

ESKOM ROTTEK INDUSTRIES: POWERLINE

Item	Description	Unit	Quantity	Rate
	BUILDING MATERIALS			
	A MASONRY			
A1	Bricks SatinTopaz	no	700000	
A2	Bricks Stock	no	700000	
	B Brickwork reinforcement:			
B1	75mm Wide reinforcement	m	2000	
B2	150mm Wide reinforcement	m	10000	
	C Prestressed fabricated lintels:			
C1	100 x 70mm Lintels in lengths not exceeding 3m	m	700	
	D Galvanised hoop iron cramps, ties, etc.:			
D1	30 x 1,6mm Roof tie 1,5m long	no	1000	
	E STONWORK Approved selected sandstone rock wall cladding:			
E1	150mm x 150 x 15mm thick blocks	no	1000	
	F Sundries:			
F1	Slot 625 x 625 mm through 280mm wide cavity brick wall	no	100	
	G Window sills			
G1	10mm thick x 225mm wide Nutec fibre cement sills	m	300	
	BUILDING MATERIALS			
	A WATERPROOFING			
	One layer of 375 micron "Plastall Gundle Brikgrip DPC"			
A1	embossed damp proof course:	m2	1000	
	One layer of 250 micron "Plastall Gundle USB Green"			
	waterproof sheeting sealed at laps with "Gunplas Pressure			
A2	Sensitive Tape":	m2	2000	

	One layer of 350 micron "Orange Hyperlastic" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape":	m2	4000	
A3				
A4	Cemcrete bitumen primer:	m2	1200	
A5	Cemcrete Coprox, Sika' or other approved:	m2	2000	
A6	Two coats 'Cemcrete Permastop' waterproof slurry: Cold poured polyurethane sealing compound (15% movement) including bond breaker, primer, etc.:	m2	1400	
A7	Acid resistant polyurethane sealing compound including primer, bond breaker, etc.:	m	2500	
A8		m	600	
BUILDING MATERIALS				
A ROOF COVERING				
420 x 332mm 'Marley Double Roman' concrete tiles nailed with non-corrosive tile nails to softwood battens (battens elsewhere) at 320 mm centres:				
A1		m2	5000	
A2	Valley Gutter with girth to suit concrete tiles	m	500	
B Roof Insulation				
4mm 'Super Sisalation' - 400 light Industrial grade single sided aluminium foil faced insulation material in 1250mm widths with white polyethelene facing downwards with 100mm laps at all joints				
B1		m2	7000	
C IBR roof sheeting				
0,8mm 'Chromadek White Lion' IBR roof sheeting on 75 x 50mm purlins				
C1		m2	500	
C2	100 x 100 barge flashing including rivetting at 300mm centers	m	200	
IBR ROOF SHEETING "0.4mm thick "Safintra AZ150" IBR roof sheeting on 75 x 50mm purlins (E.M)				
D1	Roof covering.	m2	1000	
BUILDING MATERIALS				
CARPENTRY AND JOINERY				
Trusses are at maximum 600mm centres, Roof covering is cement tiles on purlins. Ceilings are 1200mm sheeting on 38 x 38mm brandering				
double pitched roof with two hipped ends approximately 27.96 x 20.59 m and 2 m high overall including wall plates, trusses, jack rafters, permanent bracing and 38 x 38mm battens fixed over underlay (underlay elsewhere) at 320mm centres for roof covering				
A1		m2	6000	
B "Everite FC77" pressed fibre-cement :				
B1	200 x 80 mm Fibre cement barge board	m	1000	
B2	10mm Thick x 80mm wide horizontal eaves filler soffit lining	m	300	

B3	10mm Thick x 300mm high fascia board in long lengths	m	300
C Supawood skirting with arris rounded top edge :			
C1	19 x 75mm skirtings.	m	2000
D Doors, etc.			
Hardwood frames			
D1	50 x 75mm frame for single door size 813 x 2032mm high	no	100
D2	50 x 75mm Frame for 2 x door size 813 x 2032mm high.	no	50
E Wrought meranti doors hung to timber frames			
44mm Solid meranti H.W exterior framed and ledged door 813 x 2032 mm high with sapele or similar flush back veneered in two leaves with rebated meeting styles and including meranti			
E1	edge under face	no	100
44mm 2 Panel solid merant H.W exterior framed and ledged door 813 x 2032 mm high with seapele or similar flush back			
E2	veneered and including meranti edge under face	no	50
E3	40mm Door 813x 2032mm high	no	50
40mm Framed batten double door 1613 x 2032mm high with rebated meeting stiles, each leaf of 22 x 140mm top rail and stiles, 22 x 140mm middle ledge and braces and 22 x 140mm bottom ledge filled in with 22mm V-jointed one side boarding			
E4	and other side with sapele veneer	no	50
F Slatted Seat to Shower			
Wrought hardwood:			
Slatted seat size 316 x 1000mm long complete with and			
F1	including bearers, etc as per drawings	no	50
G Built in cupboards			
Cupboard size 1200mm long x 600mm deep formed off 16mm 'Bisonlam' white melamine faced particle board in carcass and shelving with PVC edging strips to all exposed edges, complete with 18mm doors and 150mm long chrome decorative			
G1	handles	no	50
Bisonlam' white melamine faced particle board in carcass and shelving with PVC edging strips to all exposed edges, complete with two 18mm doors and 150mm long chrome			
H decorative handles (Office)			
0.6 x 1.2 long cupboard formed off 16mm 'Bisonlam' white melamine faced particle board in carcass and shelving with PVC edging strips to all exposed edges, complete with 18mm doors and 150mm long chrome decorative handles, the top to be 32mm thick 'Formica' in tan leather stone colour with cutout for preparation bowl (elsewhere measured) and sealed			
H1	aluminium edging (Kitchen)	no	50

] The following in 32mm thick 'Black Marble Formica Lifeseal' worktop or other approved with high moisture resistant I Bisonboard: I1 2000mm long with cut-out for prep bowl	no	50	
	J Panelling Nutec building plank J1 Wall panel	m2	100	
BUILDING MATERIALS				
	A CEILINGS, PARTITIONS AND ACCESS Ceilings, etc. A1 100mm Aerolight insulation: 4mm Everite Nutec board with H-type pressed steel jointing A2 strips: Extra over ceiling for 600 x 600mm trap door of 50 x 76mm wrought softwood rebated framing with one 38 x 38mm sawn softwood cross brander covered with ceiling board and A3 fitted flush in opening. Extra for 600 x 900mm ventilator of plastic egg grate grids with 12,5mm square holes fitted flush in opening on and including 12 x 50mm timber bead all round fixed to 38 x 38mm framed A4 framing.	m2 m2 no no	4000 1000 50 50	
	6,4mm Gypsum plasterboard with H-type pressed steel B jointing strips : Ceilings in 1200mm sheets including 38 x 38mm sawn B1 softwood brander at 400mm centres:	m2	1000	
	C Moulded cornices C1 75mm Gypsum coved cornice C1 610 x 610mm trap door in ceilings.	m no	1500 50	
	D Suspended ceilings 12.5mm "Donn Cyprex BPB Gypsum Rhinoboard" with white porcelain vinyl finish, 600 x 600mm lay-in suspended grid ceiling system on "Donn T38" main and cross tees at 600mm ceiling system on "Donn T38" main and cross tees at 600mm D1 centres with white prepainted aluminium capping:	m2	3000	
	E Cornices to suspended ceilings : E1 "Donn SM25" recessed wall angle plugged	m	1000	
	F Supply and install "Bergvik's ISO Floor" raised floor system.			

	Heavy duty access flooring with snap together system including stringers, and pedestals bolted to floor with 600 x 600 mm panels finished with powder coating and covered with 3.2 mm laminate to finish between 800 and 900 mm			
F1	above concrete sub floor Supply and install fixing bracket comprising 30 x 10mm flat section 490mm girth, twice bent and holed for 14mm	m2	2500	
F2	diameter chemical anchor or threaded rod Supply and install fixing bracket comprising 30 x 10mm flat section 490mm girth, once bent and holed for 14mm diameter chemical anchor or threaded rod, with 30 x 30 x 10mm thick	no	1200	
F3	angle section 200mm long welded to one end	no	1200	
F4	Supply lifting panel device.	no	100	
BUILDING MATERIALS				
A	FLOOR COVERINGS, PLASTIC LININGS, ETC Belgotex-Nexus Berber point carpet tiles size 500 x 500 x			
A1	6.5mm:	m2	200	
BUILDING MATERIALS				
A	IRONMONGERY HINGES, BOLTS, ETC Chrome plated :			
A1	150mm Barrel bolt (heavy duty)	no	100	
A2	150mm Necked bolt (heavy duty)	no	100	
A3	Chain and pull ring fitted to barrel bolt	no	100	
A4	150mm Chromium plated barrel bolt	no	50	
B	CATCHES, CABIN HOOKS, ETC 150mm Brass cabin hook and eye. Hook to be screwed to			
B1	meranti block, plugged and screwed to wall.	no	150	
B2	Solid brass hasp and staple	no	120	
B3	Dorma DHC-SS-031B stainless steel hat and coat hook with rub	no	120	
B4	Dorma DHC-SS-020 stainless steel wall buffer	no	100	
C	LOCKS Dorma CH875 stainless steel lever furniture on 150 x 75mm			
C1	backplate for euro profile cylinders	no	200	
C2	Dorma D038R rebate conversion kit for euro profile locks ss	no	100	
C3	Dorma D036S euro profile cylinder sash lock ss Dorma DDC056501 nickel plated 65mm five pin euro profile	no	250	
C4	double cylinder	no	100	
C5	Dorma DIB-SS-026 stainless steel indicator bolt	no	200	
C6	Dorma DKC 056501 nickel plated 65mm five pin euro profile kn	no	200	

C7	"Dorma DHC-SS-031B' stainless steel" Hat and coat hook with r	no	100
C8	"Dorma CB17 PB" brass cylinder lever handle. Chromium plated four detainer rebated lockset CB682-4-99	no	100
C9	with upright mortice lock 2299	no	50
D DOOR CLOSERS			
D1	Dorma TS91/EN3 slide channel closure - non hold open (silver)	no	100
D2	Dorma DDS-SS-017 nickle plated floor stop	no	120
E BATHROOM FITTINGS			
E1	150 x 150 semi-recessed white vitreous china toilet roll holder 150 x 150mm semi-recessed white vitreous china single soap	no	150
E2	dish.	no	100
E3	19mm Diameter CP towel rail, 450mm long. 25mm Diameter chromium plated shower curtain rail 995mm long including rubber tipped end socket one end and	no	150
E4	adjustable socket at other end	no	100
E5	19mm Diameter chromium plated towel rail 450mm long includ	no	100
F 0,6mm Sheet metal steel lockers powder coated in Hammertone grey finish:			
F1	Single tier locker 1705 x 305 x 450mm high	no	50
BUILDING MATERIALS			
A METALWORK			
Sundry Galvanized Steelwork in Floor duct covers :			
30 x 30 x 5mm Angle section framing with 20 x 5mm flat section bent lugs each 100mm girth welded on at 200mm			
A1	centres	m	400
A2	Open grid flooring with 25 mm x 4,5 mm bearer bars with 40 x	m2	100
Entrance canopy size 4m long x 2.75m wide overall, comprising steel support structure and IBR roof sheeting (all in			
A3	accordance with Drawing 0.18/19498 Sheet 8)	no	30
B "O-Line" Trunking - Type Gridspan GS50 with standard finish:			
Horizontally suspended from ceiling timbers with OL 1000			
B1	trapeze hangers at 2m centres, etc as per drawing	m	300
B2	Vertically fixed to OL 1000 channels surface mounted to brickw	m	150

Purpose made door frame to fit one brick wall, manufactured from 2mm thick pre-galvanised mild steel sheet in a 25mm rebated four side profile, double rebated to sides and top, and single rebated to bottom. Frame to be fitted with four heavy duty brass butt hinges, two on the top, one in the middle and one at the bottom, and neoprene 25 seal to be fitted to the rebate. Ref. drwng 0.08/19829		
C1	Frame to suit door size 877 x 2064mm high.	no 50
C2	Frame to suit door size 1600 x 2675mm high.	no 50
C3	Frame to suit door size 1600 x 2032mm high.	no 50
Purpose made door manufactured from 2mm pre-galvanized steel sheet. The exterior of the door to be formed of fluted profile turned around at the vertical edges to create a flush exterior. The interior to be lined on the inside with IM475 fibreglass insulation, interior sheet to be riveted to the vertical edges and to top and bottom capping. (Ref Drwng:- D 0.008/19829 Sht.6)		
D1	Door size 813 x 2032mm high, D5. Door size 1600 x 2675mm high, fitted with a continuous aluminium slab bar on the outside of the second closing leaf,	no 50
D2	D1.	no 50
D3	Door size 1600 x 2032mm high, consumable door.	no 50
Aluminium windows with top hung opening sections and brown anodised finish, all as per AAAMSA specifications and: all glazing to be done according to the National Building Regulations - Part N:		
E1	Window W1 size 900 x 1500mm high with 4mm clear float glass	no 50
E2	Window W2 size 600 x 900mm high with 4mm obscure glass	no 100
Anodized Bronze Aluminium top hung type window with 63mm thick bulletproof glass supplied by "SA Bullet Resistant Glass Co" or other similar approved supplier:		
F1	Window type W1, size 900 x 900mm high	no 50
F2	Window type W2, 600 x 600mm high	no 50
Mild steel burglar bars formed of 15mm square hollow section members cut, mitred and welded all around		
Burglar bars to window size 900 x 1500mm high, formed of frame, one horizontal member and six verticals at equal centres, six times bolted to wall with 10mm anchor bolts.		
G1	In window sizes 600 x 900mm high	no 50
G2	10mm Anchor bolts	no 50
G3		no 100
Window Steel Awnings as per detailed drawing 0.54/7515		
H Sheet 7:		
H1	To window size 900 x 900mm high	no 60

	Security "Anti Bandit" door with frame or similar approved with 19mm thick bulletproof glass by "SA Bullet Resistant Glass Co" or similar approved: I1 Door type D1, size 970 x 2130mm high	no	50	
	1,2mm Double rebated pressed steel door frames suitable for one brick wall: J1 Frame for door size 813 x 2032mm high	no	50	
	PRESSED STEEL DOOR FRAMES 1,6mm Rebated frames suitable for one brick walls: K1 Frame for double door 1613 x 2032mm high	no	50	
	L ROOFS L1 0,6mm Galvanized sheet:	m	500	
	BUILDING MATERIALS			
	A TILING A1 200 x 200 x 5mm Group B or other equal approved white glazed tiles fixed with adhesive to plaster :	m2	100	
	A2 152 x 152 x 5mm Group B white glazed ceramic tiles with approved acid resistant grout and adhesive to plaster :	m2	250	
	A3 Wall tiles	m2	1000	
	A4 Floor tiles	m2	500	
	A5 Mosaic tiles laid on waterproof cementitious adhesive and pointed with waterproof grout:	m2	100	
	B "Cobra" white glazed ceramic : B1 150 x 150mm Semi-recessed toilet paper holder	no	100	
	B2 150 x 150mm Semi-recessed soap dish	no	100	
	B3 Hand towel rail	no	100	
	C 300 x 300 ceramic tiles "Kilimanjaro" range by CTM or other similar approved:	m2	1000	
	BUILDING MATERIALS			
	A PLUMBING AND DRAINAGE Rainwater Disposal, Gutters, etc 0,8mm Aluminium by 'Fielders Steel Roofing' with 'Chromadek'			
	A1 in white colour finish:	m	1500	
	A2 Extra over eaves gutter for angle or outlet.	no	300	
	A3 Extra over rainwater pipe for shoe	no	300	

A4	Extra over rainwater pipe for eaves or plinth offset 90mm projection	no	300
B Domestic Water and Fire Services			
B1	Galvanized mild steel piping and fittings 25mm	m	1000
C	Copper piping Copper water supply pipes complying with SANS 460 Class 0 with capillary fittings as ISO 216 and all fittings fixed in accordance with the manufacturer's instruction.		
C1	15mm Piping	m	1000
C2	22mm Piping	m	800
Extra on pipe for copper capillary fittings:			
C3	15mm Fittings.	no	1000
C4	22mm Fittings.	no	500
D Polycop HDPe Flexible Piping			
D1	25mm Pipes	m	500
D2	50mm Pipes	m	500
Extra on pipe for brass compression fittings:			
D3	15mm Fittings	no	200
D4	22mm Fittings	no	300
E Fire extinguishers as per approved by Engineer:			
9 kg Dry chemical fire extinguisher including 100 mm x 450 mm x 25 mm polished hardwood back board with chamfered edges			
E1	edges	no	50
9 kg CO2 fire extinguisher including 100 mm x 450 mm x 25 mm polished hardwood back board with chamfered edges			
E2		no	50
F Copper:-			
F1	15mm Service pipe 380mm girth with two brass cap nuts	no	100
G Chromium plated flexible connector with angle regulating valve:			
G1	15mm	no	50
H Brass stopcock:			
H1	15mm.	no	100
H2	25mm	no	100
I Brass:-			
I1	25 mm Gate valve	no	100
I2	Cobra PA5.1-pvc- 'Masterflo' housebox fixed to walls.	no	100

J Chromium plated mixers:		
J1	15mm 'Star' No.166/041 CP sink mixer with swivel spout and wall plates.	no 100
K Basin taps:		
K1	12 mm No 507-21 hose bibtap without hose union, outlet threaded	no 100
K2	No 029 Shower arm	no 100
K3	Vandalmaster' (KP2.65) metering shower head with self-cleaning nozzle and flow controller.	no 100
K4	Elbow action trigger control handshower set comprising of Cobra black pressure proof flexible tubing with trigger control handspray and wall hook. Install elbow action CP bibtap with hose union wingnut as Cobra 519-21.	no 100
L Electric Hot Water Geysers		
L1	50 Litre horizontal type high pressure electric geyser with vacuum breaker and masterflow valve. Provide suitable overflow.	no 50
	Combination type pressure control and relief valve	no 50
M Sanitary Fittings		
White vitreous china:		
M1	Vaal Potteries' oval self-rimming vanity basin, size 560 x 405mm with one taphole configuration, complete with chromium plated waste fitting with flanged grating, flange, 32mm brass union for waste, slipnut, vulcanite plug and chromium plated chain.	no 50
M2	No 261 600 x 400 x 200 mm Laboratory sink with 610 x 455 mm No 1461 drainer all fixed on No 8106 brackets	no 50
M3	Vaal Potteries' or other approved close coupled WC suite comprising washdown pan and 9 litre inlet cistern and with approved heavy duty double flap plastic seat and fixing pan to floor and cistern to wall as per manufacturer's instructions including making good	no 20
Citimetel' economy type 430 grade stainless steel sit-on top, with chrome plated 38mm waste outlet and pilfer-proof plug:		
N1	Preparation bowl	no 50
O Mine Safety Appliance' type:-		
O1	Emergency shower complete with all stopcocks, closing valve, showerhead and operating chain, eyewash, stainless steel foot pedal and pedal frame, brackets, piping up to ceiling level, etc as on Drawing No 0.54/1150 sheet 25.	no 20
P Wastes and Vents		
P1	50mm uPVC piping	m 500

Q Traps, etc				
Q1	40mm rubber P-trap	no	100	
Q2	32mm x 38mm 'Cobra' (350) CP bottle trap.	no	100	
R 'Cobra' or other approved type :				
R1	38mm 'P' (373) shallow seal showertrap with screwed chromium	no	100	
S Gulleys				
Precast concrete 100 mm Gulley not exceeding 1,0 m deep to invert, fitted with a galvanised cast iron hinged grating, frame				
S1	and P-trap, etc complete.	no	100	
T Drainage				
Piping, etc				
Rigid PVC drainage pipes:				
T1	100mm Pipe	m	100	
T2	100mm Pipes	m	100	
Extra over rigid uPVC pipes for fittings:				
T3	100 mm Bend	no	100	
T4	100 mm Bend with cleaning eye	no	100	
Extra over rigid PVC waste pipes for fittings:				
T5	100 mm Pan connector	no	100	
T6	100 mm Two-way vent valve	no	100	
U Drainage channel				
200 x 125mm Concrete channel gutter in building with grating,				
U1	complete as per standard dwg 0.54/390 sheet 6 (mod)			
Sundries:				
100mm PVC cleaning eye, including 300 mm x 300 mm cast				
U2	iron cover and frame	no	100	
U3	Splay cut end to 38 mm PVC pipe	no	100	
U4	Splay cut end to 50 mm PVC pipe	no	100	
BUILDING MATERIALS				
A GLAZING				
6mm Silvered float glass copper backed mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete:				
A1	Mirror 400 x 600 mm high	no	60	
A2	Mirror 500 x 600mm high	no	50	
BUILDING MATERIALS				

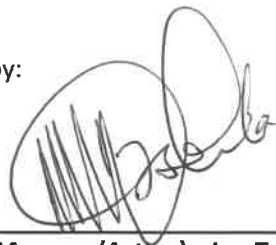
A	PAINTWORK			
A1	"Dulux Wash 'n Wear" acrylic emulsion paint: 20L	no	200	
A2	"Dulux Sigmacover CM" 20L	no	200	
A3	prominent sheen acrylic white paint: 20L	no	200	
A4	"Dulux Silthane Silk" polyurethane enamel (colour Fawn): 20L	no	200	
A5	"Plascon Wall 'n All" alkyd enamel paint: 20L	no	200	
A6	clear polyurethane varnish: 20L	no	200	
A7	"Plascon Velvagio"Dove Grey" paint: 20L	no	200	
A8	"Plascon Sunproof Woodcoating": 20L	no	200	
A9	SEALANT	L	7000	
A10	SEALANT:PRIMER;JOINT SEALING	L	600	
A11	GUN GLUE:JOINT SEALING	EA	20	
A12	PAINT OIL:EPOXY	L	100	
A13	PAINT PRMR:EPOXY HARDENER;CAN 5 L;RED	EA	100	
A14	PANEL:GRP FLOOR; SOLID TOP;GLASS FIBER	EA	10	
BUILDING MATERIALS				
EXTERNAL WORKS				
Block paving to be manufactured in accordance with the relevant SABS Specification and to the following compressive strength:				
A	Class 25MPa, (25N/mm ²). Paving to be as 'Concor Technicrete' or 'Grinaker Paving' or other approved			
Paving to be laid in accordance with the relevant SABS and the Concrete Manufacturers' Association's specifications				
Clean dry jointing sand complying with the relevant SABS Specification is to be swept into joints between roadstones				
Paving of 80mm thick 'Type S-A' concrete interlocking 25MPa SABS approved paving blocks in approved stretcher bond pattern on and including 20mm thick river sand bed with dry filler sand swept and vibrated into joints all laid on sub-grade (elsewhere measured) conforming to the relevant SABS Specification and degree of accuracy I.				
A1	Paving to driveways and parking areas to falls.	m ²	12500	
A2	Mountable kerb (Figure 13) 300 x 150mm high	m ²	2000	
BUILDING MATERIALS				
A ELECTRICAL WORK				
A1	Free standing surface mounted distribution board	no	30	
B CABLES				

600/1000 V PVC/PVC/SWA/PVC copper cable in cable duct (ducting by others):		
B1 6mm ² 4 Core (BVX 4FCV)	m	500
B2 16mm ² 4 Core (BVX 4HCV)	m	1000
C 600/1000 V PVC/PVC/SWA/PVC copper cable in cable trench:		
C1 4mm ² 4 Core (BVX 4ECV)	m	1000
C2 10mm ² 4 Core (BVX 4GCV)	m	500
C3 35mm ² x 4 Core (BVX4LCV)	m	2000
D 600/1000 V PVC/PVC/SWA/PVC copper cable fixed to cable trays:		
D1 1,5mm ² 2 Core (BVX 2CCV)	m	500
D2 1,5mm ² 3 Core (BVX 3CCV)	m	500
D3 2,5mm ² 3 Core (BVX 3DCV)	m	1000
D4 2,5mm ² 4 Core (BVX 4DCV)	m	2000
D5 4mm ² 4 Core (BVX 4ECV)	m	2000
E 600/1000 V PVC/PVC/SWA/PVC copper cable in trunking:		
E1 2,5mm ² 4 Core (BVX 4DCV).	m	2500
E2 4mm ² 4 Core (BVX 4ECV).	m	2000
CABLE TERMINATIONS Termination for 600/1000 V		
F PVC/PVC/SWA/PVC copper cables:		
F1 1,5mm ² 2 Core (BVX 2CCV)	no	100
F2 1,5mm ² 3 Core (BVX 3CCV).	no	100
F3 2,5mm ² 3 Core (BVX 3DCV).	no	150
F4 2,5mm ² 4 Core (BVX 4DCV),	no	300
F5 4mm ² 4 Core (BVX 4ECV),	no	300
F6 6mm ² 4 Core (BVX 4FCV).	no	100
F7 10mm ² 4 Core (BVX 4GCV).	no	100
F8 16mm ² 4 Core (BVX 4HCV)	no	200
F9 35mm ² x 4 Core (BVX4LCV).	no	100
F10 1,5mm ² 2 Core (BVX 2CCV) explosion proof "EXE"	no	100
F11 1,5mm ² 3 Core (BVX 3CCV) explosion proof "EXE"	no	200
F12 2,5mm ² 3 Core (BVX 3DCV) explosion proof "EXE"	no	100
F13 2,5mm ² 4 Core (BVX 4DCV) explosion proof "EXE"	no	100
G EARTHING Bare copper earth conductor installed with cable:		
G1 1,5 mm ² Conductor	m	1500
G2 2,5 mm ² Conductor	m	3000
G3 4 mm ² Conductor	m	1500
G4 6 mm ² Conductor	m	1000
G5 10 mm ² Conductor	m	1000
G6 16 mm ² Conductor	m	500
EARTH CONDUCTOR TERMINATION Termination for bare and PVC insulated copper conductors including lugs and connections:		
H		

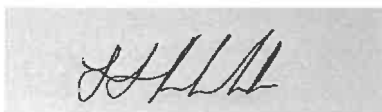
H1	1,5 mm2 Conductor.	no	200
H2	2,5 mm2 Conductor	no	500
H3	4 mm2 Conductor	m	200
H4	6 mm2 Conductor	no	100
H5	10 mm2 Conductor.	no	100
H6	16 mm2 Conductor.	no	100
LIGHT SWITCHES, SWITCHED SOCKET OUTLETS, ETC.			
I Switches, etc complete with cover plate fixed in flush box:			
I1	16A One-lever one-way switch	no	100
I2	16A One-lever two-way switch	no	100
I3	16A Two-lever one-way switch	no	100
I4	5A Round three-pin unswitched socket outlet	no	100
I5	16A Three-pin switched socket outlet	no	200
LUMINAIRES AND EQUIPMENT Supply luminaires or equipment complete with lamps, connections, etc mounted in position, all as detailed on drawing:			
J in position, all as detailed on drawing:			
Type A (1200 x 600mm recessed fluorescent with 3 x 36W lamps)			
J1	Type AE (as type A but with built in 220V DC / 20V AC inverter for one 36W lamp)	no	500
J2	Type B (fluorescent luminaire increased safety type EX'e' with 2 x 58W lamps)	no	200
J3	Type C (Class 1 Div 1, increased safety EX'e' incandescent luminaire with 1 x 100W lamp)	no	100
J4	Type E (economy recessed downlighter with 1 x 18W CFL lamp)	no	100
J5	Type F (economy recessed bathroom splashproof downlighter with 1 x 18W CFL lamp)	no	100
J6	Type H (bulkhead luminaire with 2 x 9PL 20V AC lamps)	no	200
J8	Type J (bulkhead oval type with 2 x 9PL 20V AC lamps)	no	50
BUILDING MATERIALS			
MECHANICAL WORK VENTILATION			
14kW ceiling mounted "MITSUBISHI" cassette multi flow type indoor unit complete with all switch disconnectors, solenoids, etc., installed strictly in accordance with the manufacturer's instructions and as per detail drawings (AHU1 - 3)			
A1		no	20
3.6kW ceiling mounted "MITSUBISHI" indoor unit with drain pipe kit, complete with all switch disconnections, solenoids, etc., installed strictly in accordance with the manufacturer's instructions and as per detail drawings (AHU4-7)			
A2		no	40

	Hot-dip galvanized mixed flow impeller horizontal discharge fan unit capacity 0.24m ³ /s at 350 PA Glass fibre roof unit with bird guard curb mounted suitable for installation on steel roof sheeting. 400V AC 3 phase 1440 rpm Class 1 Div 2 (EX'e') IP55 from Howden Donkin type UV 400/3/4. All as detailed on drawings, installed complete including hole through steel roof sheeting, flashings, waterproofing and making good (FAN 1)			
A3	Pressurization fan:	no		20
	3CR12 pressurization fan filter unit with washable primary and secondary filters with access doors, 3 000m ³ / hour at 340Pa motor, IP20 20V AC 1400 rpm with and including speed control unit, all as detailed on drawing, installed complete,			
A4	including making good (FAN 3)	no		20
	400 x 600mm Ceiling mounted extract air grille with blades set			
A5	permanently at 90 degrees	no		200
	28 kW VRVIII "MITSUBISHI" inverter heat pump small footprint combination unit, complete with all switch disconnectors, solenoids, etc., installed strictly in accordance with the manufacturer's instructions and as per detail drawings (ACU1			
A6	and ACU2)	no		20

Signed by:



Project Manager(Acting) - Joe Tshivula



Quantity Surveyor - Therisano Ranthako