

**PART B: ELECTRICAL & ELECTRONICS**

**ELECTRICAL BILL OF QUANTITIES**

**BILL NO.1 Distribution Boards & Power Skirting**

Item	Description	Unit	QTY	Rate	Amount
<b>1</b>	<b>Ducting</b>				
1.1	<b>Underfloor Ducting:</b> Three-compartment ducting with a cross-section of approximately 200 x 32 mm, subdivided into three approximately equal compartments. Complete with two normal, two dedicated switched sockets and two data, two telephone sockets.	Supply	No	15	R
		Install	No	15	R
1.2	<b>Power Poles:</b> Standard Length: 3000mm Width x Depth: 131 x 60mm Material: Aluminium Finish: Powder Coated Gloss Luminaire White Only	Supply	No	10	R
		Install	No	10	R
<b>2</b>	<b>Telephone Board</b>				
	Supply and install the following telephone board as specified in the position as indicated on the drawings.				
2.1	Telephone Board	Supply	m	10	R
		Install	m	10	R
<b>3</b>	<b>Power Skirting</b>				
	Supply and install the following powers skirting in the position as indicated on the drawings.				
3.1	3-Compartment with two cover plate	Supply	m	1031	R
		Install	m	1031	R
3.2	90° bend : Inside	Supply	No	150	R
		Install	No	150	R
3.3	90° bents : Outside	Supply	No	40	R
		Install	No	40	R
3.4	End Cap	Supply	No	40	R
		Install	No	40	R
3.5	Vertical Tee Piece	Supply	No	15	R
		Install	No	15	R
3.6	16A Single Socket outlet	Supply	No	351	R
		Install	No	351	R
3.7	16A Double Socket outlet	Supply	No	0	R
		Install	No	0	R
3.7	16A Dedicated Socket outlet	Supply	No	351	R
		Install	No	351	R
3.7	Telephone Outlet - RJ11	Supply	No	150	R
		Install	No	150	R
3.8	Data Outlet - RJ45	Supply	No	150	R
		Install	No	150	R
3.9	20A 2-Pole Isolator with Cord Grip	Supply	No	20	R
		Install	No	20	R
Amount Carried To Summary					R

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**BILL NO.2**

Item	Description	Unit	QTY	Rate	Amount
<b>1</b>	<b>Socket Outlet</b> Supply and install the following 3-pin socket outlet complete with cover plate in the position as indicated on the drawings, draw boxes measured elsewhere.				
1,1	16A 3-pin single outlet	Supply Install	No No	60 60	R R
1,2	16A 3-pin double outlet	Supply Install	No No	22 22	R R
1,3	Dedicated Socket outlet	Supply Install	No No	10 10	R R
1,4	Surface Mounted Industrial Socket Complete in a Box	Supply Install	No No	35 35	R R
<b>2</b>	<b>Isolators</b> Supply and install the following isolators complete with cover plate in the position as indicated on the drawings, draw boxes measured elsewhere.				
2,1	20A 2-pole : Hot water boiler/Handdryers and Fans	Supply Install	No No	15 15	R R
2,2	30A 2-pole : Illuminated signage	Supply Install	No No	5 5	R R
2,3	30A 2-pole : AC units	Supply Install	No No	45 45	R R
2,4	30A 2-pole : Geyser	Supply Install	No No	6 6	R R
<b>3</b>	<b>Telephone</b>				
3,1	Telephone Outlet - RJ11	Supply Install	No No	5 5	R R
<b>4</b>	<b>Data</b>				
4,1	Data Outlet - RJ45	Supply Install	No No	5 5	R R
Amount Carried To Summary					R

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**BILL NO. 3**

Item	Description	Unit	QTY	Rate	Amount
<b>1</b>	<b><u>Light Switches</u></b>				
	Supply and install the following light switches complete with cover plate in the position as indicated on the drawings, draw boxes measured elsewhere.				
1,1	16A Single lever	Supply	No	10	R
		Install	No	10	R
1,2	16A Double lever	Supply	No	2	R
		Install	No	2	R
1,3	360 deg, ip20 Passive infra red vacancy/occupancy sensor switch with quick connection, override switch and mobile or remote contact configuration	Supply	No	50	R
		Install	No	50	R
1,4	360 deg, IP20 Ultra sonic vacancy/occupancy sensor switch with quick connection, override switch and mobile or remote control configuraiton	Supply	No	224	R
		Install	No	224	R
<b>2</b>	<b><u>Draw Boxes</u></b>				
	Supply and install the following pressed galvanized steel draw boxes build into brickwork, cast into concrete or build into dry wall.				
2,1	100mm x 100mm x 50mm deep	Supply	No	20	R
		Install	No	20	R
2,2	100mm x 50mm x 50mm deep	Supply	No	15	R
		Install	No	15	R
2,3	150mm x 150mm x 75mm deep	Supply	No	10	R
		Install	No	10	R
2,4	75mm diameter	Supply	No	0	R
		Install	No	0	R
2,5	Boxes for Recessed Light in Slab Ceiling	Supply	No	10	R
		Install	No	10	R
2,6	Expansion Joint Box	Supply	No	9	R
		Install	No	9	R
Amount Carried To Summary					R

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**ELECTRICAL BILL OF QUANTITIES**

**BILL NO. 4**

Item	Description	Unit	QTY	Rate	Amount
<b>1</b>	<b><u>Conduit and Accessories</u></b> Supply and install the following conduit cast into concrete or screed, chased into concrete or brickwork, and surface mounted for electrical, telephone and data installation including couplings, bushes, locknuts, cutting bending, fixing draw boxes ect in accordance with the specification.				
1,1	20mm dia PVC Conduit- Electrical	Supply Install	m m	3000 3000	R R
1,2	25mm dia Black Metal Conduit- Electrical	Supply Install	m m	0 0	R R
1,3	25mm dia PVC	Supply Install	m m	2000 2000	R R
1,4	20mm dia Galvanized - Electrical	Supply Install	m m	300 300	R R
1,5	25mm dia Galvanized - Electrical	Supply Install	m m	50 50	R R
1,6	75mm dia PVC - 90° bend	Supply Install	No No	100 100	R R
1,7	20mm Flexible conduit - PVC Steel Reinforced	Supply Install	m m	200 200	R R
1,8	20mm Flexible conduit connections	Supply Install	No No	100 100	R R
<b>2</b>	<b><u>Cover Plates</u></b> Supply and install the following blank baked enamel cover plates.				
2,1	100mm x 100mm	Supply Install	No No	15 15	R R
2,2	100mm x 50mm	Supply Install	No No	15 15	R R
Amount Carried To Summary					R

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**BILL NO. 5**

Item	Description		Unit	QTY	Rate	Amount
<b>1</b>	<b><u>PVC Insulated Wire</u></b>					
	Supply and install the following 600/1000V grade PVC insulated wire into conduit, trunking and power skirting as specified.					
1,1	1.5mm <sup>2</sup>	Supply	m	0	R	R
		Install	m	0	R	R
1,2	2,5mm <sup>2</sup>	Supply	m	5000	R	R
		Install	m	5000	R	R
1,3	4mm <sup>2</sup>	Supply	m	15000	R	R
		Install	m	15000	R	R
1,4	6mm <sup>2</sup>	Supply	m	3000	R	R
		Install	m	3000	R	R
<b>2</b>	<b><u>Earth Wire in Conduit.</u></b>					
	Supply and install the following bare stranded earth wire in conduit, trunking and power skirting.					
2,1	1,5mm <sup>2</sup>	Supply	m	0	R	R
		Install	m	0	R	R
2,2	2,5mm <sup>2</sup>	Supply	m	7000	R	R
		Install	m	7000	R	R
2,3	4mm <sup>2</sup>	Supply	m	1200	R	R
		Install	m	1200	R	R
2,4	2,5mm <sup>2</sup> - Green/Yellow insulated	Supply	m	3500	R	R
		Install	m	3500	R	R
<b>3</b>	<b><u>Dimmers</u></b>					
	Supply and install the following dimmers in the position as indicated on the drawings.					
3,1	Dimmer for 12V 50W light fittings	Supply	No	0	R	R
		Install	No	0	R	R
3,2	Dimmer - 230V 500W	Supply	No	10	R	R
		Install	No	10	R	R
<b>3</b>	<b><u>Draw Wire</u></b>					
	Supply and install draw wire in conduits for the telephone and data installation.					
3,1	Draw Wire	Supply	m	250	R	R
		Install	m	250	R	R
Amount Carried To Summary						R

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**BILL NO. 6**

Item	Description	Unit	QTY	Rate	Amount
1	<b>Luminaries</b> Supply and install the following luminaries complete with lamps and control gear as specified in the position as indicated on the drawings.				
1.1	Type A Similar or Beka Dari LED 70W 1200mm x 600mm Ceiling Panel, SANS Approved.	Supply Install	No No	459 459	R R
1.2	Type B Similar or Beka Dari LED 35W 600mm x 600mm Ceiling Panel, SANS Approved.	Supply Install	No No	58 58	R R
1.3	Type C Similar or Beka Solo LED 12W Decorative Anti Glare Downlight, SANS Approved.	Supply Install	No No	71 71	R R
1.4	Type D Similar or BEKA Dari LED 35W 600mm x 600mm Surface Mounted IP65, SANS Approved.	Supply Install	No No	15 15	R R
1.5	Type E Similar or Beka Lume LED 100W Flood Light, SANS Approved.	Supply Install	No No	30 30	R R
1.6	Type F Similar or BEKA Dari LED 70W 1200mm x 600mm Surface Mounted IP65, SANS Approved.	Supply Install	No No	27 27	R R
1.7	Type W Similar or BEKA Series 31 LED 20W Bulkhead, SANS Approved, SANS Approved.	Supply Install	No No	9 9	R R
1.8	Type X Illuminated exit sign luminaire with with 2 x PL9W lamps or latest LED Similar, SANS Approved.	Supply Install	No No	12 12	R R
1.9	Type S Similar or Beka Led Lume-Midi 80W High Performance Street Light, SANS Approved.	Supply Install	No No	12 12	R R
1.1	Type I Similar or BEKA VAPOURLINE LED 65W Industrial Luminaire, SANS Approved.	Supply Install	No No	10 10	R R
1.12	Type Ae (Emg.) Same as Type A with 1 hour Battery Back-Up	Supply Install	No No	106 106	R R
1.13	Type Be (Emg.) Same as Type B with 1 hour Battery Back-Up	Supply Install	No No	48 48	R R
1.14	Type Ce (Emg.) Same as Type C with 1 hour Battery Back-Up	Supply Install	No No	53 53	R R
1.15	Type De (Emg.) Same as Type D1 with 1 hour Battery Back-Up	Supply Install	No No	0 0	R R
1.16	Type E2 (Emg.) Same as Type E1 with 1 hour Battery Back-Up	Supply Install	No No	0 0	R R
2	<b>5A Un-switched Sockets for Luminaries.</b> Supply and install 5A un-switched sockets outlets in draw boxes and in trunking for luminaries.				
2.1	5A Un-switched socket outlet	Supply Install	No No	810 810	R R
Amount Carried To Summary					R

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**BILL NO. 7**

Item	Description	Unit	QTY	Rate	Amount
<b>1</b>	<b>Trunking - Electrical Wiring</b>				
	Supply and install trunking as specified in the position as indicated on the drawings.				
1,1	Trunking - P9000	Supply	m	1416	R
		Install	m	1416	R
1,2	Cover plate	Supply	m	1416	R
		Install	m	1416	R
1,3	90° Elbow	Supply	No	30	R
		Install	No	30	R
1,4	Tee	Supply	No	30	R
		Install	No	30	R
1,5	End Cap	Supply	No	20	R
		Install	No	20	R
1,6	4-Way	Supply	No	0	R
		Install	No	0	R
1,7	Hangers	Supply	No	0	R
		Install	No	0	R
1,8	Distribution Board Outlet	Supply	No	30	R
		Install	No	30	R
	<b>CABLE TRAY</b>				
	Cable tray, Including:				
	- bolts, nuts and washers, - coupling pieces, - earthing,				
	- mounted in service level or ceiling void or roof trusses.				
	- hangers, - bends, - supports				
1	Heavy duty cable tray: 300 mm wide	Supply	m	564	R
		Install	m	564	R
2	Horizontal bend for Heavy duty cable tray: 300 mm wide	Supply	No	18	R
		Install	No	18	R
3	Interior / Exterior bend for Heavy duty cable tray: 300 mm wide	Supply	No	9	R
		Install	No	9	R
4	Tee bend for Heavy duty cable tray: 300 mm wide	Supply	No	9	R
		Install	No	9	R
5	4 Way for Heavy duty cable tray: 300mm wide	Supply	No	18	R
		Install	No	18	R
6	Splice Set + screws for Heavy duty cable tray: 300 mm wide	Supply	No	564	R
		Install	No	564	R
7	Cover for Heavy duty cable tray: 300 mm wide	Supply	m	564	R
		Install	m	564	R
Amount Carried To Summary					R

**PART B: ELECTRICAL & ELECTRONICS**

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**BILL NO. 8**

Item	Description	Unit	QTY	Rate	Amount
1	<u>Low Voltage Cables</u> 600/1000V grade PVC/PVC/SWA/PVC stranded copper conductor cable (terminations and earth conductors elsewhere measured) Cable laid in trenching or trunking (excavations elsewhere measured)				
1,1	6mm <sup>2</sup> x 4-core	Supply Install	m m	100 100	R R
1,2	10,0mm <sup>2</sup> x 4-core	Supply Install	m m	100 100	R R
1,3	16mm <sup>2</sup> x 4-core	Supply Install	m m	150 150	R R
1,4	50mm <sup>2</sup> x 4-core	Supply Install	m m	100 100	R R
1,5	95mm <sup>2</sup> x 4-core	Supply Install	m m	200 200	R R
2	<u>Cable Terminations complete including glands, shrouds, lugs, connections and commissioning</u>				
2,1	6mm <sup>2</sup> x 4-core	Supply Install	No No	10 10	R R
2,2	10,0mm <sup>2</sup> x 4-core	Supply Install	No No	10 10	R R
2,3	16mm <sup>2</sup> x 4-core	Supply Install	No No	10 10	R R
2,4	50mm <sup>2</sup> x 4-core	Supply Install	No No	10 10	R R
2,5	70mm <sup>2</sup> to 90mm <sup>2</sup> x 4-core	Supply Install	No No	10 10	R R
3	<u>SLEEVES</u>				
3,1	110mm dia	Supply Install	m m	200 200	R R
3,2	75mm dia	Supply Install	m m	100 100	R R
3,3	50mm dia	Supply Install	m m	150 150	R R
3,4	32mm dia	Supply Install	m m	300 300	R R
Amount Carried To Summary					R



**PART B: ELECTRICAL & ELECTRONICS**

**ELECTRICAL BILL OF QUANTITIES**

**BILL NO. 9**

Item	Description	Unit	QTY	Rate	Amount
1	<b><u>Bare Stranded Copper Earth Wire strapped to Cables (terminations elsewhere measured)</u></b>				
1.1	35,0mm <sup>2</sup>	Supply	m	100	R
		Install	m	100	R
1.2	6,0mm <sup>2</sup>	Supply	m	200	R
		Install	m	200	R
1.3	10,0mm <sup>2</sup>	Supply	m	100	R
		Install	m	100	R
1.4	35,0mm <sup>2</sup>	Supply	m	150	R
		Install	m	150	R
1.5	70,0mm <sup>2</sup>	Supply	m	200	R
		Install	m	200	R
2	<b><u>Bare Stranded Copper Earth Wire Terminations complete including drilling, bolting, lugs, connections and commissioning</u></b>				
2.1	6mm <sup>2</sup>	Supply	m	6	R
		Install	m	6	R
2.2	10,0mm <sup>2</sup>	Supply	m	6	R
		Install	m	6	R
2.3	35,0mm <sup>2</sup>	Supply	m	10	R
		Install	m	10	R
2.4	70,0mm <sup>2</sup>	Supply	m	10	R
		Install	m	10	R
	<b>WIRE MESH CABLE TRAY</b>				
	<b><u>Cable ladder or Cable tray. Including:</u></b>				
	<b><u>- bolts, nuts and washers, - coupling pieces, - earthing,</u></b>				
	<b><u>- mounted in service level or ceiling void or roof trusses,</u></b>				
	<b><u>- hangers, - bends, - supports</u></b>				
1	Heavy duty Wire Mesh cable tray: 300 mm wide	Supply	m	1104	R
		Install	m	1104	R
2	Horizontal bend for Heavy duty Wire Mesh cable tray: 300 mm wide	Supply	m	18	R
		Install	m	18	R
3	Interior / Exterior bend for Heavy duty Wire Mesh cable tray: 300 mm wide	Supply	m	9	R
		Install	m	9	R
4	Tee bend for Heavy duty Wire Mesh cable tray: 300 mm wide	Supply	m	9	R
		Install	m	9	R
5	4 Way for Heavy duty Wire Mesh cable tray: 300 mm wide	Supply	m	9	R
	Material	Supply	m	9	R
	Labour	Install	m	9	R
Amount Carried To Summary					R

**NOTE: ALL RATES AND PRICES EXCLUDE 14% VAT.  
VAT WILL BE ADDED IN THE FINAL SUMMARY OF BILLS  
OF QUANTITIES, I.E. IN THE BUILDER'S TENDER**

**PART B: ELECTRICAL & ELECTRONICS**

**ELECTRICAL BILL OF QUANTITIES**

**BILL NO. 10**

Item	Description	Unit	QTY	Rate	Amount
	<b>EXCAVATIONS</b>				
	<b>Excavate for cable and sleeve trench including temporary support of sides, keeping excavations dry, backfilling and compacting to the Engineer's specification</b>				
1	Pickable Soil	m <sup>3</sup>	50	R	R
2	For Soft Rock	m <sup>3</sup>	30	R	R
3	For Hard Rock	m <sup>3</sup>	30	R	R
4	Bedding under and filling around cables comprising sifted sand	m <sup>3</sup>	100	R	R
	<b>CABLE MARKERS</b>				
5	PVC warning marking tape	m	400	R	R
6	Concrete route markers	No.	10	R	R
	<b>MANHOLES</b>				
	<b>Including Steel Covers Matching the Existing</b>				
7	600 x 600 x 800 mm Deep	No.	4	R	R
Amount Carried To Summary					R

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**PART B: ELECTRICAL & ELECTRONICS**

**ELECTRICAL BILL OF QUANTITIES**

**BILL NO. 11**

Item	Description	Unit	QTY	Rate	Amount
1	<b>LV Cables</b>  Supply and installation of multi-core PVC/PVC/SWA/PVC copper conductor cable to SABS 1507. Cables laid in ducts or trenches or sleeves, and fixing support. Cable trenches, ducts, sleeves and terminations measured elsewhere  <b>NB: Earth Concentric Cable (ECC Cable)</b>				
1,1	6 mm <sup>2</sup> x 4-core, ECC Copper Cable	Supply	25	R	R
		Install	25	R	R
1,2	10 mm <sup>2</sup> x 4-core, ECC Copper Cable	Supply	0	R	R
		Install	0	R	R
1,3	16 mm <sup>2</sup> x 4-core, ECC Copper Cable	Supply	100	R	R
		Install	100	R	R
1,4	25 mm <sup>2</sup> x 4-core, ECC Copper Cable	Supply	0	R	R
		Install	0	R	R
1,5	35 mm <sup>2</sup> x 4-core, ECC Copper Cable	Supply	100	R	R
		Install	100	R	R
1,6	50 mm <sup>2</sup> x 4-core, ECC Copper Cable	Supply	0	R	R
		Install	0	R	R
1,7	70 mm <sup>2</sup> x 4-core, ECC Copper Cable	Supply	200	R	R
		Install	200	R	R
1,8	95 mm <sup>2</sup> x 4-core, ECC Copper Cable	Supply	0	R	R
		Install	0	R	R
1,9	120 mm <sup>2</sup> x 4-core, ECC Copper Cable	Supply	200	R	R
		Install	200	R	R
1,2	185 mm <sup>2</sup> x 4-core, ECC Copper Cable	Supply	0	R	R
		Install	0	R	R
Amount Carried To Summary					R

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**ELECTRICAL BILL OF QUANTITIES**

**BILL NO. 12**

Item	Description	Unit	QTY	Rate	Amount	
	<b>Termination of cable ends (of armoured copper cable) onto switchgear or distribution boards. The rate shall include all labour and material for making off of one cable end, complete with gland and weather tight shroud, lugs and connecting of conductors.</b>					
1,1	6 mm2 x 4-core, ECC Copper Cable	Supply	No	10	R	R
		Install	No	10	R	R
1,2	10 mm2 x 4-core, ECC Copper Cable	Supply	No	0	R	R
		Install	No	0	R	R
1,3	16 mm2 x 4-core, ECC Copper Cable	Supply	No	10	R	R
		Install	No	10	R	R
1,4	25 mm2 x 4-core, ECC Copper Cable	Supply	No	0	R	R
		Install	No	0	R	R
1,5	35 mm2 x 4-core, ECC Copper Cable	Supply	No	0	R	R
		Install	No	0	R	R
1,6	50 mm2 x 4-core, ECC Copper Cable	Supply	No	0	R	R
		Install	No	0	R	R
1,7	70 mm2 x 4-core, ECC Copper Cable	Supply	No	10	R	R
		Install	No	10	R	R
1,8	95 mm2 x 4-core, ECC Copper Cable	Supply	No	0	R	R
		Install	No	0	R	R
1,9	120 mm2 x 4-core, ECC Copper Cable	Supply	No	10	R	R
		Install	No	10	R	R
1,2	185 mm2 x 4-core, ECC Copper Cable	Supply	No	0	R	R
		Install	No	0	R	R
Amount Carried To Summary						R

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**SECTION 3.2.A: GENERAL ELECTRICAL INSTALLATIONS**

**ELECTRICAL BILL OF QUANTITIES**  
**BILL NO. 13**

Item	Description	Unit	QTY	Rate	Amount
1	<b>PROVISIONAL AMOUNTS</b>				
1.1	<u>Provision for Servicing of Distribution Boards, Testing and Issuing C.O.C's</u>				R 200 000,00
1.2	<u>Provision for Security Systems: Access Control Systems</u>				R 3 000 000,00
1.3	<u>Provision for Security Systems: CCTV System</u>				R 4 000 000,00
1.4	<u>Provision for Security Systems: PA System</u>				R 350 000,00
1.5	<u>Provision for Telephone and Data Cabling</u>				R 250 000,00
1.6	<u>Provision for Lightning Protection Systems</u>				R 250 000,00
1.7	<u>Provision for Solar Systems</u>				R 4 000 000,00
	<i>Atendance and Profit on the above PC amounts</i>		R 12 050 000,00	(.....%)	R
2	<b><u>As Built Drawings.</u></b>				
	Supply the engineer with as build drawings as specified.				
2.1	As Build Drawings.	Set	1	R	R
3	<b><u>Testing and Commisioning</u></b>				
3.1	Comprehensive service and maintenance during the 12 months guarantee period including spare materials	Item	Sum	R	R
3.2	Stripping of Existing Electrical Installation as Identified in the Room Data Sheet. This shall include the Power Isolation and moving the stripped material off site or handing over to the client.	Item	Sum		R
Amount Carried To Summary					R

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**PART B: ELECTRICAL & ELECTRONICS**

**ELECTRICAL BILL OF QUANTITIES**

**SUMMARY BILLS OF QUANTITIES**

**ELECTRICAL INSTALLATION**

ITEM	DESCRIPTION	PAGE	AMOUNT
1	Total of Bill No 1 (Distribution Boards & Power Skirting)		
2	Total of Bill No 2 (Socket Outlets)		
3	Total of Bill No 3 (Switches, Occupancy Sensor Switches and Draw Boxes)		
4	Total of Bill No 4 (Conduit and Accessories)		
5	Total of Bill No 5 (Wires)		
6	Total of Bill No 6 (Light Fittings, LED energy Saving)		
7	Total of Bill No 7 (Wiring Channel/Ways)		
8	Total of Bill No 8 (Cabling)		
9	Total of Bill No 9 (Earth Wires)		
10	Total of Bill No 10 (Excavations)		
11	Total of Bill No 11 (Earth Concentric Cable (ECC Cable)		
12	Total of Bill No 12 (Cable Terminations)		
13	Total of Bill No. 13 (Provisional Sums)		
14	Total - Summary		
15	Preliminary and General (P&G) Also allow for the scaffolding and any other necessities for executing the works.		R
16	<b>Budgetary allowance for Remeasure</b>		R 500 000,00
17	<b>TOTAL Excl. VAT - Carried to final summary (Part 4)</b>		<b>R</b>

NOTE: ALL RATES AND PRICES EXCLUDE 14% VAT.  
VAT WILL BE ADDED IN THE FINAL SUMMARY OF BILLS  
OF QUANTITIES, I.E. IN THE BUILDER'S TENDER