

ITEM	DESCRIPTION	As Per Tender						Installed to date	
		UNIT	QTY	SUPPLY	INSTALL	RATE	TOTAL	QTY	TOTAL
	<b><u>ELECTRICAL SERVICES</u></b>								
1	<b>LOW VOLTAGE DISTRIBUTION BOARDS</b>								
1.1.1	<b>SUPPLY DELIVERY, ASSEMBLY, INSTALLATION AND FIXING OF LV SWITCHBOARDS IN POSITION</b>								
a	MLV-1 (PROVISIONAL ALLOWANCE TO BE MADE FOR CHECKING AND TESTING OF MAIN PANLE ONLY, WITH CORRECTIVE MEASURES IF REQUIRED)	No.	1			50 000,00	50 000,00	1	50 000,00
b	MDB-B1	No.	1	R1 003 937,00	1 132,13	1 005 069,13	1 005 069,13	1	1 005 069,13
c	SDB-B1	No.	1	R19 954,00	1 132,13	21 086,13	21 086,13	1	21 086,13
d	SDB-B2	No.	1	R17 215,00	1 132,13	18 347,13	18 347,13	1	18 347,13
e	SDB-GF	No.	1	R57 552,00	2 264,26	59 816,26	59 816,26	1	59 816,26
f	SDB-FF	No.	1	R57 552,00	2 264,26	59 816,26	59 816,26	1	59 816,26
g	SDB-SF	No.	1	R57 552,00	2 264,26	59 816,26	59 816,26	1	59 816,26
h	SDB-R1	No.	1	R18 854,00	849,10	19 703,10	19 703,10	1	19 703,10
i	SDB-R2	No.	1	R2 937,00	849,10	3 786,10	3 786,10	1	3 786,10
j	SDB-AU	No.	1	R62 304,00	1 698,19	64 002,19	64 002,19	1	64 002,19
k	SDB-GH	No.	1	R6 138,00	1 132,13	7 270,13	7 270,13	1	7 270,13
l	SDB-K	No.	1	R37 620,00	1 698,19	39 318,19	39 318,19	1	39 318,19
m	SDB-UPS 1	No.	1	R38 555,00	849,10	39 404,10	39 404,10	1	39 404,10
n	SDB-UPS 2	No.	1	R37 983,00	849,10	38 832,10	38 832,10	1	38 832,10
o	SDB-AC	No.	1	R26 312,00	707,58	27 019,58	27 019,58	1	27 019,58
p	SDB-MER 1	No.	1	R24 981,00	1 132,13	26 113,13	26 113,13	1	26 113,13
q	SDB-MER 2	No.	1	R24 981,00	1 132,13	26 113,13	26 113,13	1	26 113,13
r	SDB-TER 1	No.	1	R24 981,00	849,10	25 830,10	25 830,10	1	25 830,10
s	SDB-TER 2	No.	1	R24 981,00	849,10	25 830,10	25 830,10	1	25 830,10
t	SDB-L1	No.	1	R3 520,00	424,55	3 944,55	3 944,55	1	3 944,55
u	SDB-L2	No.	1	R3 520,00	424,55	3 944,55	3 944,55	1	3 944,55
1.1.2	Testing and commissioning of Low Voltage Distribution Boards	Sum	1	R0,00	6 792,77	6 792,77	6 792,77	1	6 792,77

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		UNIT	QTY	SUPPLY	INSTALL	RATE	TOTAL	QTY	TOTAL
1	<b>LOW VOLTAGE RETICULATION</b>								
1.2.1	CABLES ARMoured CABLES (Cu PVC/PVC/SWA/PVC) 600/1000V								
1.2.1.1	Clamped to cable ladder or cable tray with K clamps at 1500mm spacing.								
a	240 mm <sup>2</sup> 4-core (REDUNDANCY MAINS CABLES FROM STREET LV ROOM TO BASEMENT TO LV PANEL TO BE OMITTED)	m	300	R1 248,50	52,81	1 301,31	390 393,00	300	390 393,00
b	185 mm <sup>2</sup> 4-core	m	0	R968,00	47,53	1 015,53	0,00	0	0,00
c	150 mm <sup>2</sup> 4-core	m	80	R768,90	42,24	811,14	64 891,20	80	64 891,20
d	120 mm <sup>2</sup> 4-core	m	0	R633,60	36,96	670,56	0,00	0	0,00
e	95 mm <sup>2</sup> 4-core	m	1 170	R498,30	32,62	530,92	621 176,40	1 170	621 176,40
f	70 mm <sup>2</sup> 4-core	m	370	R376,20	32,62	408,82	151 263,40	370	151 263,40
g	50 mm <sup>2</sup> 4-core	m	310	R278,30	20,11	298,41	92 507,10	310	92 507,10
h	35 mm <sup>2</sup> 4-core	m	630	R201,30	17,24	218,54	137 680,20	630	137 680,20
i	25 mm <sup>2</sup> 4-core	m	360	R146,30	17,24	163,54	58 874,40	360	58 874,40
j	16 mm <sup>2</sup> 4-core	m	550	R91,63	14,36	105,99	58 294,50	550	58 294,50
k	10 mm <sup>2</sup> 4-core	m	205	R68,37	9,55	77,92	15 973,60	205	15 973,60
m	6 mm <sup>2</sup> 4-core	m	388	R45,65	7,64	53,29	20 676,52	388	20 676,52
n	4 mm <sup>2</sup> 4-core	m	350	R35,42	5,74	41,16	14 406,00	350	14 406,00
o	4 mm <sup>2</sup> 3-core	m	750	R29,43	5,74	35,17	26 377,50	750	26 377,50
p	2.5 mm <sup>2</sup> 7-core	m	100	R38,83	11,50	50,33	5 033,00	100	5 033,00
1.2.1.2	Installed in cable sleeves and manholes at +1000mm below FFL.								
a	240 mm <sup>2</sup> 4-core (REDUNDANCY MAINS CABLES FROM STREET LV ROOM TO BASEMENT TO LV PANEL TO BE OMITTED)	m							
1.2.2	CABLE TERMINATIONS (Cu PVC /PVC /SWA /PVC)								
1.2.2.1	Cable terminations complete with glands and lugs to suite cable type								
a	120 mm <sup>2</sup> 4-core 11kV Cables onto Transformer	No.	20	R1 425,60	1 517,23	2 942,83	58 856,60	20	58 856,60

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b	240 mm <sup>2</sup> 4-core	No.	12	R404,80	379,31	784,11	9 409,32	12	9 409,32
c	185 mm <sup>2</sup> 4-core	No.	0	R184,80	283,03	467,83	0,00	0	0,00
d	150 mm <sup>2</sup> 4-core	No.	4	R165,00	212,27	377,27	1 509,08	4	1 509,08
e	120 mm <sup>2</sup> 4-core	No.	0	R145,75	141,52	287,27	0,00	0	0,00
f	95 mm <sup>2</sup> 4-core	No.	18	R241,01	141,52	382,53	6 885,54	18	6 885,54
g	70 mm <sup>2</sup> 4-core	No.	10	R219,78	113,21	332,99	3 329,90	10	3 329,90
h	50 mm <sup>2</sup> 4-core	No.	6	R146,33	93,40	239,73	1 438,38	6	1 438,38
i	35 mm <sup>2</sup> 4-core	No.	14	R114,91	70,75	185,66	2 599,24	14	2 599,24
j	25 mm <sup>2</sup> 4-core	No.	6	R112,29	70,75	183,04	1 098,24	6	1 098,24
k	16 mm <sup>2</sup> 4-core	No.	12	R107,82	56,60	164,42	1 973,04	12	1 973,04
m	10 mm <sup>2</sup> 4-core	No.	6	R64,57	49,54	114,11	684,66	6	684,66
n	6 mm <sup>2</sup> 4-core	No.	8	R33,06	42,46	75,52	604,16	8	604,16
o	4 mm <sup>2</sup> 4-core	No.	12	R33,06	39,62	72,68	872,16	12	872,16
p	4 mm <sup>2</sup> 3-core	No.	200	R33,06	35,38	68,44	13 688,00	200	13 688,00
q	2.5 mm <sup>2</sup> 7-core	No.	4	R108,41	46,70	155,11	620,44	4	620,44
1.2.2.2	Cable Joint Kits, complete with all accessories for PVC Armoured Cabling 240 mm <sup>2</sup> 4-core	No.	4	R0,00	566,06	566,06	2 264,24	4	2 264,24
1.2.3	INSULATED COPPER EARTH WIRE								
1.2.3.1	Insulated stranded copper earth wire strapped to cable at 2000mm centres with PVC cable ties or approved method								
a	240 mm <sup>2</sup>	m	320	R305,80	9,48	315,28	100 889,60	320	100 889,60
b	150 mm <sup>2</sup>	m	0	R179,30	8,53	187,83	0,00	0	0,00
c	95 mm <sup>2</sup>	m	0	R120,73	7,58	128,31	0,00	0	0,00
d	70 mm <sup>2</sup>	m	80	R90,53	7,58	98,11	7 848,80	80	7 848,80
e	50 mm <sup>2</sup>	m	1 170	R64,90	6,64	71,54	83 701,80	1 170	83 701,80
f	35 mm <sup>2</sup>	m	370	R47,30	5,69	52,99	19 606,30	370	19 606,30
g	25 mm <sup>2</sup>	m	310	R37,40	5,69	43,09	13 357,90	310	13 357,90
h	16 mm <sup>2</sup>	m	1 540	R18,70	4,74	23,44	36 097,60	1 540	36 097,60
i	10 mm <sup>2</sup>	m	205	R11,59	3,79	15,38	3 152,90	205	3 152,90
j	6 mm <sup>2</sup>	m	388	R7,12	2,84	9,96	3 864,48	388	3 864,48
k	4 mm <sup>2</sup>	m	1 850	R4,91	2,28	7,19	13 301,50	1 850	13 301,50
l	2.5 mm <sup>2</sup>	m	100	R2,92	1,90	4,82	482,00	100	482,00

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0									
1.2.3.2	INSULATED COPPER EARTH WIRE TERMINATIONS Cable terminations complete with glands and lugs to suite cable type								
a	240 mm <sup>2</sup>	m	12	R57,20	46,70	103,90	1 246,80	12	1 246,80
b	150 mm <sup>2</sup>	m	0	R53,90	42,46	96,36	0,00	0	0,00
c	95 mm <sup>2</sup>	m	0	R49,50	42,46	91,96	0,00	0	0,00
d	70 mm <sup>2</sup>	m	4	R42,90	42,46	85,36	341,44	4	341,44
e	50 mm <sup>2</sup>	m	10	R36,52	39,62	76,14	761,40	10	761,40
f	35 mm <sup>2</sup>	m	10	R32,26	36,79	69,05	690,50	10	690,50
g	25 mm <sup>2</sup>	m	6	R29,15	35,38	64,53	387,18	6	387,18
h	16 mm <sup>2</sup>	m	32	R24,42	33,96	58,38	1 868,16	32	1 868,16
i	10 mm <sup>2</sup>	m	6	R7,48	32,54	40,02	240,12	6	240,12
j	6 mm <sup>2</sup>	m	8	R4,95	31,13	36,08	288,64	8	288,64
k	4 mm <sup>2</sup>	m	12	R4,29	29,72	34,01	408,12	12	408,12
l	2.5 mm <sup>2</sup>	m	200	R3,85	28,31	32,16	6 432,00	200	6 432,00
1.2.4	TRUNKING GALVANISED Galvanised steel wiring channel with clip in metal cover plate mounted on ceiling or in raised floor O-Line or Cabstrut or equal & approved by Engineer								
1.2.4.1	P2000								
a	P2000 trunking c/w galv cover & hangers	m	450	R63,75	47,41	111,16	50 022,00	450	50 022,00
b	P2000 horizontal bend	No.	0	R20,63	47,41	68,04	0,00	0	0,00
c	P2000 vertical bend	No.	0	R20,63	47,41	68,04	0,00	0	0,00
d	P2000 'T' Piece	No.	0	R18,15	62,58	80,73	0,00	0	0,00
1.2.4.2	P8000								
a	P8000 trunking c/w galv cover & hangers	m	1 330	R70,69	56,89	127,58	169 681,40	1 330	169 681,40
b	P8000 horizontal bend	No.	62	R27,64	47,41	75,05	4 653,10	62	4 653,10
c	P8000 vertical bend	No.	15	R27,64	47,41	75,05	1 125,75	15	1 125,75
d	P8000 'T' Piece	No.	112	R34,24	62,58	96,82	10 843,84	112	10 843,84
e	P8000 45 degree Off-sets	No.	70	R27,64	94,82	122,46	8 572,20	70	8 572,20
1.2.4.3	P9000								

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		UNIT	QTY	SUPPLY	INSTALL	RATE	TOTAL	QTY	TOTAL
a	P9000 trunking c/w galv cover & hangers	m	405	R99,59	66,38	165,97	67 217,85	405	67 217,85
b	P9000 horizontal bend	No.	31	R34,24	47,41	81,65	2 531,15	31	2 531,15
c	P9000 vertical bend	No.	11	R34,24	47,41	81,65	898,15	11	898,15
d	P9000 'T' Piece	No.	3	R42,90	62,58	105,48	316,44	3	316,44
e	P9000 45 degree Off-sets	No.	20	R34,24	94,82	129,06	2 581,20	20	2 581,20
1.2.5	CABLE LADDER (MEDIUM DUTY)								
	Medium duty galvanised steel cable ladder suspended from roof/slab structure (allow 300mm suspension height) c/w unistrut supports, rod hangers, rawlbolts/purlin clamps at 1500mm spacing.								
1.2.5.1	1000mm MD Ladder								
a	1000mm Wide Straight	m	100	R348,02	94,82	442,84	44 284,00	100	44 284,00
b	1000mm Wide 90 Deg horizontal bend	No.	7	R598,54	189,66	788,20	5 517,40	7	5 517,40
c	1000mm Wide 'T' section	No.	4	R1 095,19	284,48	1 379,67	5 518,68	4	5 518,68
d	1000mm Wide vertical bend	No.	4	R361,77	189,66	551,43	2 205,72	4	2 205,72
e	1000mm Wide galv cover	No.	75	R647,35	47,41	694,76	52 107,00	75	52 107,00
1.2.5.2	600mm MD Ladder								
a	600mm Wide Straight	m	125	R252,93	75,86	328,79	41 098,75	125	41 098,75
b	600mm Wide 90 Deg horizontal bend	No.	4	R407,55	151,73	559,28	2 237,12	4	2 237,12
c	600mm Wide 'T' section	No.	1	R710,74	227,58	938,32	938,32	1	938,32
d	600mm Wide vertical bend	No.	4	R303,19	151,73	454,92	1 819,68	4	1 819,68
e	600mm Wide galv cover	No.	100	R418,28	47,41	465,69	46 569,00	100	46 569,00
1.2.5.3	300mm MD Ladder								
a	300mm Wide Straight	m	130	R152,96	62,58	215,54	28 020,20	130	28 020,20
b	300mm Wide 90 Deg horizontal bend	No.	9	R214,92	94,82	309,74	2 787,66	9	2 787,66
c	300mm Wide 'T' section	No.	2	R426,94	189,66	616,60	1 233,20	2	1 233,20
d	300mm Wide vertical bend	No.	6	R207,49	94,82	302,31	1 813,86	6	1 813,86
e	300mm Wide galv cover	No.	60	R225,23	37,93	263,16	15 789,60	60	15 789,60
1.2.6	CABLE TRAY								

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		UNIT	QTY	SUPPLY	INSTALL	RATE	TOTAL	QTY	TOTAL
0	Perforated metal, hot dipped galvanised finish, Medium Duty Cable Tray, Complete with connectors, hangers and all accessories suspended from slab (allow 500mm suspension height)								
1.2.6.1	150mm Wide								
a	150mm Wide straight	m	285	R123,95	47,41	171,36	48 837,60	285	48 837,60
b	150mm Wide 90 Deg corner	No.	17	R245,47	62,58	308,05	5 236,85	17	5 236,85
c	150mm Wide 'T' section	No.	8	R496,67	94,82	591,49	4 731,92	8	4 731,92
d	150mm Wide vertical bend	No.	6	R266,09	62,58	328,67	1 972,02	6	1 972,02
1.2.6.2	300mm Wide								
a	300mm Wide straight	m	315	R192,43	62,58	255,01	80 328,15	315	80 328,15
b	300mm Wide 90 Deg corner	No.	11	R445,56	94,82	540,38	5 944,18	11	5 944,18
c	300mm Wide 'T' section	No.	3	R770,19	189,66	959,85	2 879,55	3	2 879,55
d	300mm Wide vertical bend	No.	12	R373,78	94,82	468,60	5 623,20	12	5 623,20
1.2.6.3	O-Line Magic Tray. RKSM 60 Type with 60mm side height. Complete with connectors, hangers and all accessories suspended from slab (allow 500mm suspension height)								
a	300mm Wide straight	m	40	R133,30	62,58	195,88	7 835,20	40	7 835,20
b	300mm Wide 90 Deg corner	No.	6	R233,07	94,82	327,89	1 967,34	6	1 967,34
c	300mm Wide 'T' section	No.	3	R371,25	189,66	560,91	1 682,73	3	1 682,73
d	300mm Wide vertical bend	No.	6	R259,47	94,82	354,29	2 125,74	6	2 125,74
1.2.7	TRENCHING AND BACKFILLING								
1.2.7.1	Trenching								
a	In hand pickable soil	m	50	R0,00	50,11	50,11	2 505,50	50	2 505,50
b	In soft rock	m	50	R0,00	83,52	83,52	4 176,00	50	4 176,00
c	In hard rock	m	10	R0,00	167,04	167,04	1 670,40	10	1 670,40
1.2.7.2	Backfilling								
a	Backfilling as required including for bedding and imported material where necessary	m	0	R0,00	83,52	83,52	0,00	0	0,00

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1.2.8	PVC SLEEVES								
a	Supply and install 110mm Dia. PVC Sleeves	m	50	R29,98	18,96	48,94	2 447,00	50	2 447,00
b	110mm Dia Slow Radius Bends	No.	2	R46,75	28,45	75,20	150,40	2	150,40
1.2.9	TESTING & COMMISSIONING								
1.2.9.1	Testing and commissioning of LV Reticulation System	Sum	1	R0,00	3 396,38	3 396,38	3 396,38	1	3 396,38
1	SMALL POWER AND LIGHTING INSTALLATION								
1.3.1	CONDUCTORS								
1.3.1.1	STANDARD PVC INSULATED CONDUCTOR Standard PVC insulated copper conductor installed in Conduit or Trunking								
a	4 mm <sup>2</sup>	m	44 906	R5,28	1,90	7,18	322 425,08	44 906	322 425,08
b	2.5 mm <sup>2</sup>	m	31 911	R3,10	1,51	4,61	147 109,71	31 911	147 109,71
c	2.5mm <sup>2</sup> BCEW	m	10 637	R2,84	0,95	3,79	40 314,23	10 637	40 314,23
d	4mm <sup>2</sup> BCEW	m	14 969	R4,52	1,51	6,03	90 261,06	14 969	90 261,06
e	1.5 mm <sup>2</sup> 2-core Dali Cabling to all fittings and sensors	m	9 500	R8,25	1,90	10,15	96 425,00	9 500	96 425,00
1.3.1.2	Flat Twin and Earth								
0	Install SABS approved FT&E fixed to cable basket, ladder Complete with terminations								
a	2.5mm <sup>2</sup>	m	1 260	R8,76	4,74	13,50	17 010,00	1 260	17 010,00
b	2.5mm <sup>2</sup> Terminations	No	264	R2,44	21,23	23,67	6 248,88	264	6 248,88
1.3.1.3	Surfix Cable								
0	Install SABS approved Surfix fixed to cable basket, ladder Complete with terminations								
a	4mm <sup>2</sup> 3-core Terminations onto:	m	850	R10,01	5,69	15,70	13 345,00	850	13 345,00
b	16A Plug Top, complete with plug top	No	130	R13,75	14,15	27,90	3 627,00	130	3 627,00
c	Onto Floor Box	No	130	R1,65	21,23	22,88	2 974,40	130	2 974,40
d	DB Panel	No	50	R1,65	46,70	48,35	2 417,50	50	2 417,50
e	Onto Commando Plug	No	50	R1,65	28,31	29,96	1 498,00	50	1 498,00

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1.3.2	CONDUIT PVC								
1.3.2.1	Conduit fixed to Surface or Ceilings								
a	25mm dia	m	2 422	R6,20	13,27	19,47	47 156,34	2 422	47 156,34
1.3.2.2	Conduit chased into Brickwork								
a	25mm dia	m	575	R4,88	16,64	21,52	12 374,00	575	12 374,00
1.3.2.3	Conduit End complete								
a	25mm dia	No.	879	R1,80	7,08	8,88	7 805,52	879	7 805,52
1.3.3	CONDUIT GALVANISED								
1.3.3.1	Conduit fixed to Surface								
a	25mm dia	m	730	R24,92	22,76	47,68	34 806,40	730	34 806,40
b	32mm dia	m	0	R34,61	28,45	63,06	0,00	0	0,00
1.3.3.2	Conduit End complete								
a	25mm dia	No.	113	R8,12	21,23	29,35	3 316,55	113	3 316,55
b	32mm dia	No.	0	R12,05	28,31	40,36	0,00	0	0,00
1.3.4	CONDUIT BOXES GALVANISED								
0	Supply and installation of galvanised conduit boxes. Rates to include for boxes and termination of conduits into boxes.								
0	0,00								
1.3.4.1	Installed in Brick								
0	Excluding covers (covers measured with outlets) unless otherwise indicated below								
a	65 mm round x 65 mm deep draw box with cover plate.	No.	15	R0,00	9,48	9,48	142,20	15	142,20
b	100 mm high x 50 mm wide x 50 mm deep outlet box	No.	12	R0,00	18,96	18,96	227,52	12	227,52
c	100 mm high x 100 mm wide x 50 mm deep outlet box	No.	119	R0,00	18,96	18,96	2 256,24	119	2 256,24
1.3.4.2	Installed Surface								



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0	Excluding covers (covers measured with outlets) unless otherwise indicated below								
a	65mm x 25mm round deep draw box with cover plate.	No.	605	R10,21	7,08	17,29	10 460,45	605	10 460,45
b	65mm x 65mm round deep draw box with cover plate.	No.	16	R15,95	7,08	23,03	368,48	16	368,48
c	100mm x 100mm wide x 50mm surface box	No.	513	R15,68	14,15	29,83	15 302,79	513	15 302,79
d	100mm x 50mm wide x 50mm surface box	No.	246	R13,37	14,15	27,52	6 769,92	246	6 769,92
1.3.5	<b>COVER PLATES</b>								
0	Blank cover plate (White) screwed onto conduit box								
a	100mm x 100mm cover	No.	193	R21,18	21,23	42,41	8 163,93	193	8 163,93
b	100mm x 50mm cover	No.	550	R21,18	21,23	42,41	23 304,30	550	23 304,30
1.3.6	<b>POWERSKIRTING</b>								
0	Textured powder coated galvanised steel powerskirting. Shall be 2 tier (compartment) P801 or similar hospital grey colour, complete with all accessories								
a	Straight	m	50	R162,09	62,58	224,67	11 233,50	50	11 233,50
b	Internal Corners	No.	8	R54,04	47,41	101,45	811,60	8	811,60
c	External Corners	No.	8	R59,82	47,41	107,23	857,84	8	857,84
d	End Caps	No.	16	R35,89	28,45	64,34	1 029,44	16	1 029,44
1.3.7	<b>SOCKET OUTLETS</b>								
0	Socket outlets, including cover plates and all accessories. Installed in surface, flush boxes or powerskirting Type: SABS approved only								
1.3.7.1	(Colour: White) 100x100mm - Clipsal S3000								
a	16 A Single Switched Socket Outlet (White)	No.	334	R125,37	28,31	153,68	51 329,12	334	51 329,12
b	16 A Double Switched Socket Outlet (White)	No.	49	R228,26	28,31	256,57	12 571,93	49	12 571,93
c	16 A Single Switched Socket Outlet (Red) Dedicated	No.	85	R134,82	28,31	163,13	13 866,05	85	13 866,05
d	16 A Single Switched Socket Outlet (Blue) Dedicated	No.	89	R134,82	28,31	163,13	14 518,57	89	14 518,57
e	16 A Single Switched Socket Outlet (White), external, in york box, complete	No.	14	R206,55	46,70	253,25	3 545,50	14	3 545,50

ITEM	DESCRIPTION	As Per Tender						Installed to date	
		UNIT	QTY	SUPPLY	INSTALL	RATE	TOTAL	QTY	TOTAL
f	5 A Socket Outlet for Lighting, c/w box and covers mounted on Trunking	No.	1 304	R22,55	21,23	43,78	57 089,12	1 304	57 089,12
g	32A Single Phase Commando Outlet (Caravan)	No.	73	R420,20	70,75	490,95	35 839,35	73	35 839,35
1.3.8	<b>RECESSED FLOOR BOXES</b>								
1.3.8.1	Legrand Type, recessed floor box, mounted in raised floor, 3-compartment, with lid (with carpet insert). (305x225mm and 75mm deep)								
a	Floor Box	No.	95	R924,00	46,70	970,70	92 216,50	95	92 216,50
b	Red dedicated outlets	No.	190	R144,22	28,31	172,53	32 780,70	190	32 780,70
c	Normal (white) outlets	No.	190	R106,89	28,31	135,20	25 688,00	190	25 688,00
d	Data outlets (Pre-punched cover only) RJ45 outlet by others	No.	380	R56,45	28,31	84,76	32 208,80	380	32 208,80
1.3.8.2	<b>DESK POWER MODULES</b>								
a	Supply and install under desk power modules, Legrand type as specified in part 3 of the document, Section 3.7	No.	130	R1 084,03	45,25	1 129,28	146 806,40	130	146 806,40
b	Supply and terminate 4mm <sup>2</sup> 3 core surfix flexible cable, 3m each to the under desk power module and 3-pin plug complete with top.	m	650	R38,07	35,38	73,45	47 742,50	650	47 742,50
1.3.9	<b>ISOLATORS</b>								
0	On load Isolators including cover plates and all accessories. Installed in surface or flush boxes. (Powerskirting & powerskirting outlets measured elsewhere). Type: SABS approved only Cabstrut, Clipsal, Gewiss (Only if SABS)								
1.3.9.1	<b>Indoor</b>								
a	20A Double Pole Surface	No.	166	R134,11	46,70	180,81	30 014,46	166	30 014,46
b	20A Triple Pole Surface	No.	25	R174,28	70,75	245,03	6 125,75	25	6 125,75
c	45A Double Pole Surface	No.	2	R134,11	46,70	180,81	361,62	2	361,62
d	63A Triple Pole Surface	No.	5	R174,28	70,75	245,03	1 225,15	5	1 225,15
1.3.9.2	<b>Outdoor</b>								

ITEM	DESCRIPTION	As Per Tender						Installed to date	
		UNIT	QTY	SUPPLY	INSTALL	RATE	TOTAL	QTY	TOTAL
a	20A Double Pole Surface	No.	2	R142,11	46,70	188,81	377,62	2	377,62
b	20A Triple Pole Surface	No.	12	R173,83	70,75	244,58	2 934,96	12	2 934,96
c	45A Triple Pole Surface	No.	7	R239,37	70,75	310,12	2 170,84	7	2 170,84
d	63A Triple Pole Surface	No.	2	R239,37	93,40	332,77	665,54	2	665,54
1.3.10	LIGHT SWITCHES								
	Supply, installation and connection of surface or flush mounted light switches complete with cover plates and all accessories, including boxes. Type: SABS approved								
1.3.10.1	(Colour: White) 100x50mm - Clipsal S3000								
a	20 A, single lever, one way.	No.	7	R118,80	21,23	140,03	980,21	7	980,21
b	20 A, single lever, two way.	No.	4	R133,79	21,23	155,02	620,08	4	620,08
1.3.10.2	Occupancy Sensors								
0	Supply and install ceiling mounted or surface mounted lighting occupancy sensors, complete. Type shall be Voltex, Hubbell or similar and approved.								
a	OMNIIR Passive infrared Sensor - DALI Compatible	No.	40	R662,76	70,75	733,51	29 340,40	40	29 340,40
1.3.11	LIGHT FITTINGS								
1.3.11.1	Supply, Installation and connection of light fittings as specified in Part 3 of the Tender Specification								
a	Type A1 - 600mmx600mm Recessed LED Panel fitting in ceiling	No.	528	R1 182,50	46,70	1 229,20	649 017,60	528	649 017,60
b	Type A1E - Same as Type A2, but with emergency Battery Back-up	No.	140	R2 137,30	49,54	2 186,84	306 157,60	140	306 157,60
c	Type B1 - 1200mm, LED enclosed channel, wide body surface mounted fitting	No.	25	R1 169,30	70,75	1 240,05	31 001,25	25	31 001,25
d	Type B1E - Same as Type B1 fitting but with emergency pack	No.	10	R2 741,20	70,75	2 811,95	28 119,50	10	28 119,50
e	Type B2 - 1200mm, LED enclosed channel, wide body surface mounted fitting with sensor	No.	79	R1 582,90	70,75	1 653,65	130 638,35	79	130 638,35

ITEM	DESCRIPTION	As Per Tender						Installed to date	
		UNIT	QTY	SUPPLY	INSTALL	RATE	TOTAL	QTY	TOTAL
f	Type B2E - Same as Type B2 fitting but with emergency pack	No.	24	R2 367,20	70,75	2 437,95	58 510,80	24	58 510,80
g	Type C1 - 12W LED, recessed down lighter	No.	135	R1 218,80	49,54	1 268,34	171 225,90	135	171 225,90
h	Type C1E - Same as C1 but with emergency Battery Pack	No.	92	R1 794,10	49,54	1 843,64	169 614,88	92	169 614,88
i	Type C2 - 5W LED, recessed down lighter	No.	44	R848,10	49,54	897,64	39 496,16	44	39 496,16
j	Type C1E - Same as C2 but with emergency Battery Pack	No.	18	R1 794,10	49,54	1 843,64	33 185,52	18	33 185,52
k	Type D - LED Ribbon light, c/w aluminium extrusion and diffuser, 45 degrees	m	296	R479,60	54,89	534,49	158 209,04	296	158 209,04
l	Type D1 - 15W Round die-cast aluminium bulkhead fitting with opal lens.	No.	13	R1 547,70	287,38	1 835,08	23 856,04	13	23 856,04
m	Type D1E - 15W Round die-cast aluminium bulkhead fitting with opal lens with emergency pack	No.	49	R2 247,30	70,75	2 318,05	113 584,45	49	113 584,45
n	Zone 1 - Protected, enclosed 2 x 28W Fluorescent Fitting	No.	8	R5 635,30	94,82	5 730,12	45 840,96	8	45 840,96
o	Type G1 - LED Pendant fitting	No.	12	R617,10	93,40	710,50	8 526,00	12	8 526,00
p	Type G2 - Recessed linear LED strip light	m	100	R803,00	62,58	865,58	86 558,00	100	86 558,00
g	Type G3 - LED strip light above Barisal ceiling	m	65	R454,30	94,82	549,12	35 692,80	65	35 692,80
r	Type G4 - Surface mounted up/down LED fittings	No.	8	R577,50	94,82	672,32	5 378,56	8	5 378,56
s	Type G5 - Decorative Ceiling mounted lighting	No.	2	R289,97	189,66	479,63	959,26	2	959,26
t	Type G6 - Linear suspended LED pendant fittings	m	30	R1 042,80	189,66	1 232,46	36 973,80	30	36 973,80
u	Type G7 -Linear micro LED strips	m	20	R1 257,30	47,41	1 304,71	26 094,20	20	26 094,20
v	Type G8 -LED Cove Lighting	m	40	R506,00	47,41	553,41	22 136,40	40	22 136,40
w	Type G9 -LED Pendant Light fitting	No.	2	R11 660,00	94,82	11 754,82	23 509,64	2	23 509,64
x	Type G10 - Decorative Stair Lights	No.	9	R852,50	62,88	915,38	8 238,42	9	8 238,42
aa	Type EX1	No.	12	R1 167,10	70,75	1 237,85	14 854,20	12	14 854,20
ab	Type EX2	No.	20	R3 657,50	70,75	3 728,25	74 565,00	20	74 565,00
ac	Type EX3	No.	30	R633,60	70,75	704,35	21 130,50	30	21 130,50
ad	Type EX4	m	100	R634,70	70,75	705,45	70 545,00	100	70 545,00
1.3.12	STRIPPING OUT OF EXISTING INSTALLATION								

ITEM	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	RATE	TOTAL	QTY	TOTAL
1.3.12.1	Contractor shall be responsible to strip out the entire electrical installation, or as directed by the Project Manager and Electrical Engineer, this will included transformers, DB Panels, Cabling, wiring, wire ways, lighting and power outlets.	Sum	1	R0,00	0,00	0,00	0,00	1	0,00
1.3.12.0	TESTING & COMMISSIONING (The cost for the testing and commissioning of the items below will be for all equipment and systems under the Electrical Contractor)								
1.3.13.1	Cost for commissioning, witnessing and handover as per section 3.18 of the Project Specific Specification	Sum	1	R0,00	3 537,90	3 537,90	3 537,90	1	3 537,90
1.3.13.2	Producing As-build Drawings	Sum	1	R0,00	747,02	747,02	747,02	1	747,02
1.3.13.3	Operation and Maintenance Manuals as per section 3.20 of the Project Specific Specification	Sum	1	R0,00	747,02	747,02	747,02	1	747,02
1.3.13.4	Training as per section 3.21 of the Project Specific Specification	Sum	1	R0,00	747,02	747,02	747,02	1	747,02
1.3.13.5	Building Tuning as per section 3.22 of the Project Specific Specification	Sum	1	R0,00	6 651,25	6 651,25	6 651,25	1	6 651,25
1.3.13.6	Integrated Systems Testing as per section 3.22 of the Project Specific Specification Total Carried Forward to Building Summary	Sum	1	R0,00	747,02	747,02	747,02	1	747,02
	<b>BILL NO 2 - IT AND COMMUNICATIONS RETICULATION</b>								
2.1.1	Copper earth bars mounted to wall, complete to Telkom Specification	no.	10	R610,50	141,52	752,02	7 520,20	10	7 520,20
2	CONDUIT PVC								
2.2.1	Conduit fixed to Surface or Ceilings								
a	25mm dia	m	1 746	R6,20	15,17	21,37	37 312,02	1 746	37 312,02
2.2.2	Conduit chased into Brickwork								
a	25mm dia	m	558	R4,88	19,02	23,90	13 336,20	558	13 336,20
b	32mm dia	m	0	R7,61	23,78	31,39	0,00	0	0,00

ITEM	DESCRIPTION	As Per Tender						Installed to date	
		UNIT	QTY	SUPPLY	INSTALL	RATE	TOTAL	QTY	TOTAL
2.2.3	Conduit End complete								
a	25mm dia	No.	906	R1,80	14,15	15,95	14 450,70	906	14 450,70
b	32mm dia	No.	0	R3,91	16,98	20,89	0,00	0	0,00
2	CONDUIT GALVANISED								
2.3.1	Conduit fixed to Surface								
a	25mm dia	m	945	R24,92	20,86	45,78	43 262,10	945	43 262,10
2.3.2	Conduit End complete								
0	Complete with coupling & lock nut								
a	25mm dia	No.	266	R34,61	21,23	55,84	14 853,44	266	14 853,44
2	CONDUIT BOXES GALVANISED								
0	Supply and installation of galvanised conduit boxes. Rates to include for boxes and termination of conduits into boxes.								
2.4.1	Installed in Brick								
a	65 mm round x 25 mm deep draw box with cover plate	No.	26	R10,21	9,48	19,69	511,94	26	511,94
b	100 mm high x 100 mm wide x 50 mm deep outlet box	No.	250	R15,68	18,96	34,64	8 660,00	250	8 660,00
c	100 mm x 100 mm x 100 mm concealed box for back entry into power skirting. [Rate to include for cut-out in power skirting and fitting safety edge.	No.	0	R13,37	18,96	32,33	0,00	0	0,00
2.4.2	Installed Surface								
0	Excluding covers (covers measured with outlets) unless otherwise indicated below								
a	65mm x 25mm round deep draw box with cover plate.	No.	532	R11,42	7,08	18,50	9 842,00	532	9 842,00
b	100mm x 100mm wide x 50mm surface box	No.	0	R16,89	14,15	31,04	0,00	0	0,00
c	100mm x 50mm wide x 50mm surface box	No.	105	R14,58	14,15	28,73	3 016,65	105	3 016,65

ITEM	DESCRIPTION	As Per Tender						Installed to date	
		UNIT	QTY	SUPPLY	INSTALL	RATE	TOTAL	QTY	TOTAL
3	COVER PLATES								
2.5.1	Blank cover plate (White) screwed onto conduit box								
a	100mm x 100mm cover	No.	250	R21,18	21,23	42,41	10 602,50	250	10 602,50
b	100mm x 50mm cover	No.	40	R21,18	21,23	42,41	1 696,40	40	1 696,40
3	GALVANIZED DRAW WIRES								
a	1,6mm dia galvanized steel draw wire drawn into unwired conduits.	m	5 812	R1,34	0,95	2,29	13 309,48	5 812	13 309,48
3	CABLE BASKET (WELDED WIRE MESH)								
0	Hot dip galvanised steel cable traysuspended from slab (suspension height to be approx. 500mm) c/w supports, rod hangers. Type O-line or Cabstrut or equal and approved								
2.7.1	100mm MD Cable Basket								
a	100mm Wide straight	m	360	R59,36	53,10	112,46	40 485,60	360	40 485,60
b	100mm Wide 90 Deg corner	No.	12	R108,49	47,41	155,90	1 870,80	12	1 870,80
c	100mm Wide 'T' section	No.	2	R299,48	62,58	362,06	724,12	2	724,12
d	100mm Wide vertical bend	No.	3	R131,18	94,82	226,00	678,00	3	678,00
e	100mm 45 degree off-set	No.	3	R47,85	47,41	95,26	285,78	3	285,78
f	100mm Steel cover	m	100	R110,83	37,93	148,76	14 876,00	100	14 876,00
2.7.2	150mm MD Cable Basket								
a	150mm Wide straight	m	960	R68,81	55,00	123,81	118 857,60	960	118 857,60
b	150mm Wide 90 Deg corner	No.	38	R132,00	56,89	188,89	7 177,82	38	7 177,82
c	150mm Wide 'T' section	No.	16	R361,35	66,38	427,73	6 843,68	16	6 843,68
d	150mm Wide vertical bend	No.	7	R133,65	56,89	190,54	1 333,78	7	1 333,78
e	150mm 45 degree off-set	No.	40	R166,24	56,89	223,13	8 925,20	40	8 925,20
g	150mm Steel cover	m	140	R139,15	47,41	186,56	26 118,40	140	26 118,40

ITEM	DESCRIPTION	As Per Tender						Installed to date	
		UNIT	QTY	SUPPLY	INSTALL	RATE	TOTAL	QTY	TOTAL
2.7.3	200mm MD Cable Basket installed in raised floor, on unistrut supports every 1000mm, complete								
a	200mm Wide straight	m	880	R89,98	56,89	146,87	129 245,60	880	129 245,60
b	200mm Wide 90 Deg corner	No.	6	R223,58	62,58	286,16	1 716,96	6	1 716,96
c	200mm Wide 'T' section	No.	120	R532,95	94,82	627,77	75 332,40	120	75 332,40
d	200mm Wide vertical bend	No.	6	R183,98	62,58	246,56	1 479,36	6	1 479,36
e	200mm 45 degree off-set	No.	0	R758,18	94,82	853,00	0,00	0	0,00
2.7.4	300mm MD Cable Basket								
a	300mm Wide straight	m	550	R89,98	62,58	152,56	83 908,00	550	83 908,00
b	300mm Wide 90 Deg horizontal bend	No.	26	R223,58	94,82	318,40	8 278,40	26	8 278,40
c	300mm Wide 'T' section	No.	5	R532,95	125,17	658,12	3 290,60	5	3 290,60
d	300mm Wide vertical bend	No.	8	R183,98	94,82	278,80	2 230,40	8	2 230,40
e	300mm Wide cross section	No.	19	R758,18	189,66	947,84	18 008,96	19	18 008,96
f	300mm 45 degree off-set	No.	32	R149,05	94,82	243,87	7 803,84	32	7 803,84
g	300mm Steel cover	m	100	R219,73	47,41	267,14	26 714,00	100	26 714,00
2.7.5	500mm MD Cable Basket installed in raised floor, on unistrut supports every 1000mm, complete								
a	500mm Wide straight	m	590	R118,42	66,38	184,80	109 032,00	590	109 032,00
b	500mm Wide 90 Deg horizontal bend	No.	10	R319,69	94,82	414,51	4 145,10	10	4 145,10
c	500mm Wide 'T' section	No.	8	R758,59	189,66	948,25	7 586,00	8	7 586,00
d	500mm Wide vertical bend	No.	6	R254,10	94,82	348,92	2 093,52	6	2 093,52
e	500mm Wide cross section	No.	2	R562,65	284,48	847,13	1 694,26	2	1 694,26
f	500mm 45 degree off-set	No.	10	R185,08	94,82	279,90	2 799,00	10	2 799,00
3	TRUNKING GALVANISED (CEILING MOUNTED)								
	Galvanised steel wiring channel with clip in metal cover plate mounted on ceiling (under side of slab soffit) O-Line or Cabstrut or equal & approved by Engineer								



ITEM	DESCRIPTION	As Per Tender						Installed to date	
		UNIT	QTY	SUPPLY	INSTALL	RATE	TOTAL	QTY	TOTAL
2.8.1	P9000								
a	P9000 trunking c/w galv cover & hangers	m	860	R99,59	62,58	162,17	139 466,20	860	139 466,20
b	P9000 horizontal bend	No.	40	R34,24	47,41	81,65	3 266,00	40	3 266,00
c	P9000 vertical bend	No.	10	R34,24	47,41	81,65	816,50	10	816,50
d	P9000 'T' Piece	No.	20	R42,90	62,58	105,48	2 109,60	20	2 109,60
e	P9000 45 degree Off-sets	No.	40	R34,24	62,58	96,82	3 872,80	40	3 872,80
3	LIAISING WITH DATA & COMMISSIONING								
2.9.1	Testing and commissioning of complete installation as specified in this bill	Sum	1	R0,00	747,02	747,02	747,02	1	747,02
	Total Carried Forward to Building Summary								
	<b>BILL NO 3 - SPECIALISED EQUIPMENT AND INSTALLATIONS</b>								
3	Supply, delivery, installation and commissioning of the UPS Systems as specified and detailed in Part 3 of the Electrical Tender Specification. Section 3.15								
3.1.1	120kVA UPS system	ea	0	R328 151,70	0,00	328 151,70	0,00	0	0,00
3.1.2	10 Min Battery System - Similar and equal to EnerSys PowerSafe 10 year batteries	ea	0	R243 587,15	0,00	243 587,15	0,00	0	0,00
3.1.3	Static Switches	ea	0	R0,00	0,00	0,00	0,00	0	0,00
3.1.4	Commissioning and Testing as specified	ea	0	R18 655,00	0,00	18 655,00	0,00	0	0,00
3	Alternative Compulsory Offer: APC Schneider	ea					0,00		
3.2.1	120kVA UPS system	ea	2	R186 781,14	0,00	186 781,14	373 562,28	2	373 562,28
3.2.2	10 Min Battery System - Similar and equal to EnerSys PowerSafe 10 year batteries	ea	2	R161 091,81	0,00	161 091,81	322 183,62	2	322 183,62
3.2.3	Static Switches	ea	2	R175 486,04	0,00	175 486,04	350 972,08	2	350 972,08
3.2.4	Commissioning and Testing as specified	ea	1	R28 418,80	0,00	28 418,80	28 418,80	1	28 418,80
3	Supply, delivery, installation and commissioning of the Generator System and Bulk Diesel Tank as specified and detailed in Part 3 of the Electrical Tender Specification, Section 3.11								
3.3.1	800kVA Diesel Generator Sets, including sound attenuation and all accessories as specified	ea	2	R1 760 781,90	0,00	1 760 781,90	3 521 563,80	2	3 521 563,80

ITEM	DESCRIPTION	As Per Tender						Installed to date	
		UNIT	QTY	SUPPLY	INSTALL	RATE	TOTAL	QTY	TOTAL
3.3.2	Synch Panel as specified	ea	1	R417 569,63	0,00	417 569,63	417 569,63	1	417 569,63
3.3.3	Bulk Diesel Tank 20 000 litre, including all piping, pumps and accessories etc. (EXISTING DIESEL TANKS TO BE USED, NO NEW BULK TANK. ALLOWNACE TO BE MADE FOR ALTERATIONS TO PIPING ONLY)	ea	1			30 000,00	30 000,00	1	30 000,00
3.3.4	Commissioning and Testing as specified	ea	1	R57 165,28	0,00	57 165,28	57 165,28	1	57 165,28
3	Supply, delivery, installation and commissioning of 1 x new Dry-type Transformers as specified and detailed in Part 3 of the Electrical Tender Specification, Section 3.14 (ONLY ONE NEW TRANSFORMER TO BE SUPPLIED AND INSTALLED, WITH AUTO TAP CHANGER OR VOLTAGE REGULATOR)	ea	1	R714 081,12	3 396,38	717 477,50	717 477,50	1	717 477,50
4	Supply, delivery, installation and commissioning of the under floor busbar system as specified and detailed in Part 3 of the Electrical Tender Specification, Section 3.7	ea	1	R874 833,66	0,00	874 833,66	874 833,66	1	874 833,66
4	Supply, delivery, installation and commissioning of the Lighting Control System as specified and detailed in Part 3 of the Electrical Tender Specification, Section 3.8	ea	1	R492 625,25	0,00	492 625,25	492 625,25	1	492 625,25
4	Supply, delivery, installation and commissioning of the Energy Monitoring System as specified and detailed in Part 3 of the Electrical Tender Specification, Section 3.10	ea	1	R297 650,98	0,00	297 650,98	297 650,98	1	297 650,98
4	Provisional Sum Allowance for redirecting of electrical services in ceiling voids and in floor voids, to suite the new installation	ea	1			50 000,00	50 000,00	1	50 000,00
4	Provisional Sum Allowance for temporary electrical supplies to assist with phasing of works	ea	1			50 000,00	50 000,00	1	50 000,00
<b>Total Tender amount</b>							<b>17 048 164,39</b>		<b>17 048 164,39</b>

ITEM	DESCRIPTION	As Per Tender						Installed to date	
		UNIT	QTY	SUPPLY	INSTALL	RATE	TOTAL	QTY	TOTAL
	<b>Variations to Contract</b>								
	VO 1 Generator Variations						418 775,39		418 775,39
	VO 2 - DB alterations						193 552,29		193 552,29
	VO3 - Late Payments as per schedule						60 379,42		60 379,42
	VO3 - Site instructions submitted in previous claims						457 379,61		457 379,61
	VO3.1 - Site instructions submitted herein (TBA)						1 723 535,33		1 723 535,33
	VO4 - Temp supplies to Ground Floor						36 367,48		36 367,48
	VO5 - Replace BTU in substation						20 563,64		20 563,64
	VO6- Canteen Installation						251 975,89		251 975,89
	VO7- Provisional sum Expenditure						27 533,30		27 533,30
	VO 8 - Extension of Time (amount revised to 60% of original claim)						394 380,00		394 380,00
	VO 9 - Stolen earth cables						70 070,00		70 070,00
	<b>Sub Total for Variations</b>						<b>3 654 512,34</b>		<b>3 654 512,34</b>
<b>TOTAL EXCLUDING VAT</b>							<b>20 702 676,73</b>		<b>20 702 676,73</b>