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	<u>Double sided wall bracket toilet sign of clear anodised aluminium single sign holder extrusion (clear cover - glossy/non glare) with grey ABS end caps, as per Vista System by A.G. Maud or similar and approved, including digitally printed and cut logo, letters and symbols and black background</u>			
51	200 x 200mm Toilet sign with SAPS logo(colour), TOILETS and male and female symbols and fixing bracket to wall (S10)	No	5	
	<u>Progressive Signs or similar and approved photo-luminescent single sided fire and directional signs in natural anodised aluminium frame with ABS material plugged to wall or screwed to door with 15mm countersunk raised head chromium plated screws at each corner or suspended from ceiling including two chromium plated chains all as per manufacturer's specifications</u>			
52	380 x 190mm PLG 5 emergency exit routet sign(right) (E1)	No	4	
53	380 x 190mm PLG 4 emergency exit route sign(left) (E2)	No	4	
54	380 x 190mm PLF 33 exit route sign (E6)	No	9	
55	380 x 190mm PLG 13 first aid kit sign (E7A)	No	5	
56	380 x 190mm PLF 11 emergency fire extinguisher and fire hose reel sign (F4)	No	7	
57	380 x 190mm PLF 2 emergency fire extinguisher sign (F13)	No	7	
58	380 x 190mm PLF 5 emergency fire hose reel sign to be secured with epoxy and tamper proof screws (F14)	No	4	
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<u>Police Logo and Station Name Sign</u>				
59	1100 x 1100 Cast aluminium backing plate sprayed blue, cast aluminium SAPS star mounted on top of backing plate in bronze finish with cast bronze SAPS emblem, 300mm high Arial text letters cut out of 3mm aluminium sheeting to read KANANA POLICE STATION; the lettering to be sprayed blue and fixed on pins and the sign plugged to wall (S1)	No	2	
<u>Welcome Board sign</u>				
60	2450 x 1220mm Sign formed of 1mm thick white chromadek sheets fixed back to back to steel framing (elsewhere measured) with SAPS emblem and Arial text lettering to read WELCOME KANANA POLICE STATION (on both sides) all to SAPS specification and colour codes and lettering and emblem pop rivitted and silicone sealed to backing plates (S3)	No	1	
<u>Batho Pele Sign</u>				
61	2450 x 1220mm Sign formed of 1mm thick white chromadek sheets fixed to steel framing (elsewhere measured) with Arial text lettering to read SOUTH AFRICAN POLICE SERVICE BATHO PELE PRINCIPLES (Principles numbered from 1 to 8 to be included) all to SAPS specification and colour codes and lettering and emblem pop rivitted and silicone sealed to backing plate (S4)	No	1	
<u>Station Plaque Sign</u>				
62	600 x 400mm Sign formed of bronze plate with SAPS emblem and coat of arms and letters in New Times Roman text to read SOUTH AFRICAN POLICE SERVICE KANANA POLICE STATION WAS OFFICIALLY OPENED BY THE HONOURABLE MINISTER OF POLICE (include name of minister and date opened) and plaque fixed to wall (S5)	No	1	
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<u>COAT OF ARMS</u>				
<u>South African Coat of Arms</u>				
63	416 x 318mm South African Coat of Arms fixed to brickwork or timber panelling	No	1	
<u>BATHROOM FITTINGS</u>				
<u>"Franke" or similar approved</u>				
64	"CNTX PAR" Grade 304 32mm diameter 18/10 stainless steel grab rails 300mm x 300mm x 300mm with Franke fine grip, plugged and screwed to the wall with stainless steel screws	No	2	
65	"CNTXBR" Grade 304 32mm diameter 18/10 stainless steel grab rails 750mm x 260mm deep with Franke fine grip, plugged and screwed to the wall with stainless steel screws	No	2	
66	"CNTX600" Grade 304 32mm diameter 18/10 stainless steel grab rails 600mm long with Franke fine grip, plugged and screwed to the wall with stainless steel screws	No	8	
67	"CHRX672" Stainless steel toilet roll holder for two rolls 140 x 128 x 295mm high plugged and screwed to wall	No	22	
<u>"Franke" or similar approved</u>				
68	"STX618" 1,2/1,5mm Thick satin finished stainless steel soap dispenser 100 x 134 x 304mm high with a replaceable and refillable 1 litre container, cylinder lock with standard key, plugged and screwed to wall with stainless steel screws	No	7	
69	Lever operated wall mounted hand sanitizer/alcohol hand rub dispenser bracket suitable for 500ml bottles	No	7	
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70	0.8mm Satin finished stainless Steel wall mounted paper towel dispenser with folded front cover, cylinder lock with standard key, inspection windows on sides, loading capacity of 500-800 pieces, overall size 275 x 112 x 355mm high	No	7
71	400ml Stainless steel spray soap dispenser, overall size 130 x 110 x 215mm high, plugged and screwed to wall with stainless steel screws	No	7
72	Stainless Steel sanitary bin, overall size 300 x 250 x 500mm high, plugged and screwed to wall with stainless steel screws	No	7
73	Stainless Steel waste container 360 x 460 x 170mm with lock plugged and screwed to wall with stainless steel screws	No	7
<u>"Pescatech" or similar approved</u>			
74	190 x 35 x 65mm Stainless steel wall mounted three utility hook	No	10
75	"5511" 50 x 900mm Aluminium wall bracket including plastic medium clip holder for hanging of brooms, mops, etc	No	10
<u>SUNDRIES</u>			
<u>"Dormakaba or similar approved"</u>			
76	"DDS-NP-018" Floor mounted door stop	No	128
<u>BLINDS</u>			
<u>Venetian blinds</u>			
77	Blind for window opening size 600 x 600mm high (W3)	No	7
78	Blind for window opening size 1800 x 1200mm high (W1)	No	4
79	Blind for window opening size 900 x 1500mm high (W2)	No	9
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STEEL LOCKERS

Greenfield fit steel lockers (Type: Security Heavy Duty - Code: S002) or similar approved

80	2 Door locker, size 380mm wide x 450mm deep x 1 800mm high manufactured from 1,6mm steel for doors and 0,8mm steel for sides supplied with 3-way locking system fixed to brickwork or concrete and sie-by-side, all in strict accordance with manufacturers specifications	No	33
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PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC

Continental Enamelling or similar approved

81	Conti-Standard or similar approved magnetic / non-magnetic white writing board 1 000 x 1 000mm high, with natural anodised aluminium edge and penrail plugged to brickwork or concrete	No	12
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82	Conti-Standard or similar approved pinning board 1 000 x 1 500mm high, with natural anodised aluminium edge and penrail plugged to brickwork or concrete	No	9
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Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u></p>			
<p><u>BILL NO. 10</u></p>			
<p><u>STRUCTURAL STEEL (PROVISIONAL)</u></p>			
<p>NOTE: The contractor is advised to study the "General Preambles for Trades 2017" before pricing this bill</p>			
<p>NOTE: The contractor is advised to study the Architect's drawings before pricing this bill. In the case of any discrepancies between the bill and the drawings the contractor must notify the Principal Agent.</p>			
<p>NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No.134 for CPAP formula purposes.</p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>Descriptions</u></p>			
<p>Descriptions of bolts shall be deemed to include nuts and washers</p>			
<p>Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete</p>			
<p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p>			
<p>Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete. Where anchor bolts are described as embedded in sides or soffits of concrete it shall be deemed to include holes through formwork.</p>			
<p>Carried Forward</p>		R	
<p>Section No. 2 BUILDING WORKS Bill No. 10 STRUCTURAL STEELWORK Takgalang Consulting</p>			

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Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete <hr/>		
<u>STEEL COLUMNS AND BEAMS</u>		
<u>Welded plate columns, with flat base, cap, bearer and connection plates, bolted to concrete</u>		
1	100 x 100mm Box section columns of 4mm thick sides	t 0.85
2	150 x 150mm Box section columns of 4mm thick sides	t 0.17
<u>Welded plate beams, with flat bearer and connection plates, bolted to steel</u>		
3	100 x 100mm Box section beams of 4.5mm thick sides	t 1.14
<u>STEEL TRUSSES ETC</u>		
<u>Welded roof trusses of angle section rails, struts, braces, cleats, etc and flat section bearer, gusset and connection plates bolted to steel</u>		
4	Monopitched trusses 10.139 x 0.891m high extreme (Truss 1)	t 2.37
5	Monopitched trusses 9.830 x 0.919m high extreme (Truss 2)	t 3.95
6	Monopitched trusses 9.775 x 1.302m high extreme (Truss 3)	t 2.35
7	Monopitched trusses 3.368 x 0.627m high extreme (Truss 5)	t 0.23
8	Monopitched trusses 7.483 x 0.989m high extreme (Truss 6)	t 0.76
9	Monopitched trusses 4.310 x 0.693m high extreme (Truss 7)	t 0.42
Carried Forward		R
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10	Monopitched trusses 5.273 x 0.785m high extreme (Truss 8)	t	0.70
11	Double pitched trusses 11.041 x 0.827m high extreme (Truss 4)	t	1.07
<u>PURLINS, GIRTS, BRACING, ETC</u>			
<u>Purlins and girts bolted to steel</u>			
12	125 x 65 x 20 x 3mm Thick cold-formed lipped channel purlins	t	6.17
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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 11</u></p> <p><u>METALWORK</u></p> <p>NOTE: The contractor is advised to study the "General Preambles for Trades 2017" before pricing this bill</p> <p>NOTE: The contractor is advised to study the Architect's drawings before pricing this bill. In the case of any discrepancies between the bill and the drawings the contractor must notify the Principal Agent.</p> <p>NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No.136 for CPAP formula purposes.</p> <p>NOTE : All cell steelwork to be inspected and approved in the manufacturer's factory prior to delivery of materials to site</p> <p>NOTE : The price for all aluminium windows, doors, etc must include for the sealing of the windows on the outside with a silicon sealant</p> <p>NOTE : All glazing to comply with Part N of the N.B.R. SABS 10137 SABS 10400, SABS 1263 and AAMSA SELECTION GUIDE FOR SAFETY GLAZING MATERIALS</p> <p>NOTE : All materials and workmanship as per AAAMSA Category 2 BS1474 Powder coating to be to SABS 1578 with minimum 10 year guarantee against peeling and discoloration All in accordance with SABS ISO 9002 All as per Architect's drawings</p> <p>NOTE : All work according to the latest "FIVE STAR SPECIFICATION OF SAPS"</p>			
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NOTE : Purpose made welded, framed and bolted combination cell type windows and internal screens, the windows formed of 2mm mild steel parameter frame and standard PXF7 residential frame including 60 x 3mm mild steel connection plate welded to frame, 30 x 16mm manganese rods built into wall, screw on beadings, etc and the internal screen formed of 40 x 40 x 5mm angle section frame with mitred corners, including 40 x 5mm flat section stiffeners, hot dipped galvanised Flatex 345 expanded metal screen, etc, complete with and including ironmongery, expansion bolts, screw on beadings, etc bolted to brickwork or concrete (glass elsewhere)

STEEL HANDRAILS, BALUSTRADES, ETC

Welded stainless steel handrail to ramp

1 40 x 3mm Stainless steel hollow round handrails including stainless steel handrail supports at 1100mm centres and each fitted with three epoxy anchors. (See detail on drawing A013-4-6) m 18

Stainless steel hand cuff rail to admittance bench

2 30mm Diameter stainless steel grade 304 hand cuff rail fixed to brick wall. See admittance bench with hand cuff rail detail on drawing A013-5-11 m 12

MILD STEEL

Angle Supports

3 40 x 40 x 6mm Angle bearers supporting brick or stone lining m 5

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<u>STEEL FLOORS</u>			
<u>"Mentis" or similar approved fully unified open-floor grating with flat bars and round bars fusion welded together, installed to manufacturer's instructions</u>			
<u>WELDED SCREENS, GATES, ETC</u>			
<u>Purpose made burglar proofing made of 16mm diameter bright mild steel bars @ 80mm centres to specialist</u>			
4	Burglar bars overall size 700 x 900mm high	No	2
5	Burglar bars overall size 850 x 1145mm high	No	32
<u>Purpose made security gates fixed to brickwork</u>			
6	Steel security gate overall size 813 x 2040mm high consisting of steel rods at max. spacing 100mm, all to specialist spec. & detail, to Architect & Eng. approval	No	2
7	Steel security double gate overall size 3629 x 2210mm high consisting of steel rods at max. spacing 100mm, all to specialist spec. & detail, to Architect & Eng. approval	No	1
<u>Purpose made galvanised steel security gates fixed to brickwork</u>			
8	Steel security gate overall size 1018 x 2020mm high consisting of steel rods at max. spacing 100mm, all to specialist spec. & detail, to Architect & Eng. approval	No	2
9	Steel security gate overall size 1208 x 2020mm high consisting of steel rods at max. spacing 100mm, all to specialist spec. & detail, to Architect & Eng. approval	No	17
<u>"Mentis RS40" or similar approved grating formed by compressive locking of bearer bars and transversals, installed to engineer's details</u>			
10	Mentis grating panels	m2	4
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<u>CELL LOCK BOXES BY SPECIALIST</u>			
<u>Cell-type lock box to be orderd from "SAPS Logistics" and welded into door/gate (D1, D2, D3, D3/1, D13, D14)</u>			
11	Cell-type lock box	No	2
12	Labour, waste, fixing material, etc on the above	No	1
13	Attendance	No	1
14	Profit	No	1
15	Floors to manufacturer's specifications	m2	50
<u>PRESSED STEEL DOOR FRAMES</u>			
<u>1,6mm Standard single rebated frames suitable for 110mm brick walls</u>			
16	Frame for single door, size 762 x 2032mm high	No	4
17	Frame for single door, size 813 x 2032mm high	No	82
<u>1,6mm Standard single rebated frames suitable for 220mm brick walls</u>			
18	Frame for single door, size 813 x 2 032mm high	No	13
19	Frame for double door, size 1600 x 2040mm high	No	1
<u>Preparation of frames for fixing of ironmongery</u>			
20	Arm of door closer	No	13
<u>STEEL WINDOWS, DOORS, ETC</u>			
<u>Purpose made steel window frame of standard 100 x 50mm open channel with glazing beads and speech mesh as per details A and B</u>			
21	Window size, 700 x 900mm high	No	2
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<u>Purpose made cell steel window frame to specifications</u>			
22	Window size, 815 x 900mm high	No	3
23	Window size, 850 x 950mm high	No	32
<u>Special purpose mild steel doors, sidelights, fanlights, etc</u>			
24	Single door 1018 x 2020mm high	No	11
<u>Steel doors with one coat red-oxide or zinchomate, and two coats gloss enamel paint, ironmongery to specialist</u>			
25	Double door 3971 x 3000mm high	No	1
<u>ALUMINIUM WINDOWS, DOORS, ETC</u>			
<u>Top hung aluminium window able to meet the mechanical performance requirements of SANS 613 for wind loads of up to 1000Pa with surfaces to receive 60-80µm Charcoal powder coating (for architectural applications), supplied by a manufacturer complying with SANS 1578 and applied in accordance with SANS 1796 by an approved applicator, glazing shall be executed strictly in conformance with glass manufacturer's recommendations and SANS 1263-1 and SANS 10400-N all in accordance with SANS 10400 Parts B, N, XA, plugged and screwed to brickwork or concrete</u>			
26	Window size 590 x 890mm high	No	2
27	Window size 600 x 600mm high	No	18
28	Window size 890 x 890mm high	No	3
29	Window size 900 x 900mm high	No	2
30	Window size 900 x 1200mm high	No	6
31	Window size 1190 x 890mm high	No	2
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32	Window size 1200 x 600mm high	No	1
33	Window size 1200 x 900mm high	No	7
34	Window size 1490 x 1190mm high	No	10
35	Window size 1800 x 900mm high	No	31
36	Window size 1800 x 1200mm high	No	2
<u>Powder coated (charcoal) aluminium doors, glazing to strictly conform to SANS 204 supplied fenestration calculation sheet, complying with SANS 10400XA</u>			
37	Double door 1250 x 2070mm high (D03)	No	9
<u>Powder coated aluminium sliding doors complete with subframes, ironmongery, glass, sealing, etc and fixing to brickwork or concrete</u>			
38	Door size 1800 x 2040mm high (SLD01)	No	1
<u>ALUMINIUM SHOPFRONTS</u>			
<u>Aluminium framed curtain walling system, as per manufacturer's shop drawings, glazing to strictly comply with SANS 204 supplied according to fenestration calculations sheet, glazed in accordance with SANS 10400 Part N schedule 1 and SANS 10137:2011, fitted with friction stays, glazing beads with vinyl and finpile seals plugged and screwed to brickwork or concrete, all in accordance with AAMSA Selection Guide for Glazed Architectural Aluminium Products - June 2008. Colour: Charcoal powdercoated. Or similar approved shopfronts.</u>			
39	Purpose made shopfront, 985 x 3400mm high (CW2)	No	1
40	Purpose made shopfront, 1335 x 2805mm high (SF08)	No	1
41	Purpose made shopfront, 1500 x 2805mm high (SF09)	No	1
42	Purpose made shopfront, 2977 x 815mm high (SF04)	No	1
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43	Purpose made shopfront, 2980 x 2805mm high (SF07)	No	1
44	Purpose made shopfront, 3718 x 815mm high (SF03)	No	1
45	Purpose made shopfront, 4268 x 2975mm high (SF02)	No	2
46	Purpose made shopfront, 5850 x 2975mm high (SF01)	No	2
47	Purpose made shopfront, 5917 x 840mm high (SF05)	No	2
48	Purpose made shopfront, 6250 x 2805mm high (SF07)	No	2
<u>ALUMINIUM LOUVRE UNITS</u>			
<u>Powder coated aluminium horizontal louvre units fixed to brickwork or concrete</u>			
49	Purpose made louvre unit for 2305 x 1735mm high opening (CWL11)	No	1
50	Purpose made louvre unit for 2935 x 1542mm high opening (CWL13)	No	1
51	Purpose made louvre unit for 3413 x 1542mm high opening (CWL14)	No	1
52	Purpose made louvre unit for 3905 x 1140mm high opening (CWL09)	No	1
53	Purpose made louvre unit for 4050 x 1140mm high opening (CWL08)	No	1
54	Purpose made louvre unit for 4321 x 1140mm high opening (CWL10)	No	1
55	Purpose made louvre unit for 5469 x 1735mm high opening (CWL12)	No	1
56	Purpose made louvre unit for 6120 x 1140mm high opening (CWL05)	No	1
57	Purpose made louvre unit for 6396 x 1140mm high opening (CWL15)	No	1
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58	Purpose made louvre unit for 6564 x 1140mm high opening (CWL07)	No	1
59	Purpose made louvre unit for 7220 x 2115mm high opening (CWL04)	No	1
60	Purpose made louvre unit for 8660 x 1140mm high opening (CWL06)	No	1
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<u>PRESSED STEEL TRANSFORMER ROOM DOORS AND FRAMES</u>				
61	Door 813 x 2023mm high	No	1	
<u>Mild steel primed and painted transformer door with factory fitted louvre & padlock latch</u>				
<u>STEEL ROLLER SHUTTERS ETC</u>				
<u>Hydro Thunderstorm Aluzink roller shutters with 220mm wide nibs to both sides of opening supplied and fixed to brickwork or concrete in accordance with the manufacturer's recommendations</u>				
62	Manual push-up roller shutter for 2500 x 2100mm high opening	No	2	
<u>STEEL RECORDROOM AND STRONGROOM DOORS, VENTILATORS, ETC</u>				
<u>SANS 949:2005 approved right hand opening Category 2 heavy duty strong room door and frame, constructed of 20mm steel plate finished with Grey zinc chromate rust resistant primer with one-way moving bolt work with 3 x 250mm round bolts with rebate on hinged side with 2 x 7-lever key locks, 1 x digital key padlock, inner release mechanism and wall mounted door stop</u>				
63	Strongroom door and frame 1200 x 2040mm high overall with a mass of 405kg fixed to brickwork or concrete	No	2	
<u>SHOWER CUBICLES, PANELS AND DOORS</u>				
<u>Epoxy white powder coated aluminium shower cubicle panels and doors with frames, sliding gear, pivot hinges, cleats, stops, etc. and 6mm frosted laminated safety glass plugged to tiled walls and sealed with silicone sealant</u>				
64	Pivot door 900 x 1930mm high.	No	2	
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<u>MISCELLANEOUS</u>				
65	Stainless steel worktop with shelf below. 1500x650x910 mm (LxWxH)	No	1	
66	Stainless steel storage shelving. 1500x650x1800 mm (LxWxH)	No	4	
<p>Carried Forward to Summary of Section No. 2</p> <p>Section No. 2 BUILDING WORKS Bill No. 11 METALWORK Takgalang Consulting</p>				R

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 12</u></p> <p><u>PLASTERING</u></p> <p>NOTE: The contractor is advised to study the "General Preambles for Trades 2017" before pricing this bill</p> <p>NOTE: The contractor is advised to study the Architect's drawings before pricing this bill. In the case of any discrepancies between the bill and the drawings the contractor must notify the Principal Agent.</p> <p>NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No.142 for CPAP formula purposes.</p>			
	<p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>GRANOLITHIC</u></p> <p><u>Method</u></p> <p>The method to be used shall be either the monolithic method or the bonded method</p> <p><u>Preparation</u></p> <p>For granolithic applied monolithically, the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to stiffen; any remaining bleed water shall be removed and the granolithic applied immediately thereafter. For granolithic to be bonded to the floor slab after it has hardened, the slab surface shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc is dislodged and swept clean of all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic</p>			
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<p style="text-align: right;">Brought Forward</p> <p><u>Mix</u></p> <p>Granolithic shall attain a compressive strength of at least 41MPa. The coarse aggregate shall comply with SANS 1083 and shall generally be capable of passing a 10mm mesh sieve. Where the thickness of the granolithic exceeds 25mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolithic</p> <p><u>Panels</u></p> <p>Granolithic shall be laid in panels not exceeding 14m² for monolithic finishes, not exceeding 9,5m² for bonded finishes and not exceeding 6m² for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1,5 times its width</p> <p>Where possible joints between panels shall be positioned over joints in the floor slab and shall be at least 3mm wide through the full thickness of the finish, separated by strips of wood or fibreboard and finished with V-joints</p> <p><u>Laying</u></p> <p>Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels</p> <p>Bonded granolithic shall be applied to the slab after applying a 1:1 sand-and-cement slurry brushed over the surface and allowed to partially set before applying the granolithic. The granolithic shall be thoroughly compacted and lightly wood floated to the required levels</p> <p>After wood floating, the monolithic and bonded granolithic shall remain undisturbed until bleeding has ceased and the surface has stiffened. Any remaining bleed water and laitance shall then be removed and the surface steel trowelled or power floated</p>		R	
<p style="text-align: right;">Carried Forward</p> <p>Section No. 2 BUILDING WORKS Bill No. 12 PLASTERING Takgalang Consulting</p>		R	

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CONSTRUCTION OF MARITE POLICE STATION
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Brought Forward				R
<u>Curing, seasoning and protection</u>				
Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying				
<u>Colour</u>				
Coloured granolithic shall be tinted with an approved colouring pigment mixed into a true and even colour				
<u>SCREEDS</u>				
<u>3:1 Cement plaster screeds steel trowelled on concrete</u>				
1	30mm Thick on floors and landings	m2	1,378	
2	Average 50mm thick on floors to falls and currents	m2	38	
<u>GRANOLITHIC</u>				
<u>Untinted granolithic on concrete</u>				
3	50mm Thick on floors and landings	m2	417	
<u>Untinted granolithic on concrete with two coats "Flowcoat SF41" or similar approved epoxy primer @ 6m2, re-cut movement joints to original geometry and filled with "Flowflex HM" or similar approved flexible joint sealant in strict accordance with the manufacturer's specifications and by approved installer</u>				
4	50mm Thick on floors and landings	m2	78	
<u>Untinted granolithic mixture</u>				
5	750mm x 85mm thick counter top (Refer to drawing A013-5-11)	m	14	
Carried Forward				R
Section No. 2 BUILDING WORKS Bill No. 12 PLASTERING Takgalang Consulting				

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Brought Forward			R
6	Extra over counter top for opening for basin (Refer to drawing A013-5-11)	No	4
<u>INTERNAL PLASTER</u>			
<u>12mm Thick 1:4 cement plaster on brickwork applied in accordance with the manufacturers specification. Apply a sealer coat of bonding liquid before painting</u>			
7	On walls	m2	7,584
8	On narrow widths	m2	21
<u>Prepare with plaster bonding liquid, apply one coat 15mm cement plaster on concrete finished with wood float, and one coat 3mm "Rhinolite" skim coat plaster</u>			
9	On soffits of slabs	m2	318
<u>EXTERNAL PLASTER</u>			
<u>12mm Thick 1:5 cement plaster on brickwork finished off with a wood float, sample panel to be made up for architect's consideration</u>			
10	On walls	m2	1,255
<u>One coat plaster on concrete</u>			
11	On Columns	m2	1
Carried Forward to Summary of Section No. 2			R
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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 13</u></p> <p><u>TILING</u></p> <p>NOTE: The contractor is advised to study the "General Preambles for Trades 2017" before pricing this bill</p> <p>NOTE: The contractor is advised to study the Architect's drawings before pricing this bill. In the case of any discrepancies between the bill and the drawings the contractor must notify the Principal Agent.</p> <p>NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No.144 for CPAP formula purposes.</p>			
	<p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions</u></p> <p>Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding</p>			
	<p>Carried Forward</p>		R	
	<p>Section No. 2 BUILDING WORKS Bill No. 13 TILING Takgalang Consulting</p>			

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Brought Forward			R
<u>WALL TILING</u>			
<u>600 x 600mm Hard body ceramic wall tiles fixed with tile adhesive to plaster backing (plaster elsewhere) and flush pointed with tile grouting with 2mm joints installed by tiling specialist</u>			
1	On walls	m2	194
2	On walls in isolated panels, splashbacks, etc	m2	9
3	On narrow widths	m2	13
4	Fair exposed cutting and fitting around pipe not exceeding 100mm internal diameter	No	59
<u>FLOOR TILING</u>			
<u>600 x 600 x 2mm Hard bodied porcelain tiles laid to pattern as per architect's layout. To be laid in strict accordance with the manufacturer's specifications. To comply generally with the requirements of EN 10545-1 to 14 and as per SANS 10107: 2011 – Edition 3</u>			
5	On floors and landings	m2	1,237
6	Skirting 100mm high of cut floor tiles	m	740
<u>EXTERNAL FLOOR TILING</u>			
<u>600 x 600 x 2mm Hard bodied porcelain tiles laid to pattern as per architect's layout. To be laid in strict accordance with the manufacturer's specifications. To comply generally with the requirements of EN 10545-1 to 14 and as per SANS 10107: 2011 – Edition 3</u>			
7	On floors and landings	m2	31
8	100mm high skirting	m	26
Carried Forward			R
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Brought Forward

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MOVEMENT JOINTS

Rubber Sealant tile expansion joint between tiles
(All according to specialist)

9 20mm High between tiles including all necessary tile stops, etc (Provisional)

m

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Carried Forward to Summary of Section No. 2

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BUILDING WORKS
Bill No. 13
TILING
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Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u></p>			
<p><u>BILL NO. 14</u></p>			
<p><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></p>			
<p>NOTE: The contractor is advised to study the "General Preambles for Trades 2017" before pricing this bill</p>			
<p>NOTE: The contractor is advised to study the Architect's drawings before pricing this bill. In the case of any discrepancies between the bill and the drawings the contractor must notify the Principal Agent.</p>			
<p>NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No.146 for CPAP formula purposes.</p>			
<p>NOTE : All work according to the latest "FIVE STAR SPECIFICATION OF SAPS"</p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p>Concrete pipes</p>			
<p>Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings</p>			
<p>Vitrified clay pipes etc</p>			
<p>Pipes shall rest on solid ground and, where necessary, pockets of sufficient size shall be cut around joints to enable the jointing to be properly performed or, alternatively, pipes shall be bedded full length on and including unreinforced concrete laid in a semi-dry state immediately before pipes are laid</p>			
<p>Carried Forward</p>		R	
<p>Section No. 2 BUILDING WORKS Bill No. 14 PLUMBING AND DRAINAGE (PROVISIONAL) Takgalang Consulting</p>			

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**CONSTRUCTION OF MARITE POLICE STATION
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<p style="text-align: center;">Brought Forward</p> <p>uPVC pipes and fittings</p> <p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings</p> <p>Soil, waste and vent pipes and fittings shall be solvent weld jointed</p> <p>uPVC pressure pipes and fittings</p> <p>Pipes for water supply shall be of the class stated</p> <p>Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings</p> <p>Pipes of 50mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints</p> <p>Copper pipes</p> <p>Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground</p> <p>Lead pipes and traps</p> <p>All soldered joints shall be wiped and brass unions shall be used for jointing lead to steel</p>		R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 2 BUILDING WORKS Bill No. 14 PLUMBING AND DRAINAGE (PROVISIONAL) Takgalang Consulting</p>		R	

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CONSTRUCTION OF MARITE POLICE STATION
SOUTH AFRICAN POLICE SERVICES
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Brought Forward

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Reducing fittings

Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained

Wire gratings

Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings

Reducing fittings

Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained

Exposed concrete surfaces

Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gully tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster

Carried Forward

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BUILDING WORKS
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PLUMBING AND DRAINAGE (PROVISIONAL)
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<p style="text-align: center;">Brought Forward</p> <p>Excavations</p> <p>No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling</p> <p>"Soft rock" and "hard rock" shall be as defined in "Earthworks"</p> <p>Laying, backfilling, bedding, etc of pipes</p> <p>Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions</p> <p>Laying, backfilling, bedding, etc of pipes</p> <p>Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions</p> <p>Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium-pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB : Earthworks (Pipe trenches) Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB : Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be class B bedding</p> <p>Flush pans</p> <p>Flush pans shall have straight or side outlets and "P" or "S" traps as necessary</p>		R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 2 BUILDING WORKS Bill No. 14 PLUMBING AND DRAINAGE (PROVISIONAL) Takgalang Consulting</p>		R	

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Waste unions

Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings

Steel sectional water tanks

Tanks shall comply with SABS CKS 114

PLUMBING

NOTE: All items in this section shall be deemed to fall into Work Group No.148 for CPAP formula purposes.

RAINWATER DISPOSAL

Aluminium Guttering commercial profile aluminium seamless pre-painted gutters sealed on the inside with Dow Corning 813 silicone sealer, secured to fibre cement fascia with 25 x 2,5mm L - Shaped and internal brackets at 600mm centres using aluminium peeled rivets, including a 50 x 20mm high overflow spigot, including expanded aluminium mesh leaf guard set over gutter

1	100 x 115 x 0,6mm Eaves gutters	m	240
2	Extra over eaves gutter for stopped end	No	46
3	Extra over eaves gutter for outlet for 100 x 75mm pipe	No	52
4	100 x 75mm Rainwater pipes fixed to wall with straps at 1500mm centres using nail plugs	m	182
5	Extra over rainwater pipe for shoe	No	52

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Brought Forward			R
6	Extra over rainwater pipe for eaves or plinth offset 450mm projection	No	52
<u>"Fulbore" cast iron outlets</u>			
7	110mm Side outlet	No	4
<u>uPVC Class 6 pipes</u>			
8	110mm Pipes	m	18
<u>Extra over uPVC Class 6 pipes for fittings</u>			
9	110mm Bend	No	4
10	110mm Fulbore adaptor	No	4
<u>SANITARY FITTINGS</u>			
<u>"Franke" or similar approved stainless steel</u>			
11	"Franke Rondo RDX 610-34" 340mm Diameter x 140mm deep stainless steel drop-in preparation bowl with "Franke Spazio1" plumbing kit	No	1
12	"Franke Quinline QLX611" stainless steel grade 304(18/10) single bowl sink overall size 900 x 500mm with bowl size 343 x 410 x 166mm deep including "Franke Spazio1" plumbing kit	No	10
13	"Franke LDS" Grade 304 18/10 0.9mm thick stainless steel drip sink, size 600 x 500mm x 258mm deep with one pressed bowl with 43 litre bowl and 40mm waste outlet and chrome plated anti-theft plug. Unit fitted with stainless steel hinged bucket grid manufactured from 10mm stainless steel round bar and a pair of stainless steel Eagle brackets and fixed to wall 600mm high from the top of the front apron to the finish floor level with 4 off anchor bolts	No	1
14	SAPX597 Heavy Duty Wall and Floor Mounted WC Pan 395 x 550 x 485mm high to manufacture unit from Grade 304 (18/10) Stainless Steel, 1,2 mm and 1,6 mm gauge with C-CIS-DUCT duct vandal resistant cistern	No	3
Carried Forward			R
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Brought Forward			R
<u>"Vaal" or similar approved</u>			
15	"Daisy" vitreous china semi-rectangular lavatory basin, size 510 x 400 x 170mm with three semi-punched tap holes, integrated overflow and chainstay hole, bolted to wall with two 10mm bolts and sealed with silicon sealant	No	11
16	"Bantam" vitreous china basin size 455 x 290 x 210mm with two semi-punched tap holes, integrated overflow and chainstay hole, bolted to wall with two 10mm bolts and sealed with silicon sealant	No	8
17	"Du Pont" vanity basin 520 x 367 x 158mm deep with chrome plated anti-theft plug, one tap hole and chainstay, sitted on "Surrino" vanity top and sealed around edges with silicone sealant	No	1
18	"Orchid" 583 x 355mm top inlet 90 degree wall hung open rim pan comprising galvanised steel floor bracket, thermoset double flap plastic seat with lid and stainless steel hinges	No	20
19	"Orchid" 583 x 355mm top inlet 90 degree wall hung paraplegic open rim pan comprising galvanised steel floor bracket, thermoset double flap plastic seat with stainless steel hinges	No	2
20	"Sweetpea" vitreous china wall mounted urinal 565 x 310 x 275mm with top inlet, comprising chromium plated spreader, 38mm domical grating and 2No. hanger brackets	No	5
21	1800 x 700mm bath with waste outlet, overflow grating with coupling and pair of handles, bedded in position	No	4
22	Overhead ceiling shower with resistant valve	No	3
<u>Kitchen Yard Requirements</u>			
23	A concrete double bowl washing trough to be installed with heavy duty 19mm bib taps		SUM
Carried Forward			R
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Brought Forward			R
<u>Sanitary Fittings for Cell Block</u>			
24	Drinking fountain basin including 15mm push-button tap (prison type)	No	3
<u>TRAPS ETC</u>			
25	Kessel Dn50 Ultraflat ABS SKU 45000& upper section stainless cover SKU 48201 Shower trap	No	6
26	Cobra 316 sink waste chromium plated with 70mm flange and 45mm long shank slotted	No	15
27	Cobra 301 basin waste chromium plated	No	30
28	Herbish 200SV stainless steel floor drain or similar	No	6
29	32mm chromium plated bottle trap	No	15
30	Geberit 50mm diameter vertical concealed siphonic urinal trap (code 152.94.00.1)	No	15
31	50mm Flexi bath combination P trap	No	15
32	50mm Flexi mini P trap	No	10
33	110 mm Geberit pan connector	No	10
34	152.232.00.1 Geberit concealed trap for washing machine, with in-wall cabinet and ready-to fit set 50 - 56 or similar approved	No	10
<u>TAPS, VALVES, ETC</u>			
<u>"Cobra Watertech" or similar approved</u>			
35	Single lever basin mixer with 1/2" female iron 400mm long flexible hose	No	1
36	15mm Chrome plated elbow action pillar-type mixer with overarm swivel outlet and flanged backnut	No	1
Carried Forward			R
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Brought Forward			R
37	15mm Chrome plated push button demand pillar tap including flanged backnut and 6l/min low-flow aerator insert for M24X1 or M22X1 housing	No	10
38	15mm Chromium plated two handle "star" basin mixer including flanged backnut and 6l/min low-flow aerator insert for M24X1 or M22X1 housing	No	13
39	15mm Chrome plated two handle "star" sink mixer with aerated swivel spout	No	10
40	15mm Chrome plated bibtap including 50mm long extension piece	No	1
41	15mm 128-15CP "Star" undertile stopcock	No	4
42	15mm Chrome angle regulating valve including 350mm braided flexible connection pipe	No	32
43	Chrome single function 1/2" BSP male inlet shower head with self-cleaning spray nozzle, minimum flow pressure of 50 kPa and maximum flow of 10L/min	No	4
44	Chrome plated top entry "Flushmaster" toilet flush valve with wall flange and adjustable telescopic connection	No	20
45	Chrome plated back entry "Flushmaster" toilet flush valve with extended lever, wall flange and adjustable telescopic connection	No	2
46	Chrome plated "Flushmaster Junior" urinal flush valve with 215mm long urinal flush pipe	No	5
Carried Forward to Summary of Section No. 2			R
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Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 15</u></p> <p><u>GLAZING</u></p> <p>NOTE: The contractor is advised to study the "General Preambles for Trades 2017" before pricing this bill</p> <p>NOTE: The contractor is advised to study the Architect's drawings before pricing this bill. In the case of any discrepancies between the bill and the drawings the contractor must notify the Principal Agent.</p> <p>NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No.150 for CPAP formula purposes.</p>			
<p><u>GLAZING TO STEEL WITH PUTTY AND SCREWED ON BEADS (BEADS ELSEWHERE)</u></p> <p><u>6.4mm Clear laminated safety glass</u></p>			
1	Panes exceeding 0,5m2 and not exceeding 2m2	m2	33
<p><u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u></p> <p><u>6mm Copper-free toughened glass mirrors with bevelled edges, fixed to tiled splashback with mirror tape and dome capped mirror screws</u></p>			
2	Mirror 500 x 800mm high	No	11
3	Mirror 900 x 1700mm high	No	1
Carried Forward			R
<p>Section No. 2 BUILDING WORKS Bill No. 15 GLAZING Takgalang Consulting</p>			

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Brought Forward

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BULLET RESISTANT GLASS

AUDIO SERVICE WINDOW

4	Audio Service level 3 bullet resistant glass size 2648 x 1200 fitted with X2 Speakers to natural anodised aluminium Frame including shallow document tray	No	1
5	Audio Service level 3 bullet resistant glass size 4975 x 1200 fitted with X4 Speakers to natural anodised aluminium Frame including shallow document tray	No	1
6	Audio Service level 3 bullet resistant glass size 1038 x 1200 fitted with X1 Speakers to natural anodised aluminium Frame including shallow document tray	No	3

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BUILDING WORKS
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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 16</u></p> <p><u>PAINTWORK</u></p> <p>NOTE: The contractor is advised to study the "General Preambles for Trades 2017" before pricing this bill</p> <p>NOTE: The contractor is advised to study the Architect's drawings before pricing this bill. In the case of any discrepancies between the bill and the drawings the contractor must notify the Principal Agent.</p> <p>NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No.152 for CPAP formula purposes.</p>			
	<p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions</u></p> <p>Description of paintwork shall be deemed to include for the preparation of surfaces, including filling, stopping, sanding, priming, of nail heads and screws and for all cutting in</p> <p><u>Paint specification</u></p> <p>All painting shall be done in accordance with "PLASCON" specifications and rates must include for all primers undercoats and final coats. A representative from "Plascon" will be expected to inspect/test work in progress</p>			
	<p>Carried Forward</p>		R	
	<p>Section No. 2 BUILDING WORKS Bill No. 16 PAINTWORK Takgalang Consulting</p>			

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Brought Forward

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PAINTWORK ETC TO NEW WORK

ON INTERNAL FLOATED PLASTER SURFACES

One coat Professional plaster primer and two coats ESSENTIAL COLLECTION - SILVER 38 with 2 hours drying time between coats, for a maintenance cycle of 10 years in a C1 - inland environment. Or similar approved

1	On internal walls	m2	6,081
2	On ceilings and beams	m2	318

ON EXTERNAL FLOATED PLASTER SURFACES

One coat Professional plaster primer and two coats ESSENTIAL COLLECTION - SILVER 38 with 2 hours drying time between coats, for a maintenance cycle of 10 years in a C1 - inland environment. Or similar approved

3	On external walls	m2	458
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ON INTERNAL GYPSUM PLASTER SURFACES

One coat Plaster Primer with an overcoating time of 16 hours and finish with two coats Kitchens & amp: Bathrooms with 2 hours drying time between coats, for a maintenance cycle of 10 years in a C1 - inland environment. • Environment : C1 - inland • Topcoat : Kitchens & Bathrooms • Number of coats of topcoat : two coats • Overcoating time for topcoat : 2hour • Primer/Base coat : Plaster Primer • Overcoating time for primer/base coat : 16hour • colour range: White

4	On ceilings and beams	m2	255
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<u>ON METAL SURFACES</u>			
<u>One coat plaster primer with an overcoating time of 16 hours and finish with two coats Acrylic Roof Paint with 2 hours drying time between coats, for a maintenance cycle of 10 years in a C1 - inland environment. • Environment : C1 - inland • Topcoat : Acrylic Roof Paint • Number of coats of topcoat : two coats • Overcoating time for topcoat : 2hour • Primer/Base coat : Plaster Primer • Overcoating time for primer/base coat : 16hour • colour range: TBC</u>			
5	On windows	m2	63
<u>One coat Metalcare mild steel primer with an overcoating time of 16 hours and finish with two coats Water Based paint with 4 hours drying time between coats, for a maintenance cycle of 5 years in a C1 - inland environment. • Environment : C1 - inland • Topcoat : Water Based paint • Number of coats of topcoat : two coats • Overcoating time for topcoat : 4hour • Primer/Base coat : Metalcare Mild Steel Primer • Overcoating time for primer/base coat : 16hour • colour range: Bovine tint</u>			
6	On door frames	m2	119
<u>Spot priming defects in pre-primed surfaces with zinc chromate primer and applying one undercoat and two coats Plascon Velvaqlo paint on steel</u>			
7	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	165
<u>ON WOOD SURFACES</u>			
<u>Two coats wood primer</u>			
8	On backs of frames, linings, etc not exceeding 300mm wide	m	5
Carried Forward			R
Section No. 2 BUILDING WORKS Bill No. 16 PAINTWORK Takgalang Consulting			

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Brought Forward			R
<p><u>One coat Wood Primer with an overcoating time of 16 hours and finish with two coats Water Based with 4 hours drying time between coats, for a maintenance cycle of 12 years in a C1 - inland environment. • Environment : C1 - inland • Topcoat : Water Based • Number of coats of topcoat : two coats • Overcoating time for topcoat : 4hour • Primer/Base coat : Wood Primer • Overcoating time for primer/base coat : 16hour • colour range: White.</u> <u>S T SITE WORKS & LANDSCAPIN</u></p>			
9	Paint: on doors	m2	387
10	On door frames etc	m2	1
<p><u>Prepare and apply one coat 10% diluted and two coats undiluted acid resistant polyurethane varnish with matt finish</u></p>			
11	On shelving	m2	71
<p>Carried Forward to Summary of Section No. 2</p> <p>Section No. 2 BUILDING WORKS Bill No. 16 PAINTWORK Takgalang Consulting</p>			R

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Item No		Unit	Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 1</u></p> <p><u>MV RETICULATION</u></p> <p>NOTE: The contractor is advised to study the "General Preambles for Trades 2017" before pricing this bill</p> <p>NOTE: The contractor is advised to study the Electrical Engineer's drawings before pricing this bill. In the case of any discrepancies between the bill and the drawings the contractor must notify the Principal Agent.</p> <p>NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No.162 for CPAP formula purposes.</p>				
1	<p><u>MV RETICULATION</u></p> <p>Provide Sum of R350 000,00 for Supply and Install 150kVA three phase 11kV/400V pole-mount transformer complete with metering kiosk and mounting structures.</p>			SUM	
	<p>Carried Forward to Summary of Section No. 3</p> <p>Section No. 3 ELECTRICAL INSTALLATION Bill No. 1 MV RETICULATION Takgalang Consulting</p>			R	

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Item No		Unit	Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 2</u></p> <p><u>LV RETICULATION</u></p> <p>NOTE: The contractor is advised to study the "General Preambles for Trades 2017" before pricing this bill</p> <p>NOTE: The contractor is advised to study the Electrical Engineer's drawings before pricing this bill. In the case of any discrepancies between the bill and the drawings the contractor must notify the Principal Agent.</p> <p>NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No.162 for CPAP formula purposes.</p>				
	<p><u>DISTRIBUTION KIOSKS</u></p> <p><u>3CR12, Powder coated, plinth mounted, complete with equipment as specified</u></p>				
1	Main Kiosk	No	1		
	<p><u>TRENCHING</u></p> <p><u>Excavating, bedding, backfilling, consolidating and making good as specified</u></p>				
2	Pickable soil	m3	127		
3	Hard rock	m3	55		
4	Very hard rock	m3			Rate only
5	Backfilling and compaction	m3	182		
6	110mm diameter PVC sleeves for road crossings/cable entries into the building-rate must include for galvanised steel draw wires in spare sleeves and sealing of ends	m	250		
	Carried Forward			R	
	<p>Section No. 3 ELECTRICAL INSTALLATION Bill No. 2 LV RETICULATION Takgalang Consulting</p>				

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		Brought Forward		R	
7	Concrete slabs for crossing of other services - rate	m			Rate only
	<u>Concrete slabs for crossing of other services - rate must include installation 200mm below existing services</u>				
8	Cable warning tape, 300mm above cables	m	650		
9	Cable markers, above cables	No	12		
	<u>600/1000V PVC SWA cables, in trenches and sleeves, including labels</u>				
10	95mm ² 4core	m	150		
11	50mm ² 4core	m	60		
12	10mm ² 4core	m	150		
13	6mm ² 4core	m	150		
14	16mm ² 2core	m	1,332		
15	2,5mm ² 2core	m	25		
	<u>600/1000V Cable terminations, for PVC PVC SWA PVC Cu cables, for indoor or outdoor use, as required</u>				
16	Gland no 5 complete with shroud	No	6		
17	Gland no 4 complete with shroud	No	6		
18	Gland no 3 complete with shroud	No			Rate Only
19	Gland no 2 complete with shroud	No			Rate Only
	<u>Earth conductors (HDHC), including ends</u>				
20	70mm ²	m	150		
21	35mm ²	m	60		
22	10mm ²	m	150		
		Carried Forward		R	
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Brought Forward			R
23	6mm ²	m	1,332
24	1,5mm ²	m	25
25	Electrical and electronics manholes 600X600mm	No	8
26	Testing of this section in the presence of the Employer and/or the Engineer, including all equipment, power generator, etc.	No	1
Carried Forward to Summary of Section No. 3			R
Section No. 3 ELECTRICAL INSTALLATION Bill No. 2 LV RETICULATION Takgalang Consulting			

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		Brought Forward		R	
Radius bends:					
4	75mm Diameter	No			Rate Only
5	110mm Diameter	No			Rate Only
Draw Wires					
6	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	850		
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 bushbars, neutral and earth bars, correctly sized internal</u>					
7	Supply and install a two tier distribution board	No	1		
Low Voltage PVC Cables					
<u>Supply and installation of PVC SWA PVC cable and Bare Copper Earth Wire in sleeves and in trenches</u>					
8	50mm 4 core PVC SWA Cable	m			Rate Only
9	35mm BCEW	m			Rate Only
Terminations:					
10	50mm 4 core cable	No			Rate Only
11	35mm BCEW	No			Rate Only
		Carried Forward		R	
Section No. 3 ELECTRICAL INSTALLATION Bill No. 3 STATION BLOCK Takgalang Consulting					

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		Brought Forward		R	
<u>CONDUIT WORK</u>					
<u>Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.</u>					
<u>Built or Chase into brick or concrete work:</u>					
12	20mm PVC conduit	m			Rare Only
13	25mm PVC conduit	m	400		
<u>In Ceiling space and Timber work or along purlins</u>					
14	20mm PVC conduit	m	450		
15	25mm PVC conduit	m			Rate Only
<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.</u>					
16	20mm diameter 4 way type(round box)	No	80		
<u>WALL BOXES</u>					
<u>Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.</u>					
<u>Flush mounted type:</u>					
17	100 x 50 x 50mm	No	5		
18	100 x 100 x 50mm	No	23		
<u>PVC Wiring in conduits:</u>					
19	2.5mm ² for lights circuits	m	2,800		
20	4mm ² for plug sockets circuits and Isolators	m	4,500		
		Carried Forward		R	
Section No. 3 ELECTRICAL INSTALLATION Bill No. 3 STATION BLOCK Takgalang Consulting					

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		Brought Forward		R	
		<u>Stranded Bare Copper Earth Wire</u>			
		<u>Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.</u>			
21	2.5mm ²	m	2,800		
22	4mm ²	m			Rate Only
		<u>LIGHT SWITCHES</u>			
		<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.</u>			
23	1 Lever 1 way	No	5		
24	1 Lever 2 way	No			Rate Only
25	2 Lever 2 way	No			Rate Only
26	2 Lever 1 way	No			Rate Only
27	360° Programmable ceiling P.I.R presence detector: - The unit shall control lights and air conditioner - Output channel 1 for simple ON/OFF switching - Output channel 2 for dimmable control of Dali luminaires	No	36		
28	360° Programmable ceiling P.I.R presence detector: - The unit shall control lights only - Unit to allow for maintained illuminance control in corridors and common areas - Corridors to be dimmed to 100LX when unoccupied	No	47		
29	DAY/NIGHT SWITCH	No	2		
		Carried Forward		R	
		Section No. 3 ELECTRICAL INSTALLATION Bill No. 3 STATION BLOCK Takgalang Consulting			

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		Brought Forward			R
<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.					
The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification.					
All flush type boxes and special pedestals measured elsewhere.					
<u>Flush switched sockets type:</u>					
30	16A single socket outlets - ZA plug	No	14		
31	16A double socket outlets	No	9		
32	Type F Socket outlet	No	1		
33	Type D Socket outlet	No			Rate Only
34	Power Pole	No			Rate Only
<u>LIGHT FITTINGS</u>					
<u>Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps, fixing material, mounting and tubes. Allowance must be made in the rates for all the required fixing materials and accessories.</u>					
35	"BEKA" or similar approved 30W Recessed 600x600mm LED panel	No	100		
36	"BEKA" or similar approved 30W 600x600mm LED panel with surfaced mount frame	No	12		
37	"BEKA" or similar approved 16W bulkhead series 51 LED with prismatic diffuser	No	28		
38	"BEKA" 7W RONDOLED maxi fitting	No	78		
		Carried Forward			R
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