

Item No		Quantity	Rate	Amount
	<u>One layer of 250 micron "Consol Plastics Gunplas USB Green" or equal approved waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape" or equal approved tape</u>			
137	Under surface beds, paving, etc.	m2	11	
	<b><u>PROFIED METAL SHEETING AND ACCESSORIES (WORK GROUP 124)</u></b>			
	<u>0,58mm thick "ZincAl (AZ150)" or equal approved IBR profile corrugated galvanised steel sheeting with ColorPlus Rainforest coated finish to one side and a cool grey backing coat with side laps sealed fixed to timber purlins or rails using Class 3 fasteners with drilled fixing holes, installed as per manufacturers instructions</u>			
138	Roof covering with pitch not exceeding 25 degrees	m2	22	
139	Hip capping 462mm girth three times bent	m	10	
140	"Sondor" or equal approved polyclosures to suit profile of roof sheeting	m	18	
	<u>"Sisalation FR 430" or equal approved fire retardant industrial grade reinforced aluminium foil insulation double sided, durable, reflective foil laminate incorporating a fire retardant between the various substrates, bonded together with low density polyethene, tested for conformance with SANS 1381-4:2009 , with a Class 1 fire rating in accordance with SANS 10177 - 3:2005 and ASTM E84 and BS 476 part 5, 6 and 7</u>			
141	Insulation laid taut over purlins (at approximately 1200mm centres) and fixed concurrent with roof covering with 1,6mmØ double galvanised straining wires at 275mm centres securely fixed across top of purlins, Sisalation roll cut to size and suspended between the purlins and pulled between wires and roof sheets by attached pull wire. Sisalation folded over first and last span wires and securely stapled to itself, all as per the manufacturer's instructions	m2	22	
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**CARPENTRY & JOINERY (WORK GROUP 126)**

**Roof trusses: Prefabricated roof trusses**

- a) The design of the prefabricated roof trusses, bracing and secondary members forming part of the total roof construction shall be prepared by a professional structural engineer (Truss System Engineer) strictly in accordance with SABS 0163 for the design of timber structures.
- b) Erection must be carried out as described in "The erection and Bracing of Timber Roof Trusses" published by the Truss Plate Association of South Africa Ltd. and the National Timber Research Institute, CSIR.
- c) Descriptions of roof trusses shall be deemed to include for design, manufacture, supply, hoisting and fixing in position, trimming ends, notching, etc. and for any temporary and permanent bracing
- d) The Contractor shall complete and submit the letters of reference TR1 and TR2.

**Prefabricated plate nailed timber roof truss construction**

The following is applicable in respect of roof trusses:

Trusses are at maximum 1200mm centres. Roof covering is 0,58mm corrugated galvanised steel roof sheeting on timber purlins. Cellings are nailed up and suspended with varying thickness from 4 - 9mm on T-Grid system. The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from site before design or fabrication commences

**Prefabricated plate nailed timber roof truss construction formed of sawn softwood with patent galvanised plate nailed connections fixed in position not exceeding 3500mm high above floor level**

Tenderers are referred to Architects drawing numbered K021 04-552 attached to these bills of quantities for tender purposes

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Item No		Quantity	Rate	Amount
142	Roof construction to double pitched roof overall size 4,440 x 4,440 x 1,100mm high with four hips to ridge and with 600mm wide overhangs including trusses, rafters, bracings, cleats, etc. (purlins and wall plates elsewhere measured)	No 1		
	<u>Sawn softwood grade 4</u>			
143	38 x 76mm Wall plates	m 13		
144	50 x 76mm Purlins	m 37		
145	50 x 76mm Splayed Purlins	m 4		
	<u>Sundries</u>			
146	Two coats creosote on sawn timbers	m2 1		
	<u>"Everite FC77" or equal approved pressed fibre-cement</u>			
147	Eaves soffit covering 600mm wide of 9mm thick sheets (branders elsewhere)	m2 9		
	<u>"Everite Nutec" or equal approved fibre-cement</u>			
148	12 x 225mm Fascia boards with steel H-profile joiners and corner joiners	m 18		
	<u>Solid flush doors with wood veneer on both sides suitable for painting hung to steel frames (frames elsewhere measured)</u>			
149	44mm Door 813 x 2032mm high (D4)	No 1		
	<u>"Swartland" or equal approved hardwood windows with Okume wood veneer including all hinges, handles, etc.</u>			
50	"Swartland" or equal approved top hung window 600 x 1200mm high	No 1		
	<u>IRONMONGERY (WORK GROUP 132)</u>			
	<u>"Geze" or equal approved</u>			
151	"Geze (GERS211076 096/76)" or equal approved stainless steel ball bearing butt hinge	Pairs 1.5		
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Item No		Quantity	Rate	Amount
152	"Geze (GGA171068 730/68)" or equal approved 76mm stainless steel cylinder sashlock	No 1		
153	"Geze (GIG950933338M N/PL)" or equal approved double cylinder 66mm MK	No 1		
154	"Geze Sanford (EDD/104C)" or equal approved 19mm Lever on 160 x 160 x 1.5mm backplate	Pairs 1		
155	"Geze (AZ2003SR TS2000G)" or equal approved door closer with standard guide rail	No 1		
	<b><u>1.6mm Double rebated frames suitable for one brick walls</u></b>			
156	Frame for door 813 x 2032mm high (D4)	No 1		
	<b><u>PLASTERING (WORK GROUP 142)</u></b>			
	<b><u>Untinted granolithic on concrete</u></b>			
157	25mm Thick on floors and landings	m2 11		
	<b><u>PLUMBING (WORK GROUP 148)</u></b>			
	<b><u>"Ogee" or equal approved aluminium seamless gutters</u></b>			
158	85mm industrial gutters pre-painted, complete with snow straps	m 18		
159	Extra over 85mm eaves gutter for angle	No 4		
160	Extra over for outlet to suit 110mm rain water down pipe	No 2		
	<b><u>uPVC pipes</u></b>			
161	110mm rainwater pipe	m 7		
162	Extra over 110mm rainwater pipe for bend	No 4		
163	Extra over 110mm rainwater pipe for shoe	No 2		
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Item No		Quantity	Rate	Amount
	<b><u>Gulleys</u></b>			
164	160mm Diameter uPVC gulley trap with 110mm diameter outlet and joint to uPVC drain pipe and three half brick sides 150mm high rendered on all exposed surfaces with 15mm cement and sand rendering (1:3) (grating elsewhere)	No 2		
165	190mm Diameter x 1,2kg cast iron gulley grating	No 2		
	<b><u>Borehole water Storage Tanks</u></b>			
	Installation of tanks to include connection to water supply, valves, stop cocks, meters, reducers etc. as necessary			
166	"Jojo" or equal approved 10 000 Litre vertical rainwater storage tank 2200mm diameter x 3150mm high installed as per manufacturers instructions	No 1		
	<b><u>GLAZING (WORK GROUP 150)</u></b>			
	<b><u>Glazing to wood with putty</u></b>			
	<b><u>4mm Toughened clear glass</u></b>			
167	Panes exceeding 0,5m <sup>2</sup> and not exceeding 2m <sup>2</sup>	m2 1		
	<b><u>PAINTWORK (WORK GROUP 152)</u></b>			
	<b><u>Sand down smoothly and apply two coats "Maxicare" or equal approved water based light oak tint</u></b>			
168	On doors	m2 4		
169	On window frames (both sides measured over the full flat area)	m2 1		
	<b><u>One coat "Plascon PP700" or equal approved Professional Gypsum &amp; Plaster Primer, one undercoat and two coats "Plascon WAA" Wall &amp; All or equal approved water based, premium pure acrylic sheen paint</u></b>			
170	On fascias and bargeboards	m2 4		
171	On eave soffits	m2 9		
	<b>Carried to Collection</b>			
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Item No		Quantity	Rate	Amount
	<u>Two coats calcium plumbate primer</u>			
172	On backs of frames, lining, etc. not exceeding 300mm wide	m	5	
	<u>One coat "Plascon (GIP1)" or equal approved Galvanised Iron Primer, one undercoat and 2 coats "Plascon VLO" Velvagio Satin or equal approved water based, premium non-drip satin enamel paint</u>			
173	On door frames	m2	2	
	<u>RAINWATER HARVESTING (WORK GROUP 148)</u>			
	<u>HDPE Class 16 high density polyethylene pipes with plastic compression fittings</u>			
174	50mm Pipes laid in and including trenches not exceeding 1m deep	m	90	
175	50mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep	m	30	
	<u>Extra over high density polyethylene pipes for "Cobra" or equal approved compression fittings</u>			
176	50mm Elbows	No	8	
177	50mm Tees	No	6	
	<u>Class 2 copper pipes</u>			
178	22mm Pipes to walls, etc	m	20	
	<u>Extra over class 2 copper (hard drawn) pipes for "Cobra" or equal approved compression fittings</u>			
79	22mm Fittings	No	4	
180	50 x 22mm Reducer	No	2	
	<u>Brass</u>			
181	2" 220VAC normally closed solenoid valve	No	1	
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Item No		Quantity	Rate	Amount
182	2" 220VAC normally closed solenoid valve set with weatherproof box & pressure regulator	No 1		
	<u>316 Stainless Steel</u>			
183	In-line suction strainer for submersible pump (pump elsewhere measured)	No 2		
	<u>"Cobra Watertech" or equal approved</u>			
184	"Cobra Watertech Star (208-20)" or equal approved bib tap	No 1		
	<u>Rainwater Storage Tanks</u>			
	Installation of tanks to include connection to water supply, valves, stop cocks, meters, reducers etc. as necessary			
185	"Jojo" or equal approved 10 000 Litre vertical rainwater storage tank 2200mm diameter x 3150mm high installed as per manufacturers instructions	No 2		
186	"Jojo" or equal approved pump cover 540 x 540 x 500mm high installed as per manufacturers instructions	No 1		
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**BILL NO. 6**

**BOUNDARY WALLS, SECURITY FENCING &  
FLAGPOLES**

**SUPPLEMENTARY PREAMBLES**

NOTE :

Tenderers are advised to study the Model Preambles for  
Trades 2008 Edition before pricing this bill

**BOUNDARY WALLS**

**EARTHWORKS (PROVISIONAL) (WORK GROUP 104)**

**Excavation in soft material not exceeding 2m deep**

1 Trenches m3 790

2 Holes m3 301

**Extra over trench and hole excavations in earth for  
excavation in**

3 Soft rock m3 109

4 Hard rock m3 55

**Extra over all excavations for carting away**

5 Surplus material from excavations and/or stock piles on site  
to a dumping site to be located by the contractor m3 437

**Risk of collapse of excavations**

6 Sides of trench and hole excavations not exceeding 1,5m  
deep m2 3 180

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Boundary Walls, Security Fencing & Flagpoles

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Item No			Quantity	Rate	Amount
<b><u>REINFORCEMENT (PROVISIONAL) (WORK GROUP 114)</u></b>					
<b><u>Mild steel reinforcement to structural concrete work</u></b>					
15	8mm bars	t	0.23		
16	12mm bars	t	0.20		
<b><u>PRECAST CONCRETE (WORK GROUP 112)</u></b>					
<b><u>Precast concrete capping finished smooth on exposed surfaces including bedding, jointing and pointing</u></b>					
17	"LG Green CPA103" or equal approved capping 550 x 550mm	No	19		
<b><u>MASONRY (WORK GROUP 116)</u></b>					
<b><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar in foundations (Provisional)</u></b>					
18	Brick piers	m3	45		
19	One brick walls	m2	757		
<b><u>Brickwork of NFP bricks in class II mortar</u></b>					
20	Piers	m3	81		
21	One brick walls	m2	1 387		
<b><u>Brickwork reinforcement (Provisional)</u></b>					
22	150mm Wide reinforcement built in horizontally	m	4 746		
<b><u>Face bricks (PC R 11 000-00 per 1000 excluding VAT delivered to site) pointed with Concave (Bucket Handle) joints</u></b>					
23	Extra over brickwork for face brickwork	m2	3 513		
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Item No		Quantity	Rate	Amount
	<u>Brick-on-edge header course copings, sills, etc of Face Brick (PC R 11 000-00 per 1000 excluding VAT delivered to site) face bricks pointed with concave (bucket handle) joints on all exposed faces</u>			
24	Coping on top of one brick wall	m	570	
25	Coping on top of one 400 x 400mm brick piers	No	181	
	<u>WATERPROOFING (WORK GROUP 120)</u>			
	<u>One layer of 375 micron "Consol Plastics Brikgrip DPC" or equal approved embossed damp proof course</u>			
26	In walls	m2	329	
	<u>IRONMONGERY (WORK GROUP 132)</u>			
	<u>Name plate signage</u>			
	Tenderers are referred to Architect's drawing numbered K021 05 522 attached to these bills of quantities for tender purposes.			
27	1100 x 1100mm sign formed of 3mm anodised aluminium plate with SAPS insignia, screw fixed to wall	No	1	
28	1912 x 695mm sign formed of 3mm anodised aluminium plate with "NSUZE POLICE STATION" powder coated steel lettering, screw fixed to wall	No	1	
	<u>FENCING (WORK GROUP 136)</u>			
	<u>GALAVANISED MILD STEEL FENCING</u>			
	<u>Galvanised security fence with bitumen dipped steel standards and bitumen-aluminium painted (two coats) steel pipe posts, stays, etc including galvanised steel bolts, etc, site clearance and preparation of ground</u>			
	Tenderers are referred to Architect's drawing numbered K021 05 520-523 attached to these bills of quantities for tender purposes			
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Item No		Quantity	Rate	Amount
29	Palisade fencing overall height 1.8m formed of 2 No. 50 x 50 x 5mm angle iron along its length welded to column (column elsewhere measured) and 35 x 35 x 3mm angle iron palisades	m	88	
30	100 x 100mm square tubing column with triangular capping overall height 3m, cast into 400 x 400 x 400mm concrete pad foundation, including all excavation, backfill, etc.	No	18	
31	2mm Thick toughened electro-galvanised steel spikes 100mm high fixed to top of brick wall	m	565	
32	High tensile galvanised steel flat wrap razor wire minimum 600mm high fixed to top of brick wall	m	537	
33	Single pedestrian gate overall size 1200 x 1950mm high formed of 75 x 75 x 5mm galvanised square hollow section frame with 38 x 38 x 3mm galvanised square hollow sections fixed to frame at 45 degree angles and at 100mm centres, gate fixed to 2 No. 120 x 120 x 5mm galvanised square hollow section posts set in 600 x 600 x 300mm concrete bases with heavy duty type 4 cell hinges and including suitable locking mechanism, all to Architects details and specifications	No	1	
34	Single pedestrian gate overall size 1160 x 2156mm high formed of 38 x 38 x 3mm galvanised square hollow section frame with 12mm Diameter galvanised steel rods at 86mm centres vertically, 38 x 6mm galvanised flat bar 150mm high to house 150 x 125 x 38 x 3mm galvanised steel box for housing of upright double throw security mortice deadlock and 150 x 30 x 38 x 3mm galvanised steel box for housing of striker plate, gate fixed to 2 No. 60 x 60 x 5mm galvanised square hollow section posts set in 600 x 600 x 300mm concrete bases with heavy duty type 4 cell hinges and including suitable locking mechanism, all to Architects details and specifications (G4)	No	1	
35	Driveway sliding gate size 6100 x 2100mm high overall formed of 75 x 50 x 2.5mm rectangular hollow section tubing frame with 50 x 30 x 2mm rectangular tubing sub-frame and 30 x 30mm rectangular tubing infill welded to frame at 45 degree angles set 100mm apart, all on 3 No. heavy duty rollers on 12mm mild steel rod running pod 12m long, and electrically operated (electrical operation elsewhere)	No	2	
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Item No		Quantity	Rate	Amount
	<b><u>STORMWATER DRAINAGE (WORK GROUP 146)</u></b>			
	<b><u>uPVC pipes</u></b>			
36	50mm Diameter weep-hole 300mm long through one brick walls	No 1 074		
	<b><u>FLAG POLES</u></b>			
	Tenderers are referred to Architect's drawing numbered K021 05 718 attached to these bills of quantities for tender purposes.			
	<b><u>STRUCTURAL STEELWORK (PROVISIONAL) (WORK GROUP 134)</u></b>			
	<b><u>Hot dipped galvanised and welded columns and beams spliced with end plates, connection plates and angle irons bolted to brickwork or concrete</u></b>			
37	100 x 50 x 11mm Tapered Flange Channel	t 0.04		
	<b><u>METALWORK (WORK GROUP 136)</u></b>			
	<b><u>Sundry Galvanised Steelwork</u></b>			
38	100mm Diameter galvanised flagstaff tapering to 50mm Diameter of overall height 7000mm	No 2		
39	100mm Diameter galvanised steel cone 87mm high fixed to flagstaff (elsewhere measured)	No 2		
40	Rope fixing (Detail A) overall size 97 x 100mm high and including 2 No. rope rings at 1100mm height all welded to flagstaff with and including 70mm Diameter solid plated nylon flag ropes (flagstaff elsewhere measured)	No 2		
41	400 x 400 x 10mm steel foot plate with epoxy paint underneath four times holed and fixed to concrete base with 4 No. 20mm Diameter stainless steel anchor bolts 350mm long	No 2		
42	210 x 50 x 6mm flat bar stop welded to channels (channels elsewhere measured)	No 2		
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Item No		Quantity	Rate	Amount
43	16mm Diameter 150mm long stainless steel bolts	No 6		
	<b><u>PAINTWORK (WORK GROUP 152)</u></b>			
	<b><u>Wire brush to Grade ST 2 specification in accordance with the Swedish Standard SIS 055900 of 1967 and apply one coat zinc chromate primer on steel</u></b>			
44	On columns and beams	m2 1		
	<b><u>Spot prime defects in pre-primed surfaces with zinc chromate primer, one universal undercoat and two coats semi gloss paint on steel</u></b>			
45	On columns and beams	m2 1		
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**BILL NO.7**

**PROVISIONAL AMOUNTS**

**NOTES:**

1. The Contractor's attention is drawn specifically to the Principal Building Agreement clause 20.0 (Nominated Sub-Contractors), clause 21.0 (Selected Sub-Contractors) and clause 22 (work by others) and to the related Clauses in Bill No. 1 - Preliminaries.
2. The Contractor's attention is drawn also to the definition of attendance on nominated or selected sub-contractors and of fuel, power and water for commissioning of mechanical and other specialised installations given in the JBCC Preliminaries.
3. Where special attendance includes the provision of hoisting facilities for a sub-contractor then the Contractor shall :-
  - \* Ensure that the capacities of his hoisting equipment are sufficient to deal with the masses and the quantities of the items to be hoisted,
  - \* Schedule the times of availability of the hoisting equipment for each sub-contractor,
  - \* Provide all necessary personnel to operate the hoisting equipment, all to enable the sub-contractor to execute the hoisting or lowering of his material, etc using the facilities provided by the Contractor.
4. Under no circumstances may any Prime Cost - Provisional Amount, etc be extended at an amount lower than the amount given in this Bill.
5. Provisional amounts may be omitted or reduced at the Employer's sole discretion and the contractor shall not be entitled to claim for any loss by way of reductions or omissions of any discount, or percentage relating to Provisional Amounts or P.C. amounts or any loss of profit related thereto.

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**Provisional Amounts**

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Item No		Quantity	Rate	Amount
	<p>The following Provisional Amounts are all NET amounts EXCLUSIVE of commission for the Contractor. These amounts are for work to be executed complete by Nominated/Selected Sub-Contractors.</p> <p>Provisional Amounts may be omitted or reduced at the Employer's sole discretion and the contractor shall not be entitled to claim for any loss by way of reductions or omissions of any discount, or percentage relating to Provisional Amounts or P.C. amounts or any loss of profit related thereto.</p>			
	<b><u>MUNICIPAL STORMWATER CONNECTION</u></b>			
1	Allow the provisional amount of R 30 000.00 (Thirty Thousand Rand) for Municipal Stormwater Connection	Item		30 000 00
2	Profit	Item		
3	Attendance	Item		
	<b><u>MUNICIPAL SEWER CONNECTION</u></b>			
4	Allow the provisional amount of R 30 000.00 (Thirty Thousand Rand) for Municipal Sewer Connection	Item		30 000 00
5	Profit	Item		
6	Attendance	Item		
	<b><u>MUNICIPAL WATER SUPPLY</u></b>			
7	Allow the provisional amount of R 90 000.00 (Ninety Thousand Rand) for Municipal Water Supply Connection	Item		90 000 00
8	Profit	Item		
9	Attendance	Item		
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4	Soil Drainage (Provisional)	188	
5	Water Supply (Provisional)	213	
6	Boundary Walls, Security Fencing & Flagpoles	221	
7	Provisional Amounts	225	

Carried to Final Summary

SECTION NO. 3 - EXTERNAL WORKS (PROVISIONAL)  
NSUZE POLICE STATION

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## ELECTRICAL INSTALLATION - BOQ

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ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>BILL NO. 1</b>					
<b>SITE WORKS</b>					
<b>EXCAVATIONS, ETC.</b>					
<u>Excavate in earth and set excavated material aside for re-use as filling for:</u>					
1	Excavations in 'earth' for cable/sleeve trenches (450x700mm)	Item	m3	696	
2	Extra over excavations in 'earth' for cable or sleeve trenches in 'soft rock'	Item	m3	4	
3	Extra over excavations in 'earth' for cable or sleeve trenches in 'rock'	Item	m3	4	
4	Imported river sand for bedding above/below electrical cables	Item	m3	208	
5	Selected and approved material from the excavations, in backfilling in trenches, to specified density	Item	m3	488	
6	Surplus material from the excavations spread and levelled over the site as directed	Item	m3	208	
<b>SLEEVES</b>					
<u>High-density polyethylene (HDPE) flexible sleeve piping laid in trench (trench and backfilling measured elsewhere) including joints joints</u>					
7	50mm Diameter	Supply	m	2 527	
8		Install	m	2 527	
9	110mm Diameter	Supply	m	794	
10		Install	m	794	
<u>90 Degree long radius bends for high-density polyethylene (HDPE) flexible sleeve piping</u>					
11	50mm Diameter	Supply	No	88	
12		Install	No	88	
13	110mm Diameter	Supply	No	45	
14		Install	No	45	
<b>RIGID PVC CONDUIT</b>					
<u>Note:</u>					
Conduit includes all bends, tee-pieces, joints, locknuts etc.					
<u>Chased and/or fixed in brickwork not exceeding 3000mm above floor level (making good of chase by others)</u>					
15	20mm Diameter	Supply	m	2 100	
16		Install	m	2 100	
<b>MANHOLES</b>					
<u>Construction of manholes, complete with heavy duty steel lid</u>					
17	1000 x 1000 x 1000 manhole (underground junction box) for electrical cables	Supply	No	15	

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## ANNEXURE C: SAPS NSUZE ELECTRICAL BOQ

ITEM	DESCRIPTION		UNIT	QTY	RATE	AMOUNT
18	600 x 600 x 800 manhole (underground junction box) for telecommunications cables	Install	No	15		
19		Supply	No	19		
20		Install	No	19		
<b>CABLES</b>						
<u>600/1000V PVC/SWA/PVC copper cable laid in trenches (trenching and backfilling measured elsewhere)</u>						
	2.5 mm <sup>2</sup> 3-core					
21		Supply	m	4		
22		Install	m	4		
	4 mm <sup>2</sup> 3-core					
23		Supply	m	126		
24		Install	m	126		
	6 mm <sup>2</sup> 3-core					
25		Supply	m	4		
26		Install	m	4		
	6 mm <sup>2</sup> 4-core					
27		Supply	m	2 110		
28		Install	m	2 110		
	16 mm <sup>2</sup> 3-core					
29		Supply	m	60		
30		Install	m	60		
	16 mm <sup>2</sup> 4-core					
31		Supply	m	4		
32		Install	m	4		
	25 mm <sup>2</sup> 4-core					
33		Supply	m	4		
34		Install	m	4		
	35 mm <sup>2</sup> 4-Core					
35		Supply	m	68		
36		Install	m	68		
	50 mm <sup>2</sup> 4-Core					
37		Supply	m	445		
38		Install	m	445		
<b>CABLE TERMINATIONS</b>						
<u>Termination for 600/1000V (PVC/PVC/SWA/PVC) copper cables</u>						
	2.5 mm <sup>2</sup> 3-core					
39		Supply	No	8		
40		Install	No	8		
	4 mm <sup>2</sup> 3-core					
41		Supply	No	25		
42		Install	No	25		
	6 mm <sup>2</sup> 3-core					
43		Supply	No	8		
44		Install	No	8		
	6 mm <sup>2</sup> 4-core					
45		Supply	No	121		
46		Install	No	121		
	16 mm <sup>2</sup> 3-core					
47		Supply	No	2		
48		Install	No	2		
	16 mm <sup>2</sup> 4-core					
49		Supply	No	8		
50		Install	No	8		
	25 mm <sup>2</sup> 4-core					

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## ANNEXURE C: SAPS NSUZE ELECTRICAL BOQ

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
51		Supply	No	8	
52		Install	No	8	
	35 mm <sup>2</sup> 4-Core				
53		Supply	No	6	
54		Install	No	6	
	50 mm <sup>2</sup> 4-Core				
55		Supply	No	10	
56		Install	No	10	
	<b>EARTHING</b>				
	<u>Bare copper earth conductor installed with cable</u> <u>(cable measured elsewhere)</u>				
	4 mm <sup>2</sup>				
57		Supply	m	2 110	
58		Install	m	2 110	
	10 mm <sup>2</sup> Conductor				
59		Supply	m	4	
60		Install	m	4	
	16 mm <sup>2</sup> Conductor				
61		Supply	m	4	
62		Install	m	4	
	25 mm <sup>2</sup> Conductor				
63		Supply	m	68	
64		Install	m	68	
	35 mm <sup>2</sup> Conductor				
65		Supply	m	445	
66		Install	m	445	
	<b>EARTH CONDUCTOR TERMINATION</b>				
	<u>Termination for bare and PVC Insulated copper conductors</u> <u>including lugs and connections</u>				
	4 mm <sup>2</sup>				
67		Supply	No	121	
68		Install	No	121	
	10 mm <sup>2</sup> Conductor				
69		Supply	No	8	
70		Install	No	8	
	16 mm <sup>2</sup> Conductor				
71		Supply	No	8	
72		Install	No	8	
	25 mm <sup>2</sup> Conductor				
73		Supply	No	6	
74		Install	No	6	
	35 mm <sup>2</sup> Conductor				
75		Supply	No	10	
76		Install	No	10	
	<b>ELECTRICAL JUNCTION BOXES</b>				
	<u>Surface-mount electrical junction box, IP67 complete with</u> <u>earth terminal, cable glands and inner seals</u>				
	3-way electrical junction box for 6mm <sup>2</sup> 4C PVC/SWA/PVC Cable				
77		Supply	No	109	
78		Install	No	109	
	<b>LIGHTING</b>				
	<u>Supply and install luminaires complete with</u> <u>lamps, connections, etc. mounted in position</u>				
	Type P1				

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## ANNEXURE C: SAPS NSUZE ELECTRICAL BOQ

ITEM	DESCRIPTION		UNIT	QTY	RATE	AMOUNT
79	ZELA 37W POST TOP LED LIGHT, COMPLETE WITH 3.1M GLASSFIBRE BEKA POLE WITH A 5A CIRCUIT BREAKER INSIDE THE POLE, COOL WHITE, EQUAL TO BEKA ZELA OR SIMILAR APPROVED.	Supply	No	79		
80		Install	No	79		
81	<b>Type P1</b> ZELA 37W POST TOP LED LIGHT, COMPLETE WITH PEDESTAL MOUNT BRACKET TO BE MOUNTED IN PRECAST CONCRETE COPING, COOL WHITE, EQUAL TO BEKA ZELA OR SIMILAR APPROVED.	Supply	No	29		
82		Install	No	29		
83	<b>Type PB1</b> ZELA 19W POST TOP POLICE BLUE VERSION LED LIGHT, COMPLETE WITH PEDESTAL MOUNT BRACKET TO BE MOUNTED IN PRECAST CONCRETE COPING, COOL WHITE, EQUAL TO BEKA ZELA OR SIMILAR APPROVED.	Supply	No	1		
84		Install	No	1		
<b>SUNDRIES</b>						
85	Cable warning tape placed 150mm above cables in excavations	Supply	m	2 211		
BILL NO. 1 SITE WORKS Carried to summary						

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ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<b>BILL NO. 2</b>				
	<b>BACKUP POWER SUPPLY EQUIPMENT</b>				
	<b>UNINTERRUPTABLE POWER SUPPLY</b>				
	<u>Supply and installation of UPS (Uninterruptable Power Supply) as per detailed electrical technical specifications</u>				
86	10 kVA single phase UPS	Supply	No	1	
87		Install	No	1	
	<b>GENERATOR</b>				
	<u>Supply and installation of Generator as per detailed electrical technical specifications</u>				
	72 kVA three phase diesel generator with complete with weatherproof silent canopy, controller, and GSM reporting modem.				
88		Supply	No	1	
89		Install	No	1	
	125A 3-Pole automatic change-over switch with rotary handle and panel indicators for change-over switch position. By Socomec or similar approved.				
90		Supply	No	1	
91		Install	No	1	
	<b>SUNDRIES</b>				
	Test and commission, balancing, labelling and provision of CoC for the complete electrical installation				
92		Supply	No	1	
	<b>BILL NO. 2</b>				
	<b>BACKUP POWER SUPPLY EQUIPMENT</b>				
	Carried to summary				

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ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<b>BILL NO. 3</b>				
	<b>LOW TENSION DISTRIBUTION</b>				
	<b>DISTRIBUTION KIOSK</b>				
	<u>Supply and installation of a pre-manufactured low voltage distribution kiosk, complete with sheetmetal tray, frames, sub-frames, busbars, breakers, legend card, circuit breakers, fuses, relay, volt-meter, ammeter, transformer, earth, leakage unit, time, switch, etc.</u>				
	<b>KIOSK-K</b>				
	Bottom entry floor standing distribution kiosk				
	Pre-manufactured and pre-wired as per detailed electrical specification				
	Wired as per drawing P15042-TN-01-ELE-001-REV A- ELECTRICAL				
	SCHEMATIC - KIOSK-K-NPS & KIOSK-K-EPS				
93	Supply	No	1		
94	Install	No	1		
	<b>DISTRIBUTION BOARDS</b>				
	<u>Supply and installation of a pre-manufactured low voltage distribution board and energy meter, complete with sheetmetal tray, frames, sub-frames, busbars, breakers, legend card, circuit breakers, fuses, relay, volt-meter, ammeter, transformer, earth, leakage unit, time, switch, etc.</u>				
	<b>DB M</b>				
	Bottom entry floor standing distribution board				
	Pre-manufactured and pre-wired as per detailed electrical specification				
	Wired as per drawing P15042-TN-02-ELE-004-REV A- ELECTRICAL				
	SCHEMATIC - DB-M-NPS & DB-M-EPS				
95	Supply	No	1		
96	Install	No	1		
	<b>DB C</b>				
	Bottom entry recessed distribution board				
	Pre-manufactured and pre-wired as per detailed electrical specification				
	Wired as per drawing P15042-TN-02-ELE-001-REV A-ELECTRICAL				
	SCHEMATIC - DB-C-NPS & DB-C-EPS				
97	Supply	No	1		
98	Install	No	1		
	<b>DB O</b>				
	Bottom entry recessed distribution board				
	Pre-manufactured and pre-wired as per detailed electrical specification				
	Wired as per drawing P15042-TN-02-ELE-001-REV A-ELECTRICAL				
	SCHEMATIC - DB-O-NPS & DB-O-EPS				
99	Supply	No	1		
100	Install	No	1		
	<b>DB L</b>				
	Bottom entry recessed distribution board				
	Pre-manufactured and pre-wired as per detailed electrical specification				
	Wired as per drawing P15042-TN-02-ELE-002-REV A-ELECTRICAL				
	SCHEMATIC - DB-L-NPS & DB-L-EPS				
101	Supply	No	1		
102	Install	No	1		
	<b>DB S</b>				
	Bottom entry recessed distribution board				
	Pre-manufactured and pre-wired as per detailed electrical specification				
	Wired as per drawing P15042-TN-02-ELE-002-REV A-ELECTRICAL				
	SCHEMATIC - DB-S-NPS & DB-S-EPS				
103	Supply	No	1		
104	Install	No	1		
	<b>CABLES</b>				
	<u>600/1000V (PVC/PVC/SWA/PVC) copper cable installed on cable ladders/ trays/ sleeves (ladders, trays, and sleeves measured elsewhere)</u>				
	4 mm <sup>2</sup> 3 Core				
105	Supply	m	5		

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## ANNEXURE C: SAPS NSUZE ELECTRICAL BOQ

ITEM	DESCRIPTION		UNIT	QTY	RATE	AMOUNT
106		Install	m	5		
	6 mm <sup>2</sup> 4-Core					
107		Supply	m	104		
108		Install	m	104		
	10 mm <sup>2</sup> 4-Core					
109		Supply	m	5		
110		Install	m	5		
	16 mm <sup>2</sup> 3-Core					
111		Supply	m	5		
112		Install	m	5		
	16 mm <sup>2</sup> 4-Core					
113		Supply	m	154		
114		Install	m	154		
	25 mm <sup>2</sup> 4-Core					
115		Supply	m	22		
116		Install	m	22		
<b><u>CABLE TERMINATIONS</u></b>						
<u>Termination for 600/1000V (PVC/PVC/SWA/PVC) copper cables</u>						
	4 mm <sup>2</sup> 3-Core					
117		Supply	No	10		
118		Install	No	10		
	6 mm <sup>2</sup> 4-Core					
119		Supply	No	6		
120		Install	No	6		
	10 mm <sup>2</sup> 4-Core					
121		Supply	No	6		
122		Install	No	6		
	16 mm <sup>2</sup> 3-Core					
123		Supply	No	6		
124		Install	No	6		
	16 mm <sup>2</sup> 4-Core					
125		Supply	No	8		
126		Install	No	8		
	25 mm <sup>2</sup> 4-Core					
127		Supply	No	2		
128		Install	No	2		
<b><u>EARTHING</u></b>						
<u>Bare copper earth conductor installed with cable (cable measured elsewhere)</u>						
	4 mm <sup>2</sup> Conductor					
129		Supply	m	104		
130		Install	m	104		
	6 mm <sup>2</sup> Conductor					
131		Supply	m	5		
132		Install	m	5		
	10 mm <sup>2</sup> Conductor					
133		Supply	m	154		
134		Install	m	154		
	16 mm <sup>2</sup> Conductor					
135		Supply	m	22		
136		Install	m	22		
<b><u>EARTH CONDUCTOR TERMINATION</u></b>						
<u>Termination for bare and PVC insulated copper conductors including lugs and connections</u>						

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## ANNEXURE C: SAPS NSUZE ELECTRICAL BOQ

ITEM	DESCRIPTION		UNIT	QTY	RATE	AMOUNT
137	4 mm <sup>2</sup> Conductor	Supply	No	6		
138		Install	No	6		
139	6 mm <sup>2</sup> Conductor	Supply	No	10		
140		Install	No	10		
141	10 mm <sup>2</sup> Conductor	Supply	No	8		
142		Install	No	8		
143	16 mm <sup>2</sup> Conductor	Supply	No	2		
144		Install	No	2		
	<b><u>SUNDRIES</u></b>					
	Test and commission, balancing, labelling and provision of CoC for the complete electrical installation					
145		Supply	No	12		
BILL NO. 3 LOW TENSION DISTRIBUTION Carried to summary						

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ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<b>BILL NO. 4</b>				
	<b>LIGHTING</b>				
	<b>WIRING CHANNELS</b>				
	<u>Note:</u> The rates for wiring channels shall include for hangers, splices, jointing, drilling etc.				
	<u>Hot dipped galvanised steel channel complete with galvanised cover fixed/suspended from steel trusses or concrete slab with and including hangers, etc. exceeding 3000 mm above floor level</u>				
	P8300 Channel (0.8 mm thick) straight sections				
146	Supply	m	106		
147	Install	m	106		
	90-degree horizontal bends: P8300				
148	Supply	No	7		
149	Install	No	7		
	90-degree external/internal bends: P8300				
150	Supply	No	3		
151	Install	No	3		
	3-way tee: P8300				
152	Supply	No	6		
153	Install	No	6		
	End Cap: P8300				
154	Supply	No	4		
155	Install	No	4		
	<b>GALVANISED CONDUIT</b>				
	<u>Note:</u> Conduit includes all bends, tee-pieces, joints, locknuts etc.				
	<u>Surface mounted to brickwork, concrete, steel, wood, roof members, etc. not exceeding 3000mm above floor level</u>				
	20mm Diameter				
156	Supply	m	5		
157	Install	m	5		
	<b>RIGID PVC CONDUIT</b>				
	<u>Note:</u> Conduit includes all bends, tee-pieces, joints, locknuts etc.				
	<u>Chased and/or fixed in brickwork not exceeding 3000mm above floor level (making good of chase by others)</u>				
	20mm Diameter				
158	Supply	m	2167		
159	Install	m	2167		
	<u>Light gauge PVC flexible conduit</u>				
	20mm Diameters x 300mm long complete with connectors at both ends				
160	Supply	No	12		
161	Install	No	12		
	<b>CONDUIT BOXES AND FITTINGS</b>				
	<u>Galvanised steel fixed onto conduit</u>				
	Round conduit box for 20mm diameter conduit				
162	Supply	No	2		
163	Install	No	2		
	100 x 50 x 50mm Deep wall box				
164	Supply	No	54		

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## ANNEXURE C: SAPS NSUZE ELECTRICAL BOQ

ITEM	DESCRIPTION		UNIT	QTY	RATE	AMOUNT
165		Install	No	54		
	100 x 100 x 50mm Deep wall box					
166		Supply	No	2		
167		Install	No	2		
	<u>PVC type fixed onto conduit</u>					
	Round conduit box for 20mm diameter conduit					
168		Supply	No	273		
169		Install	No	273		
	<u>Cover plates for conduit boxes</u>					
	White steel cover plate for 100 x 50 x 50mm Deep wall box					
170		Supply	No	54		
171		Install	No	54		
	White steel cover plate for 100 x 100 x 50mm Deep wall box					
172		Supply	No	2		
173		Install	No	2		
	White steel cover plate for 20mm round conduit box					
174		Supply	No	2		
		Install	No	2		
	<b><u>CONDUCTORS</u></b>					
	<u>PVC insulated stranded copper conductor</u>					
	<u>drawn into wire ways</u>					
	2,5mm <sup>2</sup>					
175		Supply	m	4545		
176		Install	m	4545		
	4mm <sup>2</sup>					
177		Supply	m	8		
178		Install	m	8		
	<b><u>EARTHING</u></b>					
	<u>Bare Earth Conductor installed with conductors</u>					
	2.5 mm <sup>2</sup>					
179		Supply	m	2273		
180		Install	m	2273		
	<b><u>LIGHT SWITCHES AND SOCKET OUTLETS</u></b>					
	<u>Light switches installed in brickwork complete with white steel cover plate, chrome screws, and flush galvanized wall box</u>					
	16A One-lever one-way switch					
181		Supply	No	20		
182		Install	No	20		
	16A Two-lever one-way switch					
183		Supply	No	4		
184		Install	No	4		
	16A Three-lever one-way switch					
185		Supply	No	1		
186		Install	No	1		
	16A One-lever two-way switch					
187		Supply	No	16		
188		Install	No	16		
	Type S1: 1000VA, 360 deg, recess/surface mounted vacancy/occupancy sensor switch equal to Hubbel building automation OMNIIRL or similar approved					
189		Supply	No	24		
190		Install	No	24		

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## ANNEXURE C: SAPS NSUZE ELECTRICAL BOQ

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
191	Type S2: 1000VA, 360 deg, recess mounted ultrasonic vacancy/occupancy sensor switch with auxiliary contact equal to Hubbel Building Automation OMNIDT2000 similar approved	Supply	No	26	
192		Install	No	26	
	<u>Light switches complete with weatherproof box surface mounted to brickwork</u>				
193	16A, weatherproof rotary light switch	Supply	No	14	
194		Install	No	14	
195	16A, 2 positions weatherproof rotary light switch	Supply	No	4	
196		Install	No	4	
	600W Day-night sensor				
197		Supply	No	3	
198		Install	No	3	
	<u>Socket outlets installed in galvanized trunking</u>				
199	5A Round three-pin unswitched socket outlet, Installed in P8300 trunking	Supply	No	326	
200		Install	No	326	
	<b>LUMINAIRES AND EQUIPMENT</b>				
	<u>Supply and install luminaires complete with lamps, connections, slab boxes, slab lids, etc. mounted in position</u>				
	Type C1 LED BEACON, GREEN, FLASHING, SURFACE MOUNT, 230V AC, IP65, MOUNTED AT 100MM ABOVE STEEL DOOR. EQUAL TO KLAXON OR SIMILAR APPROVED				
201		Supply	No	4	
202		Install	No	4	
	Type C2 RONDO HE 10W LED DOWNLIGHT COMPLETE WITH 3M FLEXIBLE CABLE AND 5A PLUGTOP. EQUAL TO BEKA RONDO LED ECO OR SIMILAR APPROVED				
203		Supply	No	86	
204		Install	No	86	
	Type C2/E AS C2, BUT OPERATE FROM A SELF-DIAGNOSTIC MAINTAINED TYPE BATTERY PACK WITH 20% LIGHT OUTPUT FOR 60 MIN STANDBY BACK-UP TIME.				
205		Supply	No	17	
206		Install	No	17	
	Slab Box & Lid SLAB BOX AND SLAB LID FOR TYPE C2 LIGHT FITTING				
207		Supply	No	72	
208		Install	No	72	
	Type C3 5W LED DOWNLIGHT MR16 GU5.3, COOL WHITE IP20 DIA CAST ALUMINIUM, EQUAL TO RADIANT CB43 OR SIMILAR APPROVED				
209		Supply	No	16	
210		Install	No	16	
	Slab Box & Lid RADIANT SLAB BOX AND SLAB LID FOR TYPE C3 LIGHT FITTING OR SIMILAR APPROVED				
211		Supply	No	16	
212		Install	No	16	
	Type F1 DARI 35W RECESSED, WARM WHITE LIGHT FITTING (600X600MM) COMPLETE WITH 3M FLEXIBLE CABLE AND 5A UNSWITCHED PLUGTOP. EQUAL TO BEKA DARI OR SIMILAR APPROVED.				

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## ANNEXURE C: SAPS NSUZE ELECTRICAL BOQ

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
213		Supply	No	96	
214		Install	No	96	
	Type F1/E				
	AS F1, BUT OPERATE FROM A SELF-DIAGNOSTIC MAINTAINED TYPE BATTERY PACK WITH 20% LIGHT OUTPUT FOR 60 MIN STANDBY BACK-UP TIME.				
215		Supply	No	7	
216		Install	No	7	
	Type F2				
	DARI 70W RECESSED, WARM WHITE LIGHT FITTING (600X1200MM) COMPLETE WITH 3M FLEXIBLE CABLE AND 5A UNSWITCHED PLUGTOP. EQUAL TO BEKA DARI OR SIMILAR APPROVED.				
217		Supply	No	5	
218		Install	No	5	
	Type F2/E				
	AS F2, BUT OPERATE FROM A SELF-DIAGNOSTIC MAINTAINED TYPE BATTERY PACK WITH 20% LIGHT OUTPUT FOR 60 MIN STANDBY BACK-UP TIME.				
219		Supply	No	1	
220		Install	No	1	
	Type F3				
	ROUGHGUARD 55W LED SURFACE MOUNTED VANDAL PROOF LIGHT EQUAL TO BEKA ROUGHGUARD OR SIMILAR APPROVED.				
221		Supply	No	33	
222		Install	No	33	
	Type F3/E				
	AS F3, BUT OPERATE FROM A SELF-DIAGNOSTIC MAINTAINED TYPE BATTERY PACK WITH 20% LIGHT OUTPUT FOR 60 MIN STANDBY BACK-UP TIME.				
223		Supply	No	3	
224		Install	No	3	
	Type F4				
	DARI 35W RECESSED WITH A SURFACE MOUNT FRAME, WARM WHITE LIGHT FITTING (600X600MM) COMPLETE WITH 3M FLEXIBLE CABLE AND 5A UNSWITCHED PLUGTOP. EQUAL TO BEKA DARI OR SIMILAR APPROVED.				
225		Supply	No	90	
226		Install	No	90	
	Type F4/E				
	AS F4, BUT OPERATE FROM A SELF-DIAGNOSTIC MAINTAINED TYPE BATTERY PACK WITH 20% LIGHT OUTPUT FOR 60 MIN STANDBY BACK-UP TIME.				
227		Supply	No	25	
228		Install	No	25	
	Type F5				
	VAPOURLINE 40W LED, CLEAR DIFFUSER, NEUTRAL WHITE. EQUAL TO BEKA VAPOURLINE OR SIMILAR APPROVED.				
229		Supply	No	2	
230		Install	No	2	
	Type F5/E				
	AS F5, BUT OPERATE FROM A SELF-DIAGNOSTIC MAINTAINED TYPE BATTERY PACK WITH 20% LIGHT OUTPUT FOR 60 MIN STANDBY BACK-UP TIME.				
231		Supply	No	2	
232		Install	No	2	
	Type F6				
	ROUGHGUARD 55W LED SURFACE MOUNTED VANDAL PROOF LIGHT PLUGTOP. EQUAL TO BEKA ROUGHGUARD OR SIMILAR APPROVED.				
233		Supply	No	2	
234		Install	No	2	
	Type F6/E				
	AS F6, BUT OPERATE FROM A SELF-DIAGNOSTIC MAINTAINED TYPE BATTERY PACK WITH 20% LIGHT OUTPUT FOR 60 MIN STANDBY BACK-UP TIME.				
235		Supply	No	2	

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## ANNEXURE C: SAPS NSUZE ELECTRICAL BOQ

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
236	Type F7 DARI 70W RECESSED WITH SURFACE MOUNT FRAME, WARM WHITE LIGHT FITTING (600X1200MM) COMPLETE WITH 3M FLEXIBLE CABLE AND 5A UNSWITCHED PLUGTOP. EQUAL TO BEKA DARI OR SIMILAR APPROVED.	Install	No	2	
237		Supply	No	2	
238		Install	No	2	
	Type F7/E AS F7, BUT OPERATE FROM A SELF-DIAGNOSTIC MAINTAINED TYPE BATTERY PACK WITH 20% LIGHT OUTPUT FOR 60 MIN STANDBY BACK-UP TIME.				
239		Supply	No	2	
240		Install	No	2	
	Type 8 ROUGHGUARD 19W LED SURFACE MOUNTED VANDAL PROOF LIGHT PLUGTOP. EQUAL TO BEKA ROUGHGUARD OR SIMILAR APPROVED.				
241		Supply	No	15	
242		Install	No	15	
	Type 8/E AS F8, BUT OPERATE FROM A SELF-DIAGNOSTIC MAINTAINED TYPE BATTERY PACK WITH 20% LIGHT OUTPUT FOR 60 MIN STANDBY BACK-UP TIME.				
243		Supply	No	7	
244		Install	No	7	
	Type 9 ROUGHGUARD 9W LED SURFACE MOUNTED VANDAL PROOF LIGHT PLUGTOP. EQUAL TO BEKA ROUGHGUARD OR SIMILAR APPROVED.				
245		Supply	No	15	
246		Install	No	15	
	Type 9/E AS F8, BUT OPERATE FROM A SELF-DIAGNOSTIC MAINTAINED TYPE BATTERY PACK WITH 20% LIGHT OUTPUT FOR 60 MIN STANDBY BACK-UP TIME.				
247		Supply	No	5	
248		Install	No	5	
	Type 10 ROUGHGUARD 9W LED SURFACE MOUNTED VANDAL PROOF LIGHT COMPLETE WITH NIGHT LIGHT. EQUAL TO BEKA ROUGHGUARD OR SIMILAR APPROVED.				
249		Supply	No	9	
250		Install	No	9	
	Type 11 ROUGHGUARD 19W LED SURFACE MOUNTED VANDAL PROOF LIGHT WITH SIDE ENTRY. EQUAL TO BEKA ROUGHGUARD OR SIMILAR APPROVED.				
251		Supply	No	12	
252		Install	No	12	
	Type W1 SERIES 21 20W LED SURFACE MOUNT TAMPER RESISTANT BULKHEAD. EQUAL TO BEKA SEIES 21 OR SIMILAR APPROVED.				
253		Supply	No	45	
254		Install	No	45	
	Type W1/E AS W1, BUT OPERATE FROM A SELF-DIAGNOSTIC MAINTAINED TYPE BATTERY PACK WITH 20% LIGHT OUTPUT FOR 60 MIN STANDBY BACK-UP TIME.				
255		Supply	No	2	
256		Install	No	2	
	Type W2 LED DUO WIDE 50" 2 X 10W, NEUTRAL WHITE. EQUAL TO BEKA LED DUO OR SIMILAR APPROVED.				
257		Supply	No	2	
258		Install	No	2	

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ANNEXURE C: SAPS NSUZE ELECTRICAL BOQ

ITEM	DESCRIPTION		UNIT	QTY	RATE	AMOUNT
259	Type W3 BULKHEAD 18W 230V LED SURFACE MOUNT LIGHT COMPLETE WITH VANDAL-PROOF SCREWS. EQUAL TO BEKABULK OR SIMILAR APPROVED.	Supply	No	2		
260		Install	No	2		
261	Type W3/E AS W3, OPERATE FROM A SELF-DIAGNOSTIC MAINTAINED TYPE BATTERY PACK WITH 20% LIGHT OUTPUT FOR 60 MIN STANDBY BACK-UP TIME.	Supply	No	2		
262		Install	No	2		
263	Type W4 SERIES 21 10W LED SURFACE MOUNT TAMPER RESISTANT BULKHEAD. EQUAL TO BEKA SEIES 21 OR SIMILAR APPROVED.	Supply	No	24		
264		Install	No	24		
265	Type W4/E AS W4, OPERATE FROM A SELF-DIAGNOSTIC MAINTAINED TYPE BATTERY PACK WITH 20% LIGHT OUTPUT FOR 60 MIN STANDBY BACK-UP TIME.	Supply	No	2		
266		Install	No	2		
	<u>Supply and install occupancy controller for lights and air conditioning units as per detailed electrical technical specification</u>					
267	Controller equal to Deman Alux M6 or similar approved	Supply	No	24		
268		Install	No	24		
269	Relay module for lights equal to Deman Alux S1 or similar approved	Supply	No	24		
270		Install	No	24		
271	Relay module for air conditioning equal to Deman Alux S2 or similar approved	Supply	No	24		
272		Install	No	24		
273	RJ9 connectors	Supply	No	48		
274		Install	No	48		
275	Interface cabling	Supply	m	624		
276		Install	m	624		
BILL NO. 4						

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ANNEXURE C: SAPS NSUZE ELECTRICAL BOQ

ITEM	DESCRIPTION		UNIT	QTY	RATE	AMOUNT
	LIGHTING					
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ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>BILL NO. 5</b>					
<b>POWER POINTS</b>					
<b>WIRING CHANNELS</b>					
<b>Note:</b>					
The rates for wiring channels shall include for hangers, splices, jointing, drilling etc.					
<u>Hot dipped galvanised steel channel complete with galvanised cover suspended from steel trusses or concrete slab with and including hangers, etc. exceeding 3000 mm above floor level</u>					
P9000 Channel (1 mm thick) straight sections					
277	Supply	m	99		
278	Install	m	99		
90-degree horizontal bends: P9000					
279	Supply	No	7		
280	Install	No	7		
90-degree external/internal bends: P9000					
281	Supply	No	2		
282	Install	No	2		
3-way tee: P9000					
283	Supply	No	4		
284	Install	No	4		
End Cap: P9000					
285	Supply	No	4		
286	Install	No	4		
<b>CABLE TRAYS</b>					
<b>Note:</b>					
The rates for cable trays shall include for hangers, splices, jointing, drilling etc.					
<u>Hot dipped galvanised steel cable tray suspended from steel trusses or concrete slab, including hangers, etc., not exceeding 3000 mm above floor level</u>					
300 mm medium duty cable tray					
287	Supply	m	11		
288	Install	m	11		
90-degree horizontal bend: 300 mm medium duty cable tray					
289	Supply	No	2		
290	Install	No	2		
90-degree internal/external bend: 300 mm medium duty cable tray					
291	Supply	No	5		
292	Install	No	5		
3-way tee: 300 mm					
293	Supply	No	3		
294	Install	No	3		
<b>GALVANISED CONDUIT</b>					
<b>Note:</b>					
Conduit includes all bends, tee-pieces, joints, locknuts etc.					
<u>Surface mounted to brickwork, concrete, steel, wood, roof members, etc. not exceeding 3000mm above floor level</u>					
25mm Diameter					
295	Supply	m	2		
296	Install	m	2		
<b>RIGID PVC CONDUIT</b>					

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## ANNEXURE C: SAPS NSUZE ELECTRICAL BOQ

ITEM	DESCRIPTION		UNIT	QTY	RATE	AMOUNT
	<u>Note:</u> Conduit includes all bends, tee-pieces, joints, locknuts etc.					
	<u>Chased and/or fixed in brickwork/drywall or cast in concrete not exceeding 3000mm above floor level (making good of chase by others)</u>					
297	25mm Diameter	Supply	m	4242		
298		Install	m	4242		
299	32mm Diameter	Supply	m	3		
300		Install	m	3		
	<u>Light gauge PVC flexible conduit</u>					
301	25mm Diameter x 300mm long complete with connectors at both ends	Supply	No	3		
302		Install	No	3		
	<b>CONDUIT BOXES AND FITTINGS</b>					
	<u>Galvanised steel fixed onto conduit</u>					
303	Round conduit box for 25mm diameter conduit	Supply	No	3		
304		Install	No	3		
305	100 x 100 x 50mm Deep wall box	Supply	No	173		
306		Install	No	173		
	<u>PVC type fixed onto conduit</u>					
307	Round conduit box for 25mm diameter conduit box	Supply	No	3		
308		Install	No	3		
309	White steel cover plate for 100 x 100 x 50mm Deep wall box	Supply	No	173		
310		Install	No	173		
	<u>Cover plates for conduit boxes</u>					
311	White steel cover plate for 25mm diameter round conduit box	Supply	No	3		
312		Install	No	3		
	<b>POWER SKIRTING</b>					
	<u>Note:</u> The rates for power skirting shall include for splices, joining, drilling, and cut openings etc.					
	<u>Power skirting complete with cover surface mounted to brickwork or concrete</u>					
313	Two channel three-compartment PVC grey straight length	Supply	m	307		
314		Install	m	307		
315	Two channel three-compartment PVC grey 90 deg vertical bend	Supply	No	19		
316		Install	No	19		
317	Two channel three-compartment PVC grey 90 deg internal/external bend	Supply	No	29		
318		Install	No	29		
319	Two channel three-compartment PVC grey vertical tee-piece	Supply	No	3		
320		Install	No	3		

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## ANNEXURE C: SAPS NSUZE ELECTRICAL BOQ

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
321	Two channel three-compartment PVC grey end cap	Supply	No	56	
322		Install	No	56	
	<u>Switches, etc. complete with cover plate as required, fixed to power skirting</u>				
323	16A Three-pin switched socket outlet	Supply	No	118	
324		Install	No	118	
	16A Three-pin dedicated switched socket outlet with shaved earth pin (colour red)				
325		Supply	No	114	
326		Install	No	114	
	16A Three-pin dedicated switched socket outlet with shaved earth pin (colour blue)				
327		Supply	No	2	
328		Install	No	2	
	25A 2p isolator complete with cord outlet and mounted in powerskirting				
329		Supply	No	21	
330		Install	No	21	
	Cover complete with 1x RJ45 outlet and 1xRJ11 outlet				
331		Supply	No	58	
332		Install	No	58	
	<u>SWITCHED SOCKET OUTLETS, ISOLATORS ETC.</u>				
	<u>Socket outlets and Isolators installed in brickwork complete with cover plate and flush galvanized wall box</u>				
	16A Single Three-pin switched socket outlet in 100x100x50mm galvanized wall box				
333		Supply	No	43	
334		Install	No	43	
	16A Double Three-pin switched socket outlet in 100x100x50mm galvanized wall box				
335		Supply	No	10	
336		Install	No	10	
	16A Three-pin dedicated switched socket outlet with shaved earth pin (colour red)				
337		Supply	No	28	
338		Install	No	28	
	32A 2-pole switched isolator				
339		Supply	No	15	
340		Install	No	15	
	63A 4-pole switched isolator				
341		Supply	No	5	
342		Install	No	5	
	<u>Socket outlets and Isolators with cover plate and box surface mounted to brickwork</u>				
	5A Round three-pin unswitched socket outlet, Installed in surface-mount 50mm deep round PVC box				
343		Supply	No	2	
344		Install	No	2	
	16A Three-pin industrial type switched socket outlet installed in surface-mount powder coated steel extension box				
345		Supply	No	4	
346		Install	No	4	
	16A Three-pin switched socket outlet with plastic cover plate Installed in weatherproof PVC box				
347		Supply	No	14	

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## ANNEXURE C: SAPS NSUZE ELECTRICAL BOQ

ITEM	DESCRIPTION		UNIT	QTY	RATE	AMOUNT
348	16A Three-pin switched emergency socket outlet (colour red) with plastic cover plate installed in weatherproof PVC box	Install	No	14		
349		Supply	No	3		
350		Install	No	3		
	30A 2-pole industrial surface mounted Isolator					
351		Supply	No	4		
352		Install	No	4		
	32A 2-pole weatherproof IP65 lockable rotary isolator					
353		Supply	No	21		
354		Install	No	21		
	63A 2-pole weatherproof IP65 lockable rotary isolator					
355		Supply	No	9		
356		Install	No	9		
	32A Single phase 3-pin Industrial socket outlet (colour blue)					
357		Supply	No	3		
358		Install	No	3		
	<b>CONDUCTORS</b>					
	<u>PVC Insulated stranded copper conductor</u>					
	<u>drawn into wire ways</u>					
	2,5mm <sup>2</sup>					
359		Supply	m	6		
360		Install	m	6		
	4mm <sup>2</sup>					
361		Supply	m	6772		
362		Install	m	6772		
	6mm <sup>2</sup>					
363		Supply	m	6		
364		Install	m	6		
	<b>CABLES</b>					
	<u>600/1000V (PVC/PVC/SWA/PVC) copper cable installed on</u>					
	<u>cable ladders/ trays/ sleeves (ladders, trays, and sleeves</u>					
	<u>measured elsewhere )</u>					
	4 mm <sup>2</sup> 3-Core					
365		Supply	m	4		
366		Install	m	4		
	4 mm <sup>2</sup> 4-Core					
367		Supply	m	4		
368		Install	m	4		
	6 mm <sup>2</sup> 3-Core					
369		Supply	m	650		
370		Install	m	650		
	6 mm <sup>2</sup> 4-Core					
371		Supply	m	4		
372		Install	m	4		
	16 mm <sup>2</sup> 3-Core					
373		Supply	m	227		
374		Install	m	227		
	<b>EARTHING</b>					
	<u>Bare Earth Conductor installed with conductors</u>					
	2.5 mm <sup>2</sup>					
375		Supply	m	3386		
376		Install	m	3386		

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ANNEXURE C: SAPS NSUZE ELECTRICAL BOQ

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
377	4 mm <sup>2</sup>				
378	Supply	m	4		
	Install	m	4		
<p>BILL NO. 5 POWER POINTS Carried to summary</p>					

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ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<b>BILL NO. 6</b>				
	<b>TELEPHONE AND DATA INSTALLATION</b>				
	<b>IT BOX</b>				
	<u>Supply and installation of a pre-manufactured IT distribution box, complete with sheet metal tray, powder coated frames and door.</u>				
	300 x 300 x 110 mm flush mounted box with wood back board and lockable door				
379	Supply	No	6		
380	Install	No	6		
	<b>INTERCOM</b>				
	<u>Supply and install an complete intercom system which consists of the a base station with voice capabilities to communicate with the sub-station at the pedestrian gate.</u>				
	Typical N-8410MS base station with a RS-170 sub-station that is weather proof and vandal resistant. Complete with all wiring, accessories etc.				
381	Supply	No	1		
382	Install	No	1		
	<b>CABLE BASKETS</b>				
	<u>Note:</u>				
	The rates for cable baskets shall include for hangers, splices, jointing, drilling etc.				
	<u>Hot dipped galvanised steel cable basket suspended from steel trusses or concrete slab, including hangers, etc., not exceeding 3000 mm above floor level</u>				
	50 mm medium duty cable basket				
383	Supply	m	162		
384	Install	m	162		
	150 mm medium duty cable basket				
385	Supply	m	73		
386	Install	m	73		
	200 mm medium duty cable basket				
387	Supply	m	3		
388	Install	m	3		
	90-degree horizontal bend: 50 mm medium duty cable basket				
389	Supply	No	12		
390	Install	No	12		
	90-degree horizontal bend: 150 mm medium duty cable basket				
391	Supply	No	6		
392	Install	No	6		
	90-degree horizontal bend: 200 mm medium duty cable basket				
393	Supply	No	4		
394	Install	No	4		
	3-way tee: 50 mm medium duty cable basket				
395	Supply	No	4		
396	Install	No	4		
	3-way tee: 150 mm medium duty cable basket				
397	Supply	No	4		
398	Install	No	4		
	3-way tee: 200 mm medium duty cable basket				
399	Supply	No	4		
400	Install	No	4		
	<b>RIGID PVC CONDUIT</b>				

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**ANNEXURE C: SAPS NSUZE ELECTRICAL BOQ**

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## ANNEXURE C: SAPS NSUZE ELECTRICAL BOQ

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<b>BILL NO. 7</b>				
	<b>FIRE DETECTION</b>				
	<b>COMMISSIONING, CERTIFICATIONS AND GUARANTEE'S</b>				
	Diagrams: The supply and Installation of Diagrams as per the specification				
407		SUM	Item	1	
	Sample Equipment: Allowance for the provision of sample equipment for approval				
408		SUM	Item	1	
	Shop Drawings				
409		SUM	Item	1	
	Certification Allowance: Certification of the system and components on completion				
410		SUM	Item	1	
	As Built Drawings: The preparation and submission of as built drawings				
411		SUM	Item	1	
	Testing and commissioning of systems				
412		SUM	Item	1	
	Operating & Maintenance Manuals (3 x Sets)				
413		SUM	Item	1	
	End User training: Training of staff member in the use of the Smoke and Fire Detection System				
414		SUM	Item	1	
	12 months guarantee on all Detection equipment				
415		SUM	Item	1	
	<b>DETECTORS AND ACCESSORIES</b>				
	<b>NEW OPTICAL SMOKE DETECTORS</b>				
	The supply and installation of NEW Smoke detector heads including wiring, fittings, hangers, conduits, trunking and base				
416		Supply	No	47	
417		Install	No	47	
	<b>NEW HEAT DETECTORS</b>				
	The supply and installation of NEW Heat detector heads including wiring, fittings, hangers, conduits, trunking and base				
418		Supply	No	3	
419		Install	No	3	
	<b>REPOSITION A DETECTOR ALREADY INSTALLED ON CEILING</b>				
	The relocation or move of an detector head already installed due typically tenant alterations.				
420		Supply	No		
421		Install	No	1	
	<b>NEW MANUAL CALL POINTS</b>				
	The supply and installation of NEW Manual call point including wiring, fittings, hangers, conduits, trunking and base				
422		Supply	No	15	
423		Install	No	15	
	<b>NEW SOUNDER/BEACON BASES</b>				
	The supply and installation of NEW Sounder/Beacon base including wiring, fittings, hangers, conduits and trunking				
424		Supply	No	20	
425		Install	No	20	
	<b>NEW INTERFACE RELAYS ( INPUT/OUTPUT UNIT)</b>				
	The supply and installation of NEW Interface relays including wiring, fittings, hangers, conduits and casing				
426		Supply	No	2	

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## ANNEXURE C: SAPS NSUZE ELECTRICAL BOQ

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
427	<b>CABLING AND TERMINATIONS</b> Fire resistant cable (PH30) installed in Ø25 PVC conduit (by others) for field wiring detectors and other devices as per the detail specification including terminations. Conductors shall be 1.5mm² (supplied, installed & commissioned)	Install No	2		
428		Supply	m	1 000	
429		Install	m	1 000	
	<b><u>FIRE CONTROL PANEL AND ACCESSORIES</u></b>				
	<b>FIRE CONTROL PANEL</b> The supply and installation of the Fire Control Panel including wiring, brackets, conduits and labelling. The FCP should be compatible with the recommended detectors mentioned in the Detection specifications Analogue Addressable Panel two (2) loop including batteries and EN approved				
430		Supply	No	1	
431		Install	No	1	
	<b>ADDRESSABLE MIMIC PANEL/ REPEATER PANEL</b> The supply and installation of the MIMIC/REPEATER Panel including wiring, brackets, conduits and labeling. The MIMIC/REPEATER PANEL should be compatible with the recommended detectors mentioned in the Detection specifications				
432		Supply	No	1	
433		Install	No	1	
	<b>GRAPHICS CARD</b> The supply and installation of the GS Net Graphics complete with setup(excluding PC)				
434		Supply	No	1	
435		Install	No	1	
	<b>BMS GRAPHICS INTEFACE</b> The supply and installation of the BMS Graphics Interface complete				
436		Supply	No	1	
437		Install	No	1	
	<b>NETWORKING</b> The supply and installation of Network card for FCP complete				
438		Supply	No	1	
439		Install	No	1	
	<b><u>ACCESSORIES</u></b>				
	<b>GALVANISED CONDUIT</b> The supply and installation of GALVANISED conduit including Hospital saddles and fixing				
440		Supply	No	1	
441		Install	No	1	
	<b>25mm uPVC CONDUIT</b> The supply and installation of PVC conduit including Hospital saddles and fixing				
442		Supply	No	100	
443		Install	No	100	
	<b>LOG BOOK</b> The supply and installation of the LOG Book including fixing and casing				
444		Supply	No	1	
445		Install	No	1	
	<b>BUILDING DETECTION LAY-OUT</b> Complete lay-out of zones and detectors per floor(hard copy) for installation in office in Aluminum Frame A2				
446		Supply	No	1	
447		Install	No	1	
448	<b>ADDITIONAL EXTRAS( ITEMS NOT LISTED) PLEASE SPECIFY</b>	Supply	Item		
	<b>BILL NO. 7</b> <b>FIRE DETECTION</b>				

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ANNEXURE C: SAPS NSUZE ELECTRICAL BOQ

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
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ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>BILL NO. 8</b>					
<b>EARTHING AND LIGHTNING PROTECTION</b>					
<u>Allow for complete earthing and lightning protection of each building, including bonding of the reinforcing steel and steel columns. All buildings require level 2 lightning protection.</u>					
<b>SOIL RESISTIVITY TESTS FOR ALL BUILDINGS</b>					
449	Soil Resistivity tests	Item	No	1	
<b>VERIFICATION OF LIGHTNING PROTECTION DESIGN FOR ALL BUILDINGS</b>					
450	Verification of lightning protection installation based on construction drawings	Item	No	1	
<b>TESTING AND CERTIFICATION FOR ALL THE BUILDINGS</b>					
451	Complete earth test measurements and provide certificate of compliance for the completed lightning protection installation	Item	No	1	
452	Marked-up as-built drawings of lightning protection installation	Item	No	1	
<b>EARTH AND LIGHTNING PROTECTION INSTALLATION</b>					
453	70mm <sup>2</sup> bare copper earth wire buried plant earth ring to be installed by electrical contractor, buried 500 mm underground	Supply	m	520	
454		Install	m	520	
455	Earth spike, copper. Diameter: 12mm. Length: 1.2m, complete with termination, lug, clamp, bolts, etc.	Supply	No	42	
456		Install	No	42	
457	Aluminium air conductor, 9 mm down conductors for earth lightning protection for each building complete with conductor guides, connections to roof material, wall insulators, and connections to trench conductor	Supply	m	642	
458		Install	m	642	
459	Final (± 500mm) and mounting bracket, complete with clamp, lug, bolts, etc.	Supply	No	29	
460		Install	No	29	
461	20mm <sup>4</sup> PVC conduit pipes	Supply	m	180	
462		Install	m	180	
463	Any other items the tenderer wishes to add to ensure that the tender is fully inclusive of, and everything necessary for the complete supply, installation, etc. of the lightning protection	Item	Item		
<b>SUNDRIES</b>					
464	Test and commission of earth bonding and provision of CoC for the complete electrical installation	Supply	No	1	
<b>BILL NO. 8</b>					
<b>EARTHING AND LIGHTNING PROTECTION</b>					

308

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ANNEXURE C: SAPS NSUZE ELECTRICAL BOQ

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Carried to summary				

E27  
254 (a)

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ITEM	DESCRIPTION	UNIT	RATE	AMOUNT
<b>BILL NO. 9</b>				
<b>PROVISIONAL SUMS</b>				
All provisional sums cover supply of material and equipment and installation. Provisional sums are nett and do not include builder's discount (excluding settlement discount) and Value-Added Tax but the Tenderer may allow under "Profit" items any profit he considers necessary				
<u>Eskom Power Supply</u>				
Allow for the Provisional Sum of R 500 000				
465	for a power supply connection point	Item	1	
466	Add for profit	Item	1	
467	Allow for general attendance	Item	1	
BILL NO. 9 PROVISIONAL SUMS Carried to summary				

310

## ANNEXURE C: SAPS NSUZE ELECTRICAL BOQ

ITEM	DESCRIPTION	UNIT	RATE	AMOUNT
BILL NO. 10 FINAL SUMMARY	1 SITE WORKS	SUM		-
	2 BACKUP POWER SUPPLY EQUIPMENT	SUM		-
	3 LOW TENSION DISTRIBUTION	SUM		-
	4 LIGHTING	SUM		-
	5 POWER POINTS	SUM		-
	6 TELEPHONE AND DATA INSTALLATION	SUM		-
	7 FIRE DETECTION	SUM		-
	8 EARTHING AND LIGHTNING PROTECTIN	SUM		-
	9 PROVISIONAL SUMS	SUM		-
	TOTAL (excluding VAT)			-
	VALUE ADDED TAX			-
	CONTRACT TOTAL (including VAT)			-
BILL NO. 10 PROVISIONAL SUMS Carried to summary				

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## MECHANICAL INSTALLATION - BOQ

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Item  
No

**BILL NO.1**

**AIR-CONDITIONING**

**SUPPLEMENTARY PREAMBLES**

NOTE :

This Bill needs to be read in conjunction with HVAC Layout for full project descriptions and supporting information (NPS-AC-2201).

All products supplied for this installation must be SABS and/or appropriate EU/IEC Standard.

The installation of all supplied materials must be in accordance with the OEM requirements and the installer must be accredited by the OEM to conduct such installation.  
Pricing of all these items must include for all transport, supply and labour.

Pricing of all these items must include for any building repair work that may be required as a result of the installation works.

All work to be executed according to the latest "Five Star Specification" of SAPS.

All product and material specifications, and warranty (offering and conditions) to be provided in the Tender reply.

All Pricing to include for all copper tubing & trunking, housing, bracket connections, condensate drainage and electrical supply from socket point.

Condenser units to be positioned as per the layout drawing.

Product offering for AC units must be Carrier or equivalent.

All units to be single phase, 220V.

Corrosion protection must be suitable for the site proximity to the sea. It must include for appropriately galvanised / coated structural components and coils. Details must be provided.

Cooling systems, materials, components and refrigerant type must comply with SANS 10147:2014.

1	AC 01 - 9000 BTU - Invertor Type (Minimum COP = 3.4; R410a Gas)	No	15
2	AC 02 - 12000 BTU - Invertor Type (Minimum COP = 3.4; R410a Gas)	No	7
3	AC 03 - 18000 BTU - Invertor Type (Minimum COP = 3.4; R410a Gas)	No	4
4	AC 04 - 24000 BTU - Invertor Type (Minimum COP = 3.4; R410a Gas)	No	2
5	AC 05 - 30000 BTU - Invertor Type (Minimum COP = 3.4; R410a Gas)	No	6
6	DH1 - 0,22kW - 10L/day	No	3

Carried to Summary

Amount

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Item  
No

Quantity

Rate

Amount

**BILL NO. 2**

**MECHANICAL VENTILATION**

**SUPPLEMENTARY PREAMBLES**

NOTE :

This Bill needs to be read in conjunction with HVAC Layout for full project descriptions and supporting information (NPS-MV-2201).

All products supplied for this installation must be SABS and/or appropriate EU/IEC Standard.

The installation of all supplied materials must be in accordance with the OEM requirements.

Pricing of all these items must include for all transport, supply and labour.

Pricing of all these items must include for any building repair work that may be required as a result of the installation works.

All work to be executed according to the latest "Five Star Specification" of SABS.

All product and material specifications, and warranty (offering and conditions) to be provided in the Tender reply.

All wall mounted fans to be single phase, 220V.

All wall mounted extraction fans to have back to back grills included.

Supply and Extraction Fans to be AMS or equivalent.

Grills and Weather Louvres to be AMS or equivalent.

Corrosion protection must be suitable for the site proximity to the sea. Details must be provided.

**Extraction Fans**

1	EAF-01 - HV-150AE	No	1
2	EAF-02 - HIT-100 L	No	1
3	EAF-03 - HIT-125 M	No	1
4	EAF-04 - HIT-125 H	No	1
5	EAF-05 - HIT-150 H	No	1
6	EAF-06 - HV-300AE	No	2
7	EAF-07 - HV-230AE	No	2

**Fresh Air Fans**

8	SAF-01 - HIT-100 L	No	2
9	SAF-02 - HIT-200 L	No	1
10	SAF-03 - HIT-250B H	No	1
11	SAF-04 - HIT-250B H	No	1
12	SAF-05 - HIT-315B L	No	1

**Ducting (Galvanised sheet metal)**

13	100mm Diameter	m	52
14	150mm Diameter	m	9
15	200mm Diameter	m	16.6
16	100mmx150mm	m	6
17	150mmx200mm	m	4
18	200mmx200mm	m	6
19	200mmx250mm	m	20
20	300mmx300mm	m	7

Handwritten signatures and initials: J.M., R.M., S.M., and others.

- Flexible Ducting**
- 21 100mm Diameter
  - 22 150mm Diameter
  - 23 200mm Diameter

- Grilles/Diffusers**
- 24 EV-01
  - 25 EV-02
  - 26 SV-01
  - 27 SV-02
  - 28 SV-03

- Weather Louvres**
- 29 WL-01
  - 30 WL-02
  - 31 WL-03

m 48  
m 16  
m 10

No 4  
No 1  
No 16  
No 1  
No 2

No 5  
No 1  
No 4

Carried to Summary

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Item  
No

Quantity

Rate

Amount

**BILL NO. 3**

**POTABLE WATER, FIRE & RAINWATER**

**HARVESTING PUMP SETS**

**SUPPLEMENTARY PREAMBLES**

NOTE :

This Bill needs to be read in conjunction with Potable Water, Fire Installation & Pump Layouts for full project descriptions and supporting information (NPS-PW-2201; NPS-FI-2201; NPS-PL-2201; NPS-RWH-2201).

All products supplied for this installation must be SABS and/or appropriate EU/IEC Standard.

The installation of all supplied materials must be in accordance with the OEM requirements.

Pricing of all these items must include for all transport, supply and labour.

Pricing of all these items must include for any building repair work that may be required as a result of the installation works.

All work to be executed according to the latest "Five Star Specification" of SAPS.

All product and material specifications, and warranty (offering and conditions) to be provided in the Tender reply.

Corrosion protection must be suitable for the site proximity to the sea. Details must be provided.

- |   |  |    |   |
|---|--|----|---|
| 1 | "Wilo" or equal approved fire pump set comprising 3.5 bar fire booster pump operating at 21.5 litres per second and 3.5 bar Jockey pump operating at 1 litre per second including stainless steel manifolds, non-return valves, butterfly valves, all signage, commissioning, testing and training | No | 1 |
| 2 | Control panel for fire pump in accordance with Engineers specifications, including all signage, commissioning, testing and training  | No | 1 |
| 3 | "Wilo" or equal approved potable water pump set comprising 3.1 bar duty pump operating at 8 litres per second and 3.1 bar standby pump operating at 8 litres per second including stainless steel manifolds, non-return valves, butterfly valves, all signage, commissioning, testing and training | No | 1 |
| 4 | Control panel for potable pump in accordance with Engineers specifications, including all signage, commissioning, testing and training   | No | 1 |
| 5 | "Wilo" or equal approved 3 bar submersible pump operating at 1 litre per second including all signage, commissioning, testing and training   | No | 1 |
| 6 | "Wilo" or equal approved 5 bar pump operating at 20 litres per second including all signage, commissioning, testing and training   | No | 1 |

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Item  
No

**BILL NO. 4**  
**GATE MOTOR**

**SUPPLEMENTARY PREAMBLES**

NOTE :

All products supplied for this installation must be SABS approved.

The installation of all supplied materials must be in accordance with the OEM requirements.

Pricing of all these items must include for all transport, supply and labour.

Pricing of all these items must include for any building repair work that may be required as a result of the installation works.

All product and material specifications, and warranty (offering and conditions) to be provided in the Tender reply.

All work to be executed according to the latest "Five Star Specification" of SAPS.

Product offering must be Centurion D10 or equivalent.

- |   |  |
|---|--|
| 1 | Rack Drive Motor Set Complete (including battery & brackets) |
| 2 | Goosenecks (Galvanised mild Steel)                           |
| 3 | Keypad   |
| 4 | Anti-knock Shields   |
| 5 | Remotes  |

No	2
No	4
No	2
No	4
No	8

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317  
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Item  
No

**BILL NO. 5**

**KITCHEN APPLIANCES**

**SUPPLEMENTARY PREAMBLES**

NOTE :

All products supplied for this installation must be SABS approved.

The installation of all supplied materials must be in accordance with the OEM requirements.

Pricing of all these items must include for all transport, supply and labour.

Pricing of all these items must include for any building repair work that may be required as a result of the installation works.

All product and material specifications, and warranty (offering and conditions) to be provided in the Tender reply.

All work to be executed according to the latest "Five Star Specification" of SAPS.

- | Item No | Description   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| 1       | "Vulcan R-E3" or equal approved 18kW, 380V, 3N, three solid top electric range with oven overall size 1000 x 850 x 1100mm   | No 1     |      |        |
| 2       | Grade 304 stainless steel cyclovent kitchen extraction canopy overall size 1400 x 1200 x 610mm high with cycloclean filters and grease cups; including 1 x flush fitting vapour proof light, 1 x axial aerofoil fan/3ph motor, 1 x sound attenuator, 1 x vertical discharge unit, 2 x flanges and including all necessary galvanised ducting, hangers and fasteners, installed complete | No 1     |      |        |

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**MECHANICAL BILL SUMMARY**

**BILL  
NO.**

- 1 AIR-CONDITIONING
- 2 MECHANICAL VENTILATION
- 3 POTABLE WATER, FIRE & RAINWATER  
HARVESTING PUMP SETS
- 4 GATE MOTOR
- 5 KITCHEN APPLIANCES


**PAGE  
NO.**

- 255
- 257
- 258
- 259
- 260

**AMOUNT**

**TOTAL EXCL. VAT CARRIED TO FINAL SUMMARY**

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## FINAL SUMMARY

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# FINAL SUMMARY

No

- 1 PRELIMINARIES
- 2 BUILDING WORK
- 3 EXTERNAL WORKS
- 4 ELECTRICAL INSTALLATION
- 5 MECHANICAL INSTALLATION

## **SUB-TOTAL**

### ADD:

- 6 CONTINGENCY ALLOWANCE (5%)

## **SUB-TOTAL**

### ADD:

- 7 15% (FIFTEEN PERCENT) on the above total for VALUE ADDED TAX

PAGE  
No

AMOUNT

45

R

148

R

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R

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R

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R

R

R

R

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CARRIED TO FORM OF OFFER AND ACCEPTANCE

R

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**CONSTRUCTION OF NSUZE NEW POLICE STATION: KWAZULU NATAL  
PROVINCE**

**BID: 19/1/9/1/131 TB (22)**

**PART C:  
CONTRACT**

**Part C 3**

**Scope of Work**

**PLEASE TAKE NOTE THAT THE DRAWINGS AND SPECIFICATIONS  
ARE ON THE (CD) THAT WAS ISSUED WITH THIS BID DOCUMENT.**

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## **SOUTH AFRICAN POLICE SERVICE**

**APPOINTMENT OF CONTRACTOR SCOPE OF WORKS:**

**CONSTRUCTION OF NSUZE NEW POLICE STATION:  
KWAZULU NATAL PROVINCE**



## DESCRIPTION OF WORKS

Works included in this contract comprises services that includes: Appointment of Contractor for the construction of a new Police Station at Nsuze: KwaZulu-Natal Province. All work will be executed in accordance with the drawings provided by the various discipline, Architectural, Mechanical, Electrical, Civil and Structural etc.

## CONDITIONS OF CONTRACT

The JBCC Series 2000 Principal Building Agreement (edition 4.1 code 2101 dated March 2005) prepared by the Joint Building Contract Committee shall be the applicable building agreement to this contract.

## SCOPE OF THE WORKS

The size of the site is approximately **2,4 Hectare** with buildings consisting of:

1. Community Service Centre with Shift Administration,
2. Public administration and Stores,
3. Crime Investigation Center,
4. Victim Friendly Facility
5. Detective Center,
6. Visible Policing Centre,
7. Crime Intelligence Center,
8. Management Information Centre,
9. Designated Police Office Center (D.P.O)
10. Protection & Security service
11. Cells,
12. Generator yard,
13. Car wash bay, cleaner's room, covered parking, refuse yard
14. Stores and strong rooms
15. Landscaping.
16. Under covered parking

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**Total assignable area:** Approximately **1839.68m<sup>2</sup>** as per approved Needs assessment document.

## LOCATION OF THE SITE

**Site Description:** Portion 36 of Farm Umvoti Location No. 4667 in KwaZulu-Natal Province.

The site falls just within the borders of KZ221 ie uMshwathi Local Municipality as well as that of the Umgungundlovu District Municipality (UDM). Consequently, it is bordered by the Ndwedwe Local Municipality, which forms part of the Illembe DM. It is situated in the Maphumulo Magisterial District in an area administered by the Mthuli Tribal authority.

Access to the site is via the R614(the Greytown to Tongaat Road) The site is located approximately 500m from the start of D1524 some 41km from the start of the R614. There is an existing local access road to the site.

**Site co-ordinates:** 29°21'59"S; 30°52'55"E

The site is situated approximately 25 km north-west of Tongaat

## DRAWINGS

The Bills of Quantities are based on the following drawings which are included for tender purposes: The drawings are for information purposes only, the final construction drawings will be issued to the successful contractor on the date of the site handover.

## ARCHITECTURAL DRAWINGS

DRAWING NO.	DESCRIPTION	SHEET NO.
SHEET 1	SITE AND ROOF PLAN	05 100
SHEET 2	GROUND FLOOR PLAN	05 200
SHEET 3	CLERESTORY PLAN	05 201
SHEET 4	FIRE SAFETY PLAN	05 202
SHEET 5	STORM WATER LAYOUT	05 204
SHEET 6	SECTIONS 1	05 300

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SHEET 7	SECTIONS 2	05 301
SHEET 8	SECTIONS 3	05 302
SHEET 9	SECTIONS 4	05 303
SHEET 10	ELEVATIONS	05 400
SHEET 11	DETAILS SHEET 1	05 500
SHEET 12	DETAILS SHEET 2	05 501
SHEET 13	WASHBAY AND FLEET PARKING DETAIL	05 502
SHEET 14	JOINERY – LOCKER AREA AND BENCH DETAIL	05 505
SHEET 15	JOINERY – RECEPTION DESK AND STATEMENTS	05 506
SHEET 16	JOINERY – WALK-IN, FIREARM, STATION AMMO, SAFE	05 513
SHEET 17	STATIONARY STORE DETAIL	05 515
SHEET 18	SHELF DETAIL FOR ARCHIVE AND DOCKET STORE	05 516
SHEET 19	SHELF DETAIL FOR GENERAL STORE ROOM	05 517
SHEET 20	FENCE 1	05 520
SHEET 21	FENCE 2	05 521
SHEET 22	FENCE 3	05 522
SHEET 23	VISITOR AND DETAINING ROOM	05 550
SHEET 24	KITCHEN INTERIOR	05 552
SHEET 25	BIN AREA	05 553
SHEET 26	DOOR SCHEDULE	05 700
SHEET 27	CELL DOOR AND GATE DETAIL	05 710
SHEET 28	CELL DOOR DETAIL 2	05 711
SHEET 29	CELL WINDOW, CONCRETE LINTOL AND CILL SECTION	05 712
SHEET 30	FLAG POLE DETAIL	05 718
SHEET 31	WC AND WHB DETAIL	05 720
SHEET 32	STORM WATER AND CATCHPIT DETAIL	05 725
SHEET 33	HINGED SCREEN AND SECTION	05 729
SHEET 34	EXTERNAL SCREEN, HINGE AND LUGS	05 730
SHEET 35	SWING GATE	05 731
SHEET 36	SLIDING DOOR DETAIL	05 732
SHEET 37	FINISHING SCHEDULE	05 800
SHEET 38	SANITARY SCHEDULE	05 801

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## ELECTRICAL

DRAWING NO.	DESCRIPTION
LIST OF DRAWINGS	
P15042-TN-00-CLD-001	ELECTRICAL LIST OF DRAWINGS
GENERAL	
P15042-TN-01-ELE-001	SCHEMATIC KIOSK-K-NPS AND KIOSK-K-EPS
P15042-TN-01-ELE-901	GENERAL ELECTRICAL SITE LAYOUT SHEET 1
P15042-TN-01-ELE-902	GENERAL ELECTRICAL SITE LAYOUT SHEET 2
P15042-TN-01-ELE-903	PERIMETER LIGHTS LAYOUT SHEET 1
P15042-TN-01-ELE-904	PERIMETER LIGHTS LAYOUT SHEET 2
P15042-TN-01-ELE-905	EARTHING & LIGHTING PROTECTION
BUILDING	
P15042-TN-02-ELE-001	ELECTRICAL SCHEMATIC DB-C-NPS, DB-C-EPS, DB-C-NPS, EPS
P15042-TN-02-ELE-002	ELECTRICAL SCHEMATIC DB-M-NPS AND DB-M-EPS
P15042-TN-02-ELE-03	ELECTRICAL SCHEMATIC DB-L-NPS, DB-L-EPS, DB-O-NPS AND DB-S-EPS
P15042-TN-02-ELE-101	ELECTRICAL SOCKET OUTLETS LAYOUT
P15042-TN-02-ELE-102	ELECTRICAL POWER POINT LAYOUT
P15042-TN-02-ELE-201	ELECTRICAL LIGHTING LAYOUT
P15042-TN-02-ELE-401	ELECTRICAL WIREWAY LAYOUT
P15042-TN-02-ELE-701	ELECTRICAL FIRE DETECTION
P15042-TN-02-ELE-702	ELECTRICAL ACCESS CONTROL

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**MECHANICAL**

DRAWING NO.	DESCRIPTION
NSP-AC-2201	AIR CONDITIONING LAYOUT
NSP-BWT-2201	BOREHOLE WATER TREATMENT PLANT LAYOUT
NSP-FI-2201	FIRE INSTALLATION & PROTECTION LAYOUT
NSP-HW-2201	HOT WATER LAYOUT
NSP-MV-2201	MECHANICAL VENTILATION LAYOUT
NSP-PL-2201	PUMP LAYOUT
NSP-PW-2201	PORTABLE (DOMESTIC) WATER LAYOUT
NSP-RWH-2201	RAIN WATER HERVEST LAYOUT

**CIVIL**

DRAWING NO.	DESCRIPTION
1977-CL-01	GENERAL ARRANGEMENT
1977-CL-02	SEWER RETICULATION
1977-CL-03	STORMWATER LAYOUT
1977-CL-04	ATTENUATION TANK PLAN, SECTION, DETAILS REINFORCEMENT & BENDING SCHEDULE
1977-CL-05	SEPTIC TANK WITH CONCRETE AND REINFORCEMENT DETAILS

**STRUCTURAL**

DRAWING NO.	DESCRIPTION
1977/S/01	FOUNDATION LAYOUT
1977/S/02	GROUND FLOOR SLAB LAYOUT
1977/S/03	ROOF SLAB LAYOUT
1977/S/04	FOUNDATION BENDING SCHEDULE
1977/S/05	ROOF BEAMS REINFORCEMENT
1977/S/06	ROOF BENDING SCHEDULES
1977/S/07	STRONG ROOM FOUNDATION & ROOF SLAB

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1977/S/08	STRONG ROOM FOUNDATION & ROOF SLAB BENDING SCHEDULES
1977/S/09	STRUCTURAL STEEL BEAM A-T ELEVATION
1977/S/10	SECTION 1-1 & 2-2
1977/S/11	STEEL WATER TANK PLIGHT DETAILS
1977/S/12	JOJO TANK STAND
1977/S/13	JOJO TANK STAND REINFORCEMENT
1977/S/14	BOUNDARY WALL PALISADE FENCING
1977/S/15	BOUNDARY WALL MAIN GATE
1977/S/16	CARPORT AND BOUNDARY WALL FOUNDATION DETAILS

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## **CONSTRUCTION**

### **APPLICABLE STANDARDISED SPECIFICATIONS**

Although not bound in nor issued with this document, the latest issue of all relevant SABS specifications as well as The Model Preambles for Trades (1999 edition) as published by the Association of South African Quantity Surveyors shall form part of the contract Document. Contractor must comply with South Africa Police Service (SAPS) 5-star specification.

### **SITE FACILITIES AVAILABLE**

#### **Water Supply**

Water is not available on site. The contractor must provide water for the duration of the construction of the police station. The Contractor will be responsible, at his/her own cost, for the supply of water for construction use.

#### **Electrical power supply**

Electrical power supply is not available on site. The Contractor must make his/her own arrangements for a connection to the electrical power supply. The Contractor will be responsible, at his/her own cost, for the supply and distribution of electricity for construction use.

### **CONSTRUCTION PROGRAMME**

The successful bidder shall submit a programme, within **FOURTEEN** days after acceptance of his/her offer by the SAPS, showing the order of procedure and method in which, he/she proposes to carry out the Works. The programme shall reflect the completion times as reflected on the contract data document; the programme shall include a bar chart to show the proposed, scheduling methods of execution of the works and the resources to be allocated to each item or phase of the work.

### **OCCUPATIONAL HEALTH AND SAFETY ACT 1993 (Act 85 of 1993)**

The Contractor shall comply with all the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No.85 of 1993). The

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Contractor must take note that the compliance with the Occupational Health and safety Act, Construction regulations and Health and Safety Specification is compulsory.

### **PRICED BILLS OF QUANTITIES**

The priced Bills of Quantities complete with all tender rates, extensions, summaries, etc. must accompany the tender. Failure to comply with will lead to disqualification.

### **PAYMENTS**

All claims for interim payments must be approved and certified by the Principal Agent. Payment for materials on site will only be allowed if documentary proof is submitted that the contractor is the lawful owner of the materials. Contractor is referred to the contract regarding the retention clause applicable to this contract.

### **COMMUNITY LIAISING OFFICER (CLO)**

The contractor shall make provision for the appointment of a community liaising officer which will negotiate and communicate with the adjacent communities.

### **CIDB GRADING**

#### **8GB Grading**

### **INSTRUCTIONS TO THE CONTRACTOR**

Any instructions related to this contract must be given in writing and must be recorded in the site instruction book which will be available on site at all times. The site instruction book must be provided by the contractor. No alterations, variations, instructions, requests, etc. will be allowed unless authorized by the client (SAPS) or the duly authorized representative. No claims for extra work, without written authorization and/or instructions from the client (SAPS) will be entertained.

It should be noted that no additional work or any other aspects which does not form part of the bills of quantities or any Variation Orders may not be executed before an official instruction is received from the SAPS Representative, subject to BAC approval.



## GENERAL LABOUR

It is an explicit condition of this bid that only persons normally reside in the locality of the works (local labour) may be employed on the contract. Provided, however, that should adequate and appropriate labour not be available within the locality, other labour may be employed subject to satisfactory proof being provided that every reasonable endeavour has been made to employ labour from the immediate locality. The contractor shall identify the local community leaders with the purpose of negotiating with them regarding the utilisation of local labour in the construction process. In this regard the contractor shall furthermore give preference, wherever possible to the employment of single heads of households, women and youth. The contractor shall in general maximise the involvement of the local community.

## LOCAL CONTENT

The following material for this project must be procured locally:

- Steel products
- Electrical cables
- Storage Tanks and geysers

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*CONSTRUCTION OF NSUZE NEW POLICE STATION: KWAZULU NATAL  
PROVINCE*

**PART C:**

**CONTRACT**

**Part C4**

**Occupational Health and Safety:**

**PLEASE TAKE NOTE THAT THE OHS- SPECIFICATION IS INCLUDED  
ON THE CD THAT WAS ISSUED WITH THIS BID DOCUMENT.**

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