

Item No	<u>SECTION NUMBER 2</u>	Quantity	Rate	Amount
	<u>BILL NUMBER 17</u>			
	<u>PAINTWORK</u>			
	JBCC Work Group No. 152			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	The "Model Preambles for Trades" (1992 Edition) as recommended and published by the Association of South African Quantity Surveyors shall be deemed to be incorporated herein for tender puposes. Tenderers are referred to this document for the full intent and meaning thereof			
	<u>PAINTWORK, ETC TO NEW WORK</u>			
	<u>ON FLOATED PLASTER</u>			
	<u>Prepare and apply one undercoat (UC1) of Plascon plaster primer and two coats Plascon double velvel wall paint or other approved</u>			
1	On internal walls	m2	204	
	<u>Prepare and apply one undercoat and two coats Wall and All paint, applied strictly according to manufacturer's specifications or other approved</u>			
2	On external walls	m2	193	
	<u>Prepare for and apply one acrylic fillercoat and two coats teflon based durable low sheen pure acrylic paint with good scrub resistance</u>			
3	On concrete ceilings	m2	86	
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<b><u>ON FIBRE CEMENT</u></b>		
<b><u>One coat universal plaster primer and two coats PVA acrylic paint</u></b>		
4	On ceilings	m2 116
5	On fascias and barge boards	m2 259
<b><u>One undercoat detergent and paint one coat "Eggshell" paint or other approved</u></b>		
6	On window cills not exceeding 300mm wide	m 158
<b><u>PAINT ON METAL</u></b>		
<b><u>One coat Glatex 8 metal primer (PL3) and apply two coats Glatex 8 finishing coats or other approved on:</u></b>		
7	Door frames	m2 17
8	On cell and safe door and frames	m2 37
9	On gates, grilles, burglar screens, balustrades, etc. (both sides measured over the full flat area)	m2 159
10	On steel columns, beams, base plates, etc	m2 316
<b><u>ON WOOD</u></b>		
<b><u>One coat "Spick &amp; Span Oil Based Wood Primer (UC2)" under coat and two coats "Plascon Velvaco Polyurethane Velvet Enamel (VLO)" paint or other approved</u></b>		
11	On doors & Frames	m2 90
<b><u>Three coats polyurethane clear varnish</u></b>		
12	On doors & Frames	m2 90
13	Skirtings and mouldings not exceeding 300mm girth	m 294

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**PREVIOUSLY PAINTED SURFACES**

**General Notes:**

All surfaces to be perfectly dry & in a fit state to receive paint before any application commences

**PAINTWORK, ETC TO EXISTING WORK**

**ON PLASTER, FIBRE CEMENT, ETC.**

Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with suitable filler and finished smooth.

**Prepare and apply one undercoat (UC1) of Plascon plaster primer and two coats Plascon Velvado "Brocken White" (VLO 26) wall paint or other approved**

14	On internal walls	m2	1 933
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**Prepare and apply one undercoat of Plascon plaster primer and two coats Plascon Wall and all wall paint or other approved**

15	On external walls	m2	974
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**Clean down and apply one undercoat detergent and paint one coat "Eggshell" paint or other approved**

16	Window cills	m	1
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**ON METAL**

Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal. Care is to be taken when rubbing down previously finished galvanised steelwork, not to damage or remove the galvanising.

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Prepare, removing all rust to bright metal, spot priming bare metal surfaces with one coat Glatex 8 metal primer (PL3) and apply two coats Glatex 8 finishing coats or other approved

17	Door frames	m2	7
18	On windows with burglar proofing (both sides measured)	m2	1

**ON WOOD**

Three coats polyurethane clear varnish

19	Picture rails not exceeding 300mm girth	m	551
20	General surfaces	m2	29

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**SECTION NUMBER 2**

**BILL NUMBER 18**

**PROVISIONAL SUMS**

The following provisional sums are for equipment and material provided and erected or installed by firms of specialist appointed by the Principal Agent

**Note:** All Provisional Sums are nett and exclude any trade discount or other allowances

**ATTENDANCE**

The following services for the purpose of the relative sub-contract works:

1. access to the site and to the places where the work is to be carried out, including the use of any temporary personnel hoists erected by the Contractor for his own use,
2. the provision of water and lighting and of single phase electrical power to a position within 30 metres of the place where work is to be carried out, but excluding water, fuel and power for commissioning of the installation for which the Sub-Contractor shall be responsible
3. the provision of an area for office accommodation, temporary workshops and for the storage of plant and materials
4. the use of erected scaffolding belonging to the contractor in common with others having the right whilst it so remains erected upon the site
5. the use of mess rooms, latrines, health and welfare facilities and the like,
6. the use of the site telephone(if provided) subject to the payment by the Sub-Contractor for all his outgoing calls,
7. temporary casing and/or other protection of the works,

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- 8. site security measures,
  - 9. hoisting of the Sub-Contractor's material in loads not exceeding 500kg,
  - 10. making good in all trades and final cleaning down on completion.
- "Special attendance" on nominated Sub-Contractors, such as unloading, storing, additional hoisting, placing in position, providing scaffolding requirements, clearing away the rubbish is detailed separately in each case where required.

**SIGNAGE**

- 1 Allow the Provisional Amount of R50 000.00 (Fifty Thousand Rand) NET for Signage complete
- 2 Add for profit
- 3 Add for general attendance on subcontractor

Item	50 000 00
Item	
Item	

**DEMOLITION OF GAS TANK AND PUMP**

- 4 Allow the Provisional Amount of R150 000.00 (One Hundred and Fifty Thousand Rand NET) for Demolition of Gas tank and Pump
- 5 Add for profit
- 6 Add for general attendance on subcontractor

Item	150 000 00
Item	
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**COMMUNITY LIAISON OFFICER**

- 7 Allow the Provisional Amount of R82 500.00 (Eighty Two Thousand Five Hundred Rand) for the appointment of a Community Liaison Officer.
- 8 Profit and attendance on above-mentioned item

Item	82 500 00
Item	

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9	Floor Coverings	85	
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13	Plastering	110	
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	<b><u>BILL NUMBER 1</u></b>			
	<b><u>SITE WORKS AND PAVING (PROVISIONAL)</u></b>			
	<b><u>GENERAL EARTH WORKS (PROVISIONAL)</u></b>			
	JBCC Work Group No 104.			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
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	<b><u>SITE CLEARANCE. REMOVAL OF TREES, ETC.</u></b>			
	<b><u>Site Clearance :</u></b>			
1	Clear area of site of all rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200 mm girth, bush, etc., including reclearing of any subsequent vegetation growth during the contract period as considered necessary by the Representative and removing all material from site, As item 1 page 124	m2	72	
	<b><u>Taking out and removing, grubbing up roots and filling in holes</u></b>			
2	Indigenous tree exceeding 200mm and not exceeding 500mm girth	No	2	
3	Indigenous tree exceeding 500mm and not exceeding 1000mm girth	No	5	
4	Indigenous tree exceeding 1000mm and not exceeding 1500mm girth	No	3	
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<b><u>ROADS, PAVINGS, ETC.</u></b>		
<b><u>EXCAVATION, FILLING, ETC</u></b>		
<b><u>Excavation under paving not exceeding 300mm deep</u></b>		
5	Under floors	m3 298
<b><u>Earth filling supplied by the contractor compacted to 95% Mod AASHTO density</u></b>		
6	150mm G5 Material and compacted to 95% Mod, The G5 should be the form of a sugar dolerite, decomposed granite or decomposed sandstone	m3 298
<b><u>Coarse river sand filling supplied by the Contractor</u></b>		
7	Under paving	m3 149
<b><u>WEED KILLER</u></b>		
<b><u>Approved weed killer in strict accordance with manufacturers instructions</u></b>		
8	Under paving, etc	m2 993
<b><u>PAVING</u></b>		
Paving to be laid in accordance with SABS 1200 MJ, SABS 1058 and the Concrete Masonry Association's specifications		
<b><u>Paving of 60 mm concrete paving bricks of approved colour with butt joints on 20 mm thick river sand bed (elsewhere measured)</u></b>		
9	Paving in herringbone bond pattern to falls	m2 17
10	Remove and Re-locate Paving in herringbone bond pattern to falls	m2 921
<b><u>Paving of 80 mm concrete paving bricks of approved colour with butt joints on 20 mm thick river sand bed (elsewhere measured)</u></b>		
11	Paving in stretcher bond to falls	m2 55
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**PRECAST KERBS**

Precast concrete finished smooth on exposed surfaces including bedding, cutting and pointing

12 20Mpa Concrete in 200 x 200mm Edge beam m 30

**RETRO-REFLECTIVE ROAD SIGNS, ETC.**

Road signs and road markings shall conform to the requirements given in the South African Road Traffic Manual and relevant SABS specifications.

The rate tendered for road signs shall cover the cost of supplying and erecting the completed signboard supports, face, frame and fixing brackets and shall include the cost for providing retro-reflective backgrounds, symbols, characters, legends and borders of the type specified in the South African Road Traffic Manual. The tendered rate shall include for excavations, backfilling and concreting of sign supports.

13 900mm Diameter regulation "DISABLED PARKING SYMBOL" sign (R323) in accordance with S.A.B.S. standard fitted and fixed on creosoted pole, 2 700mm high bedded in 450 x 450 x 600mm deep concrete footing, included all necessary excavation, etc. No 2

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**STORMWATER CHANNELS**

**Stormwater channels, V drains**

14	20 MPa Concrete open surface stormwater channel 1 000mm wide and 85mm thick with V-shape channel 1 000mm wide and 75mm deep extreme formed in same, finished smooth on exposed faces with angles slightly rounded, laid to falls in lengths not exceeding 2m, jointed in 3:1 cement mortar including excavations, necessary formwork including 150mm deep selected filling underneath and compacting to a density of 93% of the Mod. AASHTO Maximum density	m	227
15	Type 193 fabric reinforcement in concrete surface beds, slabs, etc.	m2	272
16	Extra over 1 000mm wide channel for angles, intersections, ends, dressing into sides of catchpits, etc.	No	9
17	Triangular shaped stormwater channel outlet 1m wide at head, 1.5m wide at base and 1m long at sides formed of 85mm thick concrete V-shaped base including all excavations, formwork and six 150 x 150mm broken bricks or stones protruding 150mm high at base of the spill basin	No	4

**CONCRETE APRONS**

**The following in aprons**

18	Level and compact earth under apron slab.	m2	387
19	Unreinforced concrete (20MPa) in apron slab	m3	39
20	Type 193 fabric reinforcement in concrete surface beds, slabs, etc.	m2	387
21	Wood float finish to top of concrete surface bed.	m2	387
22	Half rounded angle on edge of concrete aprons.	m	323
23	Rough formwork to edge of concrete not exceeding 300mm high.	m	646

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24	10mm Expansion joints of 10mm Jointex filler board between vertical concrete surfaces not exceeding 300mm high.	m	32
25	Ditto, between vertical concrete surfaces and brickwork surfaces not exceeding 300mm high	m	323
26	Rake out softboard 25mm deep and seal expansion joints " Thioflex 600" polysulphide sealing compound including backing cord, bond breaker, primer, etc, in aprons.	m	355
<b><u>ALUMINIUM FLAGPOLE</u></b>			
<u>The following in a 8.85m high Standard Government type Aluminium Flagpole as "Aluweld" or other approved and erected on 600 x 600 x 800mm deep Class C concrete base, incl excavations, carting away, etc.</u>			
27	8,85m High flagpole comprising 130mm and 60mm outside diameter aluminium tubing tapered by way of an aluminium cone casting, welded and complete with spherical top cap, two pulleys, two cleats, two halyards (ropes), four flagrope clamps, swivel type base with four M20 x 550mm long anchorbolts for fixing flagpole baseplate including concrete base (Base size 1500 x 1500 x 550mm deep)	No	2

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<b><u>SECTION NUMBER 3</u></b>			
<b><u>BILL NUMBER 2</u></b>			
<b><u>WATER SUPPLY AND FIRE SERVICES (PROVISIONAL)</u></b>			
JBCC Work Group No. 148			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
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<b><u>Excavations and backfilling</u></b>			
Excavation and back filling to comply with SABS 1200 DB			
Bedding of piping to comply with SABS 1200LB			
Minimum cover to pipes is 750mm deep			
<b><u>uPVC pressure pipes</u></b>			
Pipes in length of 6m, each pipe on one end provided with mechanical coupling like Duro Penta's "Lyng" pipes and fittings to comply with SABS 966 with pressure blocks at all fittings			
Class 9 uPVC pipes line mineflo or similar approved can be used without pressure blocks at all fittings			
Rubber seals to comply with SABS 974			
<b><u>Polyethelene pipes and fittings</u></b>			
Type 4 class 10 high density polyethylene pipes to comply with SABS 533 and supplied in rolls			
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Fittings coupled with quick release type mechanical joints. No welded joints will be allowed

**WATER SUPPLIES**

**Note:**

Rates for piping, etc., have to include all adaptors, flanges, etc.

**General**

Where ever possible, abridged descriptions have been used for those items in this Bill which appear under the main trade headings in previous/subsequent Bills. The full descriptions of these items in the Preambles, as referred to above, to the various trade bills are to, and do apply equally to this Section.

**Reference**

Special reference is made to SABS 1200 specifications for civil works.

Special reference is made to Specifications and details of Department of Public Works Drainage Detail (December 1998).

**Protection of existing services**

The contractor must make allowance against the relevant items for the following:

- (a) Necessary care to be taken when excavating near existing services in or across the path of excavations.
- (b) Protection and maintaining such service in operation by means of temporary support or shoring as necessary.
- (c) Delays and disruption of the progress of the work due to the existence of the service.
- (d) Repairs necessitated by damage caused by the Contractor.

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**SABS specifications references**

Where reference is made to SABS 1200 specifications (all sections) it will be deemed to exclude clause 8 "Measurements and Payment".

**Nature of ground**

The tenderer must acquaint himself with the material to be excavated in and are requested to study the Geotechnical Survey Report attached to Part C4: Site Information of the procurement document

**Carting away of excavated material**

Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or alternatively, from stock piles situated on the building site.

**Prescribed tests**

All prescribed tests are to be executed by an approved, accredited laboratory

**Concrete pipes**

Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings

**Polypropylene pipes**

Polypropylene pipes 42 mm diameter and under shall be seamless copper coloured class 16 pipes jointed with brass compression fittings as designed for use with copper pipes as stated.

Pipes shall be firmly fixed to walls etc. with coloured nylon snap in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions.

All pipe diameters are to match sizes as utilised for copper pipes.

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**Polyethylene pipes**

Polyethylene pipes 75 mm diameter and under up to 42 mm shall be seamless copper coloured class 16 Type IV HDPE pipes jointed with polymer compression fittings.

Pipes shall be firmly fixed to walls etc. with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions.

All pipe diameters are to match sizes as utilised for copper pipes.

**C.O.D. Fibre Cement Pressure Pipes**

Pipes shall be jointed with "Triplex" couplings. A lubricant (soft soap) is to be used in connecting the couplings to the pipe or fittings. The couplings are to be unsupported on the bedding when pipes are laid.

**uPVC pipes and fittings**

Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings.

Soil, waste and vent pipes and fittings shall be solvent weld jointed.

**Copper pipes**

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.

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**Reducing fittings**

Where fittings have reducing ends or branches they are described as "reducing". In case of pipes with diameters not exceeding 60 mm 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 case of pipes with diameters exceeding 60 mm 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.

**Excavations**

No claim for rock excavation will be entertained unless the contractor has timeously notified the Quantity Surveyor/Engineer thereof prior to backfilling.

"Soft rock" and "hard rock" shall be as defined in "Earthworks".

**Saddles**

Saddles to be the Magnum uPVC type with stainless steel bolts and screw pieces complete with Talbot lockable clamp and compression external screw-thread adaptor.

**uPVC pressure pipes and fittings**

Pipes for water supply shall be of the class stated.

Pipes of 40 mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings

Pipes of 50 mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all outer fittings shall be cast iron, all with similar push-in type joints

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**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

**Excavations**

No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling

"Soft rock" and "hard rock" shall be as defined in "Earthworks"

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**Laying, backfilling, bedding, etc. of pipes**

Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturer's instructions.

Where no manufacturer's instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 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

**Steel pipes, fittings and specials**

**Pipes of Nominal Bore up to 150 mm:**  
Substitute "screwed" in L3.4.2 with "flanged".

**Pipes of Nominal Bore over 150 mm:**  
Add the following:

"All mild steel pipes must be manufactured from Grade B steel with minimum plate thickness of 6,0 mm except where specified otherwise."

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<u>Supply, replace and connect flush switch sockets in a wallbox, complete with support frame, modules and cover plates:</u>		
29	Combination Socket Outlet - Switched 16 Amp RSA 3-pin socket with V-slimline 16A RSA outlet	No 3
30	Multi unit outlet, 3 x Normal, 2 x slimline 2pin, 1 x data, 1 x tel	No
31	Labeling of socket outlets as per specification	
<b>SUM</b>		
<u>Supply, replace and connect unswitch sockets in ceiling void, complete with a round box.:</u>		
32	5 Amp unswitch socket complete with round box. To be mounted on either wire tray or via conduits on purlins,walls etc	No 9
<u>Supply, replace and connect switch sockets in power skirting complete with cover plates.:</u>		
33	16 Amp Single Socket on power skirting	No 2
34	16 Amp Slimline 3-pin on power skirting	No 2
35	16 Amp Single Dedicated socket on power skirting	No 4
36	Data RJ45 outlet on power skirting	No 2
37	Tel RJ11 outlet on power skirting	No 2
<u>ISOLATORS</u>		
<u>Supply, replace and connect isolators complete in a wallbox including a white cover plate.:</u>		
38	30 Amp 2 pole Isolator complete with a weather proof enclosure for outdoor AC units	No 1
39	60 Amp 2 pole Isolator for air curtains	No
40	Labeling of Isolator outlets as per specification	
		<b>SUM</b>

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<u>Supply, replace and connect luminaires complete with lamps, fixings, brass screws, washers, etc.:</u>				
41	New Type F1	No		
42	New Type F2	No	9	
43	New Type F3	No	2	
44	New Type F4	No		
45	New Type F5	No		
46	New Type A1	No		
47	New Type A2	No		
48	New Type A3	No		
49	New Type B1	No	4	
50	New Type B2	No		
51	Exit	No		
<u>Additional lamps</u>				
52	New Type F1-F5 lamps	No	2	
<u>TELEPHONE/DATA INSTALLATION</u>				
<u>Supply and replace a Surface mounted telephone board including terminations of all conduit, complete with frame, door, wallbox, fixings, etc.</u>				
53	1100mm x 1100mm x 250mm deep (Tel & Data)	No	1	
<u>Supply and replace PVC conduit including cutting, threading, bending, short lengths, 1-/2-/3-4-way boxes, bushes, locknuts, couplings, saddles, screws etc.:</u>				
54	25mm diameter PVC conduit	m	8	
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<b><u>Supply and replace sleeves pipes including short lengths jointing, sweeping bends, bushes, locknuts, etc.:</u></b>			
55	50mm diameter PVC sleeves	m	4
56	Supply and replace 1.6mm diameter steel galvanised draw wires into conduit/sleeves:	m	50
<b><u>LIGHTNING PROTECTION</u></b>			
<b><u>The lightning protection installation shall be design and installed by a specialist in this field as per specification and shall provide a valid COC.</u></b>			
57	Allow the amount of R10 000.00 (Ten Thousand Rand) for lightning protection.	Item	10 000 00
58	Profit and Attendance	Item	
<b><u>EARTHING AND BONDING</u></b>			
59	Earthing of all buildings to comply with the latest SABS 0142-1993 Code of Practice for The Wiring of Premises as amended and as specified. Bonding of all hot, cold and waste pipes complete with including fixings, brass screws, nuts, washers etc.:	Item	
60	A readily accessible earthing terminal for bonding of other services as specified in SANS 10142-1	Item	
<b><u>TESTING AND COMMISSIONING</u></b>			
61	Inspections, testing and handing over of the complete electrical installation and valid COC in the presence of the Engineer and certify the results on the Certificate of Compliance by an accredited person.:	Item	
<b><u>Any additional items of preliminaries nature that the tenderer may wish to add to comply with requirements of the specifications and/or bill of quantities.</u></b> <b><u>(To be listed hereunder by Tenderer)</u></b>			
62	.....	Item	
63	.....	Item	
<b>Carried to Collection</b>			
Section No. 4 Bill No. 5 Block C <b>RUBIQUANT QUANTITY SURVEYORS</b>			

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Item

Carried to Collection

R

Section No. 4  
Bill No. 5  
Block C  
*RUBIQUANT QUANTITY SURVEYORS*

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Section No. 4

Bill No. 5

Block C

**COLLECTION**

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Amount

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Section No. 4

Bill No. 5

Block C

**RUBIQUANT QUANTITY SURVEYORS**

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Item No	<u>SECTION NUMBER 4</u>	Quantity	Rate	Amount
	<u>BILL NUMBER 5</u>			
	<u>BLOCK D</u>			
	-WORK GROUP 160-			
	<b>NOTE:</b> Supply, replace and commission distribution boards (flush mounted / surface mounted / floor standing), complete with - all switchgear as specified and including framework, tray, busbars (one per phase plus neutral & earth) to carry Mains Circuit Breaker currents, the termination of all conduits, conductors, sleeves, etc			
	<u>DISTRIBUTION BOXES AND EQUIPMENT</u>			
	<u>Supply and replace, complete with panels, etc surface distribution board including the busbars, switching gear equipment, termination of all conduits, conductors, Cables, etc. as specified</u>			
1	DB.D (N&E) (Surface mount, weather proof IP44)	No	1	
	<u>CHANNELS AND WIRE WAYS</u>			
	<u>Supply and replace OL8000 Wire Channels complete with splice clamps, channel hangers, threaded rod, coupling nuts, ect.</u>			
2	P8000 - Wire Channel for power installation	m		
	<u>Supply and replace GS50 Wire Mesh complete with splice clamps, channel hangers, coupling nuts, horizontal bends, tee's ect.</u>			
3	100mm wide - Medium Duty Wire Mesh for Data/ IT services	m		
	<b>Carried to Collection</b>			R
	Section No. 4 Bill No. 6 Block D <b>RUBIQUANT QUANTITY SURVEYORS</b>			

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<b>CONDUIT</b>		
<b><u>Supply and replace SANS conduit including bending, short lengths, 1-/2-/3-/4-way boxes adaptors, locknuts, couplings, saddles, screws etc.:</u></b>		
4	20mm diameter - Bosal - Cut/Build into brickwork, slab or ceiling void	m 150
5	20mm diameter - PVC - Pliable conduit	m
6	25mm diameter - PVC - Cut/Build into brickwork, slab or ceiling void	m
7	50mm diameter - PVC - Cut/Build into brickwork	m
<b><u>Supply and replace pressed steel galvanised wall boxes 1mm thick:</u></b>		
8	100mm x 50mm x 50mm deep	No 4
9	100mm x 100mm x 50mm deep	No 3
10	50mm diameter PVC round boxes with lids	No 16
11	<b><u>Supply and replace a Pratley Econo Junction box complete with seals, adaptors, screws etc.:</u></b>	No
<b><u>CONDUCTORS</u></b>		
<b><u>Supply and replace 600/1000Volt PVC insulated stranded copper conductors drawn into conduits, etc.:</u></b>		
12	2,5mm <sup>2</sup>	m 320
13	4mm <sup>2</sup>	m 60
14	6mm <sup>2</sup>	m
<b><u>Supply and replace Green PVC insulated copper earth conductors drawn into conduits, etc.:</u></b>		
15	2,5mm <sup>2</sup>	m 30
16	4mm <sup>2</sup>	m
<b>Carried to Collection</b>		
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<b>RUBIQUANT QUANTITY SURVEYORS</b>		

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<b><u>Supply and replace flat twin &amp; earth where no access to ceiling void is available, etc.:</u></b>				
17	2.5mm flat twin & earth	m		
18	4mm flat twin & earth	m		
19	6mm flat twin & earth	m		
<b><u>POWER SKIRTING</u></b>				
<b><u>Supply and replace metal type power skirting consisting of 3 compartment 3 cover including cutting ends, covers, elbows, T's, short lengths, screws, etc. as specified.</u></b>				
20	Power skirting (3 Channel)	m		
21	90° Bends	No		
22	End caps	No		
<b><u>LIGHT SWITCHES</u></b>				
<b><u>Supply, replace and connect switches in flush mounted boxes, complete with cover plates (complete with wall boxes).:</u></b>				
23	20 Amp 1-lever / 1-way	No		
24	20 Amp 1-lever / 2-way	No		
25	Photo cell	No	1	
26	IP 67 rotary switch	No	6	
27	Photocell complete in PVC box with clear lid	No	1	
28	Labeling of light switches as per specification			SUM
<b><u>SWITCH SOCKETS</u></b>				
<b>Carried to Collection</b>				R
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