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.	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.	4			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
5	DISTRIBUTION BOARDS Supply and install Distribution Boards in accordance with SANS10142 as per the following: Drawing Reference					
5.1	DB-CA	No	1			
5.2	DB-CB	No	1			
5.2	DB-CC	No	1			
5.2	DB-CF	No	1			
Total Carried Forward to Summary						

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
6	LIGHTNING PROTECTION AND EARTHING 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	24			
6.2	Earth Test Points	No	24			
6.3	Clamps including all accessories	No	602			
6.4	10mm sq Insulated Aluminium down conductor	m	225			
6.5	50mm sq BCEW cable	m	585			
6.6	10mm sq Bare Aluminium conductor	m	690			
6.7	1.5m Long Copper Earth Rods	No	478			
6.8	Exothermic Welds	No	24			
6.9	300mm wide X 600mm deep trenching	m	585			
Total Carried Forward						



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



BLOCK B						
ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
1	PRELIMINARY AND GENERAL 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				
	<u>FOR THE CODING AND LABELLING OF:</u>					
1.6	All plant and equipment	Sum				
1.7	Wiring	Sum				
	<u>FOR HEALTH AND SAFETY:</u>					
1.8	All Health and Safety related activities such	Sum				
	<u>FOR ENVIRONMENTAL:</u>					
1.9	For managing environmental aspects	Sum				
Total Carried Forward To Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
2	CABLING					
	with the following sizes of XLPE insulated					
2.1	Supply and install 2.5 sq.mm GP wire	m	7600			
2.2	Supply and install 4 sq.mm GP wire for wiring	m	8200			
2.3	Supply and install 6sq mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m	360			
2.4	Supply and install cable terminations set for 6sq.mm 4 core Cu cable	No	12			
2.5	Supply and install 16 sq.mm 1-phase 3-core SWA CU cable compatible with SANS 1507-3	m	400			
2.6	Supply and install cable terminations for 16sq.mm 4 core Cu cable	No	16			
2.7	Supply and install 70 sq.mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m	162			
2.8	Supply and install cable terminations for 70sq.mm 4 core Cu cable	No	6			
2.9	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	3040			
2.10	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	2733			
2.11	Supply and install M160 PVC Sleeves	m	162			
2.12	Trenching for Power M160 PVC - 500mm wide x 1000mm deep, including bedding soil and backfill	m	162			
Total Carried Forward						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
3	LIGHTING					
	LIGHT FITTINGS 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.	0			
3.2	35W round LED Bulkhead	No.	53			
3.3	55W LED linear fitting 4000k	No.	0			
3.4	55W LED linear fitting 4000k, IP65	No.	30			
3.5	36W LED panel 300x1200mm	No.	170			
3.6	36W LED panel 600x1200mm	No.	0			
3.7	54W LED panel 600x1200mm	No.	0			
3.8	50W LED floodlight	No.	0			
3.9	OCCUPANCY SENSORS Supply and installation of Passive infrared Occupancy sensors complete with power packs and auxiliary relays, for control of lighting circuits	No.	8			
3.10	PHOTO SENSORS Supply and installation of Daylight photo sensors, for the control of outdoor lighting circuits. Switch LS10C Photo sensor-10A, IP66, or similar.	No.	4			
3.11	LIGHT SWITCHES Supply and install Schneider S3000 light switches complete with coverplate. Includes wiring of the switch points					
3.12	1-lever 1-way switch, 100x50mm with cover plate, white	No	30			
3.13	1-lever 2-way switch, 100x50mm with cover plate, white	No				
3.14	2-lever 1-way switch, 100x50mm with cover plate, white	No	13			
3.15	3-lever 1-way switch, 100x50mm with cover plate, white	No				
3.16	4-lever 1-way switch, 100x50mm with cover plate, white	No				
3.17	Multigang Point (Switching, 2pin, 3pin, usb interchangeable etc)	No				
3.18	Testing and Commissioning of Lighting Installation	Lot	1			
3.19	4x2 PVC bxs complete with fittings	No	393			
3.20	5A plugs for light fitting	No	30			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
4	SMALL POWER 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.	99			
4.2	Double 16A, 3pin switched socket outlet with Euro Combination	No.	165			
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.	100			
4.7	Telephone Point	No.	8			
4.8	Data Point	No.	12			
4.9	Wifi Including all accessories	No.	0			
4.10	4x4 PVC boxes complete with fittings	No.	269			
4.11	4x2 PVC boxes complete with fittings	No.	0			
	ISOLATORS 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.	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.	4			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
5	DISTRIBUTION BOARDS Supply and install Distribution Boards in accordance with SANS10142 as per the following: Drawing Reference					
5.1	DB-BF	No	1			
5.2	DB-BG	No	1			
5.3	DB-BE	No	1			
Total Carried Forward to Summary						

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
6	LIGHTNING PROTECTION AND EARTHING 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	24			
6.2	Earth Test Points	No	24			
6.3	Clamps including all accessories	No	230			
6.4	10mm sq Insulated Aluminium down conductor	m	225			
6.5	50mm sq BCEW cable	m	585			
6.6	10mm sq Bare Aluminium conductor	m	750			
6.7	1.5m Long Copper Earth Rods	No	168			
6.8	Exothermic Welds	No	24			
6.9	300mm wide X 600mm deep trenching	m	585			
Total Carried Forward						



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



BLOCK C						
ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
1	<u>PRELIMINARY AND GENERAL</u> 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				
	<u>FOR THE CODING AND LABELLING OF:</u>					
1.6	All plant and equipment	Sum				
1.7	Wiring	Sum				
	<u>FOR HEALTH AND SAFETY:</u>					
1.8	All Health and Safety related activities such as H&S File, Toolbox Talks, etc.	Sum				
	<u>FOR ENVIRONMENTAL:</u>					
1.9	For managing environmental aspects	Sum				
Total Carried Forward To Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
2	CABLING 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	3200			
2.2	Supply and install 4 sq.mm GP wire	m	2600			
2.3	Supply and install 6sq mm 1-phase 3-core SWA CU cable compatible with SANS 1507-3	m	360			
2.4	Supply and install cable terminations set for 6sq.mm 4 core Cu cable	No	12			
2.5	Supply and install 16 sq.mm 1-phase 4-core SWA CU cable compatible with SANS 1507-3 for	m	150			
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	280			
2.10	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	167			
Total Carried Forward						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
3	LIGHTING					
	LIGHT FITTINGS 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.	15			
3.2	35W round LED Bulkhead	No.	53			
3.3	55W LED linear fitting 4000k	No.	0			
3.4	55W LED linear fitting 4000k, IP65	No.	33			
3.5	36W LED panel 300x1200mm	No.	175			
3.6	OCCUPANCY SENSORS Supply and installation of Passive infrared Occupancy sensors complete with power packs and auxiliary relays, for control of lighting circuits	No.	5			
3.7	PHOTO SENSORS Supply and installation of Daylight photo sensors, for the control of outdoor lighting circuits. Switch LS10C Photo sensor-10A, IP56, or similar.	No.	3			
	LIGHT SWITCHES 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	33			
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	8			
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	430			
3.16	5A plugs for light fitting	No	33			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
4	SMALL POWER 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.	60			
4.2	Double 16A, 3pin switched socket outlet with Euro Combination	No.	150			
4.3	Double 16A, 3pin switched socket outlet with Euro Combination for UPS circuits	No.	0			
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	233			
4.7	Telephone Point	No.	4			
4.8	Data Point	No.	160			
4.9	Wifi Including all accessories	No.	4			
4.10	4x4 PVC boxes complete with fittings	No.	229			
4.11	4x2 PVC boxes complete with fittings	No.	0			
	ISOLATORS 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.	6			
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.	13			
4.15	Testing and Commissioning of Small Power Installation	Lot	1			
4.16	6KVA Eaton or similar UPS systems including 10minutes back each	No.	4			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
5	DISTRIBUTION BOARDS Supply and install Distribution Boards in accordance with SANS10142 as per the following: Drawing Reference					
5.1	DB-BC	No	1			
5.2	DB-BD	No	1			
5.3	DB-BB	No	1			
Total Carried Forward to Summary						

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
6	LIGHTNING PROTECTION AND EARTHING 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	24			
6.2	Earth Test Points	No	24			
6.3	Clamps including all accessories	No	230			
6.4	10mm sq Insulated Aluminium down conductor	m	225			
6.5	50mm sq BCEW cable	m	585			
6.6	10mm sq Bare Aluminium conductor	m	750			
6.7	1.5m Long Copper Earth Rods	No	168			
6.8	Exothermic Welds	No	24			
6.9	300mm wide X 600mm deep trenching	m	585			
Total Carried Forward						



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



BLOCK D						
ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
1	<u>PRELIMINARY AND GENERAL</u> 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				
	<u>FOR THE CODING AND LABELLING OF:</u>					
1.6	All plant and equipment	Sum				
1.7	Wiring	Sum				
	<u>FOR HEALTH AND SAFETY:</u>					
1.8	All Health and Safety related activities such as H&S File, Toolbox Talks, etc.	Sum				
	<u>FOR ENVIRONMENTAL:</u>					
1.9	For managing environmental aspects	Sum				
Total Carried Forward To Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
2	CABLING 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	2600			
2.2	Supply and install 4 sq.mm GP wire	m	1500			
2.3	Supply and install 10sq mm 1-phase 3-core SWA CU cable compatible with SANS 1507-3	m	200			
2.4	Supply and install cable terminations set for 10sq.mm 4 core Cu cable	No	16			
2.5	Supply and install 16 sq.mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m	100			
2.6	Supply and install cable terminations for 16sq.mm 4 core Cu cable	No	80			
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	1040			
2.10	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	500			
Total Carried Forward						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
3	LIGHTING					
	LIGHT FITTINGS 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.	15			
3.2	35W round LED Bulkhead	No.	53			
3.3	55W LED linear fitting 4000k	No.	0			
3.4	55W LED linear fitting 4000k, IP65	No.	36			
3.5	36W LED panel 300x1200mm	No.	168			
3.6	OCCUPANCY SENSORS Supply and installation of Passive infrared Occupancy sensors complete with power packs and auxiliary relays, for control of lighting circuits	No.	6			
3.6	PHOTO SENSORS Supply and installation of Daylight photo sensors, for the control of outdoor lighting circuits. Switch LS10C Photo sensor-10A, IP56, or similar.	No.	1			
	LIGHT SWITCHES Supply and install Schneider S3000 light switches complete with coverplate. Includes wiring of the switch points					
3.7	1-lever 1-way switch, 100x50mm with cover plate, white	No	60			
3.8	1-lever 2-way switch, 100x50mm with cover plate, white	No	2			
3.9	2-lever 1-way switch, 100x50mm with cover plate, white	No	6			
3.10	3-lever 1-way switch, 100x50mm with cover plate, white	No				
3.11	4-lever 1-way switch, 100x50mm with cover plate, white	No				
3.12	Multigang Point (Switching, 2pin, 3pin, usb interchangeable etc)	No				
3.13	Testing and Commissioning of Lighting Installation	Lot	1			
3.14	4x2 PVC bxs complete with fittings	No	122			
3.15	5A plugs for light fitting	No	0			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
4	SMALL POWER 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.	54			
4.2	Double 16A, 3pin switched socket outlet with Euro Combination	No.	220			
4.3	Double 16A, 3pin switched socket outlet with Euro Combination for UPS circuits	No.	16			
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.	0			
4.7	Telephone Point	No.	12			
4.8	Data Point	No.	12			
4.9	Wifi Including all accessories	No.	2			
4.10	4x4 PVC boxes complete with fittings	No.	295			
4.11	4x2 PVC boxes complete with fittings	No.	0			
	ISOLATORS 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.	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.	4			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
5	DISTRIBUTION BOARDS Supply and install Distribution Boards in accordance with SANS10142 as per the following: Drawing Reference					
5.1	DB-AE	No	1			
5.2	DB-AF	No	1			
5.3	DB-AD	No	1			
Total Carried Forward to Summary						

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
6	LIGHTNING PROTECTION AND EARTHING 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	24			
6.2	Earth Test Points	No	24			
6.3	Clamps including all accessories	No	230			
6.4	10mm sq Insulated Aluminium down conductor	m	225			
6.5	50mm sq BCEW cable	m	585			
6.6	10mm sq Bare Aluminium conductor	m	750			
6.7	1.5m Long Copper Earth Rods	No	168			
6.8	Exothermic Welds	No	24			
6.9	300mm wide X 600mm deep trenching	m	585			
Total Carried Forward						



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



BLOCK E						
ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
1	<u>PRELIMINARY AND GENERAL</u> 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				
	<u>FOR THE CODING AND LABELLING OF:</u>					
1.6	All plant and equipment	Sum				
1.7	Wiring	Sum				
	<u>FOR HEALTH AND SAFETY:</u>					
1.8	All Health and Safety related activities such as H&S File, Toolbox Talks, etc.	Sum				
	<u>FOR ENVIRONMENTAL:</u>					
1.9	For managing environmental aspects	Sum				
Total Carried Forward To Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
2	CABLING 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	740			
2.2	Supply and install 4 sq.mm GP wire	m	650			
2.3	Supply and install 16 sq.mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m	100			
2.4	Supply and install cable terminations for 16sq.mm 4 core Cu cable	No	2			
2.5	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	296			
2.6	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	217			
2.8	Supply and install M160 PVC Sleeves	m	100			
2.9	Trenching for Power M160 PVC Sleeve-500mm wide x 1000mm deep, including bedding soil and backfill	m	100			
Total Carried Forward						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
3	LIGHTING					
	LIGHT FITTINGS 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.	53			
3.3	35W round LED Bulkhead	No.	0			
3.4	25W LED panel 600x1200mm	No.	120			
3.5	36W LED panel 300x1200mm	No.	168			
3.6	40W LED linear fitting 4000k	No.	33			
3.7	OCCUPANCY SENSORS Supply and installation of Passive infrared Occupancy sensors complete with power packs and auxiliary relays, for control of lighting circuits	No.	5			
3.8	PHOTO SENSORS Supply and installation of Daylight photo sensors, for the control of outdoor lighting circuits. Switch LS10C Photo sensor-10A, IP56, or similar.	No.	3			
	LIGHT SWITCHES 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	36			
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	8			
3.12	3-lever 1-way switch, 100x50mm with cover plate, white	No	0			
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	427			
3.17	5A plugs for light fitting	No	33			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
4	SMALL POWER 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.	60			
4.2	Double 16A, 3pin switched socket outlet with Euro Combination	No.	150			
4.3	Double 16A, 3pin switched socket outlet with Euro Combination for UPS circuits	No.	0			
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.	233			
4.7	Telephone Point	No.	4			
4.8	Data Point	No.	160			
4.9	Wifi Including all accessories	No.	4			
4.10	4x4 PVC boxes complete with fittings	No.	217			
4.11	4x2 PVC boxes complete with fittings	No.	0			
	ISOLATORS 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.	7			
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.	4			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
5	DISTRIBUTION BOARDS Supply and install Distribution Boards in accordance with SANS10142 as per the following: Drawing Reference					
5.1	DB-E1	No	1			
5.2	DB-E2	No	1			
5.3	DB-E3	No	1			
Total Carried Forward to Summary						

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
6	LIGHTNING PROTECTION AND EARTHING 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	24			
6.2	Earth Test Points	No	24			
6.3	Clamps including all accessories	No	230			
6.4	10mm sq Insulated Aluminium down conductor	m	225			
6.5	50mm sq BCEW cable	m	585			
6.6	10mm sq Bare Aluminium conductor	m	750			
6.7	1.5m Long Copper Earth Rods	No	168			
6.8	Exothermic Welds	No	24			
6.9	300mm wide X 600mm deep trenching	m	585			
Total Carried Forward						



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



BLOCK F						
ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
1	<u>PRELIMINARY AND GENERAL</u> 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				
	<u>FOR THE CODING AND LABELLING OF:</u>					
1.6	All plant and equipment	Sum				
1.7	Wiring	Sum				
	<u>FOR HEALTH AND SAFETY:</u>					
1.8	All Health and Safety related activities such as H&S File, Toolbox Talks, etc.	Sum				
	<u>FOR ENVIRONMENTAL:</u>					
1.9	For managing environmental aspects	Sum				
Total Carried Forward To Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
2	CABLING 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	500			
2.2	Supply and install 4 sq.mm GP wire	m	450			
2.3	Supply and install 16 sq.mm -1phase 3-core SWA CU cable compatible with SANS 1507-3	m	120			
2.4	Supply and install cable terminations for 16sq.mm 4 core Cu cable	No	2			
2.5	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	200			
2.6	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	150			
2.8	Supply and install M160 PVC Sleeves	m	120			
2.9	Trenching for Power M160 PVC Sleeve- 500mm wide x 1000mm deep, including bedding soil and backfill	m	120			
Total Carried Forward						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
3	LIGHTING					
	LIGHT FITTINGS 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.	14			
3.2	35W round LED Bulkhead	No.	18			
3.3	40W LED linear fitting 4000k	No.	5			
3.4	36W LED panel 600x600mm	No.	12			
3.5	54W LED panel 600x1200mm	No.	88			
3.6	OCCUPANCY SENSORS Supply and installation of Passive infrared Occupancy sensors complete with power packs and auxiliary relays, for control of lighting circuits	No.				
3.7	PHOTO SENSORS Supply and installation of Daylight photo sensors, for the control of outdoor lighting circuits. Switch LS10C Photo sensor-10A, IP66, or similar.	No.	2			
	LIGHT SWITCHES 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	21			
3.9	1-lever 2-way switch, 100x50mm with cover plate, white	No	8			
3.10	2-lever 1-way switch, 100x50mm with cover plate, white	No				
3.11	3-lever 1-way switch, 100x50mm with cover plate, white	No				
3.12	4-lever 1-way switch, 100x50mm with cover plate, white	No				
3.13	Multigang Point (Switching, 2pin, 3pin, usb interchangeable etc)	No				
3.14	Testing and Commissioning of Lighting Installation	Lot	1			
3.15	4x2 PVC bxs complete with fittings	No	49			
3.16	5A plugs for light fitting	No	37			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
4	SMALL POWER 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.	21			
4.2	Double 16A, 3pin switched socket outlet with Euro Combination	No.	102			
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.	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.	125			
4.11	4x2 PVC boxes complete with fittings	No.	0			
	ISOLATORS 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.	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
5	DISTRIBUTION BOARDS Supply and install Distribution Boards in accordance with SANS10142 as per the following: Drawing Reference					
5.1	DB-F	No	1			
Total Carried Forward to Summary						R -

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
6	LIGHTNING PROTECTION AND EARTHING 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	12			
6.2	Earth Test Points	No	12			
6.3	Clamps including all accessories	No	83			
6.4	10mm sq Insulated Aluminium down conductor	m	45			
6.5	50mm sq BCEW cable	m	188			
6.6	10mm sq Bare Aluminium conductor	m	225			
6.7	1.5m Long Copper Earth Rods	No	57			
6.8	Exothermic Welds	No	12			
6.9	300mm wide X 600mm deep trenching	m	188			
Total Carried Forward						

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



Learning Centre						
ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
1	<u>PRELIMINARY AND GENERAL</u> 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				
	<u>FOR THE CODING AND LABELLING OF:</u>					
1.6	All plant and equipment	Sum				
1.7	Wiring	Sum				
	<u>FOR HEALTH AND SAFETY:</u>					
1.8	All Health and Safety related activities such as H&S File, Toolbox Talks, etc.	Sum				
	<u>FOR ENVIRONMENTAL:</u>					
1.9	For managing environmental aspects	Sum				



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
2	CABLING					
2.1	Supply and install 2.5 sq.mm GP wire	m	700			
2.2	Supply and install 4 sq.mm GP wire	m	650			
2.3	Supply and install 16 sq.mm -phase 3-core SWA CU cable compatible with SANS 1507-3	m	120			
2.4	Supply and install cable terminations for 16sq.mm 4 core Cu cable	No	2			
2.5	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	280			
2.6	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	217			
2.8	Supply and install M160 PVC Sleeves	m	120			
2.9	Trenching for Power M160 PVC Sleeve- 500mm wide x 1000mm deep, including bedding soil and backfill	m	120			
Total Carried Forward						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
3	LIGHTING					
	LIGHT FITTINGS 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.	6			
3.2	35W round LED Bulkhead	No.	11			
3.3	40W LED panel 600x1200mm	No.	66			
3.4	55W LED linear fitting 4000k	No.	20			
3.5	OCCUPANCY SENSORS Supply and installation of Passive infrared Occupancy sensors complete with power packs and auxiliary relays, for control of lighting circuits	No.				
3.6	PHOTO SENSORS Supply and installation of Daylight photo sensors, for the control of outdoor lighting circuits. Switch LS10C Photo sensor-10A, IP56, or similar.	No.	3			
	LIGHT SWITCHES Supply and install Schneider S3000 light switches complete with coverplate. Includes wiring of the switch points					
3.7	1-lever 1-way switch, 100x50mm with cover plate, white	No	22			
3.8	1-lever 2-way switch, 100x50mm with cover plate, white	No	7			
3.9	2-lever 1-way switch, 100x50mm with cover plate, white	No				
3.10	3-lever 1-way switch, 100x50mm with cover plate, white	No				
3.11	4-lever 1-way switch, 100x50mm with cover plate, white	No				
3.12	Multigang Point (Switching, 2pin, 3pin, usb interchangeable etc)	No				
3.13	Testing and Commissioning of Lighting Installation	Lot	1			
3.14	4x2 PVC bxs complete with fittings	No	49			
3.15	5A plugs for light fitting	No	20			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
4	SMALL POWER 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.	110			
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.	0			
4.7	Telephone Point	No.	2			
4.8	Data Point	No.	3			
4.9	Wifi Including all accessories	No.	0			
4.10	4x4 PVC boxes complete with fittings	No.	132			
4.11	4x2 PVC boxes complete with fittings	No.	0			
	ISOLATORS 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			
4.16	6KVA Eaton or similar UPS systems including 10minutes back each	No.	1			
Total Carried Forward to Summary						



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

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
6	LIGHTNING PROTECTION AND EARTHING 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	12			
6.2	Earth Test Points	No	12			
6.3	Clamps including all accessories	No	83			
6.4	10mm sq Insulated Aluminium down conductor	m	45			
6.5	50mm sq BCEW cable	m	188			
6.6	10mm sq Bare Aluminium conductor	m	225			
6.7	1.5m Long Copper Earth Rods	No	57			
6.8	Exothermic Welds	No	12			
6.9	300mm wide X 600mm deep trenching	m	188			
Total Carried Forward						

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



Knitting Block						
ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
1	<u>PRELIMINARY AND GENERAL</u> 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				
	<u>FOR THE CODING AND LABELLING OF:</u>					
1.6	All plant and equipment	Sum				
1.7	Wiring	Sum				
	<u>FOR HEALTH AND SAFETY:</u>					
1.8	All Health and Safety related activities such as H&S File, Toolbox Talks, etc.	Sum				
	<u>FOR ENVIRONMENTAL:</u>					
1.9	For managing environmental aspects	Sum				
Total Carried Forward To Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
2	CABLING 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	700			
2.2	Supply and install 4 sq.mm GP wire	m	650			
2.3	Supply and install 16 sq.mm -phase 3-core SWA CU cable compatible with SANS 1507-3	m	120			
2.4	Supply and install cable terminations for 16sq.mm 4 core Cu cable	No	2			
2.5	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	280			
2.6	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	217			
Total Carried Forward						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
3	LIGHTING					
	LIGHT FITTINGS 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.	0			
3.2	35W round LED Bulkhead	No.	0			
3.3	40W LED panel 600x1200mm	No.	12			
3.4	55W LED linear fitting 4000k	No.	0			
3.5	OCCUPANCY SENSORS Supply and installation of Passive infrared Occupancy sensors complete with power packs and auxiliary relays, for control of lighting circuits	No.				
3.6	PHOTO SENSORS Supply and installation of Daylight photo sensors, for the control of outdoor lighting circuits. Switch LS10C Photo sensor-10A, IP56, or similar.	No.	3			
	LIGHT SWITCHES Supply and install Schneider S3000 light switches complete with coverplate. Includes wiring of the switch points					
3.7	1-lever 1-way switch, 100x50mm with cover plate, white	No	11			
3.8	1-lever 2-way switch, 100x50mm with cover plate, white	No	2			
3.9	2-lever 1-way switch, 100x50mm with cover plate, white	No				
3.10	3-lever 1-way switch, 100x50mm with cover plate, white	No				
3.11	4-lever 1-way switch, 100x50mm with cover plate, white	No				
3.12	Multigang Point (Switching, 2pin, 3pin, usb interchangeable etc)	No				
3.13	Testing and Commissioning of Lighting Installation	Lot	1			
3.14	4x2 PVC bxs complete with fittings	No	33			
3.15	5A plugs for light fitting	No	0			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
4	SMALL POWER 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.	6			
4.2	Double 16A, 3pin switched socket outlet with Euro Combination	No.	24			
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.	0			
4.7	Telephone Point	No.	2			
4.8	Data Point	No.	3			
4.9	Wifi Including all accessories	No.	0			
4.10	4x4 PVC boxes complete with fittings	No.	30			
4.11	4x2 PVC boxes complete with fittings	No.	0			
	ISOLATORS 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
5	DISTRIBUTION BOARDS Supply and install Distribution Boards in accordance with SANS10142 as per the following: Drawing Reference					
5.1	DB-KA	No	1			
Total Carried Forward to Summary						

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
6	LIGHTNING PROTECTION AND EARTHING 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	61			
6.4	10mm sq Insulated Aluminium down conductor	m	30			
6.5	50mm sq BCEW cable	m	120			
6.6	10mm sq Bare Aluminium conductor	m	150			
6.7	1.5m Long Copper Earth Rods	No	45			
6.8	Exothermic Welds	No	6			
6.9	300mm wide X 600mm deep trenching	m	120			
Total Carried Forward						

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



Tourism BLOCK						
ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
1	<u>PRELIMINARY AND GENERAL</u> 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				
	<u>FOR THE CODING AND LABELLING OF:</u>					
1.6	All plant and equipment	Sum				
1.7	Wiring	Sum				
	<u>FOR HEALTH AND SAFETY:</u>					
1.8	All Health and Safety related activities such as H&S File, Toolbox Talks, etc.	Sum				
1.9	For managing environmental aspects	Sum				
Total Carried Forward To Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
2	CABLING 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	700			
2.2	Supply and install 4 sq.mm GP wire	m	650			
2.3	Supply and install 16 sq.mm -phase 3-core SWA CU cable compatible with SANS 1507-3	m	120			
2.4	Supply and install cable terminations for 16sq.mm 4 core Cu cable	No	2			
2.5	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	280			
2.6	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	217			
2.8	Supply and install M160 PVC Sleeves	m	120			
2.9	Trenching for Power M160 PVC Sleeve- 500mm wide x 1000mm deep, including bedding soil and backfill	m	120			
Total Carried Forward						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
3	LIGHTING					
	LIGHT FITTINGS 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.	12			
3.2	35W round LED Bulkhead	No.	0			
3.3	36W LED panel 600x600mm	No.	186			
3.4	40W LED linear fitting 4000k	No.	55			
3.5	OCCUPANCY SENSORS Supply and installation of Passive infrared Occupancy sensors complete with power packs and auxiliary relays, for control of lighting circuits	No.				
3.6	PHOTO SENSORS Supply and installation of Daylight photo sensors, for the control of outdoor lighting circuits. Switch LS10C Photo sensor-10A, IP56, or similar.	No.	3			
	LIGHT SWITCHES Supply and install Schneider S3000 light switches complete with coverplate. Includes wiring of the switch points					
3.7	1-lever 1-way switch, 100x50mm with cover plate, white	No	11			
3.8	1-lever 2-way switch, 100x50mm with cover plate, white	No	2			
3.9	2-lever 1-way switch, 100x50mm with cover plate, white	No				
3.10	3-lever 1-way switch, 100x50mm with cover plate, white	No				
3.11	4-lever 1-way switch, 100x50mm with cover plate, white	No				
3.12	Multigang Point (Switching, 2pin, 3pin, usb interchangeable etc)	No				
3.13	Testing and Commissioning of Lighting Installation	Lot	1			
3.14	4x2 PVC bxs complete with fittings	No	33			
3.15	5A plugs for light fitting	No	55			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
4	SMALL POWER 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.	3			
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.	0			
4.7	Telephone Point	No.	2			
4.8	Data Point	No.	3			
4.9	Wifi Including all accessories	No.	0			
4.10	4x4 PVC boxes complete with fittings	No.	15			
4.11	4x2 PVC boxes complete with fittings	No.	0			
	ISOLATORS 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			
4.16	6KVA Eaton or similar UPS systems including 10minutes back each	No.	1			
Total Carried Forward to Summary						



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

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
6	LIGHTNING PROTECTION AND EARTHING 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	12			
6.2	Earth Test Points	No	12			
6.3	Clamps including all accessories	No	83			
6.4	10mm sq Insulated Aluminium down conductor	m	45			
6.5	50mm sq BCEW cable	m	188			
6.6	10mm sq Bare Aluminium conductor	m	225			
6.7	1.5m Long Copper Earth Rods	No	57			
6.8	Exothermic Welds	No	12			
6.9	300mm wide X 600mm deep trenching	m	188			
Total Carried Forward						



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

sim123						
ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
1	<u>PRELIMINARY AND GENERAL</u> 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				
	<u>FOR THE CODING AND LABELLING OF:</u>					
1.6	All plant and equipment	Sum				



1.7	Wiring	Sum				
	<u>FOR HEALTH AND SAFETY:</u>					
1.8	All Health and Safety related activities such as H&S File, Toolbox Talks, etc.	Sum				
	<u>FOR ENVIRONMENTAL:</u>					
1.9	For managing environmental aspects	Sum				
Total Carried Forward To Summary						
ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
2	CABLING 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	3200			
2.2	Supply and install 4 sq.mm GP wire	m	1800			
2.3	Supply and install 16 sq.mm -1phase 3-core SWA CU cable compatible with SANS 1507-3	m	400			
2.4	Supply and install cable terminations for 16sq.mm 4 core Cu cable	No	4			
2.5	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	1280			
2.6	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	600			
2.8	Supply and install M160 PVC Sleeves	m	400			
2.9	Trenching for Power M160 PVC Sleeve-500mm wide x 1000mm deep, including bedding soil and backfill	m	400			
Total Carried Forward						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
3	LIGHTING					
	LIGHT FITTINGS 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.	12			
3.2	35W round LED Bulkhead	No.	0			
3.3	54W LED panel 600x1200mm	No.	170			
3.4	40W LED linear fitting 4000k	No.	48			
3.5	OCCUPANCY SENSORS Supply and installation of Passive infrared Occupancy sensors complete with power packs and auxiliary relays, for control of lighting circuits	No.	0			
3.6	PHOTO SENSORS Supply and installation of Daylight photo sensors, for the control of outdoor lighting circuits. Switch LS10C Photo sensor-10A, IP56, or similar.	No.	1			
3.7	LIGHT SWITCHES 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	2			
3.9	1-lever 2-way switch, 100x50mm with cover plate, white	No				
3.10	2-lever 1-way switch, 100x50mm with cover plate, white	No				
3.11	3-lever 1-way switch, 100x50mm with cover plate, white	No				
3.12	4-lever 1-way switch, 100x50mm with cover plate, white	No				
3.13	Multigang Point (Switching, 2pin, 3pin, usb interchangeable etc)	No				
3.14	Testing and Commissioning of Lighting Installation	Lot	1			
3.15	4x2 PVC bxs complete with fittings	No	2			
3.16	5A plugs for light fitting	No	48			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
4	SMALL POWER 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.	64			
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.	84			
4.11	4x2 PVC boxes complete with fittings	No.	0			
	ISOLATORS 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
5	DISTRIBUTION BOARDS Supply and install Distribution Boards in accordance with SANS10142 as per the following: Drawing Reference					
5.1	DB-LH	No	1			
Total Carried Forward to Summary						R -



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
6	LIGHTNING PROTECTION AND EARTHING 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	12			
6.2	Earth Test Points	No	12			
6.3	Clamps including all accessories	No	83			
6.4	10mm sq Insulated Aluminium down conductor	m	45			
6.5	50mm sq BCEW cable	m	188			
6.6	10mm sq Bare Aluminium conductor	m	225			
6.7	1.5m Long Copper Earth Rods	No	57			
6.8	Exothermic Welds	No	12			
6.9	300mm wide X 600mm deep trenching	m	188			
Total Carried Forward						

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



Students Accommodation 1						
ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
1	<u>PRELIMINARY AND GENERAL</u> 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				
	<u>FOR THE CODING AND LABELLING OF:</u>					
1.6	All plant and equipment	Sum				
1.7	Wiring	Sum				
	<u>FOR HEALTH AND SAFETY:</u>					
1.8	All Health and Safety related activities such as H&S File, Toolbox Talks, etc.	Sum				
1.9	<u>FOR ENVIRONMENTAL:</u> For managing environmental aspects	Sum				
Total Carried Forward To Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
2	CABLING 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	4900			
2.3	Supply and install 16 sq.mm -phase 3-core SWA CU cable compatible with SANS 1507-3	m	300			
2.4	Supply and install cable terminations for 16sq.mm 4 core Cu cable	No	8			
2.6	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	1400			
2.8	Supply and install M160 PVC Sleeves	m	150			
2.9	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
3	LIGHTING LIGHT FITTINGS 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.	83			
3.2	35W round LED Bulkhead	No.	172			
3.3	54W LED panel 600x1200mm	No.	40			
3.4	55W LED linear fitting 4000k	No.	280			
3.5	OCCUPANCY SENSORS Supply and installation of Passive infrared Occupancy sensors complete with power packs and auxiliary relays, for control of lighting circuits	No.				
3.6	PHOTO SENSORS Supply and installation of Daylight photo sensors, for the control of outdoor lighting circuits. Switch LS10C Photo sensor-10A, IP56, or similar. LIGHT SWITCHES Supply and install Schneider S3000 light switches complete with coverplate. Includes wiring of the switch points	No.	3			
3.7	1-lever 1-way switch, 100x50mm with cover plate, white	No	230			
3.8	1-lever 2-way switch, 100x50mm with cover plate, white	No	25			
3.9	2-lever 1-way switch, 100x50mm with cover plate, white	No				
3.10	3-lever 1-way switch, 100x50mm with cover plate, white	No				
3.11	4-lever 1-way switch, 100x50mm with cover plate, white	No				
3.12	Multigang Point (Switching, 2pin, 3pin, usb interchangeable etc)	No				
3.13	Testing and Commissioning of Lighting Installation	Lot	1			
3.14	4x2 PVC bxs complete with fittings	No	255			
3.15	5A plugs for light fitting	No	280			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
4	SMALL POWER 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.	13			
4.2	Double 16A, 3pin switched socket outlet with Euro Combination	No.	147			
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.	0			
4.10	4x4 PVC boxes complete with fittings	No.	160			
4.11	4x2 PVC boxes complete with fittings	No.	0			
	ISOLATORS 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
5	DISTRIBUTION BOARDS Supply and install Distribution Boards in accordance with SANS10142 as per the following: Drawing Reference					
5.1	DB-DB	No	1			
5.2	DB-DC	No	1			
5.3	DB-EA	No	1			
5.4	DB-EB	No	1			
5.5	DB-EC	No	1			
Total Carried Forward to Summary						

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
6	LIGHTNING PROTECTION AND EARTHING 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	24			
6.2	Earth Test Points	No	24			
6.3	Clamps including all accessories	No	166			
6.4	10mm sq Insulated Aluminium down conductor	m	30			
6.5	50mm sq BCEW cable	m	375			
6.6	10mm sq Bare Aluminium conductor	m	450			
6.7	1.5m Long Copper Earth Rods	No	114			
6.8	Exothermic Welds	No	72			
6.9	300mm wide X 600mm deep trenching	m	1125			
Total Carried Forward						



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

Students Accommodation 3						
ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
1	<p><u>PRELIMINARY AND GENERAL</u></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				
	<u>FOR THE CODING AND LABELLING OF:</u>					
1.6	All plant and equipment	Sum				



1.7	Wiring	Sum				
	<u>FOR HEALTH AND SAFETY:</u>					
1.8	All Health and Safety related activities such as H&S File, Toolbox Talks, etc.	Sum				
	<u>FOR ENVIRONMENTAL:</u>					
1.9	For managing environmental aspects	Sum				
Total Carried Forward To Summary						

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
2	CABLING 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	4900			
2.2	Supply and install 4 sq.mm GP wire	m	2750			
2.3	Supply and install 16 sq.mm -phase 3-core SWA CU cable compatible with SANS 1507-3	m	300			
2.4	Supply and install cable terminations for 16sq.mm 4 core Cu cable	No	8			
2.6	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	1400			
2.8	Supply and install M160 PVC Sleeves	m	150			
2.9	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
3	LIGHTING LIGHT FITTINGS 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.	83			
3.2	35W round LED Bulkhead	No.	172			
3.3	54W LED panel 600x1200mm	No.	40			
3.4	55W LED linear fitting 4000k	No.	280			
3.5	OCCUPANCY SENSORS Supply and installation of Passive infrared Occupancy sensors complete with power packs and auxiliary relays, for control of lighting circuits	No.				
3.6	PHOTO SENSORS Supply and installation of Daylight photo sensors, for the control of outdoor lighting circuits. Switch LS10C Photo sensor-10A, IP56, or similar. LIGHT SWITCHES Supply and install Schneider S3000 light switches complete with coverplate. Includes wiring of the switch points	No.	3			
3.7	1-lever 1-way switch, 100x50mm with cover plate, white	No	230			
3.8	1-lever 2-way switch, 100x50mm with cover plate, white	No	25			
3.9	2-lever 1-way switch, 100x50mm with cover plate, white	No				
3.10	3-lever 1-way switch, 100x50mm with cover plate, white	No				
3.11	4-lever 1-way switch, 100x50mm with cover plate, white	No				
3.12	Multigang Point (Switching, 2pin, 3pin, usb interchangeable etc)	No				
3.13	Testing and Commissioning of Lighting Installation	Lot	1			
3.14	4x2 PVC bxs complete with fittings	No	255			
3.15	5A plugs for light fitting	No	280			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
4	SMALL POWER 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.	13			
4.2	Double 16A, 3pin switched socket outlet with Euro Combination	No.	147			
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.	0			
4.10	4x4 PVC boxes complete with fittings	No.	160			
4.11	4x2 PVC boxes complete with fittings	No.	0			
	ISOLATORS 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
5	DISTRIBUTION BOARDS Supply and install Distribution Boards in accordance with SANS10142 as per the following: Drawing Reference					
5.1	DB-FA	No	1			
5.2	DB-FB	No	1			
5.3	DB-FC	No	1			
Total Carried Forward to Summary						

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
6	LIGHTNING PROTECTION AND EARTHING 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	24			
6.2	Earth Test Points	No	24			
6.3	Clamps including all accessories	No	166			
6.4	10mm sq Insulated Aluminium down conductor	m	30			
6.5	50mm sq BCEW cable	m	375			
6.6	10mm sq Bare Aluminium conductor	m	450			
6.7	1.5m Long Copper Earth Rods	No	114			
6.8	Exothermic Welds	No	72			
6.9	300mm wide X 600mm deep trenching	m	1125			
Total Carried Forward						



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

BLOCK G2 Guardhouse						
ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
1	<u>PRELIMINARY AND GENERAL</u> 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				
	<u>FOR THE CODING AND LABELLING OF:</u>					
1.6	All plant and equipment	Sum				



1.7	Wiring	Sum				
	<u>FOR HEALTH AND SAFETY:</u>					
1.8	All Health and Safety related activities such as H&S File, Toolbox Talks, etc.	Sum				
	<u>FOR ENVIRONMENTAL:</u>					
1.9	For managing environmental aspects	Sum				
Total Carried Forward To Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
2	CABLING 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	15			
2.2	Supply and install 4 sq.mm GP wire	m	15			
2.3	Supply and install 16 sq.mm -1phase 3-core SWA CU cable compatible with SANS 1507-3	m	0			
2.4	Supply and install cable terminations for 16sq.mm 4 core Cu cable	No	2			
2.5	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	3			
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	0			
2.9	Trenching for Power M160 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	LIGHTING LIGHT FITTINGS 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.	2			
3.2	OCCUPANCY SENSORS Supply and installation of Passive infrared Occupancy sensors complete with power packs and auxiliary relays, for control of lighting circuits	No.	0			
3.3	PHOTO SENSORS Supply and installation of Daylight photo sensors, for the control of outdoor lighting circuits. Switch LS10C Photo sensor-10A, IP56, or similar.	No.	1			



	LIGHT SWITCHES 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	1-lever 2-way switch, 100x50mm with cover plate, white	No				
3.6	2-lever 1-way switch, 100x50mm with cover plate, white	No				
3.7	3-lever 1-way switch, 100x50mm with cover plate, white	No				
3.8	4-lever 1-way switch, 100x50mm with cover plate, white	No				
3.9	Multigang Point (Switching, 2pin, 3pin, usb interchangeable etc)	No				
3.10	Testing and Commissioning of Lighting Installation	Lot	1			
3.11	4x2 PVC bxs complete with fittings	No	1			
3.12	5A plugs for light fitting	No	2			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
4	SMALL POWER 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			
	ISOLATORS 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
5	DISTRIBUTION BOARDS Supply and install Distribution Boards in accordance with SANS10142 as per the following: Drawing Reference					
5.1	DB-G2	No	1			
Total Carried Forward to Summary						

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
6	LIGHTNING PROTECTION AND EARTHING 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	35			
6.4	10mm sq Insulated Aluminium down conductor	m	30			
6.5	50mm sq BCEW cable	m	75			
6.6	10mm sq Bare Aluminium conductor	m	65			
6.7	1.5m Long Copper Earth Rods	No	21			
6.8	Exothermic Welds	No	8			
6.9	300mm wide X 600mm deep trenching	m	75			
Total Carried Forward						



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



External Works						
ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
1	<u>PRELIMINARY AND GENERAL</u> 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				
	<u>FOR THE CODING AND LABELLING OF:</u>					
1.6	All plant and equipment	Sum				
1.7	Wiring	Sum				
	<u>FOR HEALTH AND SAFETY:</u>					
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				
	<u>FOR ENVIRONMENTAL:</u>					
1.9	For managing environmental aspects	Sum				
	<u>DECOMMISSION/DEMOLISH</u>					
1.10	For stripping, removal and making safe of any damaged existing infrastructure	Sum				
	<u>Ancillary Works</u>					
1.11	Provision for associated works	Sum				
Total Carried Forward To Summary						

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
2	CABLING INCLUDING EARTHWORKS & STRUCTURAL					
	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	0			
2.2	Supply and install 4 sq.mm GP wire	m	0			
2.3	Supply and install 185sq mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m	550			
2.4	Supply and install cable terminations set for 50sq.mm 4 core Cu cable	No	4			
2.3	Supply and install 50sq mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m	300			
2.4	Supply and install cable terminations set for 50sq.mm 4 core Cu cable	No	14			
2.5	Supply and install Metal Cable Tray (HCT) complete with accessories	m	60			
2.6	Supply and install Cable Ladder (CL130) complete with accessories	m	80			



2.8	Supply and install M160 PVC Sleeves	m	150			
2.9	Trenching for Power M160 PVC MV Sleeve-500mm wide x 1000mm deep, including bedding soil and backfill	m	150			
2.10	Supply and installation of 300mm thick concrete plinth (5500x2500mm footprint) protruding 150mm above ground level with the following:					
2.10.1	25MPa/19mm stone concrete	m ³	25,000			
2.10.2	Mesh ref. 311 (5400x2400mm footprint) placed 50mm from top and bottom of plinth	m ²	18,000			
2.10.3	Vertical Formwork 150mm high all around	m ²	72,000			
2.10.4	Layerworks: Rip and recompact 150 thick layer of in-situ material to 90% Mod AASHTO	m ²	35,000			
2.10.5	Layerworks:150mm thick imported G5 layer compacted to 95% Mod AASHTO	m ²	10,000			
2.10.6	250 micron DPC layer below plinth	m ²	43,680			
2.10.7	Soil Poisoning	m ²	43,680			
2.11	Testing					
2.11.1	Concrete cube testing	No	1			
2.11.2	G5 Compaction testing	No	1			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
3	LIGHTING LIGHT FITTINGS 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.	30			
3.2	LED 50W lamp	No.	60			
3.3	PHOTO SENSORS Supply and installation of Daylight photo sensors, for the control of outdoor lighting circuits. Switch LS10C Photo sensor-10A, IP56, or similar.	No.	15			
Total Carried Forward to Summary						

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
4	DISTRIBUTION BOARDS 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	7			
Total Carried Forward to Summary						R -



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
5	EXTERNAL WORKS					
5.1	TRANSFORMERS					
5.1.1	500kVA, 6.6kV/400V mini-substation, Dyn11, ONAN, 3 way non extensible ring main unit, 2 x 630A Isolators, 1 x 200A circuit breaker, OC/EF Protection complete with CTs and protection relay.	No	1			
5.1.2	Service of 500KVA 6.6kV/400V minisubstations	No	5			
5.3	Supply ; excavation,Installation and Termination of 185 mmsq 3 Core XLPE 6.6/11kV Cable complete with 95mm sq BECW	m	275			
5.2	GENERATORS (BACK-UP POWER)					
5.2.1	Supply and Install a 600KVA (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	1			
5.2.2	Supply and Install a 200KVA (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	4			
5.2.3	Supply and Install a 100KVA (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	2			
5.2.4	Access and coordination of power outages to ensure minimal shutdown for campus operations.	Sum	1			
5.2.5	Provisional Sum to allow for Data Logging to gather all load readings as instructed by engineer before order of genset and during load testing and commissioning.	Sum	1		R 25 000,00	R 25 000,00
5.2.6	Profit and Attendance on Item 5.1	%				
Total Carried Forward						
ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
6	LIGHTNING PROTECTION AND EARTHING					
6.1	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.	7			
Total Carried Forward						R -



ITEM	DESCRIPTION	AMOUNT R
1	PRELIMINARY AND GENERAL	R -
2	CABLING INCLUDING EARTHWORKS & STRUCTURAL	R -
3	LIGHTING	R -
4		
	DISTRIBUTION BOARDS	R -
5	EXTERNAL WORKS	R -
6	LIGHTNING PROTECTION AND EARTHING	R -
Total		R -
Add 5% Contingency		R -
Sub Total		R -
Add VAT @ 15%		R -
Grand Total		R -

EKURHULENI EAST TVET SPRINGS CAMPUS SUMMARY		
ITEM	DESCRIPTION	AMOUNT R
1	Block A	R -
2	Block B	R -
3	Block C	R -
4	Block D	R -
5	Block E	R -
6	Block F	R -
7	Learning Centre	R -
9	Knitting Block	R -
10	Tourism Block	R -
12	Student Accommodation 1	R -
12	Student Accommodation 3	R -
13	Block G2 (Guardhouse)	R -
14	External Works	R -
Total Incl VAT		R -



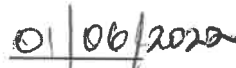
MR M MATHE
BSC CHAIRPERSON



DATE



MS HM SIBANDE
PRINCIPAL



DATE