

## BILL NO.21

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<b><u>SCHEDULE NO.21</u></b>				
	<b><u>ELECTRICAL</u></b>				
	<b>EARTHING SYSTEM</b>				
	NOTE TO THE USER OF MODEL BILL:				
	a) Use description as in Section No 4 of this Model Bill for conduits, boxes, etc.				
21.1	EARTHING SYSTEM				
	<b>Bare Stranded Copper Earth Wire</b>				
	<u>Supply, delivery and installation of bare stranded copper fixed to cable tray or rack (tray measured elsewhere):</u>				
21.1.1	70mm <sup>2</sup>	m	1	103.72	103.72
				-	
21.1.2	50mm <sup>2</sup>	m	1	70.97	70.97
				-	
21.1.3	25mm <sup>2</sup>	m	1	52.41	52.41
				-	
21.1.4	16mm <sup>2</sup>	m	1	38.21	38.21
				-	
21.1.5	10mm <sup>2</sup>	m	1	27.30	27.30
				-	
21.1.6	6mm <sup>2</sup>	m	1	9.28	9.28
				-	
21.1.7	4mm <sup>2</sup>	m	1	7.10	7.10
				-	
21.1.8	2.5mm <sup>2</sup>	m	1	6.55	6.55
				-	
	<u>Supply, delivery and installation of terminations including fastening materials and lugs, and the connection to the specified terminal equipment:</u>			-	
				-	
21.1.9	70mm <sup>2</sup>	no	1	125.56	125.56
				-	
21.1.10	50mm <sup>2</sup>	no	1	87.34	87.34
				-	
21.1.11	25mm <sup>2</sup>	no	1	81.89	81.89
				-	
21.1.12	16mm <sup>2</sup>	no	1	60.05	60.05
				-	
21.1.13	10mm <sup>2</sup>	no	1	30.57	30.57

BILL OF MATERIALS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
				-	
21.1.14	6mm2	no	1	27.30	27.30
				-	
21.1.15	4mm2	no	1	21.84	21.84
				-	
21.1.16	2.5mm2	no	1	21.84	21.84
				-	
	<b><u>LIGHTING AND SMALL POWER</u></b>			-	
				-	
	<b>CONDUITS</b>			-	
				-	
21.2	<b>PVC CONDUIT</b>			-	
	Supply, deliver and install of conduit including bushes, couplings, saddles, bends, wastage etc			-	
				-	
	<u>Surface mounted to brickwork, concrete, steel, wood, roof members, etc exceeding 3000mm above floor level</u>			-	
				-	
21.2.1	20mm Diameter	m	1	16.38	16.38
				-	
21.2.2	25mm Diameter	m	1	24.02	24.02
				-	
21.2.3	50mm Diameter	m	1	34.94	34.94
				-	
	<u>Chased and/or fixed in brickwork not exceeding 3000mm above floor level (making good of chase by others)</u>			-	
				-	
21.2.4	20mm Diameter	m	1	49.13	49.13
				-	
21.2.5	25mm Diameter	m	1	60.05	60.05
				-	
21.2.6	50mm Diameter	m	1	81.89	81.89
				-	
21.3	<b>GALVANISED CONDUIT</b>			-	
	<u>Surface mounted to brickwork, concrete, steel, wood, roof members, etc exceeding 3000mm above floor level</u>			-	
				-	
21.3.1	20mm Diameter	m	1	53.75	53.75
				-	
21.3.2	25mm Diameter	m	1	68.46	68.46
				-	
	<b>LIGHTING AND SMALL POWER</b>			-	
				-	
21.4	<b>CONDUIT BOXES AND FITTINGS</b>			-	

BILL NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
				-	
21.4.1	Cover plate for 100mm x 100mm box	No	1	49.13	49.13
				-	
21.4.2	Cover plate for 100mm x 50mm box	No	1	32.75	32.75
				-	
21.5	<b>POWER SKIRTING</b>			-	
	Note:			-	
	The rates include for splices, joining, drilling, etc			-	
	Power skirting complete with cover surface mounted to brickwork or concrete			-	
				-	
21.5.1	One-compartment	m	1	382.34	382.34
				-	
21.5.2	Two-compartment	m	1	444.36	444.36
				-	
21.5.3	16A Normal power sso on power skirting,complete with pre-punched cover	m	1	117.70	117.70
				-	
21.5.4	16A Normal power sso on power skirting.complete with pre punched cover.	m	1	156.13	156.13
				-	
21.5.5	16A DUO SSO IN Powerskirting	m	1	247.11	247.11
				-	
21.5.6	16A Red dedicated	m	1	174.14	174.14
				-	
21.5.7	20A DP Isollator c/w cord grip in power skirting	m	1	180.44	180.44
				-	
21.5.8	One-compartment end cap	No	1	107.51	107.51
				-	
21.5.9	Two-compartment end cap	No	1	163.77	163.77
				-	
21.5.10	One-compartment 90 degree bend	No	1	234.01	234.01
				-	
				-	
21.6	<b>SWITCHES AND PLUGS</b>			-	
	<u>Switches, etc complete with cover plate fixed in flush box</u>			-	
				-	
21.6.1	16A One-lever one-way switch	No	1	97.17	97.17
				-	
21.6.2	16A Two-lever one-way switch	No	1	114.64	114.64
				-	
21.6.3	16A Three-lever one-way switch	No	1	120.10	120.10
				-	
21.6.4	16A Four-lever one-way switch	No	1	180.15	180.15
				-	

BILL OF MATERIALS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
21.6.5	16A One-lever two-way switch	No	1	103.72	103.72
				-	
21.6.6	16A Two-lever two-way switch	No	1	117.91	117.91
				-	
21.6.7	2 Lever / 3 Lever - Grid plate with surround	No	1	46.40	46.40
				-	
21.6.8	2x4 Grid Plate with surround	No	1	60.05	60.05
				-	
21.6.9	4x4 Grid Plate with surround	No	1	70.97	70.97
				-	
21.6.10	16A Three-pin Single switched socket outlet	No	1	132.11	132.11
				-	
21.6.11	16A Three-pin Double switched socket outlet	No	1	180.15	180.15
				-	
21.6.12	Round Three pin socket outlet	No	1	62.78	62.78
				-	
21.6.13	Bell push button complete with surround	No	1	100.99	100.99
				-	
21.6.14	16A One lever dimmer switch	No	1	349.38	349.38
				-	
21.6.15	Single telephone socket outlet (RJ11) complete with surround	No	1	199.25	199.25
				-	
21.6.16	Single TV socket outlet complete with surround	No	1	204.17	204.17
				-	
21.6.17	16 A 1-way Light switch insert	No	1	60.05	60.05
				-	
21.6.18	16 A 2-way Light switch insert	No	1	70.97	70.97
				-	
21.6.19	"4 x 4" Extension box with spouts	No	1	60.05	60.05
				-	
21.6.20	"4 x 2" Extension box with spouts	No	1	49.13	49.13
				-	
21.6.21	Stove one-way switch	No	1	131.02	131.02
				-	
	<b>WIRING</b>			-	
				-	
	<u>Supply, delivery and installation of cables</u>			-	
				-	
	<b>21.7 PVC Multicore Armored Cable</b>			-	
				-	
21.7.1	4 mm 3-core	m	1	46.08	46.08
				-	
21.7.1a	2.5 mm 3-core	m	1	32.54	32.54
				-	
21.7.1b	2.5 mm 4-core	m	1	38.03	38.03
				-	
21.7.1c	4 mm 4-core	m	1	52.88	52.88

BILL OF MATERIALS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
				-	
21.7.1d	6 mm 3-core	m	1	60.31	60.31
				-	
21.7.1e	6 mm 4-core	m	1	74.37	74.37
				-	
21.7.2	10 mm 3-Core	m	1	86.84	86.84
				-	
21.7.3	10 mm 4-Core	m	1	108.78	108.78
				-	
21.7.4	16 mm 3-Core	m	1	111.34	111.34
				-	
21.7.5	16 mm 4-Core	m	1	138.67	138.67
				-	
21.7.5a	25 mm 3-Core	m	1	170.68	170.68
				-	
21.7.5b	25 mm 4-Core	m	1	215.08	215.08
				-	
21.7.6	35 mm 3-Core	m	1	237.98	237.98
				-	
21.7.6a	35 mm 4-Core	m	1	299.53	299.53
				-	
21.7.7	70 mm 3-Core	m	1	455.62	455.62
				-	
21.7.7a	70 mm 4-Core	m	1	566.79	566.79
				-	
21.7.8	95 mm 4-Core	m	1	596.26	596.26
				-	
				-	
				-	
				-	
<b>21.8</b>	<b>Flexible Cable and Cord</b>				
21.8.1	1.5mm2 twin rip cord	m	1	17.18	17.18
				-	
21.8.2	2.5mm2 twin rip cord	m	1	23.72	23.72
				-	
21.8.3	1.5mm2 PVC carb tyre flex 3-core	m	1	22.91	22.91
				-	
21.8.4	2.5mm2 PVC carb tyre flex 3-core	m	1	30.18	30.18
				-	
21.8.5	4mm2 PVC carb tyre flex 3-core	m	1	48.85	48.85
				-	
21.8.6	6mm2 PVC carb tyre flex 3-core	m	1	84.45	84.45
				-	
21.8.7	1.5mm2 Suffix Cable 3-core and earth	m	1	26.33	26.33
				-	
21.8.8	2.5mm2 Suffix Cable 3-core and earth	m	1	32.34	32.34
				-	
21.8.9	4.0mm2 Suffix Cable 3-core and earth	m	1	43.92	43.92
				-	
21.8.10	6.0mm2 Suffix Cable 3-core and earth	m	1	59.46	59.46

BILL OF MATERIALS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
				-	
21.8.11	1.5mm2 Suffix Cable 4-core and earth	m	1	29.00	29.00
				-	
21.8.12	2.5mm2 Suffix Cable 2-core and earth	m	1	27.59	27.59
				-	
21.8.13	6.0mm2 Suffix Cable 2-core and earth	m	1	49.34	49.34
				-	
21.8.14	1.5mm2 Flat twin and earth	m	1	21.08	21.08
				-	
21.8.15	2.5mm2 Flat twin and earth	m	1	25.65	25.65
				-	
21.8.16	4.0mm2 Flat twin and earth	m	1	35.29	35.29
				-	
21.8.17	6.0mm2 Flat twin and earth	m	1	46.48	46.48
				-	
21.9	<b>LIGHT FITTINGS</b>			-	
	Supply and install luminaires or equipment complete with lamps, connections, etc mounted in position			-	
				-	
21.9.1	2 # 1200mm Surface florescent	No	1	716.34	716.34
				-	
21.9.2	2 # 1500mm Surface florescent	No	1	764.26	764.26
				-	
21.9.3	2 # 18W Round bulkhead	No	1	354.84	354.84
				-	
21.9.4	2 # 18W Square bulkhead	No	1	382.13	382.13
				-	
21.9.5	CFL light fitting for energy lights wall mounted	No	1	382.13	382.13
				-	
21.9.6	4FT - CFL CFL Flourescent light for eneregy lights	No	1	600.49	600.49
				-	
21.9.7	30W MH Highbay	No	1	2 083.15	2 083.15
				-	
21.9.8	50W MH Highbay	No	1	2 456.55	2 456.55
				-	
21.9.9	70W Mecury Vapour Floodlight	No	1	818.85	818.85
				-	
21.9.10	400W Mecury Vapour Floodlight	No	1	1 170.96	1 170.96
				-	
21.9.11	Flourescent lights starters: 220..240v	No	1	245.66	245.66
				-	
21.9.12	Photo cells	No	1	235.39	235.39
				-	
21.9.13	Poly bulkhead	No	1	120.10	120.10
				-	

BILL NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
21.9.14	60W down light	No	1	223.82	223.82
				-	
21.9.15	125W Mecury Vapour Reef light	No	1	1 255.62	1 255.62
				-	
21.9.16	250W HPS Flood Light	No	1	1 175.30	1 175.30
				-	
21.9.17	400W HPS Flood Light	No	1	1 390.37	1 390.37
				-	
21.9.18	125W Pole Mounted Street Light	No	1	2 017.65	2 017.65
				-	
21.9.17a	1000W HPS Flood Light	No	1	6 475.47	6 475.47
				-	
	<b><u>LED LIGHT FITTINGS</u></b>			-	
				-	
	<b><u>"BEKA" OR EQUALLY APPROVED</u></b>			-	
				-	
21.9.17b	LEDflood48/117N1600A1G	No	1	7 447.76	7 447.76
				-	
21.9.17c	LEDflood60/145N1600A1G	No	1	8 193.18	8 193.18
				-	
21.9.18a	EC 35.1140-18W LED downlight, C/W LED engine and driver	No	1	2 652.46	2 652.46
				-	
21.9.19	BEKA T-BAY 4 x FQ53W/940, medium beam complete with lamps	No	1	2 662.40	2 662.40
				-	
21.9.20	Vapourlux 280 EVG, T5 complete with lamp (Alternative Ecolux 2 x 80W T5)	No	1	1 835.57	1 835.57
				-	
21.9.21	Ecolux 2 x 58W, electronic ballast complete with lamp	No	1	1 161.81	1 161.81
				-	
21.9.22	"Bekabulk" 12 LED, colour: RAL 7045 Telegrey 1	No	1	2 811.71	2 811.71
				-	
21.10.	<b>LIGHT BULBS AND GLOBES</b>			-	
				-	
	<b><u>Changing light bulbs/globes with energy saving bulbs</u></b>			-	
				-	
21.10.1a	60 W Bulb	no	1	27.30	27.30
				-	
21.10.1	100 W Bulb	no	1	27.30	27.30
				-	
21.10.2	4FT Florascent bulb	no	1	43.67	43.67
				-	
21.10.3	5FT Florascent bulb	no	1	45.86	45.86
				-	
21.10.4	8FT Florascent bulb	no	1	65.51	65.51

BILL OF MATERIALS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
				-	
21.10.5	Ballast 220V DBL 75W	no	1	382.13	382.13
				-	
21.10.6	200W Mercury bulb	no	1	545.90	545.90
				-	
21.10.7	125W Mercury bulb	no	1	115.53	115.53
				-	
21.10.8	400 W Mecury bulb	no	1	545.90	545.90
				-	
21.10.9	60W downlight bulb	no	1	52.84	52.84
				-	
21.11	<b>LIGHTNING PROTECTION SYSTEMS</b>			-	
	Installed in accordance with the latest SANS Codes of Practise 10199 (2004) and 10313 (2008) in conjunction with SANS 62305-1-2-3-4: 2007 and IEC 62305-1-2-3-4 :2006			-	
	Conductors, etc			-	
				-	
21.11.1	Reinforced concrete bonding terminal	No	1	545.90	545.90
				-	
21.11.2	Earth electrode test joint	No	1	327.54	327.54
				-	
21.11.3	Tail type bonding terminal fixed to concrete reinforcing rods	No	1	873.44	873.44
				-	
				-	
21.12	<b>DISTRIBUTION BOARDS</b>			-	
				-	
	<u>Flushand Surface Mounted Distibution Boards</u>			-	
				-	
	12-Way Steel Distribution Board, complete with 1 Plastic Cover and 1 Steel Tray (Mini Rail) Flush Mounted	No	1	709.67	709.67
				-	
21.12.2	12-Way Steel Distribution Board, complete with 1 Steel Cover and 1 Steel Tray (Mini Rail) Flush Mounted	No	1	709.67	709.67
				-	
21.12.3	13-Way DMC Polyester Flush Distibution Board adjustable with plaster Gauge, 1 Polyester Cover and 1 Polyester Tray (Mini Rail) Flush and Surface Mounted	No	1	709.67	709.67
				-	
21.12.4	13-Way Surface Mount Distibution Board (Mini Rail) Surface Mounted	No	1	600.49	600.49
				-	



BILL OF MATERIALS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
21.12.5	20-Way Steel Distribution Board, complete with 1 Steel Cover and 1 Steel Tray (Mini Rail) Flush Mounted	No	1	928.03	928.03
				-	
21.12.6	20-Way Steel Distribution Board, complete with 1 Steel Cover and 1 Steel Tray (Mini Rail) Flush Mounted	No	1	928.03	928.03
				-	
21.12.7	40-Way Architrave Board (2x20-Way and Tray)	No	1	2 294.96	2 294.96
				-	
21.12.8	60-Way Architrave Board (3 x 20-Way and Tray)	No	1	2 768.80	2 768.80
				-	
21.12.9	Labelling of DB Board (per label)	No	1	1.09	1.09
				-	
21.13	<b><u>CIRCUIT BREAKERS</u></b>			-	
	<u>Fully Installed complete to DB including interconnecting cables</u>			-	
	<b>Residential - 13mm Hydraulic Magnetic:</b>			-	
	<u>Single Pole</u>			-	
21.13.1	5A (3kA) 1-Pole mcb's	No	1	247.40	247.40
				-	
21.13.2	10A, 15A, 20A (3kA) 1-Pole mcb's	No	1	254.61	254.61
				-	
21.13.3	25A, 30A, 35A, 40A (3kA) 1-Pole mcb's	No	1	288.24	288.24
				-	
21.13.4	40A, 50A, 60A (3kA) 1-Pole mcb's	No	1	302.65	302.65
				-	
21.13.4a	80A (3kA) 1-Pole mcb's	No	1	448.73	448.73
				-	
21.13.4b	100A (3kA) 1-Pole mcb's	No	1	520.79	520.79
				-	
	<u>Double Pole</u>			-	
21.13.5	5A (3kA) 2-Pole mcb's	No	1	943.97	943.97
				-	
21.13.6	10A, 15A, 20A (3kA) 2-Pole mcb's	No	1	970.39	970.39
				-	
21.13.7	25A, 30A, 35A, 40A (3kA) 2-Pole mcb's	No	1	1 008.82	1 008.82
				-	
21.13.8	40A, 50A, 60A (3kA) 2-Pole mcb's	No	1	1 073.68	1 073.68
				-	
21.13.8a	80A (3kA) 2-Pole mcb's	No	1	1 908.47	1 908.47
				-	
21.13.8b	100A (3kA) 2-Pole mcb's	No	1	1 908.47	1 908.47
				-	
	<u>Tripple Pole</u>			-	
21.13.8c	5A (3kA) 3-Pole mcb's	No	1	1 395.54	1 395.54

BILL OF MATERIALS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
				-	
21.13.8d	10A, 15A, 20A (3kA) 3-Pole mcb's	No	1	1 515.64	1 515.64
				-	
21.13.8f	25A, 30A, 35A, 40A (3kA) 3-Pole mcb's	No	1	1 539.66	1 539.66
				-	
21.13.8g	40A, 50A, 60A (3kA) 3-Pole mcb's	No	1	1 585.29	1 585.29
				-	
	<u>Single Pole and Neutral</u>			-	
				-	
21.13.9	5A (3kA) 1-Pole + N mcb's	No	1	667.74	667.74
				-	
21.13.10	10A, 15A, 20A, (3kA) 1-Pole + N mcb's	No	1	667.74	667.74
				-	
21.13.11	25A, 30A, 35A, 40A, 50A (3kA) 1-Pole + N mcb's	No	1	710.98	710.98
				-	
21.13.12	60A (3kA) 1-Pole + N mcb's	No	1	720.59	720.59
				-	
	<u>Tripple Pole and Neutral</u>			-	
				-	
21.13.13	5A, 10A, 15A, 20A, 25A (3kA) 3-Pole + N mcb's	No	1	1 813.48	1 813.48
				-	
21.13.14	30A, 35A, 40A, 50A (3kA) 1-Pole + N mcb's	No	1	1 854.31	1 854.31
				-	
	<b>Commercial / Industrial- 13mm Hydraulic Magnetic:</b>			-	
	<u>Single Pole</u>			-	
21.13.15	5A (6kA) 1-Pole mcb's	No	1	271.42	271.42
				-	
21.13.16	10A, 15A, 20A (6kA) 1-Pole mcb's	No	1	278.63	278.63
				-	
21.13.17	25A (6kA) 1-Pole mcb's	No	1	309.85	309.85
				-	
	<u>Double Pole</u>			-	
21.13.18	5A (6kA) 2-Pole mcb's	No	1	1 028.04	1 028.04
				-	
21.13.19	10A, 15A, 20A (6kA) 2-Pole mcb's	No	1	1 056.86	1 056.86
				-	
21.13.20	25A (6kA) 2-Pole mcb's	No	1	1 150.54	1 150.54
				-	
	<u>Tripple Pole</u>			-	
21.13.21	5A (6kA) 3-Pole mcb's	No	1	1 647.74	1 647.74
				-	
21.13.22	10A, 15A, 20A (6kA) 3-Pole mcb's	No	1	1 609.31	1 609.31
				-	

BILL OF MATERIALS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
21.13.23	25A (6kA) 3-Pole mcb's	No	1	1 681.37	1 681.37
	<u>Single Pole and Neutral</u>			-	-
21.13.24	5A, 10A, 15A, 20A (6kA) 1-Pole + N mcb's	No	1	725.39	725.39
21.13.25	25A (6kA) 1-Pole + N mcb's	No	1	771.03	771.03
	<u>Tripple Pole and Neutral</u>			-	-
21.13.26	5A, 10A, 15A, 20A (6kA) 3-Pole + N mcb's	No	1	1 974.41	1 974.41
21.13.27	25A (6kA) 3-Pole + N mcb's	No	1	2 041.67	2 041.67
21.14	<b>ISOLATORS / SWITCH CONNECTORS</b>			-	-
21.14.1	63A (3kA) 1-Pole Isolator	No	1	245.00	245.00
21.14.2	63A (3kA) 2-Pole Isolator	No	1	490.00	490.00
21.14.3	63A (3kA) 3-Pole Isolator	No	1	754.22	754.22
21.14.4	63A (3kA) 4-Pole Isolator	No	1	948.77	948.77
21.14.5	63A (6kA) 1-Pole Isolator	No	1	285.83	285.83
21.14.6	63A (6kA) 2-Pole Isolator	No	1	533.24	533.24
21.14.7	63A (6kA) 3-Pole Isolator	No	1	833.48	833.48
21.14.8	63A (6kA) 4-Pole Isolator	No	1	1 068.87	1 068.87
21.14.9	100A (6kA) 1-Pole Isolator	No	1	533.24	533.24
21.14.10	100A (6kA) 2-Pole Isolator	No	1	1 023.23	1 023.23
21.14.11	100A (6kA) 3-Pole Isolator	No	1	1 690.98	1 690.98
21.14.12	100A (6kA) 4-Pole Isolator	No	1	2 253.04	2 253.04
21.15	<b>EARTH LEAKAGE PROTECTION</b>			-	-
21.15.1	63A (N/A) 1-Pole + N	No	1	1 095.62	1 095.62
21.15.2	63A (3kA) 1-Pole + N	No	1	2 233.82	2 233.82

BILL OF MATERIALS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
				-	
21.15.3	63A (N/A) 3-Pole + N	No	1	2 328.81	2 328.81
				-	
21.15.4	63A (3kA) 3-Pole + N	No	1	4 064.77	4 064.77
				-	
21.15.5	63A (6kA) 1-Pole + N	No	1	2 680.91	2 680.91
				-	
21.15.6	100A (6kA) 1-Pole + N	No	1	3 756.88	3 756.88
				-	
21.15.7	63A (6kA) 3-Pole + N	No	1	4 300.60	4 300.60
				-	
21.15.8	80A (6kA) 3-Pole + N	No	1	6 080.78	6 080.78
				-	
21.15.9	100A (6kA) 1-Pole + N	No	1	2 900.37	2 900.37
				-	
21.16	<b>STOVES</b>			-	
				-	
	<u>Supply and install Domestic Cable stove including a 2-year warranty and guarantee</u>			-	
				-	
	<b>Free Standing Stoves</b>			-	
				-	
	Free standing Defy or equivalent 4-plate compact electric stove. Dimensions Height : 975 , Width : 500, Depth : 620 Features				
	•4 Solid plates				
	•Static oven with 3 function selector switch				
21.16.1	•Easy clean enamel oven interior	No	1	4 476.38	4 476.38
	•57 Litre oven capacity				
	•Temperature range 70°C to 230°C				
	•Air-cooled oven door				
	•1 Chrome-plated oven shelf				
	•Roasting pan				
				-	
	Free standing Defy or equivalent 3-plate compact electric plug in stove. Dimensions: Height : 975, Width : 500, Depth : 620. Features: •3 Solid plates ,				
21.16.2	Static oven with 3 function selector switch, Easy clean enamel oven interior, 57 Litre oven capacity , Temperature range 70°C to 230°C, Air-cooled oven door , 1 Chrome-plated oven shelf, Roasting pan	No	1	3 766.71	3 766.71
				-	
	<b>Built in stoves</b>			-	
	<u>Supply, deliver and installation complete:</u>			-	
				-	

BILL NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
21.16.3	Built in Defy Model DHD 316/S/S DHD 319 or equivalent 2-plate HOB. Solid plates, control knobs and switch indicator lights. Dimensions: Length: 510, Width: 288, Depth: 71mm. Built in cupboard measured elsewhere.	No	1	1 146.39	1 146.39
				-	
21.16.4	Built in Defy Model BLK DHD 332 or equivalent 4-plate HOB. Solid plates. Dimensions: Length: 592, Width: 500, Depth: 60mm. Built in cupboard measured elsewhere. Connected with built in Oven	No	1	1 637.70	1 637.70
				-	
21.16.5	Built in Defy Model BLK DHD 330 or equivalent 4-plate HOB. Solid plates, plate indicator lights, vitreous enamel panel with control knobs (6-heat options). Dimensions: Length: 592, Width: 500, Depth: 90mm. Built in cupboard measured elsewhere.	No	1	1 910.65	1 910.65
				-	
21.16.5	Built in Defy Model: BLK DBO451 or equivalent slimline oven. Static oven with grill and baking functions. Ringer timer, Oven light, Oven Thermostat, Plate Pilot lights and adjustable chrome lights	No	1	3 111.63	3 111.63
				-	
21.16.6	Miscellaneous: Solid plate 6inch- r-dot 4mm b-trim	No	1	263.67	263.67
				-	
21.16.7	Solid plate 8inch- r-dot 4mm b-trim	No	1	334.09	334.09
				-	
21.16.8	Stove fuse 10amp	No	1	92.69	92.69
				-	
21.16.9	Stove fuse 15amp	No	1	97.06	97.06
				-	
21.16.10	Stove fuse 20amp	No	1	97.06	97.06
				-	
21.16.11	Stove fuse 25amp	No	1	96.84	96.84
				-	
21.16.12	Stove fuse 30amp	No	1	92.69	92.69
				-	
21.16.13	Fuse holder twin screw	No	1	317.71	317.71
				-	
21.16.14	Stove knob	No	1	97.17	
				-	
				-	
21.17	<b>CONNECTIONS</b>			-	
				-	
				-	
				-	0.00
	NOTE TO USER OF MODEL BILL:			-	

BILL OF MATERIALS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
				-	
	These items are for connecting geysers, stoves, etc			-	
				-	
21.17.1	Geyser connection	no	1	152.19	152.19
				-	
21.17.2	Stove connection	no	1	254.51	254.51
				-	
21.17.3	Handryer connection	no	1	152.19	152.19
				-	
21.17.4	Gate motor connection	no	1	382.13	382.13
				-	
21.7.5	Air conditioning connection	no	1	382.13	382.13
				-	
21.18	<b>SUNDRIES</b>			-	
				-	
21.18.1	Testing and commissioning	no	1	1 545.00	1 545.00
				-	
21.18.2	Coc on existing installation	no	1	600.49	600.49
				-	
21.18.3	Coc on new installation	no	1	1 091.80	1 091.80
				-	
21.18.4	Cable warning tape placed 150mm above cables in excavations	m	1	43.67	43.67
				-	
21.18.5	Fault tracing	no	1	600.49	600.49
				-	
21.18.6	Geyser timer	no	1	540.44	540.44
				-	
21.19	<b>ALTERATIONS (Electrical works)</b>			-	
				-	
	Removal of faulty electrical components and carting off site			-	
				-	
21.19.1	Removal of plugs, light switches, sockets etc	no	1	35.48	35.48
				-	
21.19.2	Removal of cables and wires	m	1	5.46	5.46
				-	
21.19.3	Removal of faulty stove connection, cover up and make good	no	1	170.32	170.32
				-	
21.19.4	Removal of faulty Airconditioning connection	no	1	382.13	382.13
				-	
21.19.5	Removal of faulty gate motor including base plate	no	1	382.13	382.13
				-	
21.20.	<b>GATE MOTORS</b>			-	

BILL OF MATERIALS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>Supply and installation of a Gate Motor complete with backup battery, foundation plate, 4m rack, adaptor kit, lightning protection, sensor, intelligent speed control, lockable manual over ride, with two remotes, (electrical installation measured elsewhere). With a 12 months guarantee and 5-year warranty.</u>			-	
21.20.1	Centurion D2 or equivalent sliding gate motor for gates up to 250kg	no	1	5 854.78	5 854.78
				-	
21.20.2	Centurion D5 or equivalent sliding gate motor for gates up to 500kg	no	1	8 106.62	8 106.62
				-	
21.20.3	Centurion D10 or equivalent sliding gate motor for gates up to 1000kg	no	1	12 700.36	12 700.36
				-	
21.21	<b>AIR CONDITIONING UNITS</b>			-	
				-	
	<u>Supply and install BTU Split Unit airconditioner complete, with a standard back to back installation, 2m of copper pipe, cable and drain pipe, an electrical power supply to nearest plug socket, and mounting brackets. Features must include a cooling and heating, minimum temp of 18°C and maximum temp of 30°C. With auto cool, power failure auto restart, electronic touch controls with remote, 12 hour on/off timer. With a 5-year warranty</u>			-	
				-	
21.21.1	9 000 BTU	no	1	8 106.62	8 106.62
				-	
21.21.2	12 000 BTU	no	1	9 187.50	9 187.50
				-	
21.21.3	18 000 BTU	no	1	12 790.44	12 790.44
				-	
21.21.4	24 000 BTU	no	1	16 753.67	16 753.67
				-	
21.21.5	30 000 BTU	no	1	36 848.25	36 848.25
				-	
21.21.6	36 000 BTU	no	1	42 307.25	42 307.25
				-	

BILL OF MATERIALS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>Supply and install BTU Cassette Unit airconditioner complete, with a standard installation, 2m of copper pipe, cable and drain pipe, an electrical power supply to nearest plug socket, and mounting brackets. Features must include a cooling and heating, minimum temp of 18°C and maximum temp of 30°C. With auto cool, power failure auto restart, electronic touch controls with remote, 12 hour on/off timer. With a 5-year warranty</u>			-	
21.21.7	13 000 BTU	no	1	15 312.50	15 312.50
				-	
21.21.8	19 000 BTU	no	1	19 636.02	19 636.02
				-	
21.21.9	25 000 BTU	no	1	25 202.57	25 202.57
				-	
21.21.10	36 000 BTU	no	1	30 264.70	30 264.70
				-	
21.21.11	42000 BTU	no	1	35 308.81	35 308.81
				-	
21.21.12	51 000 BTU	no	1	37 650.72	37 650.72
				-	
	<u>Supply and install BTU Ceiling / Console split Unit airconditioner complete, with a standard installation, 2m of copper pipe, cable and drain pipe, an electrical power supply to nearest plug socket, and mounting brackets. Features must include a cooling and heating, minimum temp of 18°C and maximum temp of 30°C. With auto cool, power failure auto restart, electronic touch controls with remote, 12 hour on/off timer. With a 5-year warranty</u>			-	
				-	
21.21.13	19 000 BTU	no	1	17 996.69	17 996.69
				-	
21.21.14	24 000 BTU	no	1	22 968.74	22 968.74
				-	
21.21.15	35 600 BTU	no	1	26 823.89	26 823.89
				-	
21.21.16	44 300 BTU	no	1	34 209.92	34 209.92
				-	
21.21.17	47 900 BTU	no	1	35 993.37	35 993.37
				-	
	<u>Supply and install Window Unit airconditioner complete, with a standard installation, 2m of copper pipe, cable and drain pipe, an electrical power supply to nearest plug socket, and mounting brackets. Features must include a cooling and heating, minimum temp of 18°C and maximum temp of 30°C. With auto cool, power failure auto restart, electronic touch controls with remote, 12 hour on/off timer. With a 5-year warranty</u>			-	



BILL NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
				-	
21.21.18	8 500 BTU	no	1	5 674.63	5 674.63
				-	
21.21.19	12 000 BTU	no	1	7 115.81	7 115.81
				-	
21.21.20	18 000 BTU	no	1	9 277.57	9 277.57
				-	
21.21.21	23 000 BTU	no	1	10 790.81	10 790.81
				-	
	<b><u>SUNDRIES</u></b>			-	
	<u>Cleaning, Servicing and re-gas Airconditioner</u>			-	
				-	
21.21.22	9 000 BTU, 12 000 BTU, & 18 000 BTU Split units	no	1	818.85	818.85
				-	
21.21.23	24 000 BTU, 30 000 BTU, & 36 000 BTU	no	1	1 637.70	1 637.70
				-	
21.21.24	42 000 BTU & 51 000 BTU	no	1	1 965.24	1 965.24
				-	
<b>21.22.</b>	<b>ELECTRICAL WORKS - LABOUR RATES - (Limited to Bill no.16 - for items without rates)</b>			-	
				-	
	<b><u>Normal hours</u></b>			-	
				-	
21.22.1	General Labour (R200 per day)	hr	1	25.00	25.00
				-	
21.22.2	Electrician Semi Skilled (R440 per day)	hr	1	55.00	55.00
				-	
21.22.3	Electrician Artisan (R680 per day)	hr	1	85.00	85.00
				-	
	<b><u>After normal hours and Saturdays</u></b>			-	
				-	
21.22.4	General Labour	hr	1	37.50	37.50
				-	
21.22.5	Semi Skilled	hr	1	82.50	82.50
				-	
21.22.6	Electrician Artisan	hr	1	135.00	135.00
				-	
	<b><u>Sundays and holidays</u></b>			-	
				-	
21.22.7	General Labour	hr	1	50.00	50.00
				-	
21.22.8	Semi Skilled	hr	1	110.00	110.00
				-	
21.22.9	Electrician Artisan	hr	1	180.00	180.00
				-	
				-	
<b>21.23</b>	<b>AUDIO VISUAL EQUIPMENT</b>			-	

BILL OF MATERIALS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
21.23.1	Motorised screen 3620 x 2715mm high	no	1	26 049.15	23 858.90
				-	
21.23.2	Optoma projector Code "EX785 short throw 5000 lumens or equally approved	no	1	68 256.06	62 517.00
				-	
21.23.3	Kramer VP7289 input presentation scaler or equally approved	no	1	24 923.61	22 828.00
				-	
21.23.4	Pioneer DVD player or equally approved	no	1	1 398.05	1 280.50
				-	
	Ecler DP400 digital loudspeaker management unit or equally approved	no	1	20 159.10	20 159.10
	VGA and video input connections on stage L and R	no	1	1 599.00	1 599.00
	Projector mounting	no	1	3 471.00	3 471.00
21.23.4a	AV installation cabling	no	1	5 656.07	5 180.50
	Audio visual and sound equipment mounting rack/cabinet	no	1	10 991.50	10 991.50
	LIGHTING EQUIPMENT				
	16" System lighting desk scanmaster or equally approved				
				-	
21.23.5	Liteputer DX626 6ch dimmer 2kW/ch	no	1	10 730.21	9 828.00
				-	
21.23.6	Par 64 1000w lights	no	1	1 405.15	1 287.00
				-	
21.23.7	LED 64 High power lights	no	1	4 045.12	3 705.00
				-	
21.23.8	LED 64 Low power lights	no	1	1 419.34	1 300.00
				-	
21.23.9	Briteq Stage colour 48 LED colour wash or equally approved	no	1	16 173.38	14 813.50
				-	
21.23.10	Briteq BT60LS LED moving head or equally approved	no	1	27 291.07	24 996.40
				-	
21.23.11	DMX splitter or equally approved	no	1	5 507.04	5 044.00
				-	
21.23.12	Lighting rack wall mount	no	1	6 557.35	6 006.00
				-	
21.23.13	Fly bars	no	1	1 366.11	1 251.25
				-	
21.23.14	Wall lighting bars	no	1	975.80	893.75
				-	
21.23.15	DMX input at FOH Position or equally approved	no	1	865.80	793.00
				-	

BILL OF MATERIALS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
21.24	<b>SOUND EQUIPMENT</b>			-	
				-	
21.24.1	Sound Craft EFX 12 mixer 12ch mic input with two stereo input built in effects or equally approved	no	1	12 234.71	11 206.00
				-	
21.24.2	JB systems USB2 with two double CD - USB player or equally approved	no	1	12 373.81	11 333.40
				-	
21.24.3	Shure SM - 58 vocal mic or equally approved	no	1	4 002.54	3 666.00
				-	
21.24.4	Shure SM - 58 wireless hand-held mic or equally approved	no	1	12 369.55	11 329.50
				-	
21.24.5	AKG C 1000S podium mic or equally approved	no	1	6 727.67	6 162.00
				-	
21.24.6	Mic stand	no	1	736.64	674.70
				-	
21.24.7	Ecler Verso 12P speakers mid-high active loudspeaker 450W RMS and SPL 123dB or equally approved	no	1	21 385.91	19 587.75
				-	
21.24.8	Ecler Verso SB115P bass speaker or equally approved	no	1	27 648.74	25 324.00
				-	
21.24.9	Speaker brackets	no	1	631.61	578.50
				-	
21.24.10	Mixer/audio in and outputs breakout box	no	1	809.02	741.00
				-	
21.24.11	Audio input box - front of house	no	1	809.02	741.00
				-	
	<b>POWER GENERATOR</b>			-	
				-	
				-	
21.25	<u>Including service plan for a period of three years @ 4 visits per annum and including 5 year guarantee. Supply, delivery, termination, connection and initial diesel full tank</u>			-	
				-	
21.25.1	3-Phase 30kVA diesel Generator with silent weather proof canopy and AMF Panel	no	1	#####	120 960.63
				-	
21.25.2	3-Phase 40kVA diesel Generator with silent weather proof canopy and AMF Panel	no	1	#####	145 738.56
				-	
21.25.4	3-Phase 60kVA diesel Generator with silent weather proof canopy and AMF Panel	no	1	#####	186 204.69
				-	

BILL OF MATERIALS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
21.25.5	3-Phase 80kVA diesel Generator with silent weather proof canopy and AMF Panel	no	1	#####	204 873.44
				-	
21.25.6	3-Phase 100kVA diesel Generator with silent weather proof canopy and AMF Panel	no	1	#####	244 753.75
				-	
21.26	ELECTRIC HAND DRYERS			-	
				-	
21.26.1	2.5kW Automatic electric stainless steel hand dryer (270 x 240 x 200mm), fully automatic with the following: a) an airspeed of 30m/s, b) a maintenance free motor capacitor initiated quick starts, c) vandal resistant features that include temper proof bolts, d) a side mounted heating element inaccessible through the nozzle, e) satin finish stainless steel, f) 1-year warranty	no	1	4 120.00	4 120.00
				-	
21.26.2	2.5kW Automatic electric white epoxy coated hand dryer (270 x 240 x 200mm), fully automatic with the following: a) an airspeed of 30m/s, b) a maintenance free motor capacitor initiated quick starts, c) vandal resistant features that include temper proof bolts, d) a side mounted heating element inaccessible through the nozzle, e) white epoxy coated finish, f) 1-year warranty	no	1	3 686.32	3 686.32
				-	
21.26.3	2000W Automatic electric heavy duty white epoxy coated hand dryer (305 x 247 x 200mm), fully automatic with the following: a) an airspeed of 30m/s, b) a maintenance free motor capacitor initiated quick starts, c) vandal resistant features that include temper proof bolts, d) a side mounted heating element inaccessible through the nozzle, e) die-cast zinc alloy casing with white epoxy coated finish, f) 1-year warranty	no	1	11 124.00	11 124.00
				-	
21.26.4	XLERATOR Automatic electric stainless steel hand dryer (241 x 322 x 170mm), fully automatic with the following: a) 20,000rpm motor speed, b) a maintenance free motor capacitor initiated quick starts, c) vandal resistant features that include temper proof bolts, d) a side mounted heating element inaccessible through the nozzle, e) satin finish stainless steel, f) 1-year warranty	no	1	16 172.08	16 172.08