



Admin 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	1960			
2.2	Supply and install 4 sq.mm GP wire	m	3000			
2.3	Supply and install 6 sq.mm GP wire	m	450			
2.4	Supply and install 4sq mm 1phase 2-core SWA CU cable compatible with SANS 1507-3	m				
2.5	Supply and install cable terminations set for 4sq.mm 3 core Cu cable	No				
2.4	Supply and install 25sq mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m	25			
2.5	Supply and install cable terminations set for 25sq.mm 4 core Cu cable	No	2			
2.6	Supply and install 95 sq.mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m	624			
2.7	Supply and install cable terminations for 95sq.mm 4 core Cu cable	No	6			
2.8	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	980			
2.9	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	1000			
2.10	Supply and install M110 PVC Sleeves	m	649			
2.11	Trenching for Power M110 PVC - 500mm wide x 1000mm deep, including bedding soil and backfill	m	649			
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.	39			
3.2	35W round LED Bulkhead	No.	22			
3.3	55W LED linear fitting 4000k	No.	67			
3.3	55W LED linear fitting 4000k , IP65	No.				
3.4	40W LED linear fitting 4000k	No.	2			
3.5	25W LED Bulkhead	No.	5			
3.6	50W LED Floodlight	No.	18			
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.	9			
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.	4			
	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	34			
3.18	2-lever 1-way switch, 100x50mm with cover plate, white	No				
3.18	1-lever 2-way switch, 100x50mm with cover plate, white	No	17			
3.18	2-lever 2-way switch, 100x50mm with cover plate, white	No				
3.22	Testing and Commissioning of Lighting Installation	Lot	1			
3.23	4x2 PVC bxs complete with fittings	No	51			
3.24	5A plugs for light fitting	No	67			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
4	SMALL POWER Supply and installation of Schneider S3000 range (or similar) small power equipment in accordance with SANS10142-1.					
4.1	Single 16A, 3pin switched socket outlet with Euro Combination	No.	44			
4.2	Double 16A, 3pin switched socket outlet with Euro Combination for UPS circuits	No.	27			
4.3	Trunking	m	36			
4.4	2Tier Power Skirting including all accessories (Power + Data)	m	180			
4.5	Telephone Point	No.	20			
4.6	Data Point	No.	21			
4.7	Wifi Including all accessories	No.	8			
4.8	4x4 PVC boxes complete with fittings	No.	38			
4.9	Data/Telephone junction box	No.	2			
4.10	15KVA Eaton or similar UPS systems including 10minutes back each	No.	2			
	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.					
4.11	30A Double Pole 3KA Isolators with light indicator and cord grip	No.	5			
4.12	40A Double Pole 3KA Isolators with light indicator and cord grip	No.	2			
4.13	60A Double Pole 3KA Isolators with light indicator and cord grip	No.	1			
4.14	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-GA	No	1			
5.2	DB-GC	No	1			
5.3	DB-G	No	1			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
6	LIGHTNING PROTECTION AND EARTHING					
6.1	Bonding Points	No	25			
6.2	Earth Test Points	No	15			
6.3	Clamps including all accessories	No	134			
6.4	10mm sq Insulated Aluminium down conductor	m	66			
6.5	50mm sq BCEW cable	m	280			
6.6	10mm sq Bare Aluminium conductor	m	1460			
6.7	1.5m Long Copper Earth Rods	No	87			
6.8	Exothermic Welds	No	25			
6.9	300mm wide X 600mm deep trenching	m	280			
Total Carried Forward						

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



Hostel						
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	2065			
2.2	Supply and install 4 sq.mm GP wire	m	2178			
2.3	Supply and install 6 sq.mm GP wire	m	27			
2.4	Supply and install 16sq mm 1phase 2-core SWA CU cable compatible with SANS 1507-3	m	187			
2.5	Supply and install cable terminations set for 16sq.mm 3 core Cu cable	No	10			
2.4	Supply and install 25sq mm 1-phase 3-core SWA CU cable compatible with SANS 1507-3	m	153			
2.5	Supply and install cable terminations set for 16sq.mm 3 core Cu cable	No	4			
2.6	Supply and install 70sq.mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m	460			
2.7	Supply and install cable terminations for 70sq.mm 4 core Cu cable	No	4			
2.8	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	1033			
2.9	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	726			
2.10	Supply and install M110 PVC Sleeves	m	800			
2.11	Trenching for Power M110 PVC - 500mm wide x 1000mm deep, including bedding soil and backfill	m	800			
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.	40			
3.2	35W round LED Bulkhead	No.	57			
3.3	55W LED linear fitting 4000k	No.	11			
3.4	40W LED linear fitting 4000k	No.	15			
3.5	25W LED Bulkhead	No.	35			
3.6	50W LED Floodlight	No.	40			
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.	10			
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.	13			
	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	90			
3.22	Testing and Commissioning of Lighting Installation	Lot	1			
3.23	4x2 PVC bxs complete with fittings	No	90			
3.24	5A plugs for light fitting	No	26			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
4	SMALL POWER Supply and installation of Schneider S3000 range (or similar) small power equipment in accordance with SANS10142-1.					
4.1	Single 16A, 3pin switched socket outlet with Euro Combination	No.	131			
4.2	Double 16A, 3pin switched socket outlet with Euro Combination for UPS circuits	No.				
4.3	Trunking	m				
4.4	2Tier Power Skirting including all accessories (Power + Data)	m				
4.5	Telephone Point	No.				
4.6	Data Point	No.				
4.7	Wifi Including all accessories	No.				
4.8	4x4 PVC boxes complete with fittings	No.	141			
4.9	Data/Telephone junction box	No.	2			
4.10	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.					
4.11	20A Double Pole 3KA Isolators with light indicator and cord grip	No.				
	30A Double Pole 3KA Isolators with light indicator and cord grip	No.	5			
4.12	60A Double Pole 3KA Isolators with light indicator and cord grip	No.				
4.13	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-HC	No	1			
5.2	DB-HD	No	1			
5.3	DB-HE	No	1			
5.4	DB-HF	No	1			
5.5	DB-HG	No	1			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
6	LIGHTNING PROTECTION AND EARTHING					
6.1	Bonding Points	No	65			
6.2	Earth Test Points	No	40			
6.3	Clamps including all accessories	No	1110			
6.4	10mm sq Insulated Aluminium down conductor	m	165			
6.5	50mm sq BCEW cable	m	380			
6.6	10mm sq Bare Aluminium conductor	m	369			
6.7	1.5m Long Copper Earth Rods	No	120			
6.8	Exothermic Welds	No	325			
6.9	300mm wide X 600mm deep trenching	m	1898			
Total Carried Forward						

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



Lecturer's Accommodation						
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	240			
2.2	Supply and install 4 sq.mm GP wire	m	450			
2.3	Supply and install 6 sq.mm GP wire	m	30			
2.4	Supply and install 4sq mm 1phase 2-core SWA CU cable compatible with SANS 1507-3	m				
2.5	Supply and install cable terminations set for 4sq.mm 3 core Cu cable	No				
2.4	Supply and install 4sq mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m				
2.5	Supply and install cable terminations set for 4sq.mm 4 core Cu cable	No				
2.4	Supply and install 25sq mm 1-phase 3-core SWA CU cable compatible with SANS 1507-3	m	118			
2.5	Supply and install cable terminations set for 16sq.mm 3 core Cu cable	No	2			
2.8	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	120			
2.9	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	150			
2.10	Supply and install M110 PVC Sleeves	m	118			
2.11	Trenching for Power M110 PVC - 500mm wide x 1000mm deep, including bedding soil and backfill	m	118			
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	35W round LED Bulkhead	No.	13			
3.2	40W LED linear fitting 4000k	No.	1			
3.3	50W LED Floodlight	No.				
3.4	OCCUPANCY SENSORS Supply and installation of Passive infrared Occupancy sensors complete with power packs and auxiliary relays, for control of lighting circuits	No.				
3.5	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					
3.6	1-lever 1-way switch, 100x50mm with cover plate, white	No	8			
3.7	Testing and Commissioning of Lighting Installation	Lot	1			
3.8	4x2 PVC bxes complete with fittings	No	8			
3.9	5A plugs for light fitting	No	1			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
4	SMALL POWER Supply and installation of Schneider S3000 range (or similar) small power equipment in accordance with SANS10142-1.					
4.1	Single 16A, 3pin switched socket outlet with Euro Combination	No.	16			
4.2	Double 16A, 3pin switched socket outlet with Euro Combination for UPS circuits	No.				
4.3	Trunking	m				
4.4	2Tier Power Skirting including all accessories (Power + Data)	m				
4.5	Telephone Point	No.				
4.6	Data Point	No.				
4.7	Wifi Including all accessories	No.				
4.8	4x4 PVC boxes complete with fittings	No.	20			
4.9	Data/Telephone junction box	No.	2			
4.10	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.					
4.11	20A Double Pole 3KA Isolators with light indicator and cord grip	No.				
	30A Double Pole 3KA Isolators with light indicator and cord grip	No.	2			
4.12	60A Double Pole 3KA Isolators with light indicator and cord grip	No.				
4.13	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-HH	No	1			
Total Carried Forward to Summary						

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
6	LIGHTNING PROTECTION AND EARTHING					
6.1	Bonding Points	No	6			
6.2	Earth Test Points	No	4			
6.3	Clamps including all accessories	No	31			
6.4	10mm sq Insulated Aluminium down conductor	m	64			
6.5	50mm sq BCEW cable	m	62			
6.6	10mm sq Bare Aluminium conductor	m	66			
6.7	1.5m Long Copper Earth Rods	No	20			
6.8	Exothermic Welds	No	6			
6.9	300mm wide X 600mm deep trenching	m	62			
Total Carried Forward						

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



Caretaker's Accommm						
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	706			
2.2	Supply and install 4 sq.mm GP wire	m	531			
2.3	Supply and install 6 sq.mm GP wire	m	45			
2.4	Supply and install 4sq mm 1phase 2-core SWA CU cable compatible with SANS 1507-3	m				
2.5	Supply and install cable terminations set for 4sq.mm 4 core Cu cable	No				
2.6	Supply and install 16 sq.mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m	20			
2.7	Supply and install cable terminations for 16sq.mm 4 core Cu cable	No	4			
2.8	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	353			
2.9	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	177			
2.10	Supply and install M110 PVC Sleeves	m	20			
2.11	Trenching for Power M110 PVC - 500mm wide x 1000mm deep, including bedding soil and backfill	m	20			
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.	9			
3.2	35W round LED Bulkhead	No.	18			
3.3	55W LED linear fitting 4000k	No.	5			
3.4	40W LED linear fitting 4000k	No.	5			
3.5	25W LED Bulkhead	No.	6			
3.6	50W LED Floodlight	No.	8			
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.	2			
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.	2			
	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	12			
3.10	2-lever 1-way switch, 100x50mm with cover plate, white	No	6			
3.11	Testing and Commissioning of Lighting Installation	Lot	1			
3.12	4x2 PVC bxs complete with fittings	No	48			
3.13	5A plugs for light fitting	No	10			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
4	SMALL POWER Supply and installation of Schneider S3000 range (or similar) small power equipment in accordance with SANS10142-1.					
4.1	Single 16A, 3pin switched socket outlet with Euro Combination	No.	30			
4.2	Double 16A, 3pin switched socket outlet with Euro Combination for UPS circuits	No.				
4.3	Trunking	m	30			
4.4	2Tier Power Skirting including all accessories (Power + Data)	m				
4.5	Telephone Point	No.	12			
4.6	Data Point	No.	12			
4.7	Wifi Including all accessories	No.	2			
4.8	4x4 PVC boxes complete with fittings	No.	38			
4.9	Data/Telephone junction box	No.	2			
4.10	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.					
4.11	20A Double Pole 3KA Isolators with light indicator and cord grip	No.				
	30A Double Pole 3KA Isolators with light indicator and cord grip	No.	3			
4.12	60A Double Pole 3KA Isolators with light indicator and cord grip	No.	2			
4.13	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-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					
6.1	Bonding Points	No	8			
6.2	Earth Test Points	No	4			
6.3	Clamps including all accessories	No	43			
6.4	10mm sq Insulated Aluminium down conductor	m	74			
6.5	50mm sq BCEW cable	m	94			
6.6	10mm sq Bare Aluminium conductor	m	88			
6.7	1.5m Long Copper Earth Rods	No	28			
6.8	Exothermic Welds	No	8			
6.9	300mm wide X 600mm deep trenching	m	94			
Total Carried Forward						

ITEM	DESCRIPTION	AMOUNT R
1	PRELIMINARY AND GENERAL	
2	CABLING	
3	LIGHTING	
4	SMALL POWER	
5	DISTRIBUTION BOARDS	
6	LIGHTNING PROTECTION AND EARTHING	
7		
Total		
Add 5% Contingency		
Sub Total		
Add VAT @ 15%		
Grand Total		



Workshops and Offices						
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	4430			
2.2	Supply and install 4 sq.mm GP wire	m	4755			
2.3	Supply and install 6 sq.mm GP wire	m	1980			
2.4	Supply and install 4sq mm 1phase 2-core SWA CU cable compatible with SANS 1507-3	m				
2.5	Supply and install cable terminations set for 4sq.mm 3 core Cu cable	No				
2.6	Supply and install 25sq mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m	168			
2.7	Supply and install cable terminations set for 25sq.mm 4 core Cu cable	No	4			
2.8	Supply and install 35 sq.mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m	120			
2.9	Supply and install cable terminations for 35sq.mm 4 core Cu cable	No	2			
2.10	Supply and install 70sq mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m	372			
2.11	Supply and install cable terminations set for 70sq.mm 4 core Cu cable	No	4			
2.12	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	2215			
2.13	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	1585			
2.14	Supply and install M110 PVC Sleeves	m	660			
2.15	Trenching for Power M110 PVC - 500mm wide x 1000mm deep, including bedding soil and backfill	m	660			
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.	75			
3.2	35W round LED Bulkhead	No.	37			
3.3	55W LED linear fitting 4000k	No.	89			
3.3	55W LED linear fitting 4000k , IP65	No.	58			
3.4	40W LED linear fitting 4000k	No.	12			
3.5	25W LED Bulkhead	No.	1			
3.6	50W LED Floodlight	No.	20			
3.7	100W LED High Bay ,IP65	No.	157			
3.8	OCCUPANCY SENSORS Supply and installation of Passive infrared Occupancy sensors complete with power packs and auxiliary relays, for control of lighting circuits	No.	13			
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.	3			
	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	51			
3.11	1-lever 2-way switch, 100x50mm with cover plate, white	No	33			
3.12	2-lever 1-way switch, 100x50mm with cover plate, white	No	3			
3.13	2-lever 2-way switch, 100x50mm with cover plate, white	No	9			
3.14	3-lever 3-way switch, 100x50mm with cover plate, white	No	3			
3.15	4x2 PVC bxs complete with fittings	No	99			
3.16	5A plugs for light fitting	No	159			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY			AMOUNT R
4	SMALL POWER Supply and installation of Schneider S3000 range (or similar) small power equipment in accordance with SANS10142-1.					
4.1	Single 16A, 3pin switched socket outlet with Euro Combination (dedicated)	No.	102			
4.2	Double 16A, 3pin switched socket outlet with Euro Combination for UPS circuits	No.	163			
4.3	Trunking	m	174			
4.4	2Tier Power Skirting including all accessories (Power + Data)	m	750			
4.5	Telephone Point	No.	12			
4.6	Data Point	No.	12			
4.7	Wifi Including all accessories	No.	2			
4.8	4x4 PVC boxes complete with fittings	No.	112			
4.9	Data/Telephone junction box	No.	2			
4.10	15KVA Eaton or similar UPS systems including 10minutes back each	No.	6			
	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.					
4.11	20A Double Pole 3KA Isolators with light indicator and cord grip	No.	4			
	30A Double Pole 3KA Isolators with light indicator and cord grip	No.	2			
4.12	60A Double Pole 3KA Isolators with light indicator and cord grip	No.	2			
4.13	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-A	No	1			
5.2	DB-B	No	1			
5.3	DB-C	No	1			
5.4	DB-D	No	1			
5.5	DB-E	No	1			
5.6	DB-F	No	1			
5.7	DB-M	No	1			
5.8	DB-A1	No	1			
5.2	DB-BA	No	1			
5.3	DB-CA	No	1			
5.4	DB-DA	No	1			
5.5	DB-EA	No	1			
5.6	DB-FA	No	1			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
6	LIGHTNING PROTECTION AND EARTHING					
6.1	Bonding Points	No	29			
6.2	Earth Test Points	No	28			
6.3	Clamps including all accessories	No	181			
6.4	10mm sq Insulated Aluminium down conductor	m	42			
6.5	50mm sq BCEW cable	m	381			
6.6	10mm sq Bare Aluminium conductor	m	606			
6.7	1.5m Long Copper Earth Rods	No	122			
6.8	Exothermic Welds	No	29			
6.9	300mm wide X 600mm deep trenching	m	381			
Total Carried Forward						

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



Plumbing Practicals 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	136			
2.2	Supply and install 4 sq.mm GP wire	m	381			
2.3	Supply and install 6 sq.mm GP wire	m	450			
2.4	Supply and install 4sq mm 1phase 2-core SWA CU cable compatible with SANS 1507-3	m				
2.5	Supply and install cable terminations set for 4sq.mm 3 core Cu cable	No				
2.4	Supply and install 25sq mm 1-phase 3-core SWA CU cable compatible with SANS 1507-3	m	198			
2.5	Supply and install cable terminations set for 25sq.mm 3 core Cu cable	No	2			
2.6	Supply and install 16 sq.mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m				
2.7	Supply and install cable terminations for 16sq.mm 4 core Cu cable	No				
2.8	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	68			
2.9	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	127			
2.10	Supply and install M50 PVC Sleeves	m	0			
2.11	Trenching for Power M50 PVC - 500mm wide x 1000mm deep, including bedding soil and backfill	m	0			
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	35W round LED Bulkhead	No.	5			
3.2	55W LED linear fitting 4000k, IP65	No.	6			
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	2-lever 1-way switch, 100x50mm with cover plate, white	No	1			
3.22	Testing and Commissioning of Lighting Installation	Lot	1			
3.23	4x2 PVC bxs complete with fittings	No	1			
3.24	5A plugs for light fitting	No	6			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
4	SMALL POWER Supply and installation of Schneider S3000 range (or similar) small power equipment in accordance with SANS10142-1.					
4.1	Single 16A, 3pin switched socket outlet with Euro Combination (dedicated)	No.	20			
4.2	Double 16A, 3pin switched socket outlet with Euro Combination for UPS circuits	No.				
4.3	Trunking	m	15			
4.4	2Tier Power Skirting including all accessories (Power + Data)	m	40			
4.5	Telephone Point	No.				
4.6	Data Point	No.				
4.7	Wifi Including all accessories	No.				
4.8	4x4 PVC boxes complete with fittings	No.				
4.9	Data/Telephone junction box	No.				
4.10	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.					
4.11	20A Double Pole 3KA Isolators with light indicator and cord grip	No.				
	30A Double Pole 3KA Isolators with light indicator and cord grip	No.				
4.12	60A Double Pole 3KA Isolators with light indicator and cord grip	No.				
4.13	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-PW	No	1			
Total Carried Forward to Summary						

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
6	LIGHTNING PROTECTION AND EARTHING					
6.1	Bonding Points	No	6			
6.2	Earth Test Points	No	4			
6.3	Clamps including all accessories	No	28			
6.4	10mm sq Insulated Aluminium down conductor	m	15			
6.5	50mm sq BCEW cable	m	52			
6.6	10mm sq Bare Aluminium conductor	m	66			
6.7	1.5m Long Copper Earth Rods	No	17			
6.8	Exothermic Welds	No	6			
6.9	300mm wide X 600mm deep trenching	m	52			
Total Carried Forward						



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



Carpentry Workshop						
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	340			
2.2	Supply and install 4 sq.mm GP wire	m	1350			
2.3	Supply and install 6 sq.mm GP wire	m	450			
2.4	Supply and install 4sq mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m				
2.5	Supply and install cable terminations set for 4sq.mm 4 core Cu cable	No				
2.6	Supply and install 35sq.mm 1-phase 3-core SWA CU cable compatible with SANS 1507-3	m	132			
2.7	Supply and install cable terminations for 35sq.mm 3 core Cu cable	No	2			
2.8	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	170			
2.9	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	450			
2.10	Supply and install M110 PVC Sleeves	m	132			
2.11	Trenching for Power M110 PVC - 500mm wide x 1000mm deep, including bedding soil and backfill	m	132			
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	55W LED linear fitting 4000k , IP65	No.	7			
3.2	50W LED Floodlight	No.	5			
3.3	100W LED High Bay ,IP65	No.	10			
3.4	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.	2			
	LIGHT SWITCHES Supply and install Schneider S3000 light switches complete with coverplate. Includes wiring of the switch points					
3.5	1-lever 1-way switch, 100x50mm with cover plate, white	No	2			
3.6	1-lever 2-way switch, 100x50mm with cover plate, white	No	2			
3.7	Testing and Commissioning of Lighting Installation	Lot	1			
3.8	4x2 PVC bxes complete with fittings	No	4			
3.9	5A plugs for light fitting	No	7			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY			AMOUNT R
4	SMALL POWER Supply and installation of Schneider S3000 range (or similar) small power equipment in accordance with SANS10142-1.					
4.1	Single 16A, 3pin switched socket outlet with Euro Combination (dedicated)	No.	30			
4.2	Double 16A, 3pin switched socket outlet with Euro Combination for UPS circuits	No.	3			
4.3	Trunking	m	3			
4.4	2Tier Power Skirting including all accessories (Power + Data)	m	9			
4.5	Telephone Point	No.	1			
4.6	Data Point	No.	1			
4.7	Wifi Including all accessories	No.				
4.8	4x4 PVC boxes complete with fittings	No.	30			
4.9	Data/Telephone junction box	No.				
4.10	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.					
4.11	20A Double Pole 3KA Isolators with light indicator and cord grip	No.				
	30A Double Pole 3KA Isolators with light indicator and cord grip	No.				
4.12	60A Double Pole 3KA Isolators with light indicator and cord grip	No.				
4.13	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- CP	No	1			
Total Carried Forward to Summary						

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
6	LIGHTNING PROTECTION AND EARTHING					
6.1	Bonding Points	No	12			
6.2	Earth Test Points	No	6			
6.3	Clamps including all accessories	No	50			
6.4	10mm sq Insulated Aluminium down conductor	m	30			
6.5	50mm sq BCEW cable	m	97			
6.6	10mm sq Bare Aluminium conductor	m	116			
6.7	1.5m Long Copper Earth Rods	No	30			
6.8	Exothermic Welds	No	12			
6.9	300mm wide X 600mm deep trenching	m	97			
Total Carried Forward						



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



Future Workshops						
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	1122			
2.2	Supply and install 4 sq.mm GP wire	m	4500			
2.3	Supply and install 6 sq.mm GP wire	m	900			
2.4	Supply and install 50sq mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m	198			
2.5	Supply and install cable terminations set for 50sq.mm 4 core Cu cable	No	2			
2.6	Supply and install 16 sq.mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m				
2.7	Supply and install cable terminations for 16sq.mm 4 core Cu cable	No				
2.8	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	561			
2.9	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	1500			
2.10	Supply and install M50 PVC Sleeves	m	198			
2.11	Trenching for Power M50 PVC - 500mm wide x 1000mm deep, including bedding soil and backfill	m	198			
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	35W round LED Bulkhead	No.	3			
3.2	55W LED linear fitting 4000k	No.	2			
3.3	55W LED linear fitting 4000k , IP65	No.	99			
3.3	25W LED Bulkhead	No.	1			
3.4	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.	7			
	LIGHT SWITCHES Supply and install Schneider S3000 light switches complete with coverplate. Includes wiring of the switch points					
3.5	1-lever 1-way switch, 100x50mm with cover plate, white	No	1			
3.6	2-lever 1-way switch, 100x50mm with cover plate, white	No	2			
3.7	Testing and Commissioning of Lighting Installation	Lot	1			
3.8	4x2 PVC bxs complete with fittings	No	3			
3.9	5A plugs for light fitting	No	101			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY			AMOUNT R
4	SMALL POWER Supply and installation of Schneider S3000 range (or similar) small power equipment in accordance with SANS10142-1.					
4.1	Single 16A, 3pin switched socket outlet with Euro Combination	No.	40			
4.2	Double 16A, 3pin switched socket outlet with Euro Combination for UPS circuits	No.				
4.3	Trunking	m				
4.4	2Tier Power Skirting including all accessories (Power + Data)	m	150			
4.5	Telephone Point	No.				
4.6	Data Point	No.				
4.7	Wifi Including all accessories	No.				
4.8	4x4 PVC boxes complete with fittings	No.	40			
4.9	Data/Telephone junction box	No.	2			
4.10	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.					
4.11	20A Double Pole 3KA Isolators with light indicator and cord grip	No.				
	30A Double Pole 3KA Isolators with light indicator and cord grip	No.				
4.12	60A Double Pole 3KA Isolators with light indicator and cord grip	No.				
4.13	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-FW	No	1			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
6	LIGHTNING PROTECTION AND EARTHING					
6.1	Bonding Points	No	9			
6.2	Earth Test Points	No	6			
6.3	Clamps including all accessories	No	80			
6.4	10mm sq Insulated Aluminium down conductor	m	30			
6.5	50mm sq BCEW cable	m	190			
6.6	10mm sq Bare Aluminium conductor	m	240			
6.7	1.5m Long Copper Earth Rods	No	58			
6.8	Exothermic Welds	No	9			
6.9	300mm wide X 600mm deep trenching	m	190			
Total Carried Forward						

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



Cafeteria						
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	134			
2.2	Supply and install 4 sq.mm GP wire	m	60			
2.3	Supply and install 6 sq.mm GP wire	m	15			
2.4	Supply and install 4sq mm 1phase 2-core SWA CU cable compatible with SANS 1507-3	m				
2.5	Supply and install cable terminations set for 4sq.mm 3 core Cu cable	No				
2.4	Supply and install 4sq mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m				
2.5	Supply and install cable terminations set for 4sq.mm 4 core Cu cable	No				
2.6	Supply and install 16 sq.mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m				
2.7	Supply and install cable terminations for 16sq.mm 4 core Cu cable	No				
2.8	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	67			
2.9	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	20			
2.10	Supply and install M50 PVC Sleeves	m	0			
2.11	Trenching for Power M50 PVC - 500mm wide x 1000mm deep, including bedding soil and backfill	m	0			
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	35W round LED Bulkhead	No.	4			
3.2	55W LED linear fitting 4000k, IP65	No.	2			
3.3	40W LED linear fitting 4000k	No.	3			
3.4	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					
3.5	1-lever 1-way switch, 100x50mm with cover plate, white	No	3			
3.6	4x2 PVC bxes complete with fittings	No	3			
3.7	5A plugs for light fitting	No	5			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY			AMOUNT R
4	SMALL POWER Supply and installation of Schneider S3000 range (or similar) small power equipment in accordance with SANS10142-1.					
4.1	Single 16A, 3pin switched socket outlet with Euro Combination	No.	7			
4.2	Double 16A, 3pin switched socket outlet with Euro Combination for UPS circuits	No.				
4.3	Trunking	m				
4.4	2Tier Power Skirting including all accessories (Power + Data)	m				
4.5	Telephone Point	No.				
4.6	Data Point	No.				
4.7	Wifi Including all accessories	No.				
4.8	4x4 PVC boxes complete with fittings	No.	8			
4.9	Data/Telephone junction box	No.	2			
4.10	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.					
4.11	20A Double Pole 3KA Isolators with light indicator and cord grip	No.				
	30A Double Pole 3KA Isolators with light indicator and cord grip	No.				
4.12	60A Double Pole 3KA Isolators with light indicator and cord grip	No.	1			
4.13	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-KT	No	1			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
6	LIGHTNING PROTECTION AND EARTHING					
6.1	Bonding Points	No	6			
6.2	Earth Test Points	No	4			
6.3	Clamps including all accessories	No	24			
6.4	10mm sq Insulated Aluminium down conductor	m	15			
6.5	50mm sq BCEW cable	m	44			
6.6	10mm sq Bare Aluminium conductor	m	42			
6.7	1.5m Long Copper Earth Rods	No	14			
6.8	Exothermic Welds	No	6			
6.9	300mm wide X 600mm deep trenching	m	44			
Total Carried Forward						

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



GuardHouse						
ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
1	<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	66			
2.2	Supply and install 4 sq.mm GP wire	m	60			
2.3	Supply and install 6 sq.mm GP wire	m				
2.4	Supply and install 4sq mm 1phase 2-core SWA CU cable compatible with SANS 1507-3	m				
2.5	Supply and install cable terminations set for 4sq.mm 3 core Cu cable	No				
2.4	Supply and install 4sq mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m				
2.5	Supply and install cable terminations set for 4sq.mm 4 core Cu cable	No				
2.6	Supply and install 16 sq.mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m				
2.7	Supply and install cable terminations for 16sq.mm 4 core Cu cable	No				
2.8	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	33			
2.9	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	20			
2.10	Supply and install M50 PVC Sleeves	m	0			
2.11	Trenching for Power M50 PVC - 500mm wide x 1000mm deep, including bedding soil and backfill	m	0			
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	35W round LED Bulkhead	No.	2			
3.2	50W LED Floodlight	No.	3			
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. LIGHT SWITCHES Supply and install Schneider S3000 light switches complete with coverplate. Includes wiring of the switch points	No.				
3.4	1-lever 1-way switch, 100x50mm with cover plate, white	No	1			
3.5	Testing and Commissioning of Lighting Installation	Lot	1			
3.6	4x2 PVC bxs complete with fittings	No	1			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
4	SMALL POWER Supply and installation of Schneider S3000 range (or similar) small power equipment in accordance with SANS10142-1.					
4.1	Single 16A, 3pin switched socket outlet with Euro Combination	No.	3			
4.2	Double 16A, 3pin switched socket outlet with Euro Combination for UPS circuits	No.				
4.3	Trunking	m				
4.4	2Tier Power Skirting including all accessories (Power + Data)	m				
4.5	Telephone Point	No.				
4.6	Data Point	No.				
4.7	Wifi Including all accessories	No.				
4.8	4x4 PVC boxes complete with fittings	No.				
4.9	Data/Telephone junction box	No.	2			
4.10	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.					
4.11	30A Double Pole 3KA Isolators with light indicator and cord grip	No.				
4.12	40A Double Pole 3KA Isolators with light indicator and cord grip	No.				
4.13	60A Double Pole 3KA Isolators with light indicator and cord grip	No.				
4.14	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-GH	No	1			
Total Carried Forward to Summary						

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
6	LIGHTNING PROTECTION AND EARTHING					
6.1	Bonding Points	No	6			
6.2	Earth Test Points	No	5			
6.3	Clamps including all accessories	No	20			
6.4	10mm sq Insulated Aluminium down conductor	m	15			
6.5	50mm sq BCEW cable	m	30			
6.6	10mm sq Bare Aluminium conductor	m	25			
6.7	1.5m Long Copper Earth Rods	No	11			
6.8	Exothermic Welds	No	6			
6.9	300mm wide X 600mm deep trenching	m	30			
Total Carried Forward						



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

Sites						
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, Toolbox Talks, etc.	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 <u>Ancillary Works</u>	Sum				
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	450			
2.2	Supply and install 4 sq.mm GP wire	m	300			
2.3	Supply and install 120 sq.mm 3-phase 4-core + ECC SWA CU cable compatible with SANS 1507-3	m	200			
2.4	Supply and install cable terminations for 120sq.mm 5 core Cu cable	No	12			
2.5	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	225			
2.6	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	100			



2.7	Supply and install M160 PVC Sleeves	m	200		
2.8	Trenching for Power M160 PVC Sleeve- 500mm wide x 1200mm deep, including bedding soil and backfill	m	100		
2.9	Manhole - FC chamber, with bases, ports and a concrete coverslab with a hinged DMC polymer lid which is lockable including excavation of dimensions 1200mm wide x 1200mm wide x 1200mm deep for POWER	No	3		
2.10	Supply and installation of 300mm thick concrete plinth (4500x2000mm footprint) protruding 150mm above ground level with the following:				
2.10.1	25MPa/19mm stone concrete	m ³	2.700		
2.10.2	Mesh ref. 311 (4500x2000mm footprint) placed 50mm from top and bottom of plinth	m ²	16.720		
2.10.3	Vertical Formwork 150mm high all around	m ²	1.950		
2.10.4	Layerworks: Rip and recompact 150 thick layer of in-situ material to 90% Mod AASHTO	m ²	13.260		
2.10.5	Layerworks:150mm thick imported G5 layer compacted to 95% Mod AASHTO	m ²	1.656		
2.10.6	250 micron DPC layer below plinth	m ²	9.660		
2.10.7	Soil Poisoning	m ²	9.000		
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.	5			
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	Borehole DB	No	1			
4.2	Generator Main LV Panel including automatic Changeover as detailed in the RFQ document	No	1			
Total Carried Forward to Summary						

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
5	LIGHTNING PROTECTION AND EARTHING					
5.1	Supply and install lightning protection system in accordance with SANS 10313 for the Generator. Copper Earthing straps to be bonded and earthed according to SANS10142.	No.	1			
Total Carried Forward						

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
6	GENERATORS (BACK-UP POWER)					
6.1	Supply and Install a 300KVA (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			
6.2	Profit and Attendance on item 6.1	%	10			
6.3	Access and coordination of power outages to ensure minimal shutdown for campus operations.	Sum	1			
6.4	Provisional Sum to allow for Data Logging to gather all load readings as instructed by engineer during load testing and commissioning.	Sum	1			
Total Carried Forward						



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



Summary		
EKURHULENI EAST TVET ARTISAN SKILLS DEVELOPMENT CENTRE (ASDC)		
ITEM	DESCRIPTION	AMOUNT R
1	Admin Block	
2	Hostels	
3	Lecturer's Accommodation	
4	Caretaker's Accommodation	
5	Workshops and Offices	
6	Plumbing Practicals	
7	Carpentry Workshop	
8	Future 4IR Workshops	
9	Cafeteria	
10	Guard House	
11	External Works	
Grand Total		




MR M MATHE
BSC CHAIRPERSON


DATE



MS HM SIBANDE
PRINCIPAL


DATE



ADMIN 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	574			
2.2	Supply and install 4 sq.mm GP wire	m	850			
2.3	Supply and install 6 sq.mm GP wire	m	25			
2.4	Supply and install 4sq mm 1phase 2-core SWA CU cable compatible with SANS 1507-3	m	10			
2.5	Supply and install cable terminations set for 4sq.mm 3 core Cu cable	No	2			
2.4	Supply and install 4sq mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m	60			
2.5	Supply and install cable terminations set for 4sq.mm 4 core Cu cable	No	2			
2.6	Supply and install 16 sq.mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m	160			
2.7	Supply and install cable terminations for 16sq.mm 4 core Cu cable	No	4			
2.8	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	287			
2.9	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	283			
2.10	Supply and install M50 PVC Sleeves	m	170			
2.11	Trenching for Power M50 PVC - 500mm wide x 1000mm deep, including bedding soil and backfill	m	170			
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.	9			
3.2	25W round LED Bulkhead	No.	4			
3.3	35W round LED Bulkhead	No.	16			
3.4	55W LED linear fitting 4000k	No.	21			
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.	4			
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.	2			
3.7	1-lever 1-way switch, 100x50mm with cover plate, white	No	13			
3.8	1-lever 2-way switch, 100x50mm with cover plate, white	No	6			
3.9	2-lever 1-way switch, 100x50mm with cover plate, white	No	1			
3.10	Testing and Commissioning of Lighting Installation	Lot	1			
3.11	4x2 PVC bxs complete with fittings	No	13			
3.12	5A plugs for light fitting	No	21			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY			AMOUNT R
4	SMALL POWER Supply and installation of Crabtree range (or similar) small power equipment in					
4.1	Single 16A, 3pin switched socket outlet with Euro Combination	No.	7			
4.2	Double 16A, 3pin switched socket outlet with Euro Combination for UPS circuits	No.	21			
4.3	Trunking	m	30			
4.4	2Tier Power Skirting including all accessories (Power + Data)	m	60			
4.5	Telephone Point	No.	12			
4.6	Data Point	No.	12			
4.7	Wifi Including all accessories	No.	2			
4.8	4x4 PVC boxes complete with fittings	No.	17			
4.9	Data/Telephone junction box	No.	2			
4.10	ISOLATORS					
4.11	20A Double Pole 3KA Isolators with light indicator and cord grip	No.	4			
	30A Double Pole 3KA Isolators with light indicator and cord grip	No.	2			
4.12	60A Double Pole 3KA Isolators with light indicator and cord grip	No.	2			
4.13	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-A	No	1			
5.2	DB-A1	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					
6.1	Bonding Points	No	10			
6.2	Earth Test Points	No	5			
6.3	Clamps including all accessories	No	38			
6.4	10mm sq Insulated Aluminium down conductor	m	33			
6.5	50mm sq BCEW cable	m	85			
6.6	10mm sq Bare Aluminium conductor	m	125			
6.7	1.5m Long Copper Earth Rods	No	22			
6.8	Exothermic Welds	No	10			
6.9	300mm wide X 600mm deep trenching	m	85			
Total Carried Forward						

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



MAIN LECTURES BUILDING						
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				
1.6	All plant and equipment	Sum				
1.7	Wiring	Sum				
	<u>FOR HEALTH AND SAFETY:</u>					
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	2722			
2.2	Supply and install 4 sq.mm GP wire for wiring	m	510			
2.3	Supply and install 4sq mm 1phase 2-core SWA CU cable compatible with SANS 1507-3	m	52			
2.4	Supply and install cable terminations set for 4sq.mm 3 core Cu cable	No	14			
2.5	Supply and install 4sq mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m	20			
2.6	Supply and install cable terminations set for 4sq.mm 4 core Cu cable	No	2			
2.7	Supply and install 10 sq.mm 1-phase 2-core SWA CU cable compatible with SANS 1507-3	m	114			



2.8	Supply and install cable terminations for 10sq.mm 3 core Cu cable	No	4			
2.9	Supply and install 25 sq.mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m	127			
2.10	Supply and install cable terminations for 25sq.mm 4 core Cu cable	No	2			
2.11	Supply and install 70 sq.mm 3-phase 4-core SWA CU cable compatible with SANS 1507-3	m	330			
2.12	Supply and install cable terminations for 70sq.mm 4 core Cu cable	No	4			
2.13	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	1089			
2.14	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	170			
2.15	Supply and install M50 PVC Sleeves	m	166			
2.16	Trenching for Power M50 PVC - 500mm wide x 1000mm deep, including bedding soil and backfill	m	166			
2.16	Supply and install M110 PVC Sleeves	m	330			
2.17	Trenching for Power M110 PVC - 500mm wide x 1000mm deep, including bedding soil and backfill	m	330			
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.	44			
3.2	35W round LED Bulkhead	No.	10			
3.3	55W LED linear fitting 4000k	No.	111			
3.4	55W LED linear fitting 4000k, IP65	No.	15			
3.5	25W round LED Bulkhead	No.	2			
3.6	50W LED floodlight	No.	16			
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.	7			
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.	8			
3.9	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	38			
3.11	2-lever 1-way switch, 100x50mm with cover plate, white	No	2			
3.12	Testing and Commissioning of Lighting Installation	Lot	1			
3.13	4x2 PVC bxs complete with fittings	No	38			
3.14	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.	53			
4.2	Trunking	m	3			
4.3	2Tier Power Skirting including all accessories (Power + Data)	m	6			
4.4	Telephone Point	No.	1			
4.5	Data Point	No.	1			
4.6	4x4 PVC boxes complete with fittings	No.	1			
4.7	Data/Telephone junction box	No.	2			
4.8	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.					
4.9	30A Single Pole 3KA Isolators Points with light indicator and cord grip	No.	1			
4.10	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-B	No	1			
5.2	DB-C	No	1			
5.3	DB-D	No	1			
5.4	DB-B1	No	1			
5.5	DB-C1	No	1			
5.6	DB-D1	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	20			
6.2	Earth Test Points	No	11			
6.3	Clamps including all accessories	No	122			
6.4	10mm sq Insulated Aluminium down conductor	m	120			
6.5	50mm sq BCEW cable	m	285			
6.6	10mm sq Bare Aluminium conductor	m	430			
6.7	1.5m Long Copper Earth Rods	No	82			
6.8	Exothermic Welds	No	20			
6.9	300mm wide X 600mm deep trenching	m	285			
Total Carried Forward						

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



CHANGE ROOMS						
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	88			
2.2	Supply and install 4 sq.mm GP wire	m	75			
2.3	Supply and install 4sq mm 1-phase 2-core SWA CU cable compatible with SANS 1507-3	m	50			
2.4	Supply and install cable terminations set for 4sq.mm 3 core Cu cable	No	2			
2.5	Supply and install 6 sq.mm 1-phase 2-core SWA CU cable compatible with SANS 1507-3	m	50			
2.6	Supply and install cable terminations for 6sq.mm 3 core Cu cable	No	2			
2.9	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	35			
2.10	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	25			
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.	2			
3.2	35W round LED Bulkhead	No.	7			
3.3	OCCUPANCY SENSORS Supply and installation of Passive infrared Occupancy sensors complete with power packs and auxiliary relays, for control of lighting circuits	No.	1			
3.4	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.	1			
3.5	1-lever 1-way switch, 100x50mm with cover plate, white	No	3			
3.6	Testing and Commissioning of Lighting Installation	Lot	1			
3.7	4x2 PVC bxs complete with fittings	No	6			
3.8	5A plugs for light fitting	No				
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY			AMOUNT R
4	SMALL POWER Supply and installation of Crabtree range (or similar) small power equipment in accordance with SANS10142-1.					
4.1	Double 16A, 3pin switched socket outlet with Euro Combination	No.	4			
4.2	4x4 PVC boxes complete with fittings	No.	4			
4.3	Testing and Commissioning of Small Power Installation	Lot				
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-E	No	1			
Total Carried Forward to Summary						

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
6	LIGHTNING PROTECTION AND EARTHING					
6.1	Bonding Points	No	6			
6.2	Earth Test Points	No	4			
6.3	Clamps including all accessories	No	11			
6.4	10mm sq Insulated Aluminium down conductor	m	12			
6.5	50mm sq BCEW cable	m	50			
6.6	10mm sq Bare Aluminium conductor	m	37			
6.7	1.5m Long Copper Earth Rods	No	12			
6.8	Exothermic Welds	No	6			
6.9	300mm wide X 600mm deep trenching	m	50			
Total Carried Forward						



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

STAFF ROOM						
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	240			
2.2	Supply and install 6 sq.mm GP wire	m	10			
2.3	Supply and install 4sq mm 1-phase 2-core SWA CU cable compatible with SANS 1507-3	m	60			
2.4	Supply and install cable terminations set for 4sq.mm 3core Cu cable	No	2			
2.5	Supply and install 10sq mm 1-phase 2-core SWA CU cable compatible with SANS 1507-3	m	60			
2.6	Supply and install cable terminations set for 10sq.mm 3core Cu cable	No	2			
2.7	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	96			
2.8	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	3			
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.	6			
3.2	55W LED linear fitting 4000k	No.	8			
3.3	55W LED linear fitting 4000k, IP65	No.	1			
3.4	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					
3.5	1-lever 1-way switch, 100x50mm with cover plate, white	No	3			
3.6	Testing and Commissioning of Lighting Installation	Lot	1			
3.7	4x2 PVC bxs complete with fittings	No	3			
3.8	5A plugs for light fitting	No	8			
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	14			
6.2	Earth Test Points	No	8			
6.3	Clamps including all accessories	No	22			
6.4	10mm sq Insulated Aluminium down conductor	m	26			
6.5	50mm sq BCEW cable	m	77			
6.6	10mm sq Bare Aluminium conductor	m	87			
6.7	1.5m Long Copper Earth Rods	No	22			
6.8	Exothermic Welds	No	14			
6.9	300mm wide X 600mm deep trenching	m	77			
Total Carried Forward						

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



GARAGES						
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	160			
2.2	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	64			
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.	4			
3.2	55W LED linear fitting 4000k, IP65	No.	5			
3.3	OCCUPANCY SENSORS Supply and installation of Passive infrared Occupancy sensors complete with power packs and auxiliary relays, for control of lighting circuits	No.				
3.4	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.	2			
3.5	1-lever 1-way switch, 100x50mm with cover plate, white	No	2			
3.6	Testing and Commissioning of Lighting Installation	Lot	1			
3.7	4x2 PVC bxs complete with fittings	No	2			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	AMOUNT R
1	PRELIMINARY AND GENERAL	
2	CABLING	
3	LIGHTING	
Total		
Add 5% Contingency		
Sub Total		
Add VAT @ 15%		
Grand Total		

TOILETS						
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	140			
2.2	Supply and install M50 PVC Sleeves	m	25			
2.3	Trenching for Power M50 PVC Sleeve- 500mm wide x 1000mm deep, including bedding soil and backfill	m	25			
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.	2			
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. Weatherproof.	No	2			
3.5	Testing and Commissioning of Lighting Installation	Lot	1			
3.6	4x2 PVC boxes complete with fittings	No	2			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	AMOUNT R
1	PRELIMINARY AND GENERAL	
2	CABLING	
3	LIGHTING	
Total		
Add 5% Contingency		
Sub Total		
Add VAT @ 15%		
Grand Total		



SICK ROOM						
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	110			
2.2	Supply and install 4 sq.mm GP wire	m	650			
2.3	Supply and install 4sq mm 1-phase 2-core SWA CU cable compatible with SANS 1507-3	m	55			
2.4	Supply and install cable terminations set for 4sq.mm 3core Cu cable	No	2			
2.5	Supply and install 6sq mm 1-phase 2-core SWA CU cable compatible with SANS 1507-3	m	55			
2.6	Supply and install cable terminations set for 4sq.mm 3core Cu cable	No	2			
2.7	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	44			
2.8	Supply and install M25 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	217			
2.9	Supply and install M50 PVC Sleeves	m	110			
2.10	Trenching for Power M50 PVC Sleeve- 500mm wide x 1000mm deep, including bedding soil and backfill	m	110			
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	55W LED linear fitting 4000k	No.	1			
3.2	35W round LED Bulkhead	No.	1			
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	Testing and Commissioning of Lighting Installation	Lot	1			
3.6	4x2 PVC bxs complete with fittings	No	1			
Total Carried Forward to Summary						



ITEM	DESCRIPTION	UNIT	QTY			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, red	No.	3			
4.2	Trunking	m	3			
4.3	1Tier Power Skirting including all accessories	m	6			
4.4	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-G	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	4			
6.3	Clamps including all accessories	No	19			
6.4	10mm sq Insulated Aluminium down conductor	m	12			
6.5	50mm sq BCEW cable	m	40			
6.6	10mm sq Bare Aluminium conductor	m	25			
6.7	1.5m Long Copper Earth Rods	No	10			
6.8	Exothermic Welds	No	6			
6.9	300mm wide X 600mm deep trenching	m	40			
Total Carried Forward						



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

LECTURE 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	160			
2.2	Supply and install 4 sq.mm -phase 2-core SWA CU cable compatible with SANS 1507-3	m	51			
2.3	Supply and install cable terminations for 4sq.mm 3core Cu cable	No	2			
2.4	Supply and install M20 BOSAL conduit complete with elbows, junction boxes, clamps and fittings	m	64			
2.5	Supply and install M50 PVC Sleeves	m	51			
2.6	Trenching for Power M50 PVC Sleeve- 500mm wide x 1000mm deep, including bedding soil and backfill	m	51			
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.	6			
3.2	55W LED linear fitting 4000k	No.	6			
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	Testing and Commissioning of Lighting Installation	Lot	1			
3.6	4x2 PVC bxs complete with fittings	No	1			
3.7	5A plugs for light fitting	No	6			
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, red	No.	8			
4.2	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-H	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	4			
6.2	Earth Test Points	No	4			
6.3	Clamps including all accessories	No	24			
6.4	10mm sq Insulated Aluminium down conductor	m	12			
6.5	50mm sq BCEW cable	m	65			
6.6	10mm sq Bare Aluminium conductor	m	44			
6.7	1.5m Long Copper Earth Rods	No	16			
6.8	Exothermic Welds	No	4			
6.9	300mm wide X 600mm deep trenching	m	65			
Total Carried Forward						



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

SITE						
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, Toolbox Talks, etc.	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 <u>Ancillary Works</u>	Sum				
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	200			
2.2	Supply and install 4 sq.mm GP wire	m	200			
2.3	Supply and install 50 sq.mm 3-phase 4-core + ECC SWA CU cable compatible with SANS 1507-3	m	100			
2.4	Supply and install cable terminations for 50sq.mm 5 core Cu cable	No	12			
2.5	Manhole - FC chamber, with bases, ports and a concrete coverslab with a hinged DMC polymer lid which is lockable including excavation of dimensions 1200mm wide x 1200mm wide x 1200mm deep for POWER	No	2			
2.6	Supply and install M160 PVC Sleeves	m	100			
2.7	Trenching for Power M160 PVC Sleeve- 500mm wide x 1200mm deep, including bedding soil and backfill	m	50			
2.8	Supply and installation of 300mm thick concrete plinth (4000x1500mm footprint) protruding 150mm above ground level with the following:					
2.8.1	25MPa/19mm stone concrete	m ³	0,900			
2.8.2	Mesh ref. 311 (4000x1500mm footprint) placed 50mm from top and bottom of plinth	m ²	5,460			
2.8.3	Vertical Formwork 150mm high all around	m ²	1,650			
2.9	Testing					
2.9.1	Concrete cube testing	No	2			
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.	8			
3.2	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			
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					
4.1	Generator Main LV Panel including automatic Changeover as detailed in the RFQ document	No	1			
Total Carried Forward to Summary						

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
5	LIGHTNING PROTECTION AND EARTHING					
5.1	Supply and install lightning protection system in accordance with SANS 10313 for the Generator. Copper Earthing straps to be bonded and earthed according to SANS10142.	No.	1			
Total Carried Forward						



ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT R
6	POWER SUPPLY AND GENERATORS (BACK-UP)					
6.1	Upgrade supply to 105KVA including connection and all other associated costs from Supply Authority	Sum				
6.2	Profit and Attendance on Item 6.1 and 6.3	%	10			
6.3	Supply and Install a 150KVA (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			
6.4	Access and coordination of power outages to ensure minimal shutdown for campus operations.	Sum	1			
6.5	Provisional Sum to allow for Data Logging to gather all load readings as instructed by engineer during load testing and commissioning.	Sum	1			
Total Carried Forward						

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



SUMMARY		
EKURHULENI EAST TVET BRAKPAN CAMPUS SUMMARY		
ITEM	DESCRIPTION	AMOUNT R
1	Admin Block	
2	Main Lectures Building	
3	Change Rooms	
4	Staff Room	
5	Garages	
6	Toilets	
7	Sick Room	
8	Lecture Block	
9	External Works	
Total Incl VAT		

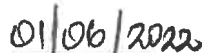


MR M MATHE
BSC CHAIRPERSON


30/5/2022
DATE



MS HM SIBANDE
PRINCIPAL


01/06/2022
DATE

