



# **Current Construction Costs Handbook**

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**2012/13**

# FOREWORD

The current Construction costs handbook is prepared by the Cost Planning Unit of the Quantities and Contracts Department, Ministry of Public Works to provide common basis for estimating costs.

The prices are collected from major suppliers and / or manufacturers based in main supply centres.

The costs reflect the average market rates and will serve as guidance in estimating for both public and private sectors building projects countrywide.

The Handbook is updated annually and suggestions or additions to its contents are most welcome.

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## MINISTRY OF PUBLIC WORKS

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### REVISION NO. 29

- Prices are based on cost of materials within Nairobi in the month of August 2012
- The rates include 19% labour costs (but varies) and 16% profits and overheads on average.
- These prices reflect the average market rates and hence should be used for estimate purposes only.
- Main supply Centres are Nairobi, Mombasa, Kisumu , Nakuru, Eldoret, Kitale , Kakamega , Nyeri, Embu and Nanyuki.
- Upcountry percentage weighing from main supply centres should be applied to overall total cost under the following conditions;

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Item	Description	Unit	CPU Rate
-	<b>EXCAVATION AND EARTHWORKS</b> (Hand and Simple tools excavation) = Manual		
A	Excavate oversite to remove vegetable soil average 150 mm deep ; wheel and deposit on site n.e. 100 M away in permanent spoil heaps	SM	65
B	Excavate oversite to reduce levels ( for basement ) n.e. 1.5 M deep starting from existing ground level	CM	250
C	Excavate for column base (surface trench) commencing from stripped level and not exceeding 1.50m deep	CM	250
D	Ditto 1.50m - 3.0m deep	CM	280
E	Ditto 3.0 m - 4.5 m deep.	CM	350
F	Return fill in and ram selected excavated material around foundations	CM	120
G	Cart away from site surplus excavation spoil away from site	CM	520
H	Spread on site surplus excavations n.e 100 m away.	CM	120
I	Extra over excavations for excavating in rock Class 1	CM	1,800
J	Ditto in reinforced concrete	CM	1,800
K	Approved hardcore bed in making up levels well compacted	CM	1,200
L	50mm quarry dust blinding to hardcore to receive concrete	SM	80
M	150 mm approved murrum filling consolidated in layers to make up levels	SM	147
N	150 mm Approved red soil filling consolidated in layers to make up levels	SM	210
O	"Premise 200CC" insecticide treatment to surfaces of excavations applied as per manufacturer's instruction with a 10 year guarantee as 'HIGHCHEM LTD'	SM	200
P	"Gladiator TC"(organophosphates chlorpyrifos)-covers 8SM per litre as 'HIGH CHEM LTD'	SM	348
Q	"Termidor" anti-termite (fipronil) - covers 20SM per litre AS 'HIGH CHEM LTD'	SM	265

Item	Description	Unit	CPU Rate
R	<b>IN-SITU CONCRETE WORKS</b> (The estimator will use his discretion to weight the rates for concrete location.)		
S	<b>MASS CONCRETE</b>		
1	Plain concrete class X mix 1:4:8 blinding	CM	8,600
2	Mass concrete 1:3:6 Class Q in foundations	CM	11,000
3	100 mm thick surface bed ditto	SM	110
	<b><u>VIBRATED REINFORCED CONCRETE</u></b>		
A	<b>CLASS 20/20mm (1:2:4)</b>		
1	Foundations / Ground beams / stairs / Column & bases	CM	12,200
2	150mm thick ground / suspended floor slab	SM	1,830
B	<b>CLASS 25/20 mm (1:1 ½ :3 )</b>		
1	Foundations / Ground beams / stairs /Column & bases	CM	13,400
2	150 mm thick ground /suspended floor slab	SM	2,010
C	<b>CLASS 30/20 mm ( 1:1:2 )</b>		
1	Column bases, pile cap bases Columns stairs & beams	CM	15,000
2	150 mm thick ground / suspended floor slab	SM	2,250
D	<b>THICKNESSING</b>		
1	Extra over 150mm thick bed for thicknessing underside sizes 600mm (average) x 300mm (average) including handpacking hardcore to a slope both sides and all necessary formwork.(concrete 1:3:6)	LM	1,600
	<b>HOLLOW POTS</b>		
E	<b><u>CLAY HOLLOW POT IN SUSPENDED SLABS (Ribs 125mm)</u></b>		
1	300X250X125 mm thick clay blocks	SM	654
2	150 mm thick ditto	SM	803
3	200 mm thick ditto	SM	990
F	<b><u>CONCRETE HOLLOW POT IN SUSPENDED SLABS (Ribs 125mm)</u></b>		
1	375X225X150 mm thick concrete blocks	SM	1,039
2	200 mm thick ditto	SM	1,095
3	300 mm thick ditto	SM	1,446

Item	Description	Unit	CPU Rate
G	<b>EXPANSION JOINT</b>		
1	12mm Flexcell expansion	SM	300
2	25 x 25mm "Expendite" sealer	LM	41
H	<b>FORMWORK</b> (Cypress) SAWN FORMWORK TO:-		
1	Sides of foundations / Columns & beams	SM	450
2	Sides of ditto curved on plan to various radii	SM	500
3	Curved sides of columns and beams to various radii	SM	500
4	Edge of beds and steps 75-150mm high	LM	60
5	Beams / isolated beams / slabs soffits, stairs & columns	SM	500
6	Soffits and sides of walls and slabs not exceeding 3.50m high	SM	421
7	Ditto over 3.50m high	SM	441
	<b>Extra over formwork for:-</b>		
9	Fair face	SM	250
10	Bush hammering	SM	210
D	<b>ROUND MILD STEEL BARS REINFORCEMENT</b>		
1	6 mm Diameter bars	KG	142
1	8 mm ditto	KG	140
2	10 mm ditto	KG	140
3	12 mm ditto	KG	140
4	16 mm ditto	KG	140
5	20 mm ditto	KG	140
6	25 mm ditto	KG	140

Item	Description	Unit	CPU Rate
A	<b>SQUARE TWISTED HIGH TENSILE REINFORCEMENT</b>		
1	8 mm Diameter	KG	140
2	10 mm ditto	KG	140
3	12 mm ditto	KG	140
4	16 mm ditto	KG	140
5	20 mm ditto	KG	140
6	25 mm ditto	KG	140
7	32 mm ditto	KG	140
B	<b>FABRIC MESH REINFORCEMENT TYPE A TO B.S. 1483 (Roll sizes 48 X 2.4 M)</b>		
1	B.R.C mesh type A142	SM	358
2	Ditto commercial	SM	200
3	Ditto No.65	SM	220
C	<b>FABRIC MESH REINFORCEMENT TYPE B TO B.S. 1221 (Roll sizes Varied)</b>		
1	No 65 X 2.35 Kg/SM in sizes 150 X 7 ft	SM	173
2	No 66	SM	185
	<b><u>WATER PROOFING</u></b>		
A	<b>Concrete Protection and Waterproofing (as per Mau West)</b>		
1	Penetron integral capillary system water proofing to concrete surfaces (1KG PER SM)	SM	1,859
2	Ditto to masonry	SM	2,124
3	Dunlop Grey ;Liquid Flexible Rubber Water Proofing Membrane	SM	2,124
4	Dam/Sewerage/Fish lining membrane	SM	1,469
B	<b><u>WATER PROOFING (AS PER ITALBUILD IMPORTS)</u></b>		
1	Rain Base - Osmotic waterproofing for concrete	SM	1,298
2	Rain Blok - for localized infiltration in concrete	SM	1,180
3	Rain Elastic Extra "E" - acrylic liquid membrane for general water proofing	SM	1,121
4	Sirrah P GR 4Kg/SM-APP bituminous membrane	SM	1,180
5	Sirrah P GR 5Kg/SM-APP bituminous membrane	SM	1,357
6	Tefond plus - High Density Polyethylene (HDPE)	SM	1,121

Item	Description	Unit	CPU Rate
<b><u>WATER PROOFING CONT'D</u></b>			
A	<b><u>HESSIAN BASED BITUMINOUS DPC</u></b>		
1	100 mm felt D.P.C	LM	60
2	150 mm ditto	LM	90
3	225 mm ditto	LM	98
4	300 mm ditto	LM	140
5	1000 mm ditto	SM	351
B	<b><u>POLYTHENE SHEET DAMP PROOFING</u></b>		
1	500 gauge white sheet	SM	120
2	1000 gauge black sheet	SM	90
<b>WALLING</b>			
A	<b><u>CONCRETE BLOCKS</u></b>		
	Solid Concrete Block Walling		
1	90mm thick	SM	1,003
2	140mm thick	SM	1,222
3	190mm thick	SM	1,800
4	240mm thick	SM	2,100
B	Hollow Concrete Block Walling		
1	140 mm thick	SM	1,054
2	190 mm thick	SM	1,260
3	240 mm thick	SM	1,600
C	Precast concrete Louvre blocks		
1	150 mm Louvre block walling	SM	2,277
2	200 mm Louvre block walling	SM	2,278
D	E.O. 225 mm Solid Concrete Block Walling for :		
1	Raking Cutting	LM	118
2	Fair Curved cutting	LM	236

Item	Description	Unit	CPU Rate
	<b><u>CLAY BLOCKS</u></b>		
A	Hollow Clay Partitioning Block Walling		
1	75 mm Ditto	SM	622
2	100 mm Ditto	SM	797
3	150 mm Ditto	SM	1,150
	<b><u>NATURAL QUARRY STONES</u></b>		
B	Juja (Ndarugu) machine dressed stone walling in cement sand (1:3) mortar		
1	100mm Ditto	SM	829
2	150mm Ditto	SM	1,000
3	200mm Ditto	SM	1,200
C	<b>Rimpa Ngong Quarry stone walling in cement sand (1:3) mortar</b>		
1	100mm Ditto	SM	661
2	150mm Ditto	SM	837
3	200mm Ditto	SM	1,200
D	<b>Njiru quarry stone walling in cement sand (1:3) mortar</b>		
1	100mm Ditto	SM	885
2	150mm Ditto	SM	1,061
3	200mm Ditto	SM	1,477
E	<b>Njiru Blue "special" stone walling in cement sand (1:3) mortar</b>		
1	100mm Ditto	SM	3,199
2	150mm Ditto	SM	1,650
3	200mm Ditto	SM	1,900
F	<b>E.O. 225 mm thick natural stone walling for :</b>		
1	Raking Cutting	LM	106
2	Fair Curved cutting	LM	212

Item	Description	Unit	CPU Rate
F	<b>Precast concrete Louvre blocks</b>		
1	300x150x150 mm Louvre block walling	SM	1,977
2	300x200x200 mm Louvre block walling	SM	2,014
G	<b>Clay Brick Wall including pointing with neat flush joints</b>		
1	230x75x115 mm thick standard brick wall.	SM	1,686
2	290x115x140 mm thick Kileleshwa brick wall.	SM	2,254
3	300x115x150 mm thick interlocking blocks.	SM	1,371
4	300x115x230 mm thick ditto	SM	1,885
5	Extra over clay brick wall for 300X150mm hollow corner block filled with Vibrated.R.C. 20/20 and 4Y12 bars	LM	1,049
H	<b>Decorative Clay Grille Blocks</b>		
1	100 mm thick "Pompei" clay brick wall	SM	705
2	150x150x100 mm thick mexican ditto	SM	901
3	Clay window cills		
5	150 X 150 mm x 30 mm clay tile window cill/skirting	NO	121
6	150 X 200 x 30mm ditto	NO	115
	<b><u>PRECAST CONCRETE PRODUCTS</u></b>		
A	<b>Coloured Window cill</b>		
1	600x275x175mm thick P.C. cill (225 mm wall)	LM	517
2	250mm thick ditto	LM	709
3	100 X 150 mm x 15mm clay tile window cill/skirting	LM	134
4	150 X 150 x15mm ditto	LM	182
A	<b><u>HESSIAN BASED BITUMINOUS DPC</u></b>		
1	100 mm felt D.P.C	LM	46
2	150 mm ditto	LM	68
3	225 mm ditto	LM	104
4	300 mm ditto	LM	139
5	1000 mm ditto	SM	461



Item	Description	Unit	CU Rate
	<b>POLYTHENE SHEET DAMP PROOFING</b>		
A			
1	500 gauge white sheet	SM	61
2	1000 gauge black sheet	SM	61
B	<b>Grey Pre-cast concrete Products bedded &amp; jointed in cement sand mortar (1:3)</b>		
	<b>Moulded balustrades</b>		
1	140 mm diameter X 635 mm long	No.	683
2	Ditto 965 mm long	No.	1,079
3	75 mm thick Weathered & throated saddled-back copping For 100 mm thick wall s	LM	300
4	For 150 mm thick walls	LM	408
5	For 225 mm thick walls	LM	532
6	400x400x50 mm pier cap	No	487
7	450x450x50 mm pier cap	No	549
8	Decorative Precast concrete grille block		
9	138 mm thick "Pompei" (equivalent) precast concrete grille wall	SM	931
10	150 mm thick polygonal grille precast concrete grille wall; as "Warren Conc. Ltd" F6	SM	831

Item	Description	Unit	CPU Rate
	<b>JUMBOCHEM PRODUCTS</b>		
A	<b>Damp Proof Membrane</b>		
1	1000 Gauge damp proof membrane	SM	100
B	<b>Roof Insulation</b>		
1	2 mm double reflective foil roof insulation	SM	300
2	5 mm double reflective foil roof insulation	SM	440
3	10 mm double reflective foil roof insulation	SM	720
C	<b>Acoustic Insulation</b>		
1	25 mm acoustic insulation	SM	1,035
2	50 mm acoustic insulation	SM	2,000
D	<b>Wall Insulation</b>		
1	50 mm wall insulation	SM	2,080
2	75 mm wall insulation	SM	2,850
E	<b>Underfelt</b>		
1	2 mm thick kitchen top and floor underfelt	SM	140
F	<b>Expansion strips</b>		
1	100 mm wide	LM	55
2	150 mm wide	LM	80

Item	Description	Unit	CPU Rate	
A	<b>STRUCTURAL STEEL</b> <b>Welded &amp; Bolted joints</b> <b>HOT ROLLED STEEL SECTIONS</b>			
	<b>SQUARE HOLLOW SECTIONS</b>			
	1	16 X 16 X 1.5mm Thick (0.68Kg/M)	LM	164
	2	20 X 20 X 2.0mm Thick(1.13Kg/m)	LM	233
	3	25 X 25 X 3mm Thick (2.07Kg/M)	LM	428
	4	30 X 30 X 3mm Thick (2.54Kg/M)	LM	525
	5	40 X 40 X 3mm Thick (3.48Kg/M)	LM	721
	6	50 X 50 X 1.2mm Thick	LM	418
	7	60 X 60 X 2mm Thick	LM	819
	8	75 X 75 X 2mm Thick (4.58 Kg/m)	LM	965
	9	100 X 100 X 3mm Thick (9.14 Kg/m)	LM	1,774
	10	125 X 125 X 3mm Thick (11.49Kg/m)	LM	2,191
	11	150 X 150 X 3mm Thick (13.85Kg/m)	LM	2,655
12	175 X 175 X 3mm Thick	LM	3,085	
13	200 X 200 X 4mm Thick (24.62Kg/m)	LM	4,750	

Item	Description	Unit	CPU Rate
	<b>RECTANGULAR HOLLOW SECTIONS</b>		
A	1 40 x 20 x 2mm Thick (1.76Kg/M)	LM	409
	2 40 X 25 X 3mm Thick(2.78Kg/M)	LM	574
	3 50 X 25 X 2mm Thick (2.23Kg/M)	LM	461
	4 60 X 40 X 2mm Thick(3.01Kg/M)	LM	660
	5 75 X 50 X 2mm Thick (3.73Kg/M)	LM	834
	6 100 X 50 X 2mm Thick	LM	965
	7 150 X 50 X 3mm Thick (9.14Kg/m)	LM	1,774
	8 125 X 75 X 3mm Thick(9.14Kg/M)	LM	1,774
	9 150 X 100 X 3mm Thick(11.49Kg/M)	LM	2,191
	10 200 X 50 X 3mm Thick (11.49Kg/M)	LM	2,194
	11 200 X 100 X 4mm Thick (18.34Kg/M)	LM	3,554
	<b>STEEL FLATS</b>		
A	1 20 x 3-4-6 mm	Kg	101
	2 25 X 3-4-6-8-9 mm	Kg	101
	3 30 X 3-4-6 mm	Kg	101
	4 40 X 3 to 9 mm thick	Kg	98
	5 40X10mm thick	Kg	98
	6 50 X 3- 9 mm thick	Kg	114
	7 50X10mm thick	Kg	103
	<b>MILD STEEL ANGLES</b>		
A	1 20 X 20 X 3 mm	Kg	88
	2 25 X 25 X 3 mm	Kg	88
	3 30 x 30 x 3 mm	Kg	88
	4 40 x 40 x 3 mm	Kg	92
	5 50 x 50 x 3 mm	Kg	95
	6 65 X 65 X 6 mm	Kg	103
	7 75 X 75 X 6 mm	Kg	107

Item	Description	Unit	CPU Rate
	<b><u>MILD STEEL U CHANNELS</u></b>		
A	1 75 X 40 X 6 mm	Kg	105
	2 100X50X6MM	Kg	89
	3 125X65mm	Kg	80
	<b><u>COLD ROLLED STRUCTURAL STEEL TUBES</u></b>		
A	1 16 mm dia x 1.5 mm thick (0.54kg/m)	LM	134
	2 20 mm dia x 1.5 mm thick (0.75kg/m)	LM	155
	3 25 mm dia ditto (0.87kg/m)	LM	196
	4 32 mm dia ditto (1.13kg/m)	LM	231
	5 50 mm dia ditto (1.87kg/m)	LM	366
	6 16 mm dia x 1.2 mm thick (0.44kg/m)	LM	111
	7 20 mm dia x 1.2 mm thick (0.59kg/m)	LM	144
	8 25 mm dia ditto (0.70kg/m)	LM	161
	9 32 mm dia ditto (0.91kg/m)	LM	194
	10 50 mm dia ditto	LM	313
	<b><u>ZED PURLINS -SOLD IN 6M LENGTHS</u></b>		
A	1 100 x 50 mm x 2 mm thick (14 gauge)	LM	754
	2 112.5 x 50 x 2 mm thick ditto	LM	795
	3 125 x 50 mm x 2 mm thick ditto	LM	837
	4 150 X 50 X 2 mm thick ditto	LM	876
	5 175 X 63 X 2 mm thick ditto	LM	1,068
	6 175 X 63 X 2.5 mm thick.	LM	1,323
	<b><u>MILD STEEL TEE SECTIONS</u></b>		
A	1 20X20X3mm thick	Kg	151
	2 25x25x3mm thick	Kg	165

Item	Description	Unit	CPU Rate
A	<b><u>MILD STEEL PLATES</u></b> (8'x4')		
	1 4.5 mm thick	SM	2,930
	2 8mm thick	SM	5,645
A	<b><u>STEEL CHEQUERED PLATE</u></b> 3mm thick( 8'x4')		
	1 ROOFING FINISHES	SM	2,488
A	<b><u>SHEET ROOF COVERINGS</u></b>		
A	<b><u>BITUMINOUS ROOFING FELTS</u></b>		
	1 3-Layer felt (14:14:38kg/10m2) with mineral surface	SM	1,123
	2 200 mm flashing	LM	112
A	<b><u>WATERPROOFING (ITALBUILD PRODUCTS)</u></b>		
	1 Rain Base - osmotic waterproofing for concrete (as per Italbuid Imports Ltd.)	SM	
	2 Rain Blok - for localized infiltration in concrete (as per Italbuid Imports Ltd.)	LM	
	3 Rain Elastic Extra "E" - acrylic liquid membrane for general w/p (as per Italbuid Imports Ltd.)	SM	
	4 Sirrah P GR 4 kg/sm - APP bituminous membrane (as per Italbuid Imports Ltd.)	SM	
	5 Sirrah P GR 5 kg/sm - APP bituminous membrane (as per Italbuid Imports Ltd.)	SM	
	6 Tefond Plus - High Density Polyethylene (HDPE) membrane (as per Italbuid Imports Ltd.)	SM	
	7 Guttafol N 140 - Underlayer for tiled roofs (as per Italbuid Imports Ltd.)	SM	
	8 Guttafol N160 - underlayer and insulation for tiled roofs (as per Italbuid Imports Ltd.)	SM	

Item	Description	Unit	CPU Rate
	<b><u>FLAT ROOFING FINISHES</u></b>		
A	1 Sirrah P GR 4 kg/sm - APP bituminous membrane (as per Italbuild Imports Ltd.)	SM	
	2 Sirrah P GR 5 kg/sm - APP bituminous membrane (as per Italbuild Imports Ltd.)	SM	
	<b><u>PITCHED ROOF FINISHES</u></b>		
A	1 Tegola Canadese Top Shingle - bituminous + ceramic shingles laid on timber deck or concrete slab (m.s..)	SM	
	2 Tegola Canadese Top Shingle Beaver - bituminous + ceramic shingles laid on timber deck or concrete slab (m.s..)	SM	
	<b><u>SHEET ROOF COVERINGS</u></b>		
A	1 Ondulit Coverib 1000 - multilayer steel roofing, natural aluminium colour effective coverage 892.5mm wide	LM	
	2 Ondulit Coverib 1000 - multilayer steel roofing, grey colour effective coverage 892.5mm wide	LM	
	3 Ondulit Coverib 850 - multilayer steel roofing, natural aluminium colour effective coverage 773mm wide	LM	
	4 Ondulit Coverib 850 - multilayer steel roofing, grey colour effective coverage 773 mm wide (as per Italbuild Imports Ltd)	LM	
	<b><u>SHEET ROOF COVERINGS CONT'D</u></b>		
A	1 Ondulit Coverib Ridge cap CP050, natural aluminium girth 500mm, length 4050mm	LM	
	2 Ondulit Coverib Ridge cap CP050, grey pre-painted aluminium girth 500mm,length 4050mm	LM	
	3 Ondulit Coverib various flashings, natural aluminium girth 500mm,length 4050mm	LM	
	4 Ondulit Coverib various flashings, grey pre-painted aluminium girth 500mm,length 4050mm	LM	
	5 Bitusheet Guttapral Naturcolor - bituminous + fibres sheet, colour impregnated (as per Italbuild Imports Ltd.)	SM	
	6 Bitusheet Guttapral Naturcolor ridge - steel reinforced (as per Italbuild Imports Ltd.)	LM	

Item	Description	Unit	CPU Rate
	<b>PREPAINTED G.I. &amp; ALUZINC SHEET METAL ROOFING (as MRM ltd)</b>		
	<b>N.C 11/3" Corrugated sheetsand BP760 Boxed profiled sheets(Effective 762 mm wide)</b>		
B	1 22 G	SM	
	2 24 G	SM	
	3 26 G	SM	1,528
	4 28 G	SM	773
	5 30 G	SM	575
	<b>IT5 / BP950 Profiled Sheets 906mm wide ( 857mm effective cover)</b>		
	1 22 G	SM	2,461
	2 24 G	SM	1,919
	3 26 G	SM	1,587
	4 28 G	SM	564
	5 30 G	SM	464
A	<b><u>VERSATILE ROOF SHEETS 1020MM OVERALL WIDTH 925MM EFFECTIVE COVER WIDTH</u></b>		
	1 22Gauge	SM	2,246
	2 24Gauge	SM	2,041
	3 26Gauge	SM	1,686
	4 28Gauge	SM	869
A	<b><u>SAFLOK 700 -SL 700</u></b>		
	1 24Gauge	SM	1,919
	2 26Gauge	SM	1,587



Item	Description	Unit	CPU Rate
	<b><u>PLAIN SHEETS - 960MM WIDE</u></b>		
A	1 22Gauge	SM	1,586
	2 24Gauge	SM	1,447
	3 26Gauge	SM	1,214
	4 28Gauge	SM	633
	5 30 Gauge	SM	515
	<b><u>MINI - CORRUGATION-MC 699</u></b>		
A	1 30 Gauge	SM	380
	<b><u>UNPAINTED G.I. SHEET ROOFING</u></b>		
	<b>875 mm X 11/3" Corrugation sheets(Effective 762 mm wide)</b>		
A	1 24 G	SM	1,109
	2 26 G	SM	897
	3 28 G	SM	552
	4 30 G	SM	448
	5 32 G	SM	243
B	<b>975mm Galvanised plain sheets</b>		
	1 22 G ( 0.69 mm thick )	SM	1,067
	2 24 G ( 0.54 mm thick)	SM	952
	3 26 G ( 0.4 mm thick)	SM	796
	4 28 G ( 0.32 mm thick)	SM	371
	5 30 G ( 0.25 mm thick)	SM	291
	<b><u>RIDGE CAPS</u></b>		
	<b><u>PREPAINTED 2000mm G.I. ALUZINC RIDGING</u></b>		
A	1 24 G X 320 mm with stiffeners	LM	500
	2 26 G ditto	LM	420
	3 28 G ditto	LM	243
	4 30 G ditto	LM	208

Item	Description	Unit	CU Rate
	<b>UNPAINTED G.I./ALUZINC RIDGING</b>		
A	1 24 G X 320 mm with stiffeners	LM	330
	2 26 G ditto	LM	295
	<b>FLASHINGS</b>		
A	1 Prepainted 2000 mm G.I. /Aluzinc flashing 22 G X 380 mm	LM	561
	2 24 G ditto	LM	514
	3 26 G ditto	LM	435
	4 22 G X 570 mm	LM	812
	5 24 G ditto	LM	740
	6 26 G ditto	LM	620
B	<b>Unpainted 2000 mm G.I./aluzinc Flashing</b>		
	1 22 G X 380 mm standard ridge	LM	417
	2 24 G ditto	LM	378
	3 22 G ditto	LM	314
	4 22G X 570mm	LM	598
	5 24 G ditto	LM	537
	6 26 G ditto	LM	439
C	<b>Tile Roof Support</b>		
	1 Hot dipped galvanised chicken wire 22 gauge 914 mm high with mesh size 25 mm	SM	130
	2 Ditto but mesh size 40 mm	SM	59
	3 1828 mm high with 25 mm mesh	SM	124
	4 Ditto but 40 mm mesh	SM	56

Item	Description	Unit	CPU Rate
	<b>ROOFING TILES</b>		
A	<b>Precast colour through Concrete tiles</b>		
1	Green 420 X 330 mm Manson Harts interlocking tiles	SM	1,102
2	Ditto other colours	SM	752
3	Green colour coated 420 X 330 mm Double Roman tiles	SM	838
3	Green double roman tiles 420X335mm (mareba)	SM	1,239
4	Ditto other colours (Coloured Through )	SM	724
B	<b>Precast concrete Ridges; Hips; Valleys etc (Manson Hart) Spray on:</b>		
1	375mm Hip socketed angle ridges; Green	LM	225
2	Ditto red and other colours	LM	195
3	450mm; 1/3 Round angle ridges; Green	LM	243
4	Ditto red and other colours	LM	184
5	450mm; 1/2 Round mono-pitch ridge; Green	LM	262
6	Ditto red and other colours	LM	247
C	<b>Colour through</b>		
1	375mm Hip socketed angle ridges; Green	LM	412
2	Ditto red and other colours	LM	277
3	450mm; 1/3 Round angle ridges; Green	LM	509
4	Ditto red and other colours	LM	284
5	450mm; 1/2 Round mono-pitch ridge; Green	LM	730

Item	Description	Unit	CPU Rate
	6 Ditto red and other colours	LM	590
A	<b><u>CLAY ROOFING TILES</u></b>		
	<b>Clay tiles</b>		
	1 Interlocking clay tiles size 400 X 250 X 50 mm X3.1 Kg/Unit(clayworks ltd)	SM	650
	2 Roman clay tiles size 375x150x65 mm	SM	
	3 Brosley plain clay tiles size 250x150x15 mm	SM	874
	4 Portuguese clay tiles size 41 X 190 X 14 mm	SM	679
5 Slip tiles size 300x175x50mm used on mabati sheets	SM	402	
B	<b>Clay Ridges; valleys; hips etc</b>		
	1 Segmental Roman Ridge 375 x 150 x 75 mm.	LM	326
	2 Standard 400 X 220 X 100 mm ridge tile	LM	204
A	<b><u>HARVEY ROOFING TILES</u></b>		
	1 1700X397mm Elite and Tufftile -Acrylic	SM	1,622
	2 Ditto stone coat	SM	2,059
	3 1700x397mm Romantile,shaketile & academytile - Acrylic	SM	1,776
	Ditto stone coat	SM	2,233
A	<b><u>DURA TILE (STONE COATED) FROM 'DURA ROOFING PRODUCTS LTD'</u></b>		
	1 1690x397mm,Dura tile, Elite 0.45mm thick	SM	1,512
	2 1710X398mm,Duroma tiles 0.45mm thick	SM	1,658
	3 1710x398mm,Dura Tiger Eye 0.45mm thick	SM	2,139
	4 Dura span,IBR profile 737mm width,0.46mm Thick	SM	1,848
	5 Roll Top Ridges,1.8mts Length	LM	787
A	<b><u>DURA TILE ACCESSORIES</u></b>		
	1 1720mm Angle Ridge Cap	LM	1,064
	2 580mm Angle Hip Cap	LM	1,271
	3 1720mm cover flashings	LM	1,086
	4 1550mm Barge Board Covers	LM	1,064
	5 1550mm Side Wall Flashings	LM	896

Item	Description	Unit	CPU Rate
A	<b>UPVC CARBON FIBRE ROOF SHEETS AS 'DURA ROOFING PRODUCTS'</b>		
	1 Carbon fibre UPVC sheets,2.0mm thick	SM	1,008
	2 Carbon fibre UPVC sheets,2.5mm thick	SM	1,128
	3 Carbon fibre UPVC sheets,3.0mm thick	SM	1,256
4	Top tile Ridge	SM	728
A	<b>RAIN WATER GOODS</b>		
	<b>Prepainted 2000 mm G.I./ALUZINC Gutters</b>		
	1 22 G X 300 mm Half round	LM	523
	2 24 G ditto	LM	484
	3 26 G ditto	LM	396
	4 22 G X 100 X 75 mm box gutter	LM	420
5 24 G ditto	LM	385	
6 26 G ditto	LM	321	
B	<b>Prepainted G.I. /Aluzinc downpipes</b>		
	1 22 G X 80 mm diameter round	LM	569
	2 24 G ditto	LM	534
	3 26 G ditto	LM	466
	4 22 G X 110 mm diameter round	LM	705
	5 24 G ditto	LM	654
	6 26 G ditto	LM	564
	7 22 G X 150 X 120 mm box gutter	LM	886
	8 24 G ditto	LM	813
	9 26 G ditto	LM	675
	10 22 G X 100 X 75 mm box gutter	LM	619
	11 24 G ditto	LM	570
12 26 G ditto	LM	477	

Item	Description	Unit	CPU Rate
C	<b>Unpainted 2000 mm G.I./ALUZINC Gutters</b>		
1	22G x 300mm half round	LM	383
2	24G ditto	LM	349
3	22G x 100 x 75mm box gutter	LM	308
4	24G ditto	LM	285
5	26 G ditto	LM	232
A	<b>Unpainted 1.00M Round G.I. /Aluzinc downpipes</b>		
1	22 G X 80 mm diameter round	LM	402
2	24 G ditto	LM	371
3	26 G ditto	LM	315
4	22 G X 110 mm diameter round	LM	508
5	24 G ditto	LM	468
6	26 G ditto	LM	393
7	22 G X 150 X 120 mm box gutter	LM	652
8	24 G ditto	LM	591
9	26 G ditto	LM	483
10	22 G X 100 X 75 mm box gutter	LM	454
11	24 G ditto	LM	413
12	26 G ditto	LM	338
	<b>PLASTIC RAINWATER GOODS</b>		
A	<b><u>PLASTIC GUTTERS</u></b>		
1	140mm diameter half round	LM	260
2	Ditto 180mm	LM	413
3	Ditto 250mm	LM	909
A	<b><u>EXTRA OVER GUTTER FOR CLICK-FIT STOP END</u></b>		
1	140mm diameter	NO	159
2	Ditto 180mm	NO	224
3	Ditto 250mm	NO	413

Item	Description	Unit	CPU Rate
A	<b><u>EXTRA OVER GUTTER FOR CLICK FIT GUTTER JOINT UNION</u></b>		
	1 140mm diameter	NO	354
	2 Ditto 180mm	NO	490
	3 Ditto 250mm	NO	791
A	<b><u>GUTTER SUPPORT BRACKETS</u></b>		
	1 140mm diameter	NO	118
	2 Ditto 180mm	NO	159
	3 Ditto 250mm	NO	389
A	<b><u>CLICK FIT STOP END WITH RUNNING OUTLET</u></b>		
	1 140x75mm	NO	490
	2 Ditto 180x110mm	NO	620
	3 Ditto 250x160mm	NO	1,145
A	<b><u>CLICK FIT RUNNING OUTLET</u></b>		
	1 140x75mm	NO	543
	2 Ditto 180x110mm	NO	743
	3 Ditto 250x160mm	NO	1,233
A	<b><u>PLASTIC DOWN PIPES</u></b>		
	1 160mm diameter	LM	413
	2 110mm ditto	LM	157
	3 75mm ditto	LM	168
B	<b><u>DOWN PIPE SHOE</u></b>		
	1 160mm diameter	NO	844
	2 110 mm ditto	NO	248
	3 75 mm ditto	NO	177
C	<b><u>DOWN PIPE BEND</u></b>		
	1 160 mm diameter	NO	844
	2 110 mm ditto	NO	248
	3 75mm ditto	NO	177

Item	Description	Unit	CPU Rate
D	<b><u>DOWN PIPE CLIPS</u></b>		
1	160mm diameter	NO	283
2	110mm ditto	NO	106
3	75mm ditto	NO	94
A	<b><u>CARPENTRY &amp; JOINERY</u></b>		
	<b>Sawn Pine</b>		
1	100 X 50 mm sawn pine	LM	194
B	<b>Sawn Gravia</b>		
2	150 X 25mm	LM	73
C	<b>Sawn cypress</b>		
1	100 X 75 mm wall plate	LM	269
2	100 X 50 mm wall plate	LM	184
3	150 X 50 mm rafter	LM	276
4	75 X 50 mm battens	LM	144
5	50 X 50 mm branderings	LM	96
6	50 X 25 mm tile battens	LM	61
D	<b>100 X 75 mm sawn hard wood timber</b>		
1	Camphor	LM	788
2	mahogany	LM	828
3	mvule & mninga	LM	687
4	25 mm thick Wrot cypress 100x25mm cypress skirting	LM	140
5	Wrot Hardwood		
6	100x25mm mahogany skirting	LM	323
7	100 mm covetto moulded cornice	LM	119
8	225 x 38 mm fasciaboard	LM	323
9	100 mm ditto	LM	103
E	<b><u>HARDWOOD DOOR FRAMES</u></b>		
1	100 X 50 mm rebated wrot mahogany door frame with rounded edges	LM	857
2	Ditto 200x50mm	LM	1,272
3	Ditto 150x50mm	LM	997



Item	Description	Unit	CPU Rate
A	<b><u>SOFTWOOD DOOR FRAMES</u></b>		
1	100 X 50 mm rebated wrot cypress door frame with rounded edges	LM	332
2	Ditto 200x50mm	LM	478
3	Ditto 150x50mm	LM	607
B	<b>Curtain fittings</b>		
1	35 mm diameter curtain rod	LM	378
2	38-40 mm diameter sliding rings	No	70
C	<b>Pelmet boxes in wrot cypress</b>		
1	End stops	No	169
2	150 X 25 mm pelmet top	LM	491
3	100 x 25 mm pelmet fascia	LM	449
D	<b>labours on 100 X 50 mm hardwood timber</b>		
1	Planing	LM	46
2	Turning and /or moulding	LM	46
3	groove	LM	46
4	Splitting	LM	46
A	<b><u>TIMBER BOARDS &amp; PARTITIONS</u></b>		
a	<b>25 mm thick blockboard</b>		
1	Plain	SM	1,139
2	Veenered one side with mahogany	SM	1,335
3	Veenered BOTH sides with mahogany	SM	1,635
4	Veneered ONE side with meru oak	SM	2,208
5	Veneered BOTH sides with meru oak	SM	2,615
B	<b>b Plywood</b>		
1	3mm thick sheet	SM	252
2	6mm ditto	SM	504
3	12mm ditto	SM	918
C	<b>c 12 mm thick celotex softboard</b>		
1	Imported sheet	SM	467

Item	Description	Unit	CPU Rate
D	2 Local	SM	426
	d <b>Veneers</b>		
E	1 3mm thick mahogany	SM	536
	2 meru oak	SM	855
	3 Pine	SM	459
	e <b>Chip boards 8' X 4'</b>		
	1 9 mm thick Plain Chip board	SM	413
F	2 12 mm thick ditto	SM	547
	3 18 mm thick ditto	SM	804
	4 19 mm thick melamine faced chip board both sides size 2700x2100mm	SM	3,236
	f <b>Gypsum boards 8' X 4'</b>		
G	1 9 mm thick	SM	613
	2 12 mm thick	SM	626
J	g <b>Partitioning material for Gypsum boards</b>		
H	h <b>3 M floor channels ( 36 screws)</b>		
	1 Rhinoglide filler 1x20kgs	No	2,520
	2 Dry wall screws 25mm (1000 pieces)	No	1,736
	3 52mm 2.7mts floor/ceiling tracks	No	491
	4 51x3000mm long dry wall studs	No	539
I	5 Gypsum fibre tape 1x90mts	No	2,093
	i <b>Supawood Veneered M.D.F. 8' X 4'</b>		
	1 3 mm thick mahogany veneered one side	SM	804
	2 Meru Oak ditto	SM	909
J	3 18 mm thick mahogany veneer one side	SM	1,718
	4 Meru Oak ditto	SM	1,796
	k <b>M.D.F. 8' X 4'</b>		
	1 3 mm thick	SM	382
J	2 Ditto white one side	SM	612
	3 6 mm thick	SM	646
	4 12 mm thick	SM	993

Item	Description	Unit	CPU Rate
K	5 18 mm thick	SM	1,125
	6 25 mm thick	SM	1,853
	7 Ditto with mahogany one side	SM	2,109
	1 <b>M.D.F. 9' X 6'</b>	SM	1,088
	1 12 mm thick	SM	1,467
L	2 18 mm	SM	1,575
	3 22 mm	SM	2,297
	4 32 mm	SM	213
	k <b>Styropol boards 4' X 4'</b>	SM	416
M	1 25mm thick size 1200x1200	SM	601
	2 12.5mm thick size 1200x1200mm	SM	601
	3 50mm thick size 1200x1200mm	SM	1,151
A	l <b>25 mm wrot T &amp; G boarding</b>	SM	3,224
	1 Fabricated from 100 X 25 mm prime grade cypress	SM	7,263
	2 Ditto in cedar Ditto.	SM	1,019
	3 Aluminium framed Expanded polystyrene partition 50 mm thick aluminium framed partition with expanded postrene infill mahogany veneered both sides	SM	1,019
	4 Blackwood 8' X 4' 25 mm thick board	SM	1,019
	a <b><u>TIMBER DOORS</u></b> <b>Flush timber doors</b>		
	1 50 mm thick semi-solidcored flush door leaf size 820 X 2060 mm overall	No	3,248
	2 Ditto mahogany veneered both sides	No	6,272
	3 Semi solid ordinary double door size 1500x2060mm high	No	8,288
	4 Ditto size 1800x2060mm high	No	9,968
5 50 mm thick Solid cored ordinary flush door leaf size 820 X 2060 mm overall	NO	3,808	
6 Ditto mahogany veneered both sides	NO	7,168	

Item	Description	Unit	CPU Rate
b	<b>Panelled hardwood doors</b>		
1	50 mm thick mahogany door leaf size 820 X 2060 mm overall with 4 fielded & raised panels	No	18,704
2	Ditto mvule door leaf	No	18,569
3	Ditto podo	No	6,500
4	Ditto cedar	No	7,948
c	<b>50 mm thick Wrot cypress matchboarded door leaf size 820 X 2060 mm</b>		
1	25mm T & G facing, 50 X 100 mm framing ( stiles & rails ) all round, 25 X 100 mm braces & middle rail.	No	6,319
2	Ditto solid door with 50 mm thick T & G infill and 50 X 100 mm middle rail.	No	17,553
	<b><u>GALVANISED STEEL CASEMENTS</u></b>		
	Windows		
A	Standard windows casements complete with hinges, stays, fasteners, permanent vent with mosquito gauze and sheet metal hood etc assembled and fixed to opening including cutting and pinning lugs to concrete or blockwork surround and bedding frame in cement and sand mortar (1:4) (Grille and Glazing excluded)		
1	600 X 600 mm with one top hang light	No	1,534
2	600 X 900 mm with one top hang and one fixed light	No	2,124
3	900 X 900 mm with one side hang light	No	2,856
4	1200 X 1200 mm with two side hang lights and one fixed bottom light	No	4,130
5	1500 X 1200 mm with two side hang lights; one fixed bottom light and one fixed light	No	5,074
6	1500 X 1500 mm with two side hang lights; one fixed bottom light and one fixed light	No	6,254
7	1800 X 1800 mm with two side hang lights; one fixed bottom light and two fixed lights and semi-circular top	No	7,670
	<b><u>LOUVRE WINDOW CARRIERS</u></b>		
B	RLCO Adjustable zinc plated steel Louvres		
1	Louvres for 100 mm blades per set of blade with handle.	No	73
	Ditto for 150 mm blades	No	84

Item	Description	Unit	CPU Rate
2	Burglarproofing Grilles		
A	Galvanised mild steel grille framed with 40 X 25 X 3 mm thick R.H.S. sections including assembly and fixing to opening cutting and pinning lugs to concrete or blockwork and bedding frame in cement and sand mortar (1:4)		
	600 X 600 mm with diamond patterned Y16 square bars lap-jointed at 100 mm centers	No	1,599
1	Ditto size 600 X 900 mm	No	2,399
2	Ditto size 900 X 900 mm with Y25 square bars	No	3,998
3	Ditto 1200 X 1200 mm with Y25 square bars	No	6,397
4	1500 X 1200 mm with R10 burglar proofing in varied approved patterns; curves etc	No	5,331
5	1500 X 1500 mm ditto	No	6,664
6	1800 X 1800 mm ditto with semi-circular top	No	7,997
7			
	<b><u>GALVANISED STEEL CASEMENTS DOORS</u></b>		
	Standard door complete with hinges, stays, fasteners, permanent vent with mosquito gauze and sheet metal hood etc assembled and fixed to opening including cutting and pinning lugs to concrete or blockwork surround and bedding frame in cement and sand mortar (1:4) (Grille and Glazing excluded )		
	steel casement door comprising 40 x 25 x 3 mm stiles, bottom & top rail, & 4No intermediate rails all primed with red oxide.		
	900 X 2100 mm door complete 50 X 50 x 3 mm fixed angle frame ; 2.5 mm thick checkered plate built into panels, "Union" 3-lever steel door lock, 3 X 200 mm lockable tower bolts	No	21,280
1	Ditto with one 900 x 600 mm grilled panel comprising 25 mm diamond patterned squares at 100 mm centers	No	23,010
2	900 X 2100 mm door complete 50 X 50 x 3 mm fixed angle frame ; 16 gauge mild steel plate built into panels, "Union" 3-lever steel door lock, 3 X 200 mm lockable tower bolts	No	17,700
3	Ditto with one 900 x 600 mm grilled panel comprising 25 mm diamond patterned squares at 100 mm centers	No	18,290
4			
	<b><u>ALUMINIUM</u></b>		
	Aluminium Frames		
A	Mill finished aluminium	Kg	733
1	Natural anodised aluminium	Kg	750
2	Bronze anodized aluminium	Kg	782
3			

Item	Description	Unit	CPU Rate
4	Powder coated aluminium	Kg	814
B	Heavy duty Bronze & Natural Anodized Aluminium windows frames (Glass & ironmongery M/S)		
1	1500 X 1200 mm window with 3 sliding panels	No	13,902
2	Ditto with two sliding panels	No	11,936
3	1500 X 600 mm window with two end top hang and one middle fixed panels	No	13,199
4	300 X 700 mm window with one top hang projecting and one bottom fixed panels	No	5,476
5	1500 X 1500 mm window with two top sliding and bottom fixed panels	No	17,693
6	300 X 1200 mm window with one fixed panel	No	4,213
7	Ditto with one one side hang projecting light	No	5,336
8	1000 X 1200 mm window with two side hang projecting panels	No	14,323
	NB three options exist - Heavy: Medium: Light duty & cost ratio of 2.7: 1.9: 1.0 respectively		
C	Heavy duty Bronze & Natural Anodized Aluminium doors frames		
1	900 X 2100 mm high single leaf swing door	No	20,852
2	1800 X 2100 mm double leaf ditto	No	36,509
3	1800 X 2100 mm high double leaf sliding door	No	31,847
4	3600 X 2100 mm high sliding and folding door	No	84,926
5	3200 mm wide X 2400 mm high shopfront comprising 3 top fixed lights, 2 end side fixed lights and double leaf side hang swing doors	No	75,490
D	Extra over swing doors for:		
1	100 mm aluminium butt hinges	No	351
2	3 lever cylinder mortise lock	No	3,932
3	Concealed floor door closer	No	21,063
4	Ditto concealed overhead door closer	No	8,144

Item	Description	Unit	CPU Rate
	<b><u>LOUVRE WINDOW CARRIERS</u></b>		
A	RLCO Adjustable Aluminium Louvre frames		
1	100 mm blades (per set of blade )	No	84
2	Ditto for 150 mm ( per set of blade )	No	176
	Note: Dual Operation for over 8 No. blades Domelights and Grilles		
B	1200 X 1200 mm Trellidor aluminium folding grill c/w ironmongery	NO.	14,526
1	Glazed aluminium composite cladding with 8mm laminated glass	SM	13,340
2	1000 X 1000 x 500 mm glazed aluminium domelight cladding with 10mm glass	NO.	13,059
3			
	<b><u>IRONMONGERY (as per union catalogue)</u></b>		
	Approved iron mongery include "Yale", "Viro", "Chubbs" and "Fleet" and "Union"		
A	"Union' Mortise door Locks		
1	2 lever door mortise lock with lever furniture REF 680-06-95 AS with martin handle	No	1,357
2	Three lever door mortise lock with lever furnisher ref 680-06-77 AS with martin design aluminium handle	No	2,065
3	2 lever rebated mortise lock Ref 680-06-42 AS with martin handle	No	2,301
4	Steel door lock as "Union" ref 22931	No	4,744
B	Other door locks as "Union"		
1	3 lever satin chrome dead lock Ref 2177SC	No	1,322
2	Rim lock Ref 1448-5248	No	1,451
3	4 lever Drawer lock Ref 4046	No	2,714
4	4 lever cupboard lock Ref 427-64	No	2,832
5	5 Lever mortice lock ref 2201PL	No	2,649
6	Cylinder Night latch ref 1022SD	No	1,770
7	Panic Bolt; Single door Ref U801	No	14,868
8	Panic Bolt; Double door Ref U802	No	19,706
9	3-Lever Sliding door lock Ref 2477SC	No.	3,033

Item	Description	Unit	CPU Rate
C 1	Hinges Brass piano hinges	LM	117
D 1	Pressed steel butt hinges 50 mm	Pr	49
2	75 mm	Pr	63
3	100 mm	Pr	84
E 1	Brass butt hinges 50 mm	Pr	84
2	75 mm	Pr	140
3	100 mm	Pr	309
A 1	Aluminium butt hinges Per pair 50 mm	Pr	105
2	75 mm	Pr	126
3	100 mm	Pr	562
B 1	Curtain tracks "Silent gliss" sliding curtain track complete with gears	LM	1,336
2	I-section aluminium sliding curtain track ditto	LM	308
3	Brass plated I - section curtain track	LM	421
C 1	Pressed steel Tower Bolts 50 mm	No	84
D 1	Pressed steel Indicator bolts Indicator bolt ref 8094	No	1,736
E 1	Brass Tower Bolts 50 mm	No	65
2	75 mm	No	83
3	100 mm	No	94
4	150 mm	No	153
5	200 mm	No	425
F 1	Aluminium Tower Bolts 50 mm	No	56
2	75 mm	No	70
3	100 mm	No	84
	Ball Catches		



Item	Description	Unit	CPU Rate
G	Flat Brass	No	56
1	10 mm ditto	No	42
2	50 mm brass BC - 50SC	No	77
3	Door closers etc		
A	Door closer hold open power 2/3 ref 8823	No	2,912
1	Ditto with cover ref N 8834SR	No	7,560
2	Cupboard catch Ref 5174	No	1,512
3	Kicking plate 800 x 150 ref UA369	No	1,456
4	Finger plate 300 x 75	No.	1,064
5	Hat and coat Hook ref 887	No.	320
7	Rebate plate ref 2979AS	No.	1,792
9	Flush bolt 200mm Satin nickel FB - 200SN	No.	840
10	Round aluminium door stopper - DS-R1 AS- floor mounted	No.	293
11	Door handles		
B	100 mm aluminium D pull handle	No	49
1	Brass drawer pull handle	No	84
2	Ditto ornamental cupboard handle	No	562
3	Georgian brass lever furniture	No	1,380
4	<b><u>ERA SECURITY PRODUCTS</u></b>		
C	180 Degrees brass door viewer	No	1,194
1	Brass security chain	No	772
2	White sliding window lock Ref; 824 - 12	No	678
3	Key operated satin window locking catch Ref; 100 - 42	No	1,474
4	Security bolt with set of one keys ref 838 - 33	No	2,036
5	60 mm brass night catch ref; 163.31 (163.32)	No	4,353
6	75 mm brass Euroshield mortise lock Ref 352 - 31 / 752 -31	No	4,156
7	Brass rebate for endurance mortise lock Ref; 261/31	No	1,332
8			

Item	Description	Unit	CPU Rate
D	Era security products cont'd		
1	Ditto for endurance dead lock Ref; 400 - 31	No	1,332
2	Brass rebate for plate for invisible-range mortise locks Ref 402.31	No	1,545
3	Ditto for invisible-range dead lock Ref; 400 - 31	No	1,332
4	5 lever X 75 mm brass invisible-range mortise lock Ref 310 - 32	No	5,125
5	Ditto dead lock Ref 308 - 32	No	4,493
	<b><u>GLASS &amp; GLAZING TO METAL WITH PUTTY</u></b>		
A	Scotch paper (tape)		
1	3M P18 scotchtinted sun control film	SM	744
2	3M SCLARL 150 Scotch Shield safety & security film	SM	1,264
3	3M SCLARL 400 Scotch Shield safety & sun security film	SM	1,502
B	Mirrors		
1	4 mm clear mirror	SM	1,665
2	5 mm polished plate glass mirror	SM	2,103
3	6 mm ditto	SM	2,453
4	5 mm bronze mirror ditto	SM	2,752
5	600 x 450 x 6 mm thick polished plate glass mirror with bevelled and smoothed edges and drilled four times for and including fixing to plugged wall or timber with mild steel screws and dome shaped chromium plated screw covers.	No	1,264
6	5 mm polished plate glass one way mirror	SM	1,840
C	5mm thick X 150 mm wide louvre blades with polished edges clear sheet glass	LM	184
2	Obscure sheet glass	LM	207
D	Clear sheet Glass		
1	3 mm thick glass in panes 0.50 - 1.00M2	SM	614
2	4 mm thick ditto	SM	876
3	5 mm thick ditto	SM	1,139
4	6 mm thick ditto	SM	1,314
E	Obscure sheet Glass		
1	4 mm thick glazing to metal in panes 0.50 - 1.00 M2 ; Delta Clear	SM	1,403
	5 mm thick glazing to metal in panes 0.50 - 1.00 M2 ; Maya Clear	SM	1,752

Item	Description	Unit	CPU Rate
2	6 mm thick ditto glazing to metal in panes 0.50 - 1.00 M2 ; Wire Clear	SM	1,928
3	Georgian wired Glass		
F	6 mm clear	SM	7,555
1	6 mm obscured	SM	4,079
2	Bronze sheet Glass		
A	4 mm thick in panes 0.50 - 1.00 M2	SM	1,360
1	5 mm thick ditto	SM	1,813
2	6 mm thick ditto	SM	1,964
3	10 mm thick ditto	SM	6,799
4	Toughened sheet Clear Glass		
B	4 mm thick in panes 0.50 - 1.00 M2	SM	2,720
1	5 mm thick ditto	SM	2,720
2	6 mm thick ditto	SM	3,536
3	10 mm thick ditto	SM	6,044
4	<b>SOLAR GLASS</b>		
C	5 mm stopsol supersilver grey glass	SM	3,777
1	6 mm stopsol supersilver blue glass	SM	3,928
2	6 mm stopsol supersilver green glass	SM	3,928
3	6 mm pink coolite(insulated & laminated)	SM	1,058
4	Laminated glass ( .38 PVB clear )		
D	6 mm laminated glass	SM	3,475
1	8 mm laminated glass	SM	4,533
2	10 mm laminated glass	SM	5,288
3	12 mm laminated glass	SM	6,647
4	Other types of laminated glass		
E	8 mm laminated glass comprising 4 mm bronze / 4 mm clear glass	SM	5,137
1	10 mm laminated glass comprising 5 mm bronze / 5mm clear glass	SM	5,893
2	11 mm laminated glass comprising 5 mm clear / 6 mm pink coolite glass	SM	7,468
3			

Item	Description	Unit	CU Rate
F 1	15 mm laminated anti-bandit glass 15 mm laminated (.76PVB Clear )	SM	9,217
G 1	Laminated Bullet- Proof glass 28 mm ( .76PVB Clear )	SM	12,439
2	34 mm ( .76PVB Clear )	SM	17,617
3	40 mm ( .76PVB Clear )	SM	20,892
4	50 mm ( .76PVB Clear )	SM	27,438
	<b>FINISHES</b>		
	<b><u>WALL FINISHES</u></b>		
A 1	Extra over walling for medium chisel dressing	SM	171
2	Extra over sawn formwork for fair face	SM	47
2	15 mm thick two coat cement and sand (1:4) render	SM	266
4	12 mm thick coloured tyrolean rendering on walls	SM	236
	<b><u>CLAY FACING BRICKS FIXED IN CEMENT ADHESIVE</u></b>		
B 1	25 mm facing strip size 230 X 75 mm X 60 Units /SM	SM	860
2	Ditto curved	SM	991
3	37 mm briquettes size 150 X 75 mm X 130 Units /SM	SM	1,464
4	25 mm hand scratched bricks size 230 X 75 mm X 50 Units /SM	SM	865
5	Ditto 25mm thick	SM	748
6	Eurocon concrete tiles( various)	SM	1,404
C	Plasterwork		
1	15 mm thick two coat cement sand (1:4) plaster trowelled smooth and comprising 12 mm backing and 3 mm finishing coat.	SM	266
2	15 mm thick cement sand (1:3) backing plaster to walls to receive tiling.	SM	281
D	Wire Brushing		
1	Wirebrusing to stone walling	SM	200
E	Sandblasting		
1	Sandblasting to surfaces of concrete walls/columns or beams	SM	300

Item	Description	Unit	CPU Rate
<b><u>FLOOR FINISHES</u></b>			
A	Cement and sand (1:3) paving	SM	430
1	32 mm thick trowelled hard and smooth		
2	20 x 100 mm ditto skirting	LM	35
3	32 mm thick coloured paving screed	SM	479
4	24 mm thick paving to receive parquet tiles	SM	352
B	Granolithic paving		
1	38 mm thick (24mm c+s backing & 15mm thick grano layer)	SM	625
2	20 x 100 mm Skirting	LM	63
C	Terrazzo Paving		
1	38 mm thick (24mm c+s backing & 15mm thick terrazzo layer)	SM	845
2	20 x 100 mm Skirting	LM	85
D	Plastic dividing strips.		
1	32 x 3 mm thick plastic dividing strips.	LM	18
2	Aluminium ditto	LM	49
3	25 mm wide non slip carborundum	LM	84
<b><u>COLOURED PRECAST CONCRETE TILES FIXED IN CEMENT ADHESIVE</u></b>			
E	254x254x19 mm thick Mareba interlocking (or square) tiles	SM	649
1			
2	305x305x25 mm ditto	SM	543
3	19mm thick interlocking floral tiles size 305x305x11tiles per sm	SM	543
4	Eurocon tiles(various)	SM	1,734
F	8 mm thick parquet floor tiles ( including sanding)		
1	Blackwood fixed with bituminous adhesive	SM	1,270
2	Elgon teak	SM	1,176
2	Meru oak; Mahogany & Musharage	SM	1,396
4	Cypress	SM	1,143
G	<b><u>12 MM THICK WOOD BLOCKS</u></b>		
1	Mahogany	SM	2,591
2	Mahogany	SM	1,176
2	Blackwood centresquare	SM	2,412

Item	Description	Unit	CPU Rate
3	Cypress	SM	1,968
A	<b>CLAY TILES FIXED IN CEMENT ADHESIVE</b>		
1	150X150X20 mm thick mm floor quarry tiles	SM	965
2	200x200 ditto	SM	879
3	30 mm high 150 X 150 mm skirting/ window cills	LM	150
4	100 mm ditto	LM	145
B	<b>FLEXIBLE P.V.C. FIXED WITH CONTACT ADHESIVE (Dunlop vinyllex)</b>		
1	1.6 mm thick	SM	541
2	2.0 mm ditto	SM	624
3	2.5 mm ditto	SM	963
4	3.0 mm ditto	SM	1,331
C	<b>TERRAZZO TILES FIXED IN CEMENT ADHESIVE (Manson Hart (K))</b>		
1	20 mm thick white "MC6" square tiles size 300 X 300 mm X 11.11 Unit / SM (also Red&Yellow)	SM	2,637
2	Ditto; Green	SM	2,748
3	12 mm thick white hexagonal tiles size 210 X 210 mm X 26 Units / SM	SM	2,139
4	12 mm thick white REM MC3 square tiles size 210 X 200 mm X 25 Unit /SM (also Red&Yellow)-REM MC11	SM	2,060
5	Ditto; Green	SM	2,345
6	200 X 100 X 12mm Skirting; White	LM	326
7	Ditto; Green	LM	326
D	<b>POLISHED "ATHI RIVER MINING' MARBLE FIXED IN CEMENT ADHESIVE</b>		
1	Granite Flooring 20 mm thick granite floor slabs, absolute black	SM	20,361
2	10 mm thick tiles size 300 X 300 mm-absolute black	SM	8,959
3	100 - 150 mm skirting	LM	1,896
A	Granite to walls		
1	10mm thick granite tiles size 600 X 300 mm	SM	8,503
2	20 mm thick marble tiles	SM	12,368
	150 mm high precast ciotolli borders	LM	2,706

Item	Description	Unit	CPU Rate
3	Staircase Granite		
B	300 mm wide X 20 mm thick treads with anti-slip grooves	LM	5,266
1	150 mm risers	LM	1,896
2	Counter Granite		
C	20 mm thick X 600 mm wide slabs	LM	9,408
1	<b><u>ITALIAN GRANITE FIXED IN CEMENT ADHESIVE</u></b>		
D	25 mm tiles	SM	9,127
1	Ditto slabs	SM	15,131
2	<b><u>GRANITTO TILES</u></b>		
E	25 mm thick polished "Granitto" floor tiles size 300 X 300 mm - ITALIAN	SM	2,072
1	Ditto 500x500mm polished/matt - italian	SM	2,912
2	Ditto 100 mm high skirting	LM	465
3	600x600mm " Granitto" tiles polished	SM	2,912
4	400x400mm "Granitto MOSAIC" tiles	SM	3,472
5	<b><u>WALL MASTER</u></b>		
F	Byramix micro	SM	690
1	Satin ditto	SM	872
2	Medium ditto	SM	992
3	T6	SM	918
4	T3	SM	594
5	S1	SM	381
6	<b><u>GLASS BLOCKS</u></b>		
G	190X190X80mm clear glass blocks	SM	7,545
1	Coloured ditto	SM	15,089
2	<b><u>SPANISH/ITALIAN CERAMIC FLOOR TILES</u></b>		
D	6 mm thick coloured/white plain tiles size 200 X 200 mm	SM	1,264
1	Ditto printed	SM	1,685
2	300 X 300 mm polished Italian tiles	SM	2,528
3	400 X 400 mm mosaic ditto	SM	1,825

Item	Description	Unit	CU Rate
4	300 X 300 mm step tile	SM	1,825
5	400 mm border tile	LM	1,966
6	<b><u>CERAMIC FLOOR TILES</u></b>		
A	Chinese 6 mm thick coloured/white plain tiles size 300 X 300 mm	SM	983
1	Ditto but Italian	SM	1,685
2	<b><u>CHINA/EGYPT CERAMIC WALL TILES</u></b>		
B	6 mm thick coloured/white plain tiles size 200 X 300 mm	SM	772
1	Ditto but Italian	SM	1,685
2	70x200mm border tile	SM	843
3	<b><u>"SAJ" CERAMIC FLOOR TILES</u></b>		
C	6 mm thick coloured plain tiles size 330 x 330 mm	SM	943
1	<b><u>"SAJ" CERAMIC WALL TILES</u></b>		
D	6 mm thick white tiles size 150 x 150 mm	SM	578
1	Ditto 200x200mm	SM	719
2	Ditto 150x150mm (plain & pastel) coloured	SM	772
3	Ditto 200x250mm coloured	SM	887
4	200 X 25mm border tile (Ref 8019 to 8024)	LM	1,018
5	<b><u>CEILING FINISHES</u></b>		
	Plaster		
A	15 mm thick two coat cement lime sand (1:4) plaster trowelled smooth and comprising 12 mm backing and 3 mm finishing coat.	SM	281
	12 mm thick celotex softboard		
B	Imported soft board	SM	467
1	Ditto local	SM	346
2	Cornice		
E	12 x 100 mm celotex cornice	LM	120
1	25 X 75 mm wrot cypress covetto moulded cornice plugged	LM	100
2	25 mm thick T&g ceiling		
B	25 mm wrot T & G cypress boarding prime grade	SM	1,151
1	Ditto but cedar	SM	3,224
2			



Item	Description	Unit	CPU Rate
	<b><u>ACOUSTIC CEILINGS</u></b>		
F	"Hunter Douglas" suspended aluminium ceilings comprising V-carriers, panels suspension hangers, flush jointing and trap doors. Matt finish	SM	1,966
1			
	<b><u>PAINTING AND DECORATING</u></b>		
	<b><u>PREPARE AND APPLY ONE PRIMER COAT TO WOOD SURFACES</u></b>		
A	Aluminium for hardwoods.	SM	91
1			
	Pink & white primer for soft wood	SM	75
2			
	Marine aluminium wood primer	SM	
3			
	<b><u>PREPARE AND APPLY ONE PRIMER COAT TO METAL SURFACES</u></b>		
B	Red lead /Red oxide metal primer-glossy	SM	77
1			
	Chrolinated rubber / Zinc Rich primer	SM	147
2			
	Two pack Epoxy Zinc Rich primer	SM	314
3			
	<b><u>FIRST GRADE PLASTIC EMULSION PAINT TO PLASTERED WALLS AND CEILINGS</u></b>		
C	Plastic distemper	SM	59
1			
	Vinyl matt/Nu-plastic	SM	209
1			
	Vinyl silk / wall sheen emulsion	SM	222
2			
	Fungicidal emulsion (matt)	SM	160
3			
	Fungicidal emulsion (vinyl)	SM	
4			
	Permaplast long lasting exterior paint/weatherguard	SM	241
5			
	<b><u>FIRST GRADE OIL PAINT TO PLASTERED WALLS AND CEILINGS</u></b>		
D	Vesta Gloss /trade high	SM	211
1			
	Super gloss	SM	245
2			
	Masonry paint (Oil Based)	SM	340
3			
	Chrolinated rubber (standard shades)	SM	287
3			
	Two Pack - Epoxy Enamel	SM	526
4			

Item	Description	Unit	CPU Rate
	<b><u>PREPARE AND APPLY ONE UNDERCOAT TWO FINISHING COATS FIRST GRADE VARNISH TO WOOD SURFACES</u></b>		
E			
1	2 - pack polyurethaneH/B varnish	SM	512
2	Polyurethane Clear varnish - gloss	SM	264
3	Polyurethane Clear varnish - matt	SM	281
4	Oil varnish stain - 6 shades ( light-oak; mahogany; mid-oak; satinwood; walnut; dark-oak etc)	SM	198
	<b><u>PREPARE AND APPLY ONE UNDERCOAT AND TWO FINISHING COATS FIRST GRADE ALUMINIUM AND BITUMINOUS PAINTS</u></b>		
A			
1	Aluminium paint	SM	415
2	Aluminium heat resisting (upto 200 C) paint	SM	477
3	Bituminous/ Aluminium paint	SM	353
4	Black bituminous paint	SM	170
	<b><u>PREPARE AND APPLY ONE UNDERCOAT TWO FINISHING COATS FIRST GRADE LONG - LASTING ROAD MARKING PAINT</u></b>		
B			
1	Yellow	SM	353
2	White or Black	SM	327
	<b><u>PREPARE AND APPLY ONE UNDERCOAT TWO FINISHING COATS FIRST GRADE ROOF &amp; FLOOR PAINTS</u></b>		
C			
1	Self Priming green oxide roofshield	SM	404
2	Ditto - Red	SM	329
3	Roofdec (for asphalt and bitumen coated roofs)	SM	252
4	Green & Others two pack epoxy floor paint	SM	118
	<b><u>PAINTING AND DECORATING</u></b>		
	As per "Dura coat" first quality paint		
	<b><u>PREPARE AND APPLY ONE PRIMER COAT TO WOOD SURFACES</u></b>		
A			
1	Aluminium for hardwoods.	SM	70
2	Pink & white primer for soft wood	SM	61
	<b><u>PREPARE AND APPLY ONE PRIMER COAT TO METAL SURFACES</u></b>		
B			
1	Red oxide zinc chromate primer	SM	58
2	Red oxide primer	SM	51

Item	Description	Unit	CPU Rate
3	Zinc chromate primer	SM	65
3	Zinc phosphate primer	SM	68
C	<b><u>PREPARE AND APPLY ONE UNDERCOAT &amp; TWO FINISHING COATS FIRST GRADE PLASTIC EMULSION PAINT</u></b>		
1	Plastic distemper	SM	46
1	Vinyl matt emulsion	SM	144
1	Vinyl silk emulsion	SM	154
2	Fungicidal emulsion (matt)	SM	154
3	Fungicidal emulsion (vinyl)	SM	159
4	Duraplast long lasting exterior paint	SM	166
5	<b><u>PREPARE AND APPLY ONE UNDERCOAT TWO FINISHING COATS GLOSS OIL PAINT</u></b>		
D	Super gloss enamel (1st quality)	SM	184
1	<b><u>PREPARE AND APPLY ONE UNDERCOAT TWO FINISHING COATS FIRST GRADE VARNISHES AND FINISHES TO WOOD SURFACES</u></b>		
E	Polyurathene wood seal (gloss 6 shades)	SM	228
1	Polyurathene wood seal (matt 6 shades)	SM	245
1	Clear varnish stain - 6 shades ( light-oak; mahogany; mid-oak; satinwood; walnut; dark-oak etc)	SM	171
2	Polyurathene two pack clear	SM	416
1	<b><u>PREPARE AND APPLY ONE UNDERCOAT AND TWO FINISHING COATS FIRST GRADE ALUMINIUM , BITUMINOUS &amp; CHROLINATED PAINTS</u></b>		
A	Silver aluminium (leafing) paint	SM	321
1	Bituminous composition paints for water tanks	SM	131
2	Bituminous/ Aluminium paint	SM	274
3	Chrolinated rubber paint (standard shades)	SM	371
4	<b><u>PREPARE AND APPLY ONE UNDERCOAT TWO FINISHING COATS FIRST GRADE LONG - LASTING ROAD MARKING PAINT</u></b>		
B	Yellow & red	SM	297
1	White or Black	SM	274
2			

Item	Description	Unit	CPU Rate
	<b>PREPARE AND APPLY ONE UNDERCOAT TWO FINISHING COATS</b>		
	<b>FIRST GRADE ROOF &amp; FLOOR PAINTS</b>		
C	Roof paint - green	SM	257
1	Ditto - Red	SM	210
2	Ditto - blue	SM	257
2	Green & Others two pack epoxy floor paint	SM	243
3	Ditto - red	SM	211
4			
	<b><u>DURACOAT ROYALE RANGE</u></b>		
	<b><u>PREPARE AND APPLY 3 COATS OF DURACOAT ROYALE RANGE</u></b>		
A			
1	Duracoat royale 100% pure acrylic outdoor protector (10yr guarantee)	SM	218
2	Duracoat royale classic matt emulsion	SM	190
3	Duracoat royale solid matt emulsion	SM	118
4	Duracoat royale soft satin emulsion	SM	202
5	Duracoat royale vinyl silk sheen emulsion	SM	202
6	Duracoat royale sunproof 100% pure acrylic emulsion roof paint	SM	372
7	Duracoat royale high build super-gloss enamel	SM	229
8	Duracoat royale all purpose undercoat	SM	201
	<b><u>PATS DECO AS "DURACOAT"</u></b>		
B			
1	Les patines in 3 effects (cloud, granite and suede effect)	SM	
1	Base coat (1sm requires 290ML)	SM	368
2	Topcoat (1sm requires 110ML)	SM	336
	Les patines (both base and topcoat)	SM	
2	Les traditionnel	SM	
1	Sealer(1sm requires 3.5kg)	SM	767
2	Wax (1sm requires 0.16sm)	SM	225
	Les traditionnel (both sealer and wax)		
3	Les stucs	SM	
1	Stucs(1sm requires 1kg)	SM	1,699

Item	Description	Unit	CPU Rate
	<b><u>REAL ROC AS " DURACOAT"</u></b>		
C	Real roc stone finish	SM	892
1	Real roc 1mm textured finish	SM	635
2	Real roc 2mm textured finish	SM	697
3	Primer(1 litre covers 10sm)	SM	25
4			
	<b><u>ELECTRICAL INSTALLATIONS</u></b>		
	Consumer Units		
A	Havells consumer unit 4 way 100A isolator	No	3,472
1	Ditto T/ wood finish	No	3,158
2	8 way 100A isolator	No	3,808
3	12 way 100A isolator	No	5,376
4			
	<b><u>ISOLATORS FOR CONSUMER UNIT/DISTRIBUTION BOARD</u></b>		
B	Havells isolator Double Pole 100A	No	952
1	Ditto Four Pole 125A	No	5,824
2	Ditto TP 125A	No	4,536
3			
	<b><u>ISOLATOR SWITCHES</u></b>		
C	Havells isolator Switch TPN 32A ENCL.	No	3,416
1	Ditto 63A	No	5,253
2	Ditto 100A	No	7,448
3	Ditto 200A	No	13,216
4			
	<b><u>DISTRIBUTION BOARDS</u></b>		
D	Havells distribution board TPN 125A 4 way	No	9,968
1	8 Way Ditto	No	11,480
2	12 Way ditto	No	13,160
3	Havells distribution board TPN 250A 4 way	No	25,514
4	6 Way Ditto	No	29,142
5	12 Way ditto	No	
6			
	Miniature Circuit Breakers-MCB'S		
E	<b><u>SINGLE PHASE</u></b>		
	Havells MCB SP 0.5A Breaking capacity 10KA	No	868
1	1-4A Ditto	No	868
2	6,10,16,20,32A Ditto	No	868

Item	Description	Unit	CPU Rate
3	40 & 50A Ditto	No	980
4	63A Ditto	No	980
5	<b><u>DOUBLE POLE MCB'S</u></b>		
F	Havells MCB DP16,20,32,63A Breaking capacity 10KA	No	1,002
1	<b><u>THREE PHASE MCB'S</u></b>		
A	Havells MCB TP 6,10,16,20,32A Breaking capacity 10KA	No	2,912
1	40&50A Ditto	No	2,912
2	63A Ditto	No	2,912
3	<b><u>MCCB'S</u></b>		
B	Havells MCCB 3P GN Frame 63 &100A Breaking capacity 16KA	No	11,144
1	125A Ditto	No	7,168
2	Havells MCCB 3P AA Frame 63 &100A Breaking capacity 16KA	No	11,144
3	<b><u>ELECTRIC CABLES</u></b>		
	<b><u>P.V.C INSULATED 450/750V -SINGLE CORE 6491X</u></b>		
C	1.0 mm2	LM	35
1	1.5 mm2	LM	41
2	2.5 mm2	LM	54
3	4.0 mm2	LM	72
4	6.0 mm2	LM	96
5	10 mm2	LM	159
6	16 mm2	LM	243
7	25 mm2	LM	367
8	35 mm2	LM	530
9	50 mm2	LM	699
10	70 mm2	LM	987
11	95 mm2	LM	1,353
12	120 mm2	LM	1,688
13			

Item	Description	Unit	CPU Rate
	<b><u>P.V.C INSULATED &amp; SHEATHED 600/1000V -SINGLE CORE 6181Y</u></b>		
D 1	1.0 mm2	LM	30
2	1.5 mm2	LM	38
3	2.5 mm2	LM	57
	<b><u>P.V.C INSULATED &amp; SHEATHED 300/500V TWIN FLAT 6192Y</u></b>		
A 1	1.0 mm2	LM	44
2	1.5 mm2	LM	58
3	2.5 mm2	LM	109
4	4.0 mm2	LM	150
	<b>FLEXIBLES</b>		
	<b>P.V.C INSULATED &amp; SHEATHED FLEXIBLES CORDS ;UPTO 1MM2</b>		
	<b>300/500V ;ABOVE 1.5MM2 450/750V-2 CORE 3182Y</b>		
B 1	0.5 mm2	LM	46
2	0.75 mm2	LM	58
3	1.0 mm2	LM	63
4	1.5 mm2	LM	87
5	2.5 mm2	LM	122
6	4.0 mm2	LM	181
7	6.0 mm2	LM	224
	10.0 mm2	LM	359
8	<b><u>P.V.C INSULATED &amp; SHEATHED FLEXIBLES CORDS ;UPTO 1MM2</u></b>		
	<b>300/500V ;ABOVE 1.5MM2 450/750V-3 CORE 3183Y</b>		
C 1	0.5 mm2	LM	65
2	0.75 mm2	LM	80
3	1.0 mm2	LM	92
4	1.5 mm2	LM	109
5	2.5 mm2	LM	161
6	4.0 mm2	LM	235
7	6.0 mm2	LM	333
	10.0 mm2	LM	526
8	<b><u>P.V.C INSULATED &amp; SHEATHED FLEXIBLES CORDS ;UPTO 1MM2</u></b>		
	<b>300/500V ;ABOVE 1.5MM2 450/750V-4 CORE 3184Y</b>		
D 1	0.5 mm2	LM	70
	0.75 mm2	LM	94

Item	Description	Unit	CPU Rate
2	1.0 mm2	LM	104
3	1.5 mm2	LM	123
4	2.5 mm2	LM	190
5	4.0 mm2	LM	289
6	6.0 mm2	LM	416
7	10.0 mm2	LM	665
8	16.0 mm2	LM	1,035
9	<b><u>P.V.C INSULATED &amp; SHEATHED FLEXIBLES CORDS ;UPTO 1MM2</u></b>		
A	<b><u>300/500V ;ABOVE 1.5MM2 450/750V-5 CORE 3185Y</u></b>		
1	1.0 mm2	LM	158
2	1.5 mm2	LM	205
3	2.5 mm2	LM	310
4	4.0 mm2	LM	497
5	6.0 mm2	LM	712
6	10.0 mm2	LM	1,136
B	<b><u>P.V.C INSULATED &amp; SHEATHED FLEXIBLES CORDS ;UPTO 1MM2</u></b>		
	<b><u>300/500V ;ABOVE 1.5MM2 450/750V-7 CORE 3187Y</u></b>		
1	1.0 mm2	LM	198
2	1.5 mm2	LM	301
3	2.5 mm2	LM	489
4	4.0 mm2	LM	708
C	<b><u>P.V.C INSULATED ONLY FLEXIBLES CORDS 300/500V SINGLE</u></b>		
	<b><u>CORE 2491X</u></b>		
1	0.5 mm2	LM	21
2	0.75 mm2	LM	27
3	1.0 mm2	LM	30
4	1.5 mm2	LM	34
5	2.5 mm2	LM	57
6	4.0 mm2	LM	91
	6.0 mm2	LM	138



Item	Description	Unit	CPU Rate
7	10.0 mm2	LM	191
8	16.0 mm2	LM	320
9	<b><u>P.V.C INSULATED ONLY FLEXIBLES CORDS 300/500V 2CORE TWISTED 2492X</u></b>		
D	0.5 mm2	LM	35
1	0.75 mm2	LM	45
2	1.0 mm2	LM	50
3	1.5 mm2	LM	64
4	<b><u>P.V.C INSULATED ONLY FLEXIBLES CORDS 300/500V 2CORE FLAT 2812X</u></b>		
A	0.5 mm2	LM	35
1	0.75 mm2	LM	45
2	<b><u>ARMOURED CABLES</u></b>		
	<b><u>ARMOURED CABLES 600/1000V -2 CORE 6942X</u></b>		
B	1.5 mm2	LM	121
1	2.5 mm2	LM	174
2	4.0 mm2	LM	234
3	6.0 mm2	LM	312
4	10 mm2	LM	497
5	16 mm2	LM	712
6	25 mm2	LM	979
7	35 mm2	LM	1,275
8	50 mm2	LM	1,663
9	70 mm2	LM	2,741
10	95 mm2	LM	3,603
11	120 mm2	LM	4,878
12	150 mm2	LM	5,946
13	185 mm2	LM	7,430
14	240 mm2	LM	9,884
15	300 mm2	LM	12,279
16			

Item	Description	Unit	CPU Rate
	<b>ARMoured CABLES 600/1000V -3 CORE 6943X</b>		
A			
1	1.5 mm2	LM	150
2	2.5 mm2	LM	218
3	4.0 mm2	LM	304
4	6.0 mm2	LM	429
5	10 mm2	LM	674
6	16 mm2	LM	992
7	25 mm2	LM	1,376
8	35 mm2	LM	1,821
9	50 mm2	LM	2,402
10	70 mm2	LM	3,412
11	95 mm2	LM	4,636
12	120 mm2	LM	6,493
13	150 mm2	LM	9,355
14	185 mm2	LM	11,557
15	240 mm2	LM	15,122
16	300 mm2	LM	18,728
	<b>HEAVY GAUGE PLASTIC CONDUITS LAID IN SCREED OR WALL CHASES INCLUDING ALL BOXES, BENDS, SADDLES AND ACCESSORIES</b>		
B			
1	20 mm	LM	106
2	25 mm	LM	151
3	32 mm	LM	241
4	38 mm	LM	330
	<b>5AMP. LIGHTING SWITCH, FLUSH FIXING WHITE PLASTIC EXCLUDING BOX</b>		
C			
1	One gang, one way	No	168
2	Ditto two way	No	179
3	Two gang one way	No	246
4	Two gang two way	No	269

Item	Description	Unit	CPU Rate
5	Intermediate switch	No	582
	<b><u>Low power Factor (L.P.F.) BATTEN FLUORESCENT Fittings with tube</u></b>		
A	4 ft Single x 36 watt	No	1,198
1	4 ft Twin Ditto.	No	1,758
2	5 ft Single x 58 L.P.F.	No	1,646
3	<b><u>ENERGY SAVING LAMPS</u></b>		
B	Energy saving lamp B22 8,11,15,20 &23W Havells-Pin screw	No	302
1	<b><u>SOCKETS</u></b>		
C	Satin chrome/Black Nickel 1G 13A DP Flat switch socket	No	1,366
1	Ditto 2G	No	1,876
2	<b><u>PLATE SWITCHES</u></b>		
D	Satin chrome/Black Nickel 1G 2W 10A Flatplate switch	No	946
1	Ditto 2G	No	1,310
2	Ditto 3G	No	2,206
3	Ditto 4G	No	3,214
4	Intermediate Flatplate switch	No	1,982
5	<b><u>FLATPLATE DP SWITCHES</u></b>		
E	45A DP cooker unit + neon	No	3,427
1	20A DP + Neon	No	1,579
2	<b><u>FLATPLATE BLANK PLATES</u></b>		
F	Blanking plate - single	No	571
1	Blanking plate - twin	No	821
2	<b><u>FLATPLATE SHAVER SOCKET</u></b>		
G	Flat dual volt shaver socket	No	3,942
1	<b><u>FLATPLATE TELEPHONE SOCKET</u></b>		
H	Flat telephone outlet RJ11 single	No	1,534
1	<b><u>FLATPLATE TV SOCKET</u></b>		
I	Flat TV/COAX Single socket	No	834
1	Flat TV/FM outlet diplexer	No	946
2	Flat TV/FM/SAT. outlet triplexer	No	1,585
3			

Item	Description	Unit	CPU Rate
	<b><u>FLATPLATE DATA PLATES</u></b>		
J	Flate 2 module data plate	No	1,120
1	Flate 4 module data plate	No	1,439
2	<b><u>CCTV SURVEILLANCE SYSTEM</u></b>		
	<b><u>EXTERNAL INSTALLATIONS</u></b>		
1.01	IP PTZ camera with power over ethernet, 1/4" interlaced CCD, enabling advanced remote monitoring. Features a powerful 26x optical zoom, auto focus lens and IR mode for night time conditions. Resolution up to 768 x 576 at up to 25 fps (PAL) or 704 x 480 at 30 fps (NTSC) as AXIS or equal and approved equivalent.	No	175,000
1.02	Weatherproof, protective IP camera housing complete with wall mounting brackets as AXIS or equal and approved equivalent.	No.	50,000
1.03	Weatherproof, day and night network camera, 0.65 lux, F 1.0 automatic switch between colour image during daylight conditions and monochrome during low light conditions with progressive scan and POE support as AXIS or equal and approved equivalent.	No	125,000
1.07	Programming, testing and commissioning the system	Item.	
	<b><u>INTERNAL INSTALLATIONS</u></b>		
2.01	1/3" network camera with provision for MPEG4/JPEG images at up to VGA 640 x 480 pixels and able to operate in light conditions of 1 lux, with 30 frames per second in all resolutions ranging up to 640 x 480 and in built microphone for synchronized audio , 4.0mm,F2.0, fixed iris, horizontal viewing angle: 55 degrees as AXIS or equal and approved equivalent	No	100,000
2.02	Vandal/weather-proof cast aluminium camera housing complete with wall / ceiling indoor mounting bracket with secure lid to ip 65 as AXIS or equal and approved equivalent	No	30,000
2.03	24-port – EN, Fast EN, Gigabit EN – 10 Base –T , 100 Base TX, 1000Base-T+2x10//100/100 Base-T(Uplink) + 4SFP(empty)-plug-in module, POE.	No.	180,000
2.06	Programming, testing and commissioning the system		
	<b><u>SCHEDULE NO. 3 CONTROL ROOM</u></b>		
3	Supply and Install the following:-		
3.01	Dual core 64-bit server for CCTV Surveillance system complete with all necessary hardware	No	250,000
3.02	PCIVGA cards, connectors port, TV/S – Video port, DVI port.	No	120,000
	IP Surveillance software for viewing and recording live video of premises with option for remote recording	Item	200,000

Item	Description	Unit	CPU Rate
3.03	16-port – EN, Fast EN, Gigabit EN – 10 Base –T , 100 Base TX, 1000Base-T+2x10//100/100 Base-T(Uplink) + 4SFP(empty)-plug-in module, POE.	No	250,000
3.04	24-port patch panel, patch cords and all the necessary accessories	No.	50,000
3.05	Programming, testing and commissioning the system	Item.	100,000
3.08	<b><u>OTHER TYPES</u></b>		
4	1/3" Digital day/night high resolution colour camera complete with Auto Iris Varifocal Lens as Visita or other equal & approved		
a	12 vdc input power OR 240 Vac		
b	Built in motion sensors		
c	On screen displays		
d			
4.01	480 TVL color PTZ camera	No.	20,000
4.02	520 TVL color PTZ camera	No.	45,000
4.03	550 TVL color PTZ camera	No.	55,000
4.04	550 Fixed (Static)Dome type Video IP colour camera.	No.	16,000
5	Camera accessories		
5.1	3.5-10.0mm glass optical lense with auto iris manual vary focal	No.	10,000
5.2	Out door Weather proof camera housing IP66 - rated.	No.	7,000
5.3	Mounting bracket		2,000
6	Digital VCR/Multiplexor with DVD writer, ethernet connectivity, minimum connectivity of 6 concurrent users via remote v iewing softwares, 4 relay outputs & 16 alarm inputs		
6.1	16 channel, 250GB HDD	No.	85,000
6.2	8 channel, 300GB HDD	No.	90,000
6.3	16 channel, 600GB HDD	No.	120,000
6.4	16 channel, 1 terrabyte HDD	No.	200,000
7	LCD or TFT panel display, HDMI input, component video/audio input, composite video/audio input, S- video/audio input, VGA input, VGA output and composite video/audio output.		
7.1	21" Monitor	No.	30,000
7.2	32" Monitor	No.	50,000
8	Cables & Conduits		
8.1	Cat 6-E, 4pair STP cables for indoor installation terminated on Net work switch on one end and in RJ-45 on the IP Camera side	LM	80
	Low loss co-axial multistride RG 59U cables for indoor installation terminated on Net work switch on one end and in RJ-45 on the IP Camera side & drawn in PVC conduits or mini trunking	LM	90

Item	Description	Unit	CPU Rate
8.2	Video grade RG 59 Co-axial cable with connectors		
8.3	75 mm single compartment Metal trunking as produced by Power Technics or an approved equivalent	LM	30
8.4	Double compartment PVC trunking	M	300
8.5	Digital multiplexor PTZ lense controller (joystick) for 3 cameras as Proline or other equal & approved	No	38,500
9	BNC connectors	No	100
10	UPS		
11	Power supply unit complete with all accessories including 7.5KVA UPS complete with Hi-Volt surge protector.	No.	400,000
11.1	42U Cabinet to house DVR & UPS	No	70,000
11.2	Rack mountable 1KVA UPS	No.	20,000
11.3	5 KVA UPS SAS / NAS storage	No.	100,000
11.4			
	<b><u>ACCESS CONTROL SYSTEM</u></b>		
	Complete with wiring, Operating Software, programming, two year on site maintenance & warranty		
	File servers, Workstations, Hosts		
A	Software - In all products, this is a deemed to be included item.		
B	Access Controllers (Control panels)		
C			
	Readers		
D	Key Pad Readers		
	Ibutton Readers		
	Biometric Readers		
	Proximity Smart Card Readers		
	Swipe card Reader		
	Magnetic Stripe Readers		
	Bar Code Readers		
	Credentials		
E	Password / Pin Number		
	ibutton		
	Proximity Smart Card		
	Smartfob RF Wireless Transmitters		
	Swipe cards		
	Magnetic Stripe Card		
	Bar Code Card		
	Card printers		
F			
	Power Supply/Battery Backup Upgrades		
G			
	Access Control On Turnstile & Vehicular Control		
H			

Item	Description	Unit	CPU Rate
A 1	File servers, Workstations, Hosts Dual Xeon 3.6GHZ 2GB SCSI SD-RAM, 256KB, 1.2 cache, 80GB HDD, with MSDE 2000 Data Base Engine server	No	120,000
2	IP IV 3.0 GHZ, 2GB SD-RAM, 256KB, 1.2 cache, 80GB HDD, 56XDVD Writer, 17" TFT screen Access control Branded desktop computer C/W S/W workstation	No	40,000
	Software, 250 accounts with support agreement		
B 1	Software module for access control integrated with the Building management Software & latest Windows OS (Compatibility required)	No	50,000
C1 1	Access Controllers Cansec's CanLan TCP/IP controller	No	50,000
2	Ditto Naestro Access Control	No	70,000
3	Keri NXT Controller	No	55,000
4	Keri PXL-500 Tiger II Controller	No	68,000
5	The CMOS camera is a module that is factory installed into the ACTAtek. With this module, that ACTAtek takes a snapshot anytime someone attempts to enter the area/facility. The subsequent photo is then stored with the event record inside the ACTAtek and viewed via a web browser.	No	51,000
6	The ACTAtek LogiPrint Remote Registration allows users to be registered at a computer workstation rather than at an ACTAtek unit. Included with this device is the ACTAtek Server software package which allows for this remote registration as well as other useful functionality.	No	77,000
7	The Secure External Relay, or SER, places a relay in the secured area of the facility. This relay The ACTAtek then sends an encrypted signal to the relay telling it to open the door. This device prevents an intruder from manually bypassing the system.	No	46,000
	Access Controllers - Stand alone complete units		
C2 1	The T3512 is a one door Smart Card Access Control system that has everything you need for controlling access through a single door. It comprises a T3511 controller, WinACnet PC software, magnetic door release, push button, break glass and 10 Smart Cards.	No	235,373
	A complete "Smart Card" Time and Attendance System comprising (uses proximity reading technology):		
	* T32xx Smart Card clocking station		
	* 25 Smart Cards	No	473,048
	* Software including all the features to manage time and attendance recording for up to 50 people. The badge will read through your wallet or purse in ¼ second (up to 15 times faster than swipe systems and more reliable).		

Item	Description	Unit	CPU Rate
2	Net2 networked access control system. - Each control unit is part of a network but can run independently making its own decisions and remembering events. with 2A PSU in metal cabinet	No	153,504
3	Keyscan CA 4000 Access Control Unit Security Products	No	406,274
4	CA 8000 Access Control Unit, (8 Reader/Door Control Unit, Supports 8 Card Readers/Keypads)	No	686,419
5	Keyscan HID5365-Slimline Prox Reader Security Products	No	49,121
6	Others - Access Controllers		
C3	300Kg-force magnetic door lock	No	19,000
1	800mm wide X 18 Zone display low noise, fast auto (50persons/min) walk through metal detector	No	#####
2	Intrusion detectorsable wired to main security panel through keyboards & able to run for 72 hr after power failure	No	#####
3	Remote keypad for arming/disarming C/W sabling	No	10,000
4	Break glass emergency evacuation override	No	10,000
5	Panic Button & Associated Wiring	No	10,000
6	Readers		
D	Cansec's Canprox Proximity card reader	No	30,000
1			
2	CanProx One Dual technology Smartfob RF Wireless Receiver Reader		
3	Cansec's WEK200 Wiegand Emulating 26 Bit) Keypad Reader	No	22,500
4	Biometric fingerprint reader	No	65,000
	Card printers & laminators		
F	Double sided full colour printer complete with in-built security watermark, security encoding & stationary, 50 Card Feeder Hopper/Output	No	800,000
1			
2	Zebra Color Plastic ID Card Printers P330i, Thermal transfer, USB interface, HICO Mag stripe encoder,	No	869,856
3	Ditto 110i		870,112
4	Zebra Color Plastic ID Card Printers P330i, Thermal transfer, USB interface, HICO Mag stripe encoder,	No	639,600
	Polyester overlaminatewith custom hologram logo as described	No	



Item	Description	Unit	CPU Rate
5	Smart card equipment printer as laserjet	No	120,000
6	Credentials		
E	Keyscan HIDT1345-Keyscan 36 bit HID Key Fob Security Products		90,567
1	Cansec's RT 100 ibutton		
2	PKT-10X Proximity Key Tag	No	19,000
3	Phillips Mifare Smart Cards are proximity based smart cards. The card is both read and written to through an antenna embedded in the card. To use the card, a user simply places the card near to keypad of the ACTAtek Biometric Access Control Unit.		
4	5 pack Mifare Smart Cards (blank)	No	6,396
a	25 pack Mifare Smart Cards (blank)	No	25,584
b	100 pack Mifare Smart Cards (blank)	No	89,544
c	500 pack Mifare Smart Cards (blank)	No	351,780
d	1000 pack Mifare Smart Cards (blank)	No	511,680
e	Mifare Key Fobs (black)		
5	5 pack Mifare Key Fobs (black)	No	10,234
a	25 pack Mifare Key Fobs (black)	No	44,772
b	100 pack Mifare Key Fobs (black)	No	127,920
c	500 pack Mifare Key Fobs (black)	No	409,344
d	1000 pack Mifare Key Fobs (black)	No	639,600
e	Anti-passback Proximity/smart card customized with company logo, user photos & HRM IDs as MT-10X Multi Technology or other equal & approved	No	2,000
6	CanProx One Dual technology Smartfob RF Wireless Transmitters	No	2,000
7	Magnetc Stripe Card	No	1,500
8	Bar Code Card	No	1,500
9	Two door controller card	No	15,000
10	Proximity card reader with Pin-pad	No	15,000
11	Power Supply/Battery Backup Upgrades		
G	Altronix 2.5amp Fused Power Supply and Enclosure		45,795
1	Altronix 4amp Fused Power Supply and Enclosure		50,912
a	Altronix 6amp Fused Power Supply and Enclosure		76,496
b	12VDC 7Ah Backup Battery for Power Supplies		89,288
c	Sturdy door exit button/switch	No	1,500
2	Access control door power supply module C/W batteries & 26 bit wiegand output	No	100,000
3	12 Core/1.5 sq mm Wiring access control system	LM	350
4	1 KVA UPS	No	25,000

Item	Description	Unit	CPU Rate
5	<b><u>ACCESS CONTROL ON TURNSTILE &amp; VEHICULAR CONTROL</u></b>		
H	Proximity Card Reader - IN	No	30,000
1	Proximity Card Reader - OUT	No	30,000
2	Standalone gate access control C/W Remote transmitter as Assa Abloy	No	125,000
3	2 leaf sliding Controlled electric gate ditto	No	135,000
4	Tristile OE/Bi Directional fail safe complete with stainless steel lid & drop arm option	No	125,000
5	Access control integration of Circuit Boards	No	85,000
6	Console for remote control	No	50,000
7	Hand held programmer	No	20,000
8			
	<b><u>PLUMBING &amp; DRAINAGE</u></b>		
	<b><u>SANITARY FITTINGS</u></b>		
	150 X 150 mm semi recessed bathroom accessories		
A			
1	C.P. wall mounted toilet roll holder	No	2,296
2	C.P. wall mounted Soap holder	No	2,296
3	C.P.wall mounted 600mm Towel rail	No	1,512
4	Ceramic Robe hook Ref:YIDELI	No	1,176
5	600mm Towel bar"shires"	No	1,816
6	Robe hook-double	No	2,845
	<b><u>CERAMIC WASH HAND BASIN COMPLETE WITH MIXER TAP, WASTE OUT-GO PLUG &amp; CHAIN</u></b>		
B			
1	Twyfords Advent washbasin and pedestal:white & coloured	No	12,449
2	" Ideal Standard Studio Range " Coloured or white washbasin and pedestal	No	13,275
3	'Debbigh Shires 2TH" wash basin wall hung with brackets,large:white	No	8,909
4	Bricon Carine range basin mixer		5,074
5	Coloured recessed "UAE" WHB with CP "Mizzo" fittings		13,860
	Low level ceramic cistern & fittings		5,125

Item	Description	Unit	CPU Rate
5	<b>CERAMIC WATER CLOSET SUITE COMPRISING PAN, HEAVY DUTY PLASTIC SEAT &amp; COVER, CERAMIC CISTERN, FLUSH PIPE, "P" or "S" TRAP</b>		
C	White "Twyfords" Classic low level WCsuite	No	22,186
1	Ditto Visita Range coloured or white	No	10,096
2	White "Ideal Standard Studio Suite"	No	40,020
3	Nova Cloak room suite consisting of WC pan,ceramic cistern ,seat and cover, washbasin and pedestal	No	10,096
4	Wc pan squatting Twyford	No	18,957
5	RAK squatting WC pan	No	5,617
6	Bidets		
D	"Twyfords Advent ITH" bidet:coloured	No	15,446
1	"Imex (European) bidet	No	7,989
2			
	<b><u>CONCRETE SINKS EXCLUDING FITTINGS</u></b>		
B	410 X 510 X 610 mm Grano dhobi sink	No	2,106
1			
	<b><u>STAINLESS STEEL SINKS EXCLUDING FITTINGS</u></b>		
E	406 mm diameter round sink	No	7,723
1			
	1000 X 500 mm single bowl single drain ditto	No	12,076
2			
	1450 X 520 mm SB DD ditto	No	17,974
3			
	200 X 500 mm DB DD ditto	No	22,186
4			
	<b><u>BATH TUBS AND SHOWER CUBICLES</u></b>		
A	Acrylic bath tubs, Slip resistant		
	Duravit Acrylic Non-slip Bath tub with hand grips. (1700x700mm); Coloured	No	21,594
1			
	Nova Stainless steel bathtub 1700x700mm	No	16,874
2			
	Yideli shower enclosure 900x900x1800mm	No	29,264
3			
	Duravit cascade corner bath tub 1400x1400mm	No	38,704
4			
	Delux acrylic bath tub 1700mm	No	21,789
5	Italian White slip resistant Ariston bath tubs with handles		
B	Standard steel bath tub	No	9,684
1			
	Luxury steel bath tub with CP handles	No	19,005
2			
	Corner/Round bath tubs, Slip resistant etc		

Item	Description	Unit	CPU Rate
C	Ideal Standard' round bath tub	No	166,446
1	Shower Cubical 1400x1400x2150mm	No	302,024
2	<b><u>URINALS</u></b>		
B	<b><u>1150 MM HIGH STAINLESS STEEL SLAB URINALS COMPLETE</u></b>		
B	<b><u>WITH FITTINGS</u></b>		
B	2 Ft	No	59,921
1	4 Ft	No	75,657
2	6 Ft	No	92,605
3	Clifton Urinals C/W ceramic cistern, sparge & flush pipes, clips, connector pipes		
C			
1	Twyford clifton urinal range of 1 consisting of:cistern, pipework for range of 1, urinal bowl, Twyford dome shape waste, Twyford urinal divider	No	38,192
2	Twyford clifton urinal range of 2 consisting of:cistern, pipework for range of 2, urinal bowl, Twyford dome shape waste, Twyford urinal divider	No	62,496
3	Twyford clifton urinal range of 3 consisting of:cistern, pipework for range of 3, urinal bowl, Twyford dome shape waste, Twyford urinal divider	No	73,136
C	<b><u>BATHROOM ACCESSORIES</u></b>		
C	<b><u>HAND DRYERS</u></b>		
1	Compact auto hand dryer 1.64KW	No	17,936
2	Auto hand dryer satin chrome 2.2KW	No	31,978
3	Auto hand dryer heavy duty 2.45KW	No	31,978
4	"Mediclinics" soap dispenser CP	No	9,558
5	C.P wall mounted toilet roll holder	No	1,416
6	C.P wall mounted single soap dish	No	1,357
7	C.P wall mounted towel bar 600mm	No	1,770
D	C.P. Cobra Mixers & Fittings		
1	Cobra Carina basin mixer with pop up waste CP	No	11,446
2	Cobra Carina overhead shower CP	No	12,980
	Mixers & Fittings		

Item	Description	Unit	CPU Rate
A	Eurobath Victorian sink mixer pillar type XVT 151 CP	No	5,664
1	Ditto wall type	No	5,664
2	19 mm 4 way concealed "Eurobath" shower set Consisting of :stop cocks,tapis shower head,spout,divertor CP	No	13,098
3			
4	19 mm "Eurobath 1TH" Basin mixer "warwick" with pop up waste CP	No	5,251
5	"Cobra Victorian 1TH" Basin mixer with pop up waste (No. Vic. 193 CP)	No	9,676
6	"Cobra Victorian 1TH" Basin mixer with pop up waste Gold Plated	No	33,866
7	Cobra Carina basin tap CP	No	3,894
8	Tapis Jeals bib cock tap CP	No	1,357
9	Tapis Jeals bib cock tap + Hose unit	No	1,357
	C.P. Bricon Mixers & Fittings		
B	Pair of 12 mm basin taps	No	2,528
1	12 mm Sink mixer with two taps	No	11,936
2	19 mm shower mixer with two taps adjustable splay and riser	No	14,042
3	19 mm bath mixer ditto with telephone shower	No	21,063
4	12 mm W.H.B. mixer with two taps	No	11,234
5	Flexible tubing with connection to fitting		
C	12 mm diameter X 300 mm long copper tubing	No	176
2	19 mm Ditto.	No	323
3	CP Basin tap per pair	No	1,937
	<b>UPVC GREY WASTE PIPE FITTINGS</b>		
A	<b>Sweep Bend</b>		
1	32 mm diameter Sweep bend Ref 201.125.91	No	974
2	40 mm diameter Sweep bend Ref 201.15.91	No	1,127
3	50 mm diameter Sweep bend Ref 201.2.135	No	1,906
B	<b>Access Bend</b>		
1	32 mm diameter access bend Ref 202.125.91	No	295
2	50 mm diameter access bend Ref 202.2.91	No	523

Item	Description	Unit	CPU Rate
C	<b>Sweep tee</b>		
1	32 mm diameter Sweep tee Ref 204.125.91	No	207
2	40 mm diameter Sweep tee Ref 204.125.91	No	230
3	50 mm diameter Sweep tee Ref 204.125.91	No	348
D	<b>Sweep Cross</b>		
1	32 mm diameter Sweep cross Ref 206..15.91	No	443
2	50 mm diameter Sweep cross Ref 206.2.91	No	614
E	<b>Socket Reducers</b>		
1	40 mm diameter level invert socket reducer Ref 206..15.125	No	136
2	50 mm diameter level invert socket reducer Ref 206..15.125	No	153
F	<b>Couplings</b>		
1	50 mm diameter coupling Ref 213.2	No	209
G	<b>Waste accessories</b>		
1	75 mm seal bottle trap with "P" outlet Ref 611.125	No	797
2	Ditto bath trap with overflow, waste, plug & chain	No	1,127
3	Slotted basin waste outlet & plug	No	1,038
	<b>UPVC SOIL FITTINGS AS "SUPREME"</b>		
H	75 mm sweep bend Ref 101.3.91/135	No	443
2	110 mm sweep bend Ref 101.4.91	No	448
3	110 mm sweep bend Ref 101.4.135	No	448
I	<b>W.C. accessories</b>		
1	110 mm W.C. connecting bend Ref 102.4.5	No	679
2	110 mm W.C. connector	No	437
J	<b>Single Branches</b>		
1	75 mm single branch Ref 104.3.92	No	531
2	Ditto Ref 104.3.135	No	625
3	110 mm single branch Ref 104.4.135	No	620
4	160 mm ditto Ref 104.6.92	No	3,044
A	<b>Double Branches</b>		
1	110 mm double branch Ref 106.4.135	No	3,039
2	Ditto Ref 106.4.92	No	3,044

Item	Description	Unit	CPU Rate
B	<b>Others</b>		
1	110 mm seal ring adaptor	No	325
2	ditto straight coupling	No	277
3	50 mm branch boss adaptor	No	266
4	160 mm socket reducer	No	271
C	<b>Vent Pipe Fittings</b>		
1	110 mm weathering apron	No	1,092
2	110 mm access cap	No	466
3	110 mm vent cowl	No	165
D	<b>LIGHT GREY uPVC WASTE PIPES</b>		Low Grade
1	36 mm diameter pipe in wall chasis	LM	23
2	43 mm diameter ditto	LM	29
3	55 mm diameter pipe in floor chasis	LM	37
4	82 mm diameter pipe fixed to wall with holder bats at 1.00 M centers	LM	70
5	110 mm diameter pipe in trenches	LM	141
	<b>Medium Grade Vent Pipe &amp; Fittings</b>		
1	82 mm diameter pipe fixed to wall with holder bats at 1.00 M centers	LM	89
2	100 mm weathering apron	No	491
3	100 mm access cap	No	309
4	100 mm vent cowl	No	253
F	<b>BELOW GROUND UPVC DRAINAGE PIPES (GOLDEN BROWN)</b>		Low Grade
1	110 mm diameter pipe in trenches	LM	199
2	160 mm diameter pipe in trenches	LM	375
2	200 mm diameter pipe in trenches	LM	843
	<b>CLASS 41 GOLDEN BROWN AS "POLYPIPES LTD" (6LM)</b>		
1	110 mm diameter pipe in trenches	LM	225
2	160 mm diameter pipe in trenches	LM	466
3	200 mm diameter pipe in trenches	LM	670
4	250 mm diameter pipe in trenches	LM	1,041

Item	Description	Unit	CPU Rate
	5 280 mm diameter pipe in trenches	LM	1,304
	6 315 mm diameter pipe in trenches	LM	1,644
	<b>UPVC UNDERGROUND DRAINAGE PIPE FITTINGS AS "SUPREME"</b>		
	<b>Junctions</b>		
B	1 110 mm junction Ref 1804.4.45/87	No	527
	2 160 mm junction Ref 1804.6.45	No	2,106
	<b>Bends</b>		
C	1 110 mm long radius bend Ref 1805.4.87	No	463
	2 Ditto spigot/socketted bend Ref 1807.4.45	No	463
	<b>Caps</b>		
D	1 110 mm access cap.	No	442
	2 160 mm diameter ditto	No	828
	<b>Traps</b>		
E	1 110 mm "P" trap Ref 1849.4	No	1,656
	<b><u>GALVANISED C.W.S. TANKS WITH COVER AND FIXING TO ROOF</u></b>		
	10 Gauge welded		
A	1 800 Gallon size 2400 X 1200 X 1200 mm	No	56,329
	2 1000 Gallon size 2400 X 1500 X 1200 mm	No	64,658
	14 Gauge welded		
B	1 400 Gallon size 1200 X 1200 X 1200 mm	No	24,673
	2 500 Gallon size 1200 X 1500 X 1200 mm	No	30,221
	16 Gauge welded		
C	1 25 Gallon size 600 X 300 X 600 mm	No	3,741
	2 50 Gallon size 600 X 600 X 600 mm	No	4,829
	3 75 Gallon size 900 X 600 X 600 mm	No	6,125
	4 100 Gallon size 1200 X 600 X 600 mm	No	7,673
	5 150 Gallon size 1200 X 900 X 600 mm	No	9,978
	6 200 Gallon size 1200 X 900 X 750 mm	No	12,009
	7 300 Gallon size 1200 X 1200 X 900 mm	No	18,479



Item	Description	Unit	CPU Rate
	<b><u>24G CIRCULAR G.C.I TANKS (Dia X Ht)</u></b>		
D			
1	50 Gallon 700 X 640 mm	No	2,650
2	100 Gallon 850 X 640 mm	No	3,386
3	200 Gallon 970 X 1220 mm	No	6,791
4	300 Gallon 970 X 1520 mm	No	9,065
5	500 Gallon 1310 X 1700 mm	No	13,406
6	1000 Gallon 1820 X 1700 mm	No	19,822
7	1500 Gallon 2200 X 1700 mm	No	27,571
8	2000 Gallon 2550 X 1700 mm	No	30,965
	<b><u>uPVC CYLINDRICAL VERTICAL ( Dia x Ht )</u></b>		
A			
1	230 litres CV Model 750 X 680 mm	No	2,888
2	460 litres 950 X 830 mm	No	4,923
3	690 litres 1200 X 810 mm	No	6,789
4	920 litres 1080 X 1120 mm	No	7,577
5	1,900 litres 1300 X 1530 mm	No	16,199
6	2,300 litres 1700 X 1250 mm	No	17,915
7	5,000 litres 1670 X 2060 mm	No	43,620
8	10,000 litres 2400 X 2800 mm	No	94,079
9	16,000 litres 2580 X 3070 mm	No	212,610
10	24,000 litres giant tank 3220 X 3400 mm	No	316,695
	<b><u>uPVC RECTANGULAR LOFT TANKS WITH LIDS (Dia X Ht)</u></b>		
B			
1	230 litres 990 X 680 X 360 mm High	No	7,204
2	400 litres 1000 X 1000 X 450 mm High	No	9,617
3	460 litres 1470 X 940 X 420 mm High	No	11,580
4	690 litres 1720 X 890 X 520 mm High	No	15,106
5	920 litres 1270 X 1270 X 580 mm High	No	18,620

Item	Description	Unit	CPU Rate
	<b><u>uPVC SEPTIC TANKS</u></b>		
C			
1	1700 Litres X 1610mm diameter X 1480 mm High; 5 persons	No	48,046
2	2700 Litres X 1610mm diameter X 2000 mm High; 10 persons	No	67,093
3	3700 Litres X 1610mm diameter X 2480 mm High; 15 persons	No	100,698
4	4500 Litres X 2150mm diameter X 1900 mm High; 20 persons	No	119,014
5	6000 Litres X 2150mm diameter X 2250mm High; 30 persons	No	141,897
	<b><u>uPVC UNDER GROUND BALL SHAPED TANKS</u></b>		
A			
1	2,300 Litres X 1650mm diameter X 1900 mm High	No	35,550
2	4,600 Litres X 21100mm diameter X 2260 mm High	No	80,363
	<b><u>HOT WATER SUPPLY (As City Engineering Works (K) Ltd)</u></b>		
	S/B 14 G (2.0 mm) Hot Water Cylinder		
A			
1	10 Gallons ( S/B ) 14 G Hot Water Cylinder	No	7,757
2	20 Ditto	No	9,446
3	30 Ditto	No	11,193
4	40 Ditto	No	14,254
	D/B 14 G (2.0 mm) Hot Water Cylinder		
B			
1	30 Gallons ( D/B ) 14 G Hot Water Cylinder	No	12,280
2	40 Ditto	No	15,099
3	50 Ditto	No	17,217
4	60 Ditto	No	19,535
	D/B 10 G ( 3.0 mm) Hot Water Cylinder		
C			
1	80 Gallons	No	30,011
2	100 Ditto	No	35,990
	Emersion Heaters		
D			
1	1.5 KW Emersion Heater	No	1,348
2	2.0 KW	No	1,685
3	3.0 KW	No	2,022

Item	Description	Unit	CPU Rate
	<b><u>AQUAHEAT HOT WATER CYLINDERS C/W HEATERS &amp; INSULATION CASING</u></b>		
	With single heater		
E	5 gallons capacity with one heater.	No	16,556
1	10 Ditto	No	17,763
2	15 Ditto	No	18,957
3	20 Ditto	No	19,518
4	30 Ditto	No	21,583
5			
	<b><u>AQUAHEAT HOT WATER CYLINDERS C/W HEATERS &amp; INSULATION CASING</u></b>		
	with two heaters		26,006
A	30 Gallons capacity; gauge14 (2mm)	No	24,854
1	40 Ditto	No	28,927
2	50 Ditto	No	33,139
3	60 Ditto	No	39,528
4	80 Ditto; gauge 10 (3mm)	No	44,794
5	100 Ditto	No	32,715
6			
	<b><u>FIRE ALARM SYSTEM</u></b>		
	<b><u>FIRE ALARM CONTROL PANEL (FACP) power point comprising box completely wired in 3 X 2.5mm Sq mm SC CU Cables drawn in 25mm diameter concealed HG PVC Conduit, complete with piloted, fused, non-switched 20A DP connection unit (with neon light) and outlet plate.</u></b>	No	1,000
B			
(i)	2-zone Fire Alarm Panel flush mounted on the wall complete with 72 hour standby battery as MENVIER MF 9316	No	30,000
(ii)	Fire Alarm points wired in 3 X 2.5mm Sq heat resistant SC CU cables drawn in 20mm diameter concealed HG PVC conduits	No	780
(iii)	Manual fire alarm 'BREAK GLASS' unit as MENVIER MBG 913	No	1,800
(iv)	Smoke Detector complete with base as MENVIER MPD + MDB 700	No	3,000
(v)	Fire Alarm Bell (Sounder) 200mm diameter as MENVIER MBM 248	No	9,500
(vi)			

Item	Description	Unit	CPU Rate
	<b><u>FIRE FIGHTING EQUIPMENT</u></b>		
A 1	Water Extinguisher with CO2 propellant for class A fires 9 Litre water CO2 fire Extinguisher	No	9,099
B 1	Foam Extinguisher with CO2 propellant for class A,B fires 1 litre AFFF (Fire rating 3A & 21B) extinguisher.	No	9,801
2	1.75 litres AFF ( Fire rating 5A & 34B) extinguisher.	No	11,206
3	2 litres AFFF ( Fire Rating 8A & 34B) extinguisher.	No	11,908
4	9 litre AFFF multi purpose foam spray FE c/w cartridge and wall fixing bracket	No	18,227
C 1	Dry Powder with CO2 Propellant extinguisher for Class A B C E Fires 1 Kg. Dry powder Portable	No	6,993
2	2 Kg Dry powder Ext. Portable	No	9,801
3	4.5 Kg. Ditto	No	14,014
4	9 Kg ditto	No	21,035
5	50 Kg Dry powder extinguisher on trolley	No	98,122
D 1	CO2 gas Extinguisher for class B, C, E Fires 2 Kg. Portable Extinguisher.	No	14,014
2	5 Kg. Ditto	No	17,524
3	45 Kg. on trolley	No	123,570
	<b><u>HOSE REELS</u></b>		
	<b><u>DELIVERY HOSE</u></b>		
A 1	63 mm diameter X 23 M long ultra synthetic DELIVERY HOSE complete with couplings	No	30,949
B 1	<b><u>FIXED TYPE HOSE REELS</u></b> Fixed Type Hose reel C/W 30 mm x 19 mm tubing spray nozzle and valve. ( British )	No	30,864
2	Ditto Non British type	No	29,437
3	65 mm diameter X 30 M hose; canvas C/W couplings	No	92,101

Item	Description	Unit	CPU Rate
	<b><u>SWINGING TYPE HOSE REELS</u></b>		
C	Swinging Type Hose Reel C/W 30 M x 19 M hose, tubing, spray nozzle and valve.	No	42,098
1	Ditto Non British type	No	43,530
2			
	<b><u>BOOSTER PUMPS</u></b>		
D	"Hawig" (German ) Hobby Booster Pump C/W pressure switch, pressure tank and anti vibration hose.	No	266,798
1	PKm 65 /1 0.7 HPX 55M X 50 Litres/Min domestic 'Pedrollo" booster pump	No	9,408
2	PKm 70/1 0.8 HPX 62 M X 50 Litres/Min domestic 'Pedrollo" booster pump	No	21,063
3	PKm 100/1 1.5 HPX 80 M X 70 Litres/Min domestic 'Pedrollo" booster pump	No	54,764
4	CPm 170 1.5 HPX 38 M X 120 Litres/Min domestic 'Pedrollo" booster pump (for fire fighting)	No	57,572
5			
6	5Skm 1.0 HP; 70m max. head; 60 Litres/Min 'Pedrollo" bore hole pump	No	31,756
E	Accessories for "Pedrollo Pumps"		
1	Hydrofresh 24SF spherical water tank with pressure gauge	No	9,970
2	Eco Press - 1.1 KW electronic flow control system	No	11,989
3	Italy "Pedrollo" float switch	No	3,015
	<b><u>FIRE HYDRANT FITTINGS</u></b>		
D	Aluminium Alloy Branch pipe		
1	64 mm diameter swept cross (branch alone) head	No	4,915
E	Screw thread and landing valve to BS 5051		
1	64 mm diameter oblique screw type landing valve (Hydrant)	No	19,659
2	Flanged landing valve ditto	No	16,850
A	Aluminium Alloy Key & Bar to BS 1474 or 1490		
1	Key and bar	No	4,915
	<b><u>MISCELLANEOUS</u></b>		
B	1200 X 1200 mm Woven glass Fire blanket with 0.025 wmk thermal conductivity.	No	4,915

Item	Description	Unit	CPU Rate
1	<b>SERVICE &amp; RECHARGING EXTINGUISHERS</b>		
C	New cartriges		
1	2.2 Kg CO2 gas	No	9,970
2	150, 90, 55 and 75 GMS CO2 gas	No	2,528
D	Recharging per extinguisher		
1	CO2 extinguisher upto 4.5 KGS	NO.	843
2	CO2 Cartridge refill / Exchange	No	562
3	Dry powder chemical	No	562
4	Pressuring ( Dry Nitrogen)	No	1,264
A	<b>EXTERNAL WORKS</b>		
	<b>FENCING</b>		
1	12 1/2 Gauge X 6 strand galvanised barbed wired fencing with 2.4 M high 100 X 125 mm cranked precast concrete posts at 3.0 M centers mortised in mass concrete surround	LM	1,181
2	Extra over ditto for 100 X 100 mm precast concrete struts 2600 mm long	No	2,632
3	2.4 M high X 14 gauge chainlink complete with 12 1/2 Gauge X 6 strand galvanised barbed wired fencing with 100 X 125 mm cranked precast concrete posts at 3.0 M centers mortised in mass concrete surround	LM	1,363
B	Pre-cast concrete Fencing Posts-Cranked		
1	100 X 100 mm	LM	855
2	100 X 125 mm	LM	972
3	125 X 125 mm	LM	1,175
4	125 X 150mm	LM	1,299
C	Pre-cast concrete struts		
1	100 X 125 mm	LM	972
2	100 X 100 mm	LM	972
D	Chainlink - 18 metre rolls (3/4/5/6/7/8ft high) (As Wire Products Ltd)		
1	14 Gauge	SM	153
E	Barbed wire (As Wire Products Ltd)		
	180 M X 25 Kg X 12 1/2 G	LM	25

Item	Description	Unit	CPU Rate
1	140M X 20Kg X 12 1/2 G	LM	27
2	500 M X 25 Kg X 16 G	LM	11
3	High tensile galvanised wire 50 Kg per roll (As Khetshi Dharamshi Ltd)	LM	14
F	12 1/2 G ( 2.65 mm )	LM	15
1	16 G (2.00 mm )	LM	10
2	Soft galvanised wire 50 Kg per roll (As Wire Products Ltd)	LM	10
G	12 1/2 G ( 2.65 mm )	LM	10
1	16 G (2.00 mm )	LM	10
2	<b><u>RAZOR WIRE</u></b>		
F	450 mm diameter	LM	309
1	730 mm diameter	LM	463
2	980 mm diameter	LM	618
3	<b><u>ROADS , DRIVES &amp; FOOTPATHS</u></b>		
	<b><u>FOOTPATHS</u></b>		
G	100 mm compact murrum path	SM	300
1	100 mm bed of stone sub-base blinded to receive paving slabs	SM	150
2	25 mm thick hatari tiles in sizes 300 X 150 mm	LM	178
3	Ditto 375x150mm	LM	187
4	600 x 600 x 50 mm grey P.C. paving slabs on 50 mm bed of sand	SM	1,081
5	Road Formation & Subbase		
A	300 mm thick Grade formation in approved imported murrum.	SM	300
1	150 mm murrum or stone sub-base blinded.	SM	150
2	100 mm water - bound macadam	SM	300
3	Pre-cast concrete Paving Blocks		
B	60 mm thick medium duty ( available choice - Quad , Interlocking, Uni, Hexagonal, E-T, Diplomat, Décor, Circlestone, Lockblock etc) paving blocks with minimum strength of 45N/mm2	SM	1,076
1	Ditto with minimum strength of 45-50N/mm2	SM	1,262
2	80 mm thick heavy duty ( available patterns - Quad , Interlocking, Uni, Hexagonal, E-T, Diplomat, Décor, Circlestone, Lockblock etc) paving blocks with minimum strength of 49N/mm2	SM	1,648

Item	Description	Unit	CPU Rate
3	Tarmac		
C	25 mm bitumen double seal	SM	300
1	30 mm premix bituminous surfacing.	SM	550
2	Bituminous prime Coat Mc 30	SM	60
3	A4/K170 @ 0.5Ltrs/M2	SM	45
4	Pre-cast concrete Kerbs		
D	125 x 250 mm straight kerbs on concrete foundation ( M.O.W. Type "A" ).	LM	578
1	125 x 100 mm ditto.	LM	450
2	125 x 250 radii kerb.	LM	650
3	Circular kerbs : same as radii kerbs	LM	650
4	Pre-cast concrete Quadrants		
E	250 x 450 x 450 mm Quadrant	NO.	806
1	250 x 300 x 300 mm	NO.	422
2	<b><u>CHANNELS</u></b>		
A	125X100X900mm long	NO.	282
1	125x250mm ditto	NO.	553
2	125x100mm Radii	NO.	359
3	125x250mm Radii	NO.	682
4	Gabions (commercial galvanized wires)		
B	Mesh size 60 X 80mm; mesh wire size 2.5mm dia; salvedge wire 3.2mm dia.		
	1.0 X 1.0 X 0.5 M Gabion basket	NO.	3,089
1	1.0 X 1.0 X 1.0 M Gabion basket	NO.	3,686
2	2.0 X 1.0 X 0.5 M Gabion basket	NO.	4,718
3	2.0 X 1.0 X 1.0 M Gabion basket	NO.	5,898
4	3.0 X 1.0 X 1.0 M Gabion basket	NO.	9,478
5	1.0 X 1.0 X 0.3 M gabion mattress	NO.	2,457
6	2.0 X 1.0 X 0.3 M gabion mattress	NO.	4,213
7	2.0 X 2.0 X 0.3 M gabion mattress	NO.	8,285



Item	Description	Unit	CPU Rate
8	<b><u>ROADS &amp; DRIVES</u></b>		
	Road Gulleys		
C	150x460x915 mm trapped.	No	5,257
1	100x305x610mm untrapped	No	2,942
2	<b><u>STORM DRAINAGE</u></b>		
	3-stone pitched drain including 600 X 450 X 225mm IBD (300mm drainDia.)	LM	2,462
A	Pre-cast concrete invert block drains :-		
D	125 mm X 250mm; 150mm internal diameter	LM	503
1	190mm X 330 mm; (225mm Ditto)	LM	736
2	760mm X 355 mm; (300mm Ditto)	LM	3,127
3	225mm X 450 mm; (300mm Ditto)	LM	1,349
4	175 X 800mm shallow invert block drain (600mm overall)	LM	2,508
5	150 X 305mm ditto(450mm overall)	LM	1,158
6	Pre-cast concrete sides slabs :-		
E	75 mm thick X 230 mm wide side slabs	LM	366
1	Half round Ogee pipes:-		
A	915mm overall length 150 mm diameter	LM	404
1	230 mm ditto	LM	557
2	305 mm ditto	LM	739
3	380mm ditto	LM	1,257
4	460 mm ditto	LM	1,963
5	610 mm ditto	LM	3,291
6	760 mm ditto	LM	
7	915 mm ditto	LM	6,869
8	Pre-cast Concrete Bends (O.G Joints) :-		
B	100 mm- 45 degrees bend	No.	503
1	150 mm ditto	No.	866
2	230 mm ditto.	No.	1,533

Item	Description	Unit	CU Rate
3	305 mm ditto	No	2,005
4	100 mm ditto - 90 degrees bend	No	786
5	150 mm ditto	No	1,331
6	230 mm ditto	No	1,865
7	305 mm - 90 degree bend	No	3,457
8	Precast concrete spigoted & socketted Flexible joints pipes		
C	100 mm diameter drain pipe	LM	
1	150 mm ditto	LM	854
2	225 mm ditto	LM	1,470
3	300 mm ditto	LM	1,854
4	375 mm ditto	LM	2,619
5	450 mm ditto	LM	4,413
6	523 mm ditto	LM	5,287
7	600 mm ditto	LM	6,507
8	Precast concrete spigoted & socketted Rigid joints pipes		
A	100 mm diameter drain pipe	LM	591
1	150 mm ditto	LM	777
2	225 mm ditto	LM	1,358
3	300 mm ditto	LM	2,147
4	375 mm ditto	LM	2,630
5	450 mm ditto	LM	3,200
6	523 mm ditto	LM	4,217
7	600 mm ditto	LM	5,891
8	760 mm ditto	LM	9,703
9	825 mm ditto	LM	10,884
10	Spigot and socket bends - Rigid Joints		
B	45 degree bends		

Item	Description	Unit	CPU Rate
1	100 mm - 45 degree Spigot and socket bends	No	786
	150 mm ditto	No	1,331
2	230 mm ditto	No	1,865
3	305 mm ditto	No	3,457
4	90 degree bends		
C	100 mm - 90 degree Spigot and socket bends	No	866
1	150 mm ditto	No	1,533
2	230 mm ditto	No	2,005
3	305 mm ditto.	No	4,113
4	Precast concrete Ogee drain pipes		
D	100 mm diameter	LM	553
1	150 mm Ditto	LM	633
2	225 mm ditto	LM	1,018
3	300 mm ditto	LM	1,553
4	375 mm ditto	LM	2,217
5	450 mm ditto	LM	2,690
6	525 mm ditto	LM	3,769
7	Ogee pipes con't		
A	600 mm ditto	LM	4,898
8	760 mm ditto	LM	7,590
9	915 mm ditto	LM	9,526
10	1070 mm ditto	LM	12,245
11	1200mm ditto	LM	15,582
12	1370 mm ditto	LM	20,239
13	Pre-cast concrete Products		
	Saddles :-		
B	100 x 150 mm PCC saddle.	No	1,331
1	100 x 230 mm ditto	No	1,109
2	150 x 230 mm ditto	No	1,587

Item	Description	Unit	CU Rate
3	150 x 305 mm ditto	No	1,327
4	100 x 305 mm ditto	No	1,025
5	PCC Road marker posts :-		
C	230 x 230 x 1220 mm high	No	1,524
1	PCC meters boxes and chambers :-		
D	230 x 305 x 460 mm meter boxes	No	1,123
1	305 x 460 x 610 mm ditto	No	1,755
2	230 x 425 x 675 mm lower rings.	No	1,685
3	150 x 425 x 675 mm top rings.	No	1,685
4	150 x 380 x 385 mm S.V. covers.	No	1,545
5	<b><u>PRE-CAST R.C. MANHOLE COVER SLABS</u></b>		
E	685 mm diameter; 150mm thick	No	5,801
1	915 mm Dia. ditto	No	6,478
2	1,070 mm Dia. ditto	No	7,748
3	1,220 mm Dia. ditto.	No	14,483
4	C. I. Manhole Cover & Frame for Sewers		
	Rectangular C. I. Manhole Cover & Frame for Sewers Light Duty - Grade C		
A	300 x 300 mm Square	No	2,387
1	450 x 450 mm Square	No	3,735
2	450 x 600 mm Rectangular	No	3,735
3	450 x 600 mm rectangular - Double Seal	No	6,319
4	Medium Duty - grade B		
B	450 x 600 mm Rectangular	No	7,470
1	450 x 600 mm Rectangular - Double Seal	No	10,223
2	600 x 600 mm. Square	No	17,693
3	600 x 600 mm. Square - Double Seal	No	20,052
4	600 x 900 mm Rectangular - with solid cast iron cover	No	20,782

Item	Description	Unit	CPU Rate
5	Heavy Duty - Grade A		
C	450 x 600 mm Rectangular	No	26,343
1	450 x 600 mm Rectangular - Double Seal	No	32,240
2	600 x 600 mm Square	No	38,924
3	600 x 600 mm. Square - Double Seal	No	32,297
4	Heavy Duty Triangular C. I. Manhole Cover & Frame for Sewers		
D	Ref C31A8 - With solid cast iron cover	No	32,044
1	Ref C31B8 - With Concrete fill type Cast iron cover	No	27,915
2	Ref C31C6 - With Concrete fill type Metal Cover	No	23,787
3	Medium Duty Circular C. I. Manhole Cover & Frame for Storm water Drains		
A	500 mm diameter - with Solid Cast Iron cover	No	23,001
1	500 mm diameter - With Concrete fill type Cast iron cover	No	19,462
2	500 mm diameter - with metal cover	No	14,698
3	600 mm diameter - With solid C.I. Cover (circular base)	No	28,112
4	600 mm diameter - With solid C.I. Cover (Sauge base)	No.	32,634
5	Rectangular C. I. Gulley Frame for Open Drains		
B	Ref GFTC1 - With two triangular gulley gratings-Heavy Duty	No	10,026
1	Ref GFCI1 - 500 X 350 mm Clear opening manhole Gulley Frame with C.I. Grating	No	3,398
2	Ref GFCF2 - 500 X 350 mm Clear opening manhole Gulley Frame with concrete fill type metal Grating	No	2,897
3	Ref GFCI3 -270 X 400 mm Clear opening CI manhole Gulley Frame with CI gratings; Hinged Type.	No	3,978
4	RCGGI - Road Curb Gulley Grating of Cast iron.	No	14,080
5	STEP IRON		
C	Bitumen coated cast Iron steps	No	491
1			

Item	Description	Unit	CPU Rate
	<b>PLANT HIRE CHARGES</b>		
	Basic rates including operator & attendants, & maintenance costs but excluding transportation to site and fuel		
	Daily rates are for 8Hrs Daily		
	Construction Plant and Machinery		
A	Baby Cranes	Daily	7,475
1	Concrete mixer 9 Cu. Ft	Daily	7,475
2	Ditto; 14 Cu. Ft	Daily	16,100
3	Poker Vibrator (various sizes)	Daily	6,900
4	Dumper Machines 0.75Cu. M capacity	Daily	10,925
5	Vibrating plate compactor; 1 ton	Daily	7,475
6	Compressor machine with 3 jacks.	Daily	20,700
7	Water pump complete with engine; 10CM/Hr output	Daily	5,750
8	Power generator; 11.5KVA	Daily	12,075
9	Mobile concrete mixers	Daily	27,600
10	Steel bar bender	Daily	6,900
11	Earth Moving, Exvation and Compaction Equipment		
B	Motor grader 140G CAT	Daily	45,000
1	Ditto; 160G CAT	Daily	50,000
2	Compactor Roller ; Dynapac double drum - CC42A	Daily	25,000
3	Ditto; single drum CAD25D	Daily	27,000
4	Wheel Loader CAT 988B; 10 Ton bucket (Excavation and Digging)	Daily	27,000
5	JCB - Backhoe excavator; 2Ton	Daily	20,000
6	Blowknox (Paver)	Daily	60,000
7	Excavator - 229D CAT 2.6ton bucket	Daily	50,000
8	Tippers and Bowsers (Dry rates )		

Item	Description	Unit	CPU Rate
A	20 Tons (Mercedes model 2421)	Daily	24,000
1	25 Tons (Mercedes model 3025)	Daily	28,000
2	50 Tons (Mercedes model 2435)	Daily	48,000
3	Water bowser 7,000Ltrs.	Daily	15,000
4	Water bowser 10,000Ltrs.	Daily	17,000
5	Water bowser 20,00Ltrs.	Daily	25,000
6	Tippers and Bowsers (Dry rates )		
A	20 Tons (Mercedes model 2421)	Daily	28,320
1	25 Tons (Mercedes model 3025)	Daily	33,040
2	50 Tons (Mercedes model 2435)	Daily	56,640
3	Water bowser 7,000Ltrs.	Daily	17,700
4	Water bowser 10,000Ltrs.	Daily	20,060
5	Water bowser 20,00Ltrs.	Daily	29,500
6	Haulage (fueled) ; Based on Carrying Capacity (security risk areas not covered)		
A	7 Tons truck	KM	137
1	14 Tons truck	KM	246
2	20 Tons truck	KM	301
3	25 Tons truck	KM	342
4	30 Tons truck	KM	383
5	60 Tons low loader	KM	520
6	30 Tons ditto	KM	520
7	General construction equipment		
B	Steel Prop (1 No.)	Daily	100
1	Steel Scaffolding ( per set)	Daily	500
2	Sanding machine	Daily	5,900
3			

Item	Description	Unit	CPU Rate
	<b><u>PLANT AND EQUIPMENT ESTIMATED OUTPUT</u></b>		
	Tippers (distance 25KM, 8hr a day, within Nairobi, material density 16000Kg per CM)		
A	20 Ton payload tippers (13cm) and a wheel loader used	Trips	4
B	25 Ton payload tippers (16cm) and a wheel loader used	Trips	4
C	20 Ton payload tippers (13cm), manual loading for 0.7Hr	Trips	3
D	25 Ton payload tippers (16cm), manual loading for 0.9Hr	Trips	3
	WATER BOWSERS (distance 25KM within Nairobi with suitable pump, discharge time 0.5hr)		
E	7000Ltrs	Trips	3
F	10,000 Ltrs	Trips	3
G	20,000 Ltrs	Trips	3
	Haulage trucks (distance 25Km 8 hrs a day, within Nairobi, material density 16000 Kg/CM, load and unload time, 0.7 to 1.3 hrs)		
H	Payload 7 Ton (4.5CM)	Trips	3
G	Payload 14 Ton (9CM)	Trips	3
J	Payload 20 Ton (13CM)	Trips	3
K	Payload 25 Ton (15.5CM)	Trips	2.3
L	Payload 30 Ton (18.5CM)	Trips	2.3
M	Low loader 60 Tons	Trips	1.2
N	Low loader 40 Tons	Trips	1.2
	<b><u>PLANT AND EQUIPMENT ESTIMATED OUTPUT CON'TD</u></b>		
	Earth moving, Excavation, Compaction and paving Equipment		
A	Motor grader 140HP, 3.66M cutting blade e.g CAT 120H	Cm/Hr	2,500
B	Motor grader 180HP, 3.66M cutting blade e.g CAT 140H	Cm/Hr	3,200
C	Wheel loader 160HP, 2.5CM bucket e.g CAT 938H	Cm/Hr	160
D	Wheel loader 375HP, 5.5CM bucket e.g CAT 988B	Cm/Hr	330
E	Excavator (backhoe) 140HP, 1.0CM bucket e.g CAT 320C	Cm/Hr	70
	Excavator (backhoe) 200HP, 1.3CM bucket e.g CAT 330B	Cm/Hr	100



Item	Description	Unit	CPU Rate
F	Compactor Double drum 100HP, 10Ton (6 passes 150mm compaction, 5Km/hr ) e.g CB 534	Cm/Hr	700
G	Compactor Single drum 145HP, 10Ton (6 passes for 150mm compaction, 5Km/hr ) e.g CS 533D	Cm/Hr	700
H	Paver 120 HP e.g CAT AP - 650B, 30m/min paving and 8Km/Hr travel	ton/HR	150
J	<b>PRELIMINARIES</b>		
	SECURITY (Security Group)		
1	Security (guard per day)	month	19,720
	Ditto but with dogs	month	30,160
2	FUEL COST (AA vehicle running costs)		
	1400CC pick up	KM	6
1	2000CC	KM	9
2	3000CC	KM	10
3	P-up 4D 3000CC	KM	14
4	Truck 7 ton	KM	13
5	Ditto 9 ton	KM	17
6	WATER (Nyota Water Services, Karen)		
	Bowser capacity 10,000 litres within Nairobi	No	2,500
1	Nairobi water and sewerage company water charges		
	Construction site deposit		15,000
1	Survey charges		1,100
2	Water consumed above 60CM		
3	Formula used is $(W-60) \times 34.5 + 130$ W=water consumed in CM		
	e.g 100CM	100CM	1,510
	<b>ELECTRICITY</b>		
	KPLC Electricity Charges		
	Deposit		2,500
1	Charges per KW	KW	6

Item	Description	Unit	CPU Rate
2	LABOUR		
	Unskilled	day	200
1	Skilled	day	400
2	Semi skilled	day	400
3	Plant operators e.g excavators	day	500
4	Lorry drivers	day	500
5	<b><u>TELEPHONE</u></b>		
	<b><u>TELKOM CHARGES</u></b>		
	Local calls per 3 minutes	3 min	9
1	Trunk calls(peak)	min	12
2	Dito offpeak	min	9
3	To mobile	min	27
4	Automatic Exchanges		
	Post paid deposit	item	2,300
1	Installation	item	2,300
2	Monthly/Access	item	500
3	<b><u>SAFARICOM CHARGES</u></b>		
	Jambo tariff	min	16
1	Fixed charges	day	15
	Taifa tarriff to all(safaricom,landline and networks)	min	29
2	Tarrific tariff-peak hours	min	33
3	Off peak	min	11
4	Saasa tariff -offpeak(2.00pm-8.00pm)	min	8
5	Post paid	min	10
5	Roaming to safaricom	min	
6	Ditto to landline	min	22
7	Ditto to other networks	min	26

Item	Description	Unit	CPU Rate
7	<b><u>CELTEL CHARGES</u></b>		
	Celtel to all networks	min	28
1	<b><u>FURNITURE</u></b>		
	<b><u>TABLES/DESKS</u></b>		
	Round table size 1200 mm diameter x 720 mm as "SR012" (Staffroom)	NO	14,732
1	Office table laminated standard workstation L- shaped size 1600 x 1200 x 745 mm as "BUDGET FURNITURE LTD " Catalogue NO. SWSL or other equal and approved (small office and library)		30,000
2	Double desk pedestal size 1800 x 900 x 725 mm as "DK 001"		28,000
3	Executive workstation in laminated L-shaped desk size 1800 x 1200 x 745 mm as per Budget Furniture Ltd XWSR		32,000
4	Laminated rectangular coffee table size 1200 x 600 x 420 mm as per Fursys CSS203		19,000
5	<b><u>OFFICE DESKS</u></b>		
	Office desk size 1.2 M in cherry/beech		14,000
1	Ditto but size 1.4 M		15,500
2	Ditto but size 1.6 M		16,500
3	Ditto but size 1.8 M		17,500
4	Italian desk size 1.6 M		25,000
5	Small italian desk with keyboards		15,000
6	L- shaped desk size 1.6 M		23,000
7	<b><u>EXECUTIVE DESKS</u></b>		
	Executive desk size 2.2 M		75,000
1	Ditto but size 2 M		65,000
2	Ditto but size 1.8 M		55,000
3	Ditto but size 1.6 M		45,000
4	<b><u>COMPUTER TABLES</u></b>		
	Computer tables in cherry/beech		6,000
1	Executive computer tables		12,000

Item	Description	Unit	CPU Rate
2	<b><u>CORNER CONNECTORS</u></b>		
	Self standing connectors		15,000
1	<b><u>CREDENZAS</u></b>		
	Credenza opening/sliding		15,000
1	Local credenza		13,500
2	<b><u>WORKSTATION</u></b>		
	Local cherry workstation		35,000
1	Ditto for medium level officers		25,000
2	<b>BOOKSHELF</b>		
	Italian bookshelf		25,000
1	2 doors bookshelf		25,000
2	3 doors bookshelf		30,000
3	<b><u>SEATS/CHAIRS</u></b>		
	Fabric finished three seater sofa size 1640 x 670 x 720 mm as per Fursys CSS203		38,000
1	Ditto; 2 seater sofa size 630 x 670 x 720 mm as per Fursys CSS202		19,000
2	Principal's office leather chair three seater sofa set size 1970 x 930 x 850 mm in CSO0900 series as CS 0903 496		45,000
3	High back leather executive chair in CH 0100 series as CH 0100L096		29,382
4	Midback leather executive waiting chairs as CH 0111 I096		17,000
5	High back fabric chair in CH2300 Series as CH 2300Z		13,500
6	Conference chair without arm rests in fabric as CH 00Z		11,500
7	Visitors chair in fabric without arms as CH007Z		4,280
8	High back fabric chair as CH2300 SERIES as CH2300Z		13,500
	<b><u>SECRETARIAL CHAIRS</u></b>		
	Secretarial chairs with arms		7,500
1	Ditto but executive		10,000
2			

Item	Description	Unit	CPU Rate
	<b>VISITORS CHAIR</b>		
1	Catalina high density		3,500
2	Catalina in PVC		2,300
3	Leather with chrome		12,000
4	Leather with arms		8,000
5	Visitor in fabric with arms		3,200
	<b><u>LOW BACKS</u></b>		
1	Low back in black/grey fabric		7,000
2	Ditto other coloured fabrics		5,000
	<b>HIGH BACK/ MEDIUM BACK</b>		
1	High back in leather PVC		14,500
2	High back with wooden arms & base		30,000
3	High back in fabric		8,500
4	Executive high back in leather		40,000
	<b><u>COAT HANGERS</u></b>		
1	Coat hanger in mahogany/meru oak		3,000
2	Coat hanger with metal stand		5,000
	<b><u>FILING CABINETS</u></b>		
1	4 drawers with a security bar in steel		15,500
2	4 drawers wooden		17,500
	<b><u>PRELIMINARIES</u></b>		
	<b><u>SECURITY(Security Group)</u></b>		
A			
1	Security (guard per day)	Month	18,900
2	Ditto but with dogs	Month	35,500
3	Contracted monthly fire response service	Month	5,000
	<b><u>FUEL COST (AA vehicle running costs)</u></b>		
B			
1	1400CC pick up	KM	6
	2000CC	KM	9

Item	Description	Unit	CPU Rate
2	3000CC	KM	10
3	P-up 4D 3000CC	KM	14
4	Truck 7 ton	KM	13
5	Ditto 9 ton	KM	17
6	<b><u>WATER</u></b>		
C	Bowser capacity 8,000 litres within Nairobi	No	1,500
1	Nairobi water and sewerage company water charges Construction site deposit	Item	15,000
1	Survey charges	Item	1,100
2	Water consumed above 60CM		
4	Formula used is $(W-60) \times 34.5 + 130$ W=water consumed in CM		
5	Commercial/Industrial	CM	18
6	Government institution and schools	CM	28
	<b><u>ELECTRICITY</u></b>		
D	KPLC Electricity Charges Deposit	Item	2,500
1	Charges per KW	KW	6
2	<b><u>LABOUR</u></b>		
E	Unskilled	day	300
1	Skilled	day	800
2	Semi skilled	day	600
3	Plant operators e.g excavators	day	800
4	Lorry drivers	day	600
5	<b><u>TELEPHONE</u></b>		
	<b><u>TELKOM CHARGES</u></b>		
A	Local calls per 3 minutes	3 min	9
1	Trunk calls(peak)	min	12
2	Dito offpeak	min	9
3	To mobile	min	27
4			

Item	Description	Unit	CPU Rate
B	Automatic Exchanges		
1	Post paid deposit	item	2,300
2	Installation	item	2,300
3	Monthly/Access	item	500
A	<b><u>SAFARICOM CHARGES</u></b>		
1	Ongea tariff	min	8
2	Taifa tarriff to all(safaricom,landline and networks)	min	29
3	Tarrific tariff-peak hours	min	33
4	Off peak	min	11
5	Post paid	min	10
2	Roaming to safaricom	min	29
3	Ditto to landline	min	29
4	Ditto to other networks	min	29
D	<b><u>ZAIN CHARGES</u></b>		
	<b><u>VUKA TARIFF</u></b>		
1	Deposit	Item	4,000
2	Monthly fee	Month	350
3	Zain -Zain calls	Min	8
4	10 Zain Numbers	Min	3

