

ITEM NO	DESCRIPTION	Unit	QUANTITY	RATE	AMOUNT
	Brought Forward			R	
	<u>Extra over bulk excavations, excavations for trenches and excavations for holes</u>				
2/18/525	Trenches, holes, etc	m ³	9		
	<u>Filling</u>				
	<u>Earth filling obtained from the excavation (not compacted)</u>				
2/18/526	Backfilling to trenches, holes, etc	m ³	29		
	<u>Filling of G7 material in accordance with SABS 1200 DM compacted to 98% Mod AASHTO density</u>				
2/18/527	Trenches, holes, etc	m ³	39		
	<u>Concrete components</u>				
	<u>Class 25/19 concrete against excavated surfaces</u>				
2/18/528	Strip footings	m ³	68		
2/18/529	Bases	m ³	24		
	<u>Test blocks and testing</u>				
2/18/530	Making and testing 150 x 150 x 150mm concrete strength test cubes	No	10		
	<u>Reinforcement</u>				
	<u>Mild steel reinforcement to structural concrete work</u>				
2/18/531	8mm diameter bars	t	1.00		
	<u>High tensile steel reinforcement to structural concrete work</u>				
2/18/532	12mm diameter bars	t	3.50		
	Carried Forward			R	
	Bill No. 18 External Work (Provisional) Moletlane Police Station				

211

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ITEM NO	DESCRIPTION	Unit	QUANTITY	RATE	AMOUNT
	Brought Forward			R	
	<u>Walls and linings</u>				
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class 1 mortar in foundations</u>				
2/18/533	One brick walls	m ²	233		
2/18/534	Brick piers, size 450 x 450mm	m	78		
	<u>Brickwork of NFP bricks in class II mortar in superstructure</u>				
2/18/535	Brick piers, size 450 x 450mm	m	320		
	<u>Reinforcement to brickwork</u>				
	<u>2.5mm Brickwork reinforcement</u>				
2/18/536	150mm Wide reinforcement built in horizontally	m	12,258		
	<u>Face brickwork</u>				
	<u>Face bricks (purchase price of R 6000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>				
2/18/537	Extra over brickwork in foundations for face brickwork	m ²	625		
	<u>Walls faced both sides</u>				
	<u>Face bricks (purchase price of R 6000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>				
2/18/538	One brickwork in face brick walls pointed both sides	m ²	567		
	<u>Face brick copings, lintels, sills, etc</u>				
2/18/539	Coping on top of one brick wall	m	435		
	Carried Forward			R	
	Bill No. 18 External Work (Provisional) Moletlane Police Station				

212
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ITEM NO	DESCRIPTION	Unit	QUANTITY	RATE	AMOUNT
	Brought Forward			R	
	<u>Steelwork</u>				
	<u>Steel fencing panels in between brick piers</u>				
2/18/540	Powder-coated steel fencing panels, size 2080 x 1685mm high including horizontal bands, flanges, bolts, etc	No	60		
	<u>Gates</u>				
2/18/541	Purpose made steel sliding gate, size 6560 x 2100mm high formed from 40 x 40 x 2mm welded angle iron paling; 76 x 38 x 2mm rectangular tubing frame rod welded to 40 x 40 x 5mm angle iron fixed into a 300 x 400 x 6560 concrete base; gate posts formed of 75 x 75 x 2mm steel square tubing 2400mm overall length planted into 450 x 450 x 600mm concrete base; and approved powder-coated fencing panels in between main steel members including horizontal bands, flanges, bolts, etc	No	2		
2/18/542	Purpose made pedestrian gate, size 1000 x 2100mm high formed from 40 x 40 x 2mm welded angle iron paling; 50 x 25 x 1.6mm rectangular tubing frame; gate posts formed of 75 x 75 x 2mm steel square tubing 2400mm overall length planted into 450 x 450 x 600mm concrete base; and approved powder-coated fencing panels in between main steel members including horizontal bands, flanges, bolts, etc	No	1		
	<u>Sundries</u>				
2/18/543	460 x 460mm pre-cast concrete caps to brick piers	No	42		
2/18/544	Continuous razor wire security roll to top of fence flat wrapped in 600mm diameter rings, tied together and to straining wire at 3000mm centres	m	450		
	<u>WASHING LINES</u>				
	<u>Washing lines</u>				
2/18/545	Bronze aluminium folding wash line, size 2000 x 800mm	No	3		
	Carried Forward to Summary of Section No. 2			R	
	Bill No. 18 External Work (Provisional) Moletlane Police Station				

213
MS
5/5/11

Section No. 2

SECTION NO. 2 - BUILDING WORK

SECTION SUMMARY - SECTION NO. 2 - BUILDING WORK

Bill No		Page No	Amount R
2/1	Alterations	45	
2/2	Earthworks (Provisional)	49	
2/3	Concrete, Formwork and Reinforcement	54	
2/4	Masonry	61	
2/5	Waterproofing	64	
2/6	Roof Coverings, Claddings, Etc	66	
2/7	Carpentry and Joinery	76	
2/8	Ceilings, Partitions and Access Flooring	79	
2/9	Floor Coverings, Wall Linings, Etc	81	
2/10	Ironmongery	93	
2/11	Structural Steelwork	96	
2/12	Metalwork	105	
2/13	Plastering	108	
2/14	Tiling	111	
2/15	Plumbing and Drainage (Provisional)	124	
2/16	Glazing	126	
2/17	Paintwork	129	
2/18	External Work (Provisional)	145	

Carried to Final Summary

Moletlane Police Station

R

214

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ITEM NO	DESCRIPTION	QUANTITY	RATE	AMOUNT
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 1</u></p> <p><u>ELECTRICAL WORK</u></p> <p><u>PREAMBLES FOR TRADES</u></p> <p>The General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained</p> <p>Supplementary preambles and/or specifications are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the General Preambles</p> <p>The contractor's prices for all items throughout these bills of quantities shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications</p> <p>The electrical works shall be LIC. Priority should be given to qualified local electricians</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>SAPS - Project 5-Star Specifications 2012</u></p> <p>Where applicable the South African Police Service (SAPS) Project 5-Star Specifications 2012 for police cells should be consulted for more information. The contractor will be responsible and liable for any unapproved deviations from the specifications.</p> <p><u>CPAP WORK GROUP</u></p> <p>Unless otherwise stated, all items in this bill will be Work Group 160</p>			
	Carried Forward		R	
	<p>Bill No. 1 Electrical Work Moletlane Police Station</p>			<p>215</p> <p>M  SM</p>

ITEM NO	DESCRIPTION		QUANTITY	RATE	AMOUNT
A	MEDIUM VOLTAGE (MV) RETICULATION				
A.1	MV RETICULATION				
A.1.1	Supply and Install 315kVA 22kV / 400V pole mounted transformer complete with structures and poles	No	1		
A.2	Low Voltage PVC Cables				
	Supply and installation of PVC SWA PVC cable and Bare Copper Earth Wire in sleeves and in trenches				
A.2.1	240mm ² 4 core PVC SWA Cable	m	100		
A.2.2	35mm ² 4 core PVC SWA Cable	m	70		
A.2.3	95mm ² BCEW	m	100		
A.2.4	25mm ² BCEW	m	70		
A.2.5	Supply and install Main-kiosk as per drawings complete with breakers	No	1		
A.2.6	Supply and install Sub-kiosk as per drawings complete with breakers	No	1		
A.2.7	Concrete cable markers	No	30		
A.2.8	800mm x 800mm concrete manhole	No	15		
A.3	<u>Excavation and Trenching</u>				
A.3.1	Excavation and backfilling in soft soil	m ³	54		
A.3.2	Excavation and backfilling in hard rock	m ³	9		
A.4	<u>Cable and Data Sleeves</u>				
A.4.1	75mm Diameter for Data	m	100		
A.4.2	110mm Diameter for power cable	m	100		
	<u>Radius bends:</u>				
A.4.3	75mm Diameter	No	6		
A.4.4	110mm Diameter	No	6		
A.5	<u>Danger Tape</u>				
A.5.1	Electrical Danger tape	m	1000		
	Carried Forward				

Bill No. 1
 Electrical Work
 Moletlane Police Station

R

216
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ITEM NO	DESCRIPTION	QUANTITY	RATE	AMOUNT
	Brought Forward		R	-
B	BUILDING - BLOCK A, E & F			
B.1	<u>Excavation and Trenching</u>			
	General trenching workfor sleeves along the routes as pegged out on site after co-ordination with other services			
B.1.1	Excavation and backfilling in soft soil	m ³	9	
B.1.2	Excavation and backfilling in hard rock	m ³	5,4	
B.2	<u>Cable and Data Sleeves</u>			
	Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends			
B.2.1	75mm Diameter for Data	m	50	
B.2.2	110mm Diameter for power cable	m	100	
	<u>Radius bends:</u>			
B.2.3	75mm Diameter	No	4	
B.2.4	110mm Diameter	No	4	
B.3	<u>Draw Wires</u>			
	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation			
B3.1		m	1000	
B.4	<u>Distribution Boards</u>			
	Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays,doors,switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized interna			
B.4.1	Supply and install DB - MAIN as per drawing	No	1	
	Carried Forward		R	

Bill No. 1
Electrical Work
Moletlane Police Station

217

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ITEM NO	DESCRIPTION		QUANTITY	RATE	AMOUNT
	Brought Forward			R	-
B.5	<u>Low Voltage PVC Cables</u> Supply and installation of PVC SWA PVC cable and Bare Copper Earth Wire in sleeves and in trenches				
B.5.1	70mm ² 4 core PVC SWA Cable	m	50		
B.5.2	50mm ² BCEW	m	50		
B.5.3	35mm ² 4 core PVC SWA Cable	m	50		
B.5.4	16mm ² BCEW	m	50		
	<u>Terminations:</u>				
B.5.5	70mm ² 4 core PVC SWA Cable	No	2		
B.5.6	50mm ² BCEW	No	2		
C.5.7	25mm ² 4 core PVC SWA Cable	m	2		
C.5.8	16mm ² BCEW	m	2		
B.6	<u>Conduit Work</u> Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	<u>Built or Chase into brick or concrete work:</u>				
B.6.1	20mm PVC Conduit	m	3000		
B.6.2	25mm PVC Conduit	m	1500		
	<u>In Ceiling space and Tinber work:</u>				
B.6.3	20mm PVC Conduit	m	1500		
B.6.4	25mm PVC Conduit	m	750		
	Carried Forward			R	218
	Bill No. 1 Electrical Work Moletlane Police Station				M 5m

ITEM NO	DESCRIPTION		QUANTITY	RATE	AMOUNT
	Brought Forward			R	-
B.7	<u>Conduit Boxes</u> Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.				
B.7.1	20mm diameter 4 way type (round box)	No	300		
B.8	<u>Wall Boxes</u> Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work. <u>Flush mounted type:</u>				
B.8.1	100 x 50 x 50mm	No	50		
B.8.2	100 x 100 x 50mm	No	30		
B.9	<u>PVC Wiring</u> <u>PVC Wiring in conduits:</u>				
B.9.1	2.5mm ² for lights circuits	m	6000		
B.9.2	4mm ² for plug sockets circuits	m	4000		
B.9.3	6mm ² for Airconditioning circuits	m	2000		
B.10	<u>Stranded Bare Copper Earth Wire</u> Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.				
B.10.1	1.5mm ²	m	3000		
B.10.2	2.5mm ²	m	2000		
B.10.3	4mm ²	m	1000		
	Carried Forward			R	

Bill No. 1
Electrical Work
Moletlane Police Station

219
M
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ITEM NO	DESCRIPTION	QUANTITY	RATE	AMOUNT
	Brought Forward		R	-
B.11	<u>Light Switches</u> Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting meas			
B.11.1	1 Lever 1 way	No 50		
B.11.2	1 Lever 2 way	No 6		
B.11.3	Occupancy sensor 1 Lever 1 way, S1 Type	No 15		
B.11.4	Occupancy sensor 1 Lever 1 way, S2 Type	No 35		
B.12	<u>Socket Outlets</u> Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface. <u>Flush switched sockets type:</u>			
B.12.1	16A 3 pin double socket outlets	No 10		
B.12.2	16A SA/Euro combined socket outlet	No 20		
B.13	<u>Light Fittings</u> Suppy, delievery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories. Fittings to be equal and similar approved to the below quoted manufacture.			
B.13.1	Wall mounted fitting 20W LED bulk head, Type B	No 20		
B.13.2	600x600 Recessed Flourescent 35W LED LBR, Type L2	No 20		
	Carried Forward		R	220

Bill No. 1
Electrical Work
Moletlane Police Station

220
M
5m

ITEM NO	DESCRIPTION		QUANTITY	RATE	AMOUNT
	Brought Forward			R	-
B.13.3	600x600 Recessed Flourescent 35W LED LBR with one hour battery backup, Type L2B	No	10		
B.13.4	1200x600 Recessed Flourescent 60W LED LBR, Type L3	No	35		
B.13.5	1200x600 Recessed Flourescent 60W LED LBR with one hour battery backup, Type L3B	No	15		
B.13.6	1200mm 40W LED Open channel light fitting - Interior, Type F	No	10		
B.13.7	15W LED circular downlighters, Type D	No	35		
B.13.8	15W LED circular downlighters with one hour backup, Type D1	No	20		
B.13.9	15W LED Strong Room Bulkhead, Red Colour, Type B	No	4		
B.14	<u>Electrical Tests</u>				
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
B.14.1	Building installation	Sum	1		
B.15	<u>Others</u>				
B.15.1	300 x 300mm - Telephone DB	No	1		
B.15.2	100 x 100 x 50mm - Draw box for Communication complete with blank cover	No	1		
B.15.3	2 compartment power skirting installed in offices	m	300		
B.15.4	Telephone points	No	40		
B.15.5	Data points	No	40		
B.15.6	16A power socket outlet on power skirting	No	40		
B.15.7	16A power dedicated socket outlet on power skirting	No	40		
	Carried Forward			R	
	Bill No. 1 Electrical Work Moletlane Police Station				

221
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ITEM NO	DESCRIPTION	QUANTITY	RATE	AMOUNT
	Brought Forward		R	-
C	BUILDING - BLOCK B & C			
C.1	<u>Excavation and Trenching</u>			
	General trenching work for sleeves along the routes as pegged out on site after co-ordination with other services			
C.1.1	Excavation and backfilling in soft soil	m ³ 9		
C.1.2	Excavation and backfilling in hard rock	m ³ 5,4		
C.2	<u>Cable and Data Sleeves</u>			
	Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends			
C.2.1	75mm Diameter for Data	m 50		
C.2.2	110mm Diameter for power cable	m 100		
	<u>Radius bends:</u>			
C.2.3	75mm Diameter	No 4		
C.2.4	110mm Diameter	No 4		
C.3	<u>Draw Wires</u>			
C3.1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m 1000		
C.4	<u>Distribution Boards</u>			
	Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays, doors, switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized interna			
C.4.1	Supply and install DB - CELL as per drawing	No 1		
D.4.2	Supply and install DB - Wash bay as per drawing	No 1		
	Carried Forward		R	

Bill No. 1
Electrical Work
Moletlane Police Station

273
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ITEM NO	DESCRIPTION	QUANTITY	RATE	AMOUNT
	Brought Forward		R	-
C.5	<u>Low Voltage PVC Cables</u>			
	Supply and installation of PVC SWA PVC cable and Bare Copper Earth Wire in sleeves and in trenches			
C.5.1	16mm ² 4 core PVC SWA Cable	m	100	
C.5.2	10mm ² BCEW	m	100	
C.5.3	10mm ² 2 core PVC SWA Cable	m	250	
C.5.4	6mm ² BCEW	m	250	
	<u>Terminations:</u>			
C.5.5	16mm ² 4 core PVC SWA Cable	No	4	
C.5.6	10mm ² BCEW	No	4	
C.5.7	10mm ² 2 core PVC SWA Cable	No	4	
C.5.8	6mm ² BCEW	No	4	
C.6	<u>Conduit Work</u>			
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.			
	<u>Built or Chase into brick or concrete work:</u>			
C.6.1	20mm PVC Conduit	m	1500	
C.6.2	25mm PVC Conduit	m	1000	
	<u>In Ceiling space and Timber work:</u>			
C.6.3	20mm PVC Conduit	m	750	
C.6.4	25mm PVC Conduit	m	500	
	Carried Forward		R	224

Bill No. 1
 Electrical Work
 Moletlane Police Station

224

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ITEM NO	DESCRIPTION	QUANTITY	RATE	AMOUNT
	Brought Forward		R	-
C.7	<u>Conduit Boxes</u> Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.			
C.7.1	20mm diameter 4 way type (round box)	No	50	
C.8	<u>Wall Boxes</u> Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work. <u>Flush mounted type:</u>			
C.8.1	100 x 50 x 50mm	No	10	
C.8.2	100 x 100 x 50mm	No	15	
C.9	<u>PVC Wiring</u> <u>PVC Wiring in conduits:</u>			
C.9.1	2.5mm ² for lights circuits	m	2000	
C.9.2	4mm ² for plug sockets circuits	m	1500	
C.9.3	6mm ² for Airconditioning circuits	m	1000	
C.10	<u>Stranded Bare Copper Earth Wire</u> Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.			
C.10.1	1.5mm ²	m	1000	
C.10.2	2.5mm ²	m	750	
C.10.3	4mm ²	m	500	
	Carried Forward		R	-

Bill No. 1
Electrical Work
Moletlane Police Station

M
225
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ITEM NO	DESCRIPTION	QUANTITY	RATE	AMOUNT
	Brought Forward		R	-
C.11	<u>Light Switches</u> Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting meas			
C.11.1	1 Lever 1 way	No 5		
C.11.2	1 Lever 2 way	No 2		
C.11.3	Occupancy sensor 1 Lever 1 way, S1 Type	No 4		
D.11.4	Occupancy sensor 1 Lever 1 way, S2 Type	No 2		
C.12	<u>Socket Outlets</u> Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface. <u>Flush switched sockets type:</u>			
C.12.1	16A 3 pin double socket outlets	No 4		
C.12.2	16A SA/Euro combined socket outlet	No 6		
C.13	<u>Light Fittings</u> Suppy, deliever to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories. Fittings to be equal and similar approved to the below quoted manufacture.			
C.13.1	Wall mounted fitting 20W LED bulk head, Type B	No 12		
C.13.2	Rough guard 7W LED Luminaire With ECG, Type R	No 12		
	Carried Forward		R	-

Bill No. 1
Electrical Work
Molelane Police Station

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226 5m

ITEM NO	DESCRIPTION		QUANTITY	RATE	AMOUNT
	Brought Forward			R	-
C.13.3	Rough guard 15W LED Luminaire With ECG, Type R1	No	15		
C.13.4	Rough guard 15W LED Luminaire With ECG with night light, Type r1	No	6		
C.13.5	Rough guard 26W LED Luminaire With ECG, Type R2	No	15		
C.13.6	Rough guard 56W LED Luminaire With ECG, Type R3	No	6		
C.13.7	600x600 Recessed Fluorescent 35W LED LBR, Type L2	No	10		
C.13.8	600x600 Recessed Fluorescent 35W LED LBR with one hour battery backup, Type L2B	No	4		
C.13.9	15W LED circular downlighters, Type D	No	6		
C.13.10	15W LED circular downlighters with one hour backup, Type D1	No	2		
C.14	<u>Electrical Tests</u>				
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
C.14.1	Building installation	Item	1		
C.15	<u>Others</u>				
C.15.1	300 x 300mm - Telephone DB	No	1		
C.15.2	100 x 100 x 50mm - Draw box for Communication complete with blank cover	No	1		
C.15.3	2 compartment power skirting installed in offices	m	10		
C.15.4	Telephone points	No	2		
C.15.5	Data points	No	2		
C.15.6	16A power socket outlet on power skirting	No	2		
	Carried Forward			R	

Bill No. 1
 Electrical Work
 Moletlane Police Station

227

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ITEM NO	DESCRIPTION	QUANTITY	RATE	AMOUNT
	Brought Forward		R	-
D	BUILDING - BLOCK D			
D.1	<u>Excavation and Trenching</u>			
	General trenching work for sleeves along the routes as pegged out on site after co-ordination with other services			
D.1.1	Excavation and backfilling in soft soil	m ³	18	
D.1.2	Excavation and backfilling in hard rock	m ³	9	
D.2	<u>Cable and Data Sleeves</u>			
	Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends			
D.2.1	75mm Diameter for Data	m	50	
D.2.2	110mm Diameter for power cable	m	50	
	<u>Radius bends:</u>			
D.2.3	75mm Diameter	No	6	
D.2.4	110mm Diameter	No	6	
D.3	<u>Draw Wires</u>			
	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	300	
D.4	<u>Distribution Boards</u>			
	Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays, doors, switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized interna			
D.4.1	Supply and install DB - UNIT as per drawing	No	3	
	Carried Forward		R	229

Bill No. 1
Electrical Work
Moletlane Police Station

229
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ITEM NO	DESCRIPTION	QUANTITY	RATE	AMOUNT
	Brought Forward		R	-
D.5	<u>Low Voltage PVC Cables</u>			
	Supply and installation of PVC SWA PVC cable and Bare Copper Earth Wire in sleeves and in trenches			
D.5.1	10mm ² 2 core PVC SWA Cable	m	150	
D.5.2	10mm ² BCEW	m	150	
	<u>Treminations:</u>			
D.5.3	10mm ² 2 core PVC SWA Cable	No	6	
D.5.4	10mm ² BCEW	No	6	
D.6	<u>Conduit Work</u>			
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.			
	<u>Built or Chase into brick or concrete work:</u>			
D.6.1	20mm PVC Conduit	m	600	
D.6.2	25mm PVC Conduit	m	300	
	<u>In Ceiling space and Tinber work:</u>			
D.6.3	20mm PVC Conduit	m	300	
D.6.4	25mm PVC Conduit	m	150	
D.7	<u>Conduit Boxes</u>			
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.			
D.7.1	20mm diameter 4 way type (round box)	No	30	
	Carried Forward		R	

Bill No. 1
Electrical Work
Moletlane Police Station

230

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ITEM NO	DESCRIPTION	QUANTITY	RATE	AMOUNT
	Brought Forward		R	-
D.8	<u>Wall Boxes</u> Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work. <u>Flush mounted type:</u>			
D.8.1	100 x 50 x 50mm	No	15	
D.8.2	100 x 100 x 50mm	No	18	
D.9	<u>PVC Wiring</u> <u>PVC Wiring in conduits:</u>			
D.9.1	2.5mm ² for lights circuits	m	1500	
D.9.2	4mm ² for plug sockets circuits	m	900	
D.9.3	6mm ² for Airconditioning circuits	m	300	
D.10	<u>Stranded Bare Copper Earth Wire</u> Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.			
D.10.1	1.5mm ²	m	750	
D.10.2	2.5mm ²	m	450	
D.10.3	4mm ²	m	150	
D.11	<u>Light Switches</u> Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting meas			
D.11.1	1 Lever 1 way	No	15	
D.11.2	1 Lever 2 way	No	3	
	Carried Forward		R	-

Bill No. 1
Electrical Work
Moletlane Police Station

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231
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ITEM NO	DESCRIPTION	QUANTITY	RATE	AMOUNT
	Brought Forward		R	-
D.12	<u>Socket Outlets</u> Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface. <u>Flush switched sockets type:</u>			
D.12.1	16A 3 pin double socket outlets	No	15	
D.12.2	16A SA/Euro combined socket outlet	No	12	
D.13	<u>Light Fittings</u> Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories. Fittings to be equal and similar approved to the below quoted manufacture.			
D.13.1	Wall mounted fitting 20W LED bulk head, Type B	No	30	
D.13.2	1500mm 50W LED Open channel light fitting - Interior, Type C	No	6	
D.13.3	15W LED circular downlighters, Type H	No	12	
D.13.4	15W LED 8" Bowl fitting, Type F	No	12	
D.14	<u>Electrical Tests</u> Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.			
D.14.1	Building installation	Sum	1	
D.15	<u>Others</u>			
D.15.1	25A weather proof S.P Isolator points	No	6	
D.15.2	TV Socket	No	3	
	Carried Forward		R	237

Bill No. 1
Electrical Work
Molelane Police Station

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ITEM NO	DESCRIPTION	QUANTITY	RATE	AMOUNT
	Brought Forward		R	-
E	LIGHTNING PROTECTION			
E.1	<u>Lightning Protection</u>			
	Supply and Install lightning protection according to SANS 10313 in conjunction with SANS62305-1 to prevent damage by lightning			
E.1.1	Supply and Install 1,5m earth spike complete with clamps	No	36	
E.1.2	70mm ² bare copper earth wire	m	500	
E.1.3	Test points between down conductor and earth electrode conductor complete installed with lugs, bolts, nuts and washers as specified	No	20	
E.1.4	Bonding of down conductors to roof sheeting complete installed with lugs, bolts, nuts and washers as specified	No	20	
E.2	<u>Excavation and Trenching</u>			
E.2.1	Excavation and backfilling in soft soil	m ³	18	
E.2.2	Excavation and backfilling in hard rock	m ³	9	
E.3	Testing and Comissioning			
E.3.1	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.	Item	1	
	Carried Forward		R	

Bill No. 1
Electrical Work
Moletlane Police Station

233

57

ITEM NO	DESCRIPTION	QUANTITY	RATE	AMOUNT
	Brought Forward		R	-
F	AREA LIGHTING			
F.1	<u>Public Lighting</u>			
F.1.1	38W LED BEKA Zela fitting with electronic gear.to be approved by the Engineer.	No	120	
F.1.2	Excavation and backfilling in soft soil	m ³	54	
F.1.3	Excavation and backfilling in hard rock	m ³	36	
F.1.4	6mm2 4 core PVC SWA Cable	m	500	
F.1.5	4mm2 BCEW	m	500	
	<u>Treminations:</u>			
F.1.6	6mm2 4 core PVC SWA Cable	No	240	
F.1.7	4mm2 BCEW	No	240	
F.1.8	Electrical Danger tape	m	500	
	Carried Forward		R	

Bill No. 1
 Electrical Work
 Moletlane Police Station

2314

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ITEM NO	DESCRIPTION		QUANTITY	RATE	AMOUNT
	Brought Forward			R	-
G	CLOSED CIRCUIT TELEVISION				
G.1	<u>Closed Circuit Television</u>				
	Supply and Install electrical security system as per SANS10222 (5-1-1 to 5-1-5)				
G.1.1	2MP, IP Infra Red, Static Indoor Camera, 2.8mm fixed, IP 66	No	6		
G.1.2	3MP, IP Infra Red, Mini dome indoor Camera, with 3,6mm fixed, IP 65	No	8		
G.1.3	3MP , IP Infra Red, Outdoor Camera, with 2.0mm to 12mm Lens, IP 66	No	8		
G.1.4	24 Port Switch 10 / 100 Ethernet Switch PoE	No	1		
G.1.5	24U Cabinet incl Fans & Power	No	1		
G.1.6	RJ 45 Connectors	No	20		
G.1.7	12 Core fibre optic cable, blowing 12 / 10	m	50		
G.1.8	Cat 6 cable	m	200		
G.2	<u>Installation and Commissioning</u>				
G.2.1	Provide manuals and technical literature for the system and its components	Item	1		
G.2.2	Any additional items required for the successful completion of the above	Item	1		
	Carried Forward			R	

Bill No. 1
Electrical Work
Moletlane Police Station

235



ITEM NO	DESCRIPTION		QUANTITY	RATE	AMOUNT
	Brought Forward			R	-
H	STANDBY GENERATOR AND BATTERY BANK				
H.1	<u>Standby Generator and Battery Bank</u>				
H.1.1	The supply, off-loading positioning and installation of 315kVA @400V complete with automatic change over switch, weather proof canopy, soundproof, and concrete plinth.	No	1		
H.1.2	55kW Peak Pure Sinewave Hybrid Inverter 48V - 3 phase	No	1		
H.1.3	5.12kWh Lithium Battery 48V	No	40		
H.1.4	Rack Battery Mount	No	40		
H.1.5	6mm ² Wire 70A/1000V Red	m	500		
H.1.6	6mm ² Wire 70A/1000V Black	m	500		
H.1.7	6mm Long Insulated Lug	No	50		
H.1.8	6mm Short Insulated Lug	No	50		
H.2	<u>Low Voltage PVC Cables</u>				
	Supply and installation of PVC SWA PVC cable and bare copper earth wire.				
H.2.1	35mm ² 4 core PVC SWA Cable	m	100		
H.2.2	25mm ² BCEW	m	100		
H.1.7	25mm ² 4 core PVC SWA Cable	m	20		
H.1.8	10mm ² BCEW	m	20		
	<u>Terminations:</u>				
H.2.3	35mm ² 4 core PVC SWA Cable	No	4		
H.2.4	25mm ² BCEW	No	4		
H.2.9	25mm ² 4 core PVC SWA Cable	No	4		
H.2.10	10mm ² BCEW	No	4		
	Carried Forward			R	-

Bill No. 1
Electrical Work
Moletlane Police Station

M -

236

ITEM NO	DESCRIPTION		QUANTITY	RATE	AMOUNT
	Brought Forward			R	-
H.3	<u>Electrical Tests</u>				
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
H.3.1	Testing and commissioning	Sum	1		
H.4	<u>Other</u>				
H.4.1	Allowance for earthing and lightning protection	Sum	1		
H.5	<u>Installation and Commissioning</u>				
H.5.1	Provide manuals and technical literature for the system and its components	Item	1		
H.5.2	Any additional items required for the succesful completion of the above	Item	1		
	Carried Forward			R	-

Bill No. 1
 Electrical Work
 Moletlane Police Station

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ITEM NO	DESCRIPTION		QUANTITY	RATE	AMOUNT
	Brought Forward			R	-
J	ACCESS CONTROL SYSTEM				
J.1.1	Ethernet Access system control box with 6 controllers	No	13		
J.1.2	Magnetic lock 300kg	No	26		
J.1.3	Z&L Bracket for SP300kg Maglock	No	26		
J.1.4	Green Call Point-Resettable	No	26		
J.1.5	Door Closer Heavy duty	No	26		
J.1.6	HID Card and Biometric access terminals readers	No	26		
J.1.7	4 Core fibre optic cable	m	100		
J.1.8	Cat 6 cable	m	500		
J.1.9	Installation and Commissioning	Item	1		
J1.10	Provide manuals and technical literature for the system and its components	Item	3		
J1.11	Any additional items required for the succesful completion of the above	Item	3		
	Carried Forward to Summary of Section No. 3			R	-

Bill No. 1
 Electrical Work
 Moletlane Police Station

239

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ITEM NO	DESCRIPTION	QUANTITY	RATE	AMOUNT
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 2</u></p> <p><u>MECHANICAL WORK</u></p> <p><u>PREAMBLES FOR TRADES</u></p> <p>The General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained</p> <p>Supplementary preambles and/or specifications are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the General Preambles</p> <p>The contractor's prices for all items throughout these bills of quantities shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>SAPS - Project 5-Star Specifications 2012</u></p> <p>Where applicable the South African Police Service (SAPS) Project 5-Star Specifications 2012 for police cells should be consulted for more information. The contractor will be responsible and liable for any unapproved deviations from the specifications.</p> <p><u>CPAP WORK GROUP</u></p> <p>Unless otherwise stated, all items in this bill will be Work Group 170</p>			
	Carried Forward		R	
	<p>Bill No. 2 Mechanical Work Molelane Police Station</p>			

240 