

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
	<p><u>BUILDERS WORKS</u></p> <p><u>ELEMENT NO.1</u></p> <p><u>SUBSTRUCTURES</u></p> <p><u>(ALL PROVISIONAL)</u></p> <p>NOTE; (I) All work measured under this element is up to and including the floor slab but excluding the finishes thereon.</p>				
A	Clear the site of all bush scrub undergrowth and small trees grub up roots and cart away or burn all arising (approx. area 395 sq. sm)		ITEM		
	<u>Excavations and earthworks</u>				
B	Excavate oversite average 200mm deep to remove vegetable soil load up wheel and deposit about 100metres away and later spread and level on site where directed	395	SM		
C	Bulk Excavate to reduce levels not exceeding 1.50 metres deep commencing at stripped level	540	CM		
D	Bulk Excavate to reduce levels exceeding 1.5 metres but not exceeding 3.0 metres deep commencing at reduced level	540	CM		
E	Excavate for strip foundation trenches occurring not exceeding 1.5metres deep commencing from reduced level	220	CM		
F	Ditto in Lift shaft bases	10	CM		
G	Excavate for column bases occurring not exceeding 1.5metres deep commencing from reduced level	430	CM		
H	<u>Extra over</u> excavations for excavating in rock irrespective of class; including in compacted hardcore / reinforced concrete	250	CM		
J	Allow for keeping excavations free from mud and all water including spring and running water by pumping pailing or other approved means.		ITEM		
K	Allow for planking and strutting to sides of excavations		ITEM		
	Carried to Collections				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
	<u>Disposal</u>				
A	Load surplus excavated material and cart away from site approximately 100 meters away; later cart away	780	CM		
	<u>Filling</u>				
B	Return fill and ram selected excavated material around foundations.	960	CM		
	<u>Hardcore as described</u>				
C	300mm Thick layer of imported hardcore filling including levelling and consolidating in 150mm layers	540	CM		
	<u>Blinding</u>				
D	50mm Thick Quarry dust blinding to the surface of hardcore;rolled smooth to receive polythene sheeting(m.s)	395	SM		
	<u>Insecticide treatment</u>				
E	'TERMIDOL" or other equal and approved chemical insecticide treatment prepared and applied according to the manufacturer's printed instructions.	395	SM		
	<u>Damp proof membrane</u>				
F	500 Gauge polythene or other equal and approved plastic sheet damp proof membrane laid over blinding(measured nett - allow for laps)	395	SM		
	<u>In-situ concrete work</u>				
	<u>Mass concrete (1:3:6/38-38mm aggregate)</u>				
G	50mm Thick blinding under strip foundations	145	SM		
H	50mm Thick blinding under lift shaft foundations	8	SM		
J	50mm Thick blinding under column bases	290	SM		
	Carried to Collections				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
	<u>Vibrated reinforced concrete</u> <u>(1:2:4/20-20mm aggregate) as described in:</u>				
A	Strip foundations / Ground beams	30	CM		
B	Lift shaft bases and walls	10	CM		
C	Column bases	145	CM		
D	Columns	12	CM		
E	Steps / Ramps	6	CM		
F	200 mm thick Retaining walls	0	SM		
G	150mm Thick ground floor slab	395	SM		
	<u>Steel reinforcement</u>				
	<u>Supply and fix bars reinforcement including bending, hooks, tyingwire, cutting spacers and supporting all in position as described.</u>				
	<u>High tensile square twisted bars to B.S.446:</u>				
H	8 mm Diameter	2860	KG.		
J	10 mm Diameter	3410	KG.		
K	12 mm Diameter	3920	KG.		
L	16 mm Diameter	3420	KG.		
M	20 mm Diameter	2160	KG.		
N	25 mm Diameter	3250	KG.		
	<u>Mesh reinforcement</u>				
P	Fabric mesh reinforcement to B.S. 4483 ref: A142 including laps tyingwire and spacer blocks complete(measured nett-allow for laps)	395	SM		
	<u>Sawn formwork as described to:</u>				
Q	Vertical sides of strip foundations	96	SM		
R	Vertical sides of lift shaft bases and walls	20	SM		
S	Vertical sides of Column bases	240	SM		
T	Vertical sides of Columns	180	SM		
U	Vertical sides of retaining walls	0	SM		
V	Edge of floor slab 75-150mm high	120	LM		
	Carried to Collections				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
	<p><u>Foundation walling</u></p> <p>A. 200mm Thick rough chisel dressed natural stone walling bedded and jointed in cement and sand (1:3) mortar and reinforced with and including 20swg x 25mm wide hoopiron in every alternate course</p> <p><u>Plinth area finishes</u></p> <p>B 12mm Thick cement and sand (1:3) wood float render to plinth area</p> <p>C Prepare and apply three coats black bitumastic paint to rendered area</p>	480	SM		
	<i>Carried to collection</i>	<i>below</i>			
	<p><u>COLLECTION</u></p> <p>Brought Forward from Page No. BW</p> <p>Brought Forward from Page No. BW</p> <p>Brought Forward from Page No. BW</p> <p>Brought Down from Page No. BW</p>		1 2 3 4 Above		
	<p><u>TOTAL FOR ELEMENT NO. 1</u></p> <p><u>SUBSTRUCTURES</u></p> <p><i>CARRIED TO SUMMARY</i></p>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
	<u>ELEMENT NO.2</u>				
	<u>REINFORCED CONCRETE FRAME</u>				
	<u>(ALL PROVISIONAL)</u>				
	<u>Vibrated reinforced concrete</u>				
	<u>(1:2:4/20 - 20mm aggregate) as described in:-</u>				
A.	Beam	72	CM		
B	Columns	44	CM		
C	Ramp/ steps	4	CM		
D	Staircases; generally	18	CM		
E	Concrete gutters; generally	48	CM		
F	Lift shaft walls / slabs	35	CM		
G	150 mm thick suspended slabs/ landings	1170	SM		
	<u>Steel reinforcement</u>				
	<u>Supply and fix steel bars reinforcement including</u>				
	<u>bending, hooks, tying wire, cutting, spacer blocks and</u>				
	<u>supporting all in position</u>				
	<u>High tensile square twisted bars to B.S. 4461 as</u>				
	<u>described in;</u>				
H	8 mm Diameter	5450	KG.		
J	10 mm Diameter	8670	KG.		
K	12 mm Diameter	6120	KG.		
L	16 mm Diameter	9260	KG.		
M	20 mm Diameter	4390	KG.		
N	25 mm Diameter	10810	KG.		
	<u>Sawn formwork as described to ;</u>				
P	Sides and soffits of ringbeam/beams	2820	SM		
Q	Sides of columns	1180	SM		
R	Sides and soffittes of concrete gutters	220	SM		
S	Sides and soffittes of lift walls / slabs	220	SM		
T	Staircases; generally	240	SM		
U	Soffittes of slabs / landings	1170	SM		
V	Edges of slabs / steps 75-150mm girth high	380	LM		
	<u>TOTAL FOR ELEMENT NO. 2</u>				
	<u>R.C. SUPERSTRUCTURE</u>				
	<u>CARRIED TO SUMMARY</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
	<u>ELEMENT NO. 3</u>				
	<u>WALLING (ALL PROVISIONAL)</u>				
	<u>Fine chiselled natural stone walling bedded and jointed in cement and sand (1:3) mortar and reinforced with and including 20swg x 25mm wide hoopiron; with horizontal keys externally; internally left plain ready for plaster (m.s)</u>				
A	200 mm Thick reinforced in every third course	1560	SM		
B	E. o walling for 200 x 200 mm stone piers	0	LM		
C	100 mm Thick reinforced in every third course	140	SM		
	<u>Precast concrete louvered vent Walling ; bedded and jointed in cement and sand (1:3) mortar and reinforced with and including 20swg x 25mm wide hoopiron</u>				
D	200mm Thick reinforced in every third course	0	SM		
	<u>Horizontal damp proof course ; one layer of 3 - ply bituminous felt or other equal and approved (measured nett - allow for laps)</u>				
E	200mm Wide levelled and bedded in cement and sand (1:3) mortar under walls	180	LM		
F	100 mm Wide levelled and bedded in cement and sand (1:3) mortar under walls	10	LM		
				
	<u>Precast Concrete Units</u>				
G	350 x 50 mm throated slanted precast concrete coping laid and jointed in cement and sand (1:3) mortar above walls	120	LM		
	<u>Aluminium Partitions</u>				
H	Aluminium Partitions in standard 100 x 50 mm powder coated aluminium sections complete with 25 x 25 mm bead sections, overall height 2700 mm high, infilled in laminated 25 mm thick MDF boards upto 1200 mm, 6 mm thick clear sheet glass upto 2100 mm covered in "Llumar" or equivalent translucent one way film, 6 mm thick clear sheet glass upto 2700 mm; all fitted with approved 25 mm thick rubber beads	420	SM		
	<u>Gypsum Partitions</u>				
J	100 mm thick Gypsum board drywall Partitions in 75 x 50 mm steel studs at 1200 mm centres both ways, overall height 2700 mm high, infilled in 25 mm thick gypsum boards both sides; with joints sealed in approved tape and filler ; all properly sanded smooth to receive paint (m.s)	180	SM		
	<u>TOTAL FOR ELEMENT NO. 3</u>				
	<u>WALLING</u>				
	<u>CARRIED TO SUMMARY</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
	<p style="text-align: center;"><u>ELEMENT NO. 4</u></p> <p><u>ROOFING AND RAIN WATER DISPOSAL</u></p> <p><u>(ALL PROVISIONAL)</u></p> <p><u>CONSTRUCTION</u></p> <p><u>The following in triangular steel trusses; fabricated from Standard RHS sections; including all drillings, weldings, bolts, threads, fixing plates, and joint accessories; smooth ground joints; priming and painting in 3 coats gloss oil paint; and hoisting approximately 15.00 m from ground level; Contractor to prepare shop drawings and fabrication details and have them approved by the Project Manager before fabrication:</u></p> <p>A 75 x 50 x 3 mm (5.60 Kg / Lm) RHS Wall plate on and including 10mm cement and sand (1;4) mortar bed secured to reinforced concrete ring beam (m.s) by mild steel anchor bolts and approved plates</p> <p>B 75 X 50 x 3 mm (5.60 Kg / Lm) RHS trussed rafter, Tie beams and the like</p> <p>C 50 x 50 x 3 mm (4.43 Kg / Lm) SHS Struts / ties</p> <p>D 12 mm diameter (0.888 Kg / Lm) Anti- sag rods</p> <p>E 100 x 50 x 2 mm (3.65 Kg / Lm) Z - Purlins</p>				
	Carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
	<p><u>Covering</u></p> <p><u>Approved gauge 28 IT5 roofing sheets laid onto Z - Purlins (m.s) at approved centres:</u></p>				
A	Laid in approved pattern;	480	SM		
B	Raking cutting to ditto	100	LM		
C	300mm socketed angle ridge or valley to match	80	LM		
	<p style="text-align: center;"><u>Wrot cypress</u></p>				
D	25 x 225 mm Fascia board fixed to ends of rafters (m.s)	0	LM		
	<p style="text-align: center;"><u>Sundries</u></p>				
E	12 mm Diameter x 600 mm long black mild steel anchor bolt embedded 180 mm deep in ring beam at 1200 mm cc including drilling holes in steel	40	NO		
F	100 X 100 X 6mm Thick galvanised mild steel nailing cleat once bent to form angle :ten times drilled, One flange nailed foot of rafter (m.s), other nailed to top of wall plate (m.s)	0	NO		
				
G	600 mm gauge 24 galvanized iron flashing embedded into concrete and or masonry	120	LM		
	Carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
	<u>Eaves Treatment:</u>				
A	100 X 25 mm Wrot cypress T & G boarding nailed to and including 50 x 50 mm and 75 x 50 mm framing sections sawn cypress brandering at 600mm centers both directions; complete with matching cornices	0	SM		
B	<u>Extra over</u> T&G boarding for forming removable access trap door size 750 x 750mm with 100 x 50mm sawn treated cypress trimming joists 120 x 25mm wrot cyprss frame all round and 12mm T&G removable panel set loose on top of framing	0	NO		
	<u>Approved quality Cypress cornice</u>				
C	100 x 25 mm PVC cornice	0	LM		
D	Prepare and apply three coats polyrethane clear vanish to surfaces of T & G	-	SM		
E	Extra over boarding for forming vent size 300x450mm including mosquito gauze	-	NO		
	<u>Rain Water disposal</u>				
	<u>The following in G24 Galvanised mild steel</u>				
F	150 X 150 mm Mild square box gutter fixed to fascia board with and including approved pattern brackets at 1000 mm cc	-	LM		
G	<u>Extra over</u> gutter for stopped end piece with 150 mm diameter outlet	0	NO		
H	150 diameter x 3 mm Thick cold rolled steel pipe fixed to natural stone walling with and including mild steel brackets 600mm centres	90	LM		
J	<u>Extra over</u> down pipe for 150 mm diameter swan neck wall off set	10	NO		
	Carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
A	<u>Extra over</u> down pipe for 150 mm diameter rain water shoe	10	NO		
B	<u>Extra over</u> down pipe for 150 mm diameter rain fulboras	10	NO		
	<u>Painting</u>				
	<u>Prime only back of wood before fixing</u>				
C	Surfaces 100-200mm girth	0	LM		
	<u>Knot prime stop and prepare and apply one under coat and two finishing coats of gloss oil paint to;</u>				
D	General surfaces of steel fascia 200 - 300mm girth	0	LM		
	<u>Prepare and apply one coat of calcium plumbate and two coats of gloss oil paint to :-</u>				
E	General surfaces metal	45	SM		
	<i>Carried to collection</i>				
	<u>COLLECTION</u>				
	Brought Forward from Page No. BW		7		
	Brought Forward from Page No. BW		8		
	Brought Forward from Page No. BW		9		
	Brought Down from		Above		
	<u>TOTAL FOR ELEMENT NO. 4</u>				
	<u>ROOFING AND RAINWATER DISPOSAL</u>				
	<i>CARRIED TO SUMMARY</i>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
	<p><u>ELEMENT NO. 5</u></p> <p><u>EXTERNAL WALL FINISHES</u> (ALL PROVISIONAL)</p> <p>12mm thick cement,sand render,with wood float finish , as described to:-</p> <p>A Concrete surfaces of walls, concrete columns and beams</p> <p><u>Painting and decorations</u></p> <p><u>Prepare and apply</u> <u>"Wall master" or equivalent exterior quality textured plaster; mixed and applied in accordance to the Manufacturer's printed instructions and to the approval of the Architect to :</u></p> <p>B Fair faced surfaces of walls, concrete beams and columns</p>	625	SM		
	<p><u>TOTAL FOR ELEMENT NO. 5</u> <u>EXTERNAL WALL FINISHES</u> <i>CARRIED TO SUMMARY</i></p>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
	<u>ELEMENT NO. 6</u>				
	<u>INTERNAL WALL FINISHES</u> <u>(ALL PROVISIONAL)</u>				
A	Prepare surfaces, apply 12mm thick gauged lime plaster (1:2:9) in two coats finished with steel trowel on natural stone walling and beams	1400	SM		
B	10mm Thick cement and sand (1:4) screed finished to receive glazed tiling	225	SM		
	<u>250 x 600 x 6 mm Thick coloured glazed Porcelain wall tiles jointed and pointed with matching white cement</u>				
C	Tiling on walls	225	SM		
D	Extra over tiling for 150 mm wide matching dividing strip	150	LM		
E	Sill 150mm wide with rounded edge tiles	80	LM		
F	Extra for tiles rounded one edge	80	LM		
G	Extra for tiles rounded two edges	80	NO		
	<u>Painting and decorations</u>				
	<u>Prepare and apply one undercoat and two finishing coats plastic Vinyl matt or equivalent emulsion paint on:-</u>				
H	Plastered surfaces	1400	SM		
J	Gypsum board partitions	360	SM		
	<u>TOTAL FOR ELEMENT NO. 6</u> <u>INTERNAL WALL FINISHES</u> <u>CARRIED TO SUMMARY</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
	<u>ELEMENT NO. 7</u>				
	<u>FLOOR FINISHES</u> (ALL PROVISIONAL)				
	<u>In situ cement and sand (1:3) screeded beds ,with steel trowelled finish, on concrete</u>				
A	25 mm thick screed; to receive APP membrane	150	SM		
B	Ditto 25 x 100 mm high skirting	70	LM		
	<u>In situ cement and sand (1:3) screeded beds ,with wood trowelled finish, on concrete</u>				
C	25 mm screed to receive rustic porcelain floor tiles (ms)	75	SM		
D	25 mm screed to receive porcelain floor tiles (ms)	1100	SM		
E	25 mm screed to receive floor terrazzo floor finish / including risers (ms)	0	SM		
	<u>600 x 600 x 8 mm Thick floor "Saj" or equivalent quality rustic porcelain floor tiles jointed and pointed with matching white cement</u>				
F	Tiling	75	SM		
G	Ditto 100 mm high skirting	110	LM		
	<u>600 x 600 x 8 mm Thick "Saj" or equivalent quality porcelain floor tiles jointed and pointed with matching white cement</u>				
H	Tiling	985	SM		
J	Ditto 100 mm high skirting	550	LM		
K	Textured Stair case tiles, with non - slip grooves at the edges and including risers	140	SM		
	<u>Terrazzo (1:3) with approved coloured chippings, ground and polished smooth, including approved plastic dividing strips and non slip carborandums on staircase treads and ramps:</u>				
L	15 mm thick paving in floors / risers	0	SM		
M	Ditto 100 mm high skirting	0	LM		
	<u>5 mm thick APP membrane; laid in accordance to the Manufacturer's printed instructions and to the approval of the Architect to :</u>				
N	in floors / risers	185	SM		
	<u>TOTAL FOR ELEMENT NO. 7</u>				
	<u>FLOOR FINISHES</u>				
	<i>CARRIED TO SUMMARY</i>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
	<u>ELEMENT NO. 8</u>				
	<u>CEILING FINISHES</u> (ALL PROVISIONAL)				
	<u>In situ cement sand lime (1:1:6) plaster, with steel trowelled finish, on concrete</u>				
A	12mm thick plaster trowelled smooth	1170	SM		
	<u>Chip board ceiling</u>				
B	Chipboard ceiling fixed to and including 50 x 50 mm brading and 75 x 50 mm plugged framing; all as sawn cypress spaced at 600mm centers both directions fixed with clout headed nails and set out in symmetrical panels with 'V' joints.	0	SM		
C	<u>Extra over</u> PVC ceiling for forming removable access trap door size 750 x 750mm with 100 x 50mm sawn treated cypress trimming joists 120 x 25mm wrot cypress frame all round and 12mm PVC removable panel set loose on top of framing	0	NO		
	<u>Prime grade wrot cypress timber selected and kept clean:</u>				
D	100 x 25mm cornice with two labours	0	LM		
	<u>Painting & decorations</u>				
E	Prime only back of timber before fixing surfaces not exceeding 100mm girth	0	LM		
	<u>Knot prime and stop and prepare and apply three coats first quality Vinyl matt or equivalent emulsion paint to :</u>				
F	Soffittes of plastered concrete slabs	1170	SM		
G	Chip board ceiling	0	SM		
H	Timber surfaces not exceeding 100mm girth	0	LM		
	<u>TOTAL FOR ELEMENT NO. 8</u>				
	<u>CEILING FINISHES</u>				
	<u>CARRIED TO SUMMARY</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
	<u>ELEMENT NO. 9</u>				
	<u>WINDOWS</u> <u>(ALL PROVISIONAL)</u>				
A	175 x 75 mm thick precast concrete window; weathered and throated	120	LM		
	<u>Prime grade wrot cypress</u>				
B	125 x 25mm window board with one labour.	120	LM		
C	25mm quadrant bead	120	LM		
D	Pelmet boxes in 25 x 150mm bull-nosed top, 25 x 150mm fascia with 8 labours; complete with 19 x 50mm cypress bearer plugged to wall; including ends	120	LM		
	<u>Accessories.</u>				
E	Aluminium I section curtain rail complete with brackets, rings, rollers and all other necessary accessories.	120	LM		
	<u>Painting</u>				
F	Prepare and apply three coats of gloss oil paint to timber pelmet boxes. 200 -300mm girth	120	LM		
G	Ditto window board surfaces 100 - 200mm girth	120	LM		
H	Ditto; not exceeding 100mm girth	120	LM		
	<u>Aluminium Casement Windows</u>				
	<u>Purpose made Aluminium casement windows in standard 100 x 50 mm powder coated aluminium sections complete with 25 x 25 mm bead sections, infilled in 6 mm thick one way tinted sheet glass ; all fitted with approved 25 mm thick rubber beads; complete with hinges, stays, fasteners, 50 mm high top permanent vent section with mosquito gauze and metal hood etc; assembled and fixed to opening including cutting and pinning lugs to concrete or masonry surround and bedding frame in cement and sand mortar (1:4) (Steel Burglar proofing grilles included at select areas); All to the Architect's design and approval:</u>				
J	Window Size 2000 x 2000 mm high	38	NO		
K	Window Size 1500 x 800 mm high	14	NO		
L	Window Size 2450 x 9300 mm high (in fixed panels)	2	NO		
M	Window Size 5300 x 9300 mm high (in fixed panels)	2	NO		
N	Window Size 3000 x 6300 mm high (in fixed panels)	1	NO		
	Carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
	<p><u>GLASS & GLAZING TO METAL WITH PUTTY</u></p> <p><u>Clear sheet Glass</u></p> <p>A 4 mm thick one way tinted at selected areas</p> <p><u>Obscure sheet Glass</u></p> <p>B 5 mm thick</p> <p><u>Prepare and apply two undercoats and one finishing coat gloss oil paint to</u></p> <p>C Steel window surfaces / grilles; measured generally</p> <p>Carried to collection</p> <p><u>COLLECTIONS</u></p> <p>Brought Forward from Page No. BW</p> <p>Brought Down from</p>	<p>0</p> <p>0</p> <p>115</p>	<p>SM</p> <p>SM</p> <p>SM</p> <p>15</p> <p>Above</p>		
	<p><u>TOTAL FOR ELEMENT NO. 9</u></p> <p><u>WINDOWS</u></p> <p><i>CARRIED TO SUMMARY</i></p>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
	<p><u>ELEMENT NO. 10</u></p> <p><u>DOORS</u> <u>(ALL PROVISIONAL)</u></p> <p><u>Aluminium Casement Doors</u></p> <p><u>Purpose made Aluminium casement Doors in standard 100 x 50 mm powder coated aluminium sections complete with 25 x 25 mm bead sections, infilled in 6 mm thick one way tinted sheet glass ; all fitted with approved 25 mm thick rubber beads; complete with matching hinges, 3 lever aluminium door locks, "Union" or approved heavy duty door closers, stainless steel door stops, aluminium door handles; 50 mm high top permanent vent section with mosquito gauze and metal hood etc; assembled and fixed to opening including cutting and pinning lugs to concrete or masonry surround and bedding frame in cement and sand mortar (1:4) (Steel Burglar proofing grilles included at select areas); All to the Architect's design and approval.</u></p>				
A	Door Overall size 2400 x 2400 mm high; Double leaf door	1	NO		
B	Door Overall size 1800 x 2400 mm high; Double leaf door	6	NO		
C	Door Overall size 900 x 2400 mm high; Single leaf door	19	NO		
D	<p><u>Solid Panel Mahogany doors:</u> 50 mm thick single -leaf size 900 X 2400 mm overall high with 6 No. raised panels both sides; complete with a 5 mm thick glazed fanlight top size 900 x 300 mm high</p>	11	NO		
E	50 mm thick double -leaf size 1500 X 2400 mm overall high with 12 No. raised panels both sides; complete with a 5 mm thick glazed fanlight top size 1500 x 300 mm high	0	NO		
F	<p><u>Solid core Veneered flush doors:</u> 50 mm thick single -leaf size 900 X 2400 mm overall high quality 4 mm thick veneer facing ; complete with a 5 mm thick glazed fanlight top size 900 x 300 mm high</p>	0	NO		
G	<p><u>Solid core flush doors:</u> 50 mm thick single -leaf size 900 X 2400 mm overall with high quality 4 mm thick plywood facing ; complete with a 5 mm thick glazed fanlight top size 900 x 300 mm</p>	9	NO		
H	<p><u>Semi solid core flush doors:</u> 50 mm thick single -leaf size 900 X 2400 mm overall with high quality 4 mm thick plywood facing ; complete with a 5 mm thick glazed fanlight top size 900 x 300 mm</p>	0	NO		
	Carried to Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
	<u>Door Frames</u>				
	<u>Wrot Cypress backs primed before fixing in zinc chromate wood primer:</u>				
A	150 x 50 mm Frame once rebated	0	LM		
B	150 x 50 mm transome twice rebated	0	LM		
C	45 x 25 mm architrave with one labour	0	LM		
D	25mm quadrant	0	LM		
	<u>Wrot Mahogany backs primed before fixing in zinc chromate wood primer:</u>				
E	150 x 50 mm Frame once rebated	115	LM		
F	150 x 50 mm transome twice rebated	20	LM		
G	45 x 25 mm architrave with one labour	115	LM		
H	25mm quadrant	115	LM		
	<u>Ironmongery as per "Union" or approved Catalogue</u>				
J	Three lever mortice lock complete with quality furniture	11	NO		
K	Two lever mortice lock complete with quality furniture	9	NO		
L	38mm heavy duty rubber door stop fixed with rawl bolt	20	NO		
M	100mm stainless steel butt hinges	30	Prs		
	<u>Prepare and Apply Three Coats of Gloss Oil Paint to:-</u>				
N	Steel door / grilles; general surfaces	24	SM		
P	Timber door general surfaces	40	SM		
Q	Ditto 200 to 300mm girth.	0	LM		
R	Ditto 100 to 200mm girth.	0	LM		
S	Ditto; not exceeding 100mm girth	0	LM		
	<u>Prepare and Apply Three Coats of Polyurathene varnish to:-</u>				
T	Timber door general surfaces	50	SM		
U	Ditto 200 to 300mm girth.	135	LM		
V	Ditto 100 to 200mm girth.	115	LM		
W	Ditto; not exceeding 100mm girth	115	LM		
	Carried to Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
	<u>COLLECTION</u>				
	Brought Forward from Page No. BW	17			
	Brought Forward from Page No. BW	18			
	<u>TOTAL FOR ELEMENT NO. 10</u>				
	<u>DOORS</u>				
	<i>CARRIED TO SUMMARY</i>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
	<p>ELEMENT NO. 11 <u>EXTERNAL WORKS,</u> <u>(ALL PROVISIONAL)</u></p> <p><u>Paving Slabs</u></p> <p>A 600 x 600 x 50 mm thick precast concrete paving slabs laid onto and including 50 mm thick sand bed and jointed in cement / sand (1 :4) motar; allow for all necessary excavation, carting away and spreading on site excavated material and laying 200 mm thick hardcore base</p> <p><u>Parkings / Roads Paving Blocks</u></p> <p>B 60 mm thick medium duty precast concrete interlocking paving blocks as "Cabro" or equivalent laid onto and including 50 mm thick sand bed and jointed in sand; allow for all necessary excavation, carting away and spreading on site excavated material and laying 300 mm thick hardcore base</p> <p>C 125 x 250 mm thick precast concrete road kerb irrespective of shape</p> <p>D 100 x 300 mm wide precast concrete road channels; ditto</p> <p><u>Landscaping</u></p> <p>E Dig soil to a depth of approx. 200 mm; remove roots and weeds; mix soil with imported manure to a ratio of 2:1; rake to a fine tilth; fertilise; and plant well selected Kikuyu grass; allow for all necessary care and watering till well established to the Architect's approval</p> <p>F Dig holes to a depth of approx. 600 mm; mix soil with imported manure to a ratio of 2:1; fertilise; and plant well selected Bougainvillea and other related ornamental bushes; allow for all necessary care and watering; trimming till well established to the Architect's approval</p> <p>G Dig holes to a depth of approx. 600 mm; mix soil with imported manure to a ratio of 2:1; fertilise; and plant well selected Palm and related ornamental trees; allow for all necessary care and watering; trimming till well established to the Architect's approval</p>	240	SM		
		1600	SM		
		400	LM		
		400	LM		
		150	SM		
		100	NO.		
		100	NO.		
	Carried to Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
	<p style="text-align: center;"><u>COLLECTION</u></p> <p>Brought Forward from Page No. BW</p>	20			
	<p><u>TOTAL ELEMENT NO. 11</u> <u>EXTERNAL WORKS</u> <i>CARRIED TO GRAND SUMMARY</i></p>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
	<p><u>ELEMENT NO. 12</u></p> <p><u>BALUSTRADING</u> (ALL PROVISIONAL)</p> <p><u>Stainless Steel:</u></p> <p>A Stainless steel balustrading 900 mm high overall; in 50 mm diameter x 3 mm CHS top rail; 40 x 40 x 3 mm RHS sections at 150 mm centres, both ways; All as per the Architect's design; including all the necessary welds and priming</p> <p><u>Prepare and Apply Three Coats of Gloss Oil Paint to:-</u></p> <p>B Steel balustrading general surfaces (measured generally)</p>	150	LM		
	<p><u>TOTAL FOR ELEMENT NO. 12</u></p> <p><u>BALUSTRADING</u> <i>CARRIED TO SUMMARY</i></p>	0	SM		

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
<u>BUILDERS WORKS</u>					
<u>SUMMARY</u>					
		PAGE	NO		
1	SUBSTRUCTURES	BW	4		
2	R.C SUPERSTRUCTURES	BW	5		
3	WALLING	BW	6		
4	ROOFING AND RAIN WATER DISPOSAL	BW	10		
5	EXTERNAL WALL FINISHES	BW	11		
6	INTERNAL WALL FINISHES	BW	12		
7	FLOOR FINISHES	BW	13		
8	CEILING FINISHES	BW	14		
9	WINDOWS	BW	16		
10	DOORS	BW	19		
11	EXTERNAL WORKS	BW	21		
12	BALUSTRADING	BW	22		
TOTAL FOR BUILDERS WORKS CARRIED TO GRAND SUMMARY					

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
	<p><u>PLUMBING AND DRAINAGE WORKS</u></p> <p><u>SANITARY FITTINGS</u> <u>Supply, deliver, install, test and commission the following sanitary appliances complete with all the accessories including all connections to the services, waste, jointing to water supply overflows, supports and all plugging and screwing to walls and floors:</u></p> <p>Note: (i) All sanitary fittings shall be in approved colour. (ii) The Model and Ref No. indicated is only a guide to the type and quality of fittings. (iii) Equivalent and Approved models may be acceptable.</p> <p>Water Closet (WC) Suite</p> <p>A Low level water closet suite in approved colour comprising of W.C. bowl, 'p' or 's' trap connector, heavy duty matching plastic seat and cover with metal top fixed (chrome plated) hinges. The water closet to be screwed and secured to floor or wall and complete with horizontal outlet to BS 3402 with 7.5 litre valveless ceramic cistern and fittings including siphon, 15mm diameter side inlet ball valve, 20mm diameter side overflow, plastic flush bend, inlet connection, and chrome-plated lever. As Twyfords classic or approved equivalent.</p> <p>Wash Hand Basin (WHB)</p> <p>B Wash hand basin size 510 x 420mm with one tap holes and chain stay hole, 32mm diameter chrome plated pop up chain waste, concealed wall brackets, chrome plated single tap hole basin mixer as Cobra and chrome plated bottle trap (32mm 'P' trap) with 75mm seal. The wash hand basin to be as Twyfords 'Sola 510' or equal and approved.</p>	10	No		
Total Carried to Collection Page					

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
A	<p>Two Range Urinal</p> <p>Ceramic urinal bowl complete with 2No. ceramic urinal bowl, chrome plated flush pipes, 7.5 litres ceramic cistern, 40mm heavy duty plastic bottle trap and 40mm diameter chrome plated outlet with grating firmly fixed on the wall with chrome plated screws. The fittings shall be as Twyfords or equal and approved.</p> <p>Disabled Persons Water Closet and Wash Hand Basin Facility</p> <p><u>Wheel chair accessible W. facility Comprising of the following:-</u></p> <p><u>(i) Close-coupled W.C with 7.5 litre cistern with bottom inlet and overflow. The bowl shall be of size 375 x 560 x 420mm high. The bowl and cistern shall be manufactured from vitreous china complying with B.S 3402. The unit shall be complete with valveless cistern fittings uncluding syphon, 15mm side inlet ballvalve, 3/4" side overflow, plastics flushbend, inlet connector and reversible metallic chrome plated cistern lever. There shall also be a heavy duty seat (25mm high) and cover with chrome plated metal hinges, toilet roll holder, 610 x 610 x 6mm thick mirror and robe hook.</u></p> <p><u>(ii) Semi pedestal wall mounted W.H.B of size 600 x 500 x 545mm high with flexible connectors to waste and taps. The basin shall be manufactured from vitreous china complying with B.S 3402. It shall have one L/H tap hole with 15mm chrome plated lever action pillar tap, chrome plated waste with height adjustable trap, pedestal and wall fixing bolts.</u></p> <p><u>(iii) Hinged support rail with toilet roll holder 770mm long manufactured in nylon coated aluminium and mounted on a wall fixing plate size 230 x 100mm, 4No. 600mm grab rails with covered wall plates:</u></p>	3	No		
B	<p>The set shall be as Twyfords DOC.M wheelchair accessible W.C facility or approved equivalent.</p> <p>Toilet Roll Holder</p>	3	No		
C	<p>Semi recessed toilet roll holder in Vitreous China of size 165 x 165mm in approved colour as Twyfords 9806WH or equal and approved.</p>	10	No		
Total Carried to Collection Page					

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
A	<p>Mirrors</p> <p>6mm thick polished plate glass silver backed mirror with bevelled edges, size 610 x 610mm, plugged and screwed to wall with 4No. chrome plated dome capped screws. The mirror shall rest against a layer of 5mm thick foam.</p>	10	No		
B	<p>Hand Driers</p> <p>Automatic hand drier in white colour, operating on an infra-red automatic sensing system with heating element safety cut-out complete with a 30 seconds safety timer, plastic rawl plugs and fixing screws. The hand drier to have a heating capacity of 2.1kw and performance flow rate of 135cfm (3.82m³/min) and to be of size 270x264x143mm deep It shall have a noise level below 72.5 dBA at 1.5m. It shall be as Heatrae Sadia or approved equivalent.</p>	11	No		
C	<p>Soap Dispenser</p> <p>Wall mounted soap dispenser with a capacity of about one litre having a press action soap release mechanism complete with fixing screws. Allow for initial soap supply. As Starmix or approved equivalent.</p>	10	No		
D	<p>Robe Hook</p> <p>Robe hook in Satin Aluminium to be mounted by concealed screws to wall wedges. To be as Twyfords Spectrum 2000 accessories or equal and approved.</p>	4	No		
E	<p>Flexible Tubing</p> <p>15mm diameter x 300mm long flexible connectors complete with integral chrome plated angle valve for connecting the sanitary fitting to water supply. To be as Cobra or equal and approved.</p>	22	No		
F	<p>Soap Dish</p> <p>Semi recessed built in soap tray in Vitreous China of size: 305 x 150mm in approved colour as Twyfords or equal and approved.</p>	4	No		
Total Carried to Collection Page					

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
A	<p>Towel Rail</p> <p>Chrome plated 20mm diameter x 800mm long approved towel rail and brackets as one piece, plugged and screwed into the wall. The fitting shall be as Twyfords or equal and approved.</p>	4	No		
B	<p>Curtain Rail with Shower Curtains</p> <p>High quality chrome plated 1,000mm long curtain rail complete with 2No. wall plate, hooks and rollers and approved medium quality 1500 x 1000mm shower curtains.</p>	4	No		
C	<p>Shower Fittings</p> <p>Concealed shower fitting consisting of 15mm chrome plated riser pipe to connect the concealed shower mixer for instant hot water and cold water to a swivel/ adjustable shower rose, chrome plated handles and stop corks and other necessary fittings & accessories. All to be as Bricon/aztec or equal and approved.</p>	4	No		
	<p><u>Internal Plumbing Works</u></p> <p><u>Supply, deliver and install pipes, tubing and fittings as described and shown on the drawings. The pipes shall be PN 25 PPR pipes where exposed to adverse weather condition and all conforming to the current European standards for PPR installations and to the Engineers approval, pipe jointing shall be by polyfusion or use of electric coupling. Rates must allow for all Metal/plastic threaded adaptors where required for the connection of sanitary fixtures, valves, sockets, sliding and fixed joints, support raceways, isolating sheaths, elastic materials, expansion arms and bends, crossovers, couplings, clippings, connectors, joints etc. as required in the running lengths of pipework and also where necessary, for pipe fixing clips, holder bats plugged and screwed for the proper and satisfactory functioning of the system. The pipes will be pressure tested before the plastering of wall commences and as per the manufacturers recommended testing pressures:</u></p>				
Total Carried to Collection Page					

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
	PPR Pipes				
A	20mm diameter pipework	36	Lm		
B	25mm diameter pipework	24	Lm		
C	15mm diameter pipework	24	Lm		
	Bends				
D	20mm diameter bends	6	No.		
E	25mm diameter bends	6	No.		
F	15mm diameter bends	6	No.		
	Tees				
G	25mm equal Tees	6	No.		
	Reducers				
H	25 x 20mm diameter reducer	6	No.		
J	20 x 15mm diameter reducer	22	No.		
	Unions				
K	20mm diameter pipe unions	16	No.		
L	25mm diameter pipe unions	6	No.		
M	15mm diameter pipe unions	22	No.		
	Threaded Fittings				
N	20mm male/female threaded 90° bend/Elbow	12	No.		
P	25mm male/female threaded 90° bend/Elbow	12	No.		
Q	15mm male/female threaded 90° bend/Elbow	36	No.		
Total carried to collection page					

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
	Valves				
A	20mm diameter approved medium pressure screw down full way non-rising stem wedge gate valve to BS 5154 PN 20 for series B rating, with wheel and head joints to steel tubing and complete with round male threaded transition fittings. The gate valve to be as PEGLER or approved equivalent.	2	No.		
B	25mm ditto	4	No.		
C	15mm ditto	36	No.		
D	20mm medium pressure ball valve	3	No.		
	Water Storage Tank (Ground tank)				
E	(Ground tank) -Supply, deliver and install vertical close end plastic moulded tank of capacity 4000 litres the tank on a 600mm mass concrete full bottom sittingg and accessories to be assembled complete with cover and having screwed connections for inlet, outlet, overflow, 32mm high pressure ball valve, drain pipes and any other necessary item for its proper functioning. The tank shall be mounted on a flat roof slab and shall be as ROTO Model or approved equivalent.	1	No.		
F	Ditto but roof tank capacity 3000 litres for water distribution	1	No.		
G	Ditto but roof tank capacity 2500 litres for fire fighting	1	No.		
	<u>INTERNAL FOUL WATER DRAINAGE</u> <u>Supply, deliver and install the following UPVC, MUPVC, soil and waste systems respectively to B.S 5255 with fittings fixed to Manufactures Printed instructions and manufactured by reputable manufacturers. Tenderers must allow in their pipework prices for all the couplings, clippings, connectors, joints etc. as required in the running lengths of pipework and also where necessary, for pipe fixing clips, holder bats plugged and screwed for the proper and satisfactory functioning of the system:</u>				
Total carried to collection page					

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
	MuPVC and uPVC Waste and Soil pipework				
A	100mm diameter heavy gauge golden brown UPVC pipe	30	Lm		
B	100mm diameter heavy gauge grey mUPVC pipe	16	Lm		
C	75mm diameter heavy gauge grey mUPVC pipe	12	Lm		
D	50mm diameter waste pipe	16	Lm		
E	40mm diameter waste pipe	12	Lm		
F	32mm diameter waste pipe	12	Lm		
	Bends				
G	100mm diameter bend with access	12	No.		
H	100mm diameter long radius bend	12	No.		
J	75mm diameter long radius bend	12	No.		
K	100mm diameter sweep bend	12	No.		
L	50mm diameter sweep bend	12	No.		
M	40mm diameter sweep bend	12	No.		
N	32mm diameter sweep bend	12	No.		
	Tees				
P	50mm diameter sweep tee	6	No.		
Q	40mm diameter sweep tee	6	No.		
R	32mm diameter sweep tee	6	No.		
	Access Caps				
S	50mm diameter access cap	6	No.		
T	40mm diameter access cap	6	No.		
U	32mm diameter access cap	6	No.		
	Boss Connectors				
V	75 x 40mm diameter boss connector	6	No.		
Total carried to collection page					

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
	Reducing Sockets				
A	100 x 75 reducing socket	6	No.		
B	100 x 50 reducing socket	6	No.		
C	50 x 40 reducing socket	6	No.		
D	40 x 32 reducing socket	6	No.		
	WC Connectors				
E	100mm diameter WC connector	12	No.		
	Traps				
F	100 x 50mm diameter floor trap and grating	12	No.		
G	Standard 300 x 300 x 450mm masonry gully trap complete with 125mm thick reinforced concrete cover.	6	No.		
	Weathering Slates and Vent Cows				
H	100mm diameter weathering slate and apron.	4	No.		
J	100mm diameter vent cowl	2	No.		
Total carried to collection page					

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
<u>COLLECTION PAGE FOR PLUMBING AND DRAINAGE WORKS</u>					
				Page	
1	Total carried forward from page BW /			24	
2	Total carried forward from page BW /			25	
3	Total carried forward from page BW /			26	
4	Total carried forward from page BW /			27	
5	Total carried forward from page BW /			28	
6	Total carried forward from page BW /			29	
7	Total carried forward from page BW /			30	
8	Total carried forward from page BW /			31	
Total Plumbing and Drainage Works Carried to Carried to Mechanical Works Summary Page					

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
	<u>FIRE FIGHTING INSTALLATION WORKS</u>				
	<u>Supply, deliver and install the following fire fighting equipment in positions indicated on the contract drawings or as shall be instructed by the Engineer. Supply and install the following fire fighting installation and equipment as described and shown on the drawings. Tenderers should allow for all fittings, jointings couplings including unions and clamps where necessary for the proper functioning of the installation when pricing:</u>				
	Hosereel Installation				
	Hosereel				
A	20mm diameter 30m long swinging type hose reel complete with delivery valve, mild steel feed pipe, isolation valve, guide and all other accessories as "Angus Fire Armour" or equal and approved.	6	No.		
	GMS Pipework, Class B				
B	20mm diameter pipework	12	Lm		
C	25mm diameter pipework	12	Lm		
D	50mm diameter pipework	12	Lm		
	Extra Over Pipework				
	Bends				
E	20mm diameter bends	6	No.		
F	25mm diameter bends	6	No.		
G	50mm diameter bends	6	No.		
	Tees				
H	50mm diameter equal Tees	6	No.		
Total carried to Collection Page					

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
	Valves				
A	25mm diameter approved medium pressure screw down full way non-rising stem wedge gate valve to BS 1952, with wheel and head joints to steel tubing. The gate valve to be as PEGLER or approved equivalent.	6	No.		
B	50mm diameter ditto	6	No.		
	Reducers				
C	50 x 25 mm diameter reducer	6	No.		
	Unions				
D	25mm diameter pipe unions	12	No.		
E	50mm diameter pipe unions	22	No.		
	Hosereel Pumpset				
F	Hosereel pumpset, one duty, the other standby mounted on a frame with a mild steel base plate. Each pump shall have a duty 5m ³ /hr. against 50m head as Grundfos model CH 4 - 40 or approved equivalent. In addition, there shall be a 60 litres diaphragm pressure vessel (as Varem or approved equivalent), pressure switches, a switch to protect dry run, 65mm foot valve and strainer, tank connections, gate valves and non-return valves. Control shall be effected via a pressure switch through a pre-wired control panel which shall give automatic change-over from duty to standby pump within 5 seconds should the duty pump fail to deliver for any reason. The pumpset shall include all non-returns valves, timer, isolating valves and pipe connections.	1	Set		
	Control and Control Panel				
G	Control panel for the above pumps with contactors, over voltage and under voltage protection relays, MCBs, start/stop push buttons and indicators lights. All this shall be housed in a lockable cabinet (with integral isolator) made from SWG 18 mild steel sheet that is oven powder coated. The controls shall also include a float switch or flow switch for prevention against dry running complete with its cable.	1	Item		
Total carried to Collection Page					

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
	Fire Hose Cabinet				
A	Surface mounted fire hose cabinet manufactured from electro galvanised steel sheet with folded edges and curled hose plate edges and painted with electro static powder coating, 180°C baked. The cabinet size shall be capable of housing hosereel and 3No. portable extinguishers as described in the next page and should conform to BS EN 671-1. To be as Germania or equal and approved.	1	No.		
	Painting				
B	Allow for painting of the hosereel installation with 2 coats of super gloss paint on a primer coat to the approval of the Project Engineer.	1	Item		
	Standard Printed Lable				
C	Standard printed lables for the fire cupboards.	2	No.		
	Portable Fire Extinguishers				
	Supply, deliver, install, test and commission the following portable fire extinguishers and conforming to BS EN 3 / BS 1449.				
	Water/Carbon Dioxide Gas Fire Extinguisher				
D	9 litres water/carbon dioxide gas portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	6	No		
	Carbon Dioxide Gas Fire Extinguisher				
E	5kg carbon dioxide gas portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	6	No		
	Dry Chemical Powder Fire Extinguisher				
F	9kg dry chemical podwer portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	6	No		
	Manual Alarm Bell				
G	9" (225mm) manual operated alarm bell (Gong)	6	No		
Total carried to Collection Page					

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
A	Fire Blanket Fire blanket made of cloth woven with pre-asbestos yarn or any other fire proof material and to measure 1800 x 1210 mm. It shall be fitted with special tapes folded so as to offer instantaneous single action to release blanket from storing jacket to BS 1721.	6	No		
B	Fire Notices Allow for fire signage for the hose reel system, fire exits and fire instructions as as described in the particular specifications and to the Project Engineer's approval.	6	No		
C	Testing and Commissioning	1	Item		
Total Carried to Collection Below					
<u>COLLECTION PAGE FOR FIRE FIGHTING INSTALLATION WORKS</u>					
1	Total carried forward from page BW /		33		
2	Total carried forward from page BW /		34		
3	Total carried forward from page BW /		35		
4	Total carried forward from page BW /		36 above		
Total for Fire Fighting Installation Works Carried to Mechanical Works Summary Page					

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
<u>PROVISIONAL SUMS FOR MECHANICAL WORKS</u>					
A	Allow a Provisional Sum of Kenya Shilling One Hundred Thousand (100,000) only for contingencies				100,000.00
B	Allow a Provisional Sum of Kenya Shilling Three Hundred and fifty Thousand (350,000) only for water reticulation and booster pump				350,000.00
Provisional Sums Carried to Mechanical Works Summary Page					450,000.00

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
<u>SUMMARY OF PLUMBING AND DRAINAGE WORKS , FIRE FIGHTING INSTALLATION WORKS</u>					
1	Total for Plumbing and Drainage Works CARRIED FORWARD FROM PAGE	BW/	32		
2	Total for Fire Fighting Installation Works CARRIED FORWARD FROM PAGE	BW/	36		
3	PRIME COSTS AND PROVISIONAL SUMS CARRIED FORWARD FROM PAGE	BW/	37		450,000.00
TOTAL PLUMBING AND DRAINAGE WORKS , FIRE FIGHTING INSTALLATION WORKSCARRIED TO GRAND SUMMARY PAGE					

Amount in words; Kenya Shillings

.....

NAME OF TENDERER.....

ADDRESS.....

SIGNATURE.....**STATUS**.....

DATE.....

NAME OF WITNESS.....

ADDRESS.....

SIGNATURE.....

DATE.....

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
	<u>ELECTRICAL WORKS</u>				
	<u>GROUND FLOOR</u>				
	Supply , install ,test, and commision the following items				
A	Lighting points wired with 1.5 mm sq. PVC single core copper cables drawn in 20 mm Dia. Conduit for one way switching.	21	No		
B	Ditto but for two way switching.	25	No		
C	<u>SWITCHES</u>				
	1. 10 A one gang one way switch as mem	10	No		
	2. 10A two gang one way switching	2	No		
	4. 10A one gang two way switch	11	No		
	<u>LIGHTING FITTINGS</u>				
D	2 x 36W 1200 mm fluorescent fitting louvred as Thorn manufacture	28	No		
E	1 x 100W ball fitting with as Thorn manufacture Cat. No. MTC 1100	6	No		
F	1 x 16 W Oyster lighting fitting as THORN 2DCL16BR complete with 16 W 2D LAMP	29	No		
G	Wall mounted 50 W SON-E fitting as THORN PTSP3/CP300/WBP34	6	No		
H	2 x 8W Bulkhead lLighting Fitting as Thorn Manufacture	2	No		
	Total carried to next page				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
	Total carried from previous page				
	<u>POWER SYSTEMS</u>				
A	Twin Socket outlet points wired with 6 x 2.5 mm sq. pvc single core cables drawn in 25 mm dia. conduit	14	No		
B	13 A Twin outlet boxes as MK	14	No		
C	Telephone cord outlet point in concealed pvc conduit complete with outlet plate and draw wire	7	No		
D	Shaver Unit as Thorn wired with 3 x 1.5mm sq. pvc single core cables drawn in 20mm dia. Conduit	1	No		
E	Hand Unit wired with 3 x 2.5mm sq. pvc single core cables drawn in 20mm dia. Conduit through double pole switch	4	No		
F	Instant Water Heater wired with 3 x 4.00mm sq. pvc single core cables drawn in 20mm dia. Conduit through double pole switch	1	No		
G	Data cord outlet point in concealed pvc conduit complete with outlet plate and draw wire	6	No		
H	Shaver Unit wired with 3 x 2.5mm sq. pvc single core cables drawn in 20mm dia. Conduit through double pole switch	1	No		
I	20A Double Pole Switch as mem				
J	5 x 16.0 mm sq. pvc single core cables drawn in HG PVC conduit from the Switchboard to DB A	15	LM		
K	4 Way TPN distribution board complete with 80 A Isolator AS Crabtree	3	No		
L	Circuit breakers as Crabtree				
	1) 10A	5	No		
	2) 20 A	3	No		
	3) 30 A	2	No		
	4) blanking plate	2	No		
	Total carried to next page				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
	Total carried from previous page				
	<u>POWER SWITCH ROOM</u>				
A	Free Stand Switchboard comprising of CT's Chamber, 200A Bus bar, Voltmeter, Ammeter, 200A MCCB TPN as the Main Switch, 3NO.100A MCCB TPN, KPLC Meter Chamber and 4No. Spare Ways	1	Item		
B	4 Way SPN Consumer Unit complete with 80 A Isolator as Crabtree	1	No		
C	Circuit breakers as Crabtree				
	1) 10 A	1	No		
	2) 20A	2	No		
	3) 5A	1	No		
D	1 x 100W ball fitting with as Thorn manufacture Cat. No. MTC 1100	1	No		
E	Lighting points wired with 1.5 mm sq. PVC single core copper cables drawn in 20 mm Dia. Conduit for one way switching.	1	No		
F	10 A one gang one way switch as mem	1	No		
G	4 core 4.0 mm sq. PVC/SWA/PVC cables drawn in the trench from the Switch board to the Water Booster				
H	Pump Switchfuse	40	LM		
I	4 core 4.0 mm sq. PVC/SWA/PVC cables drawn in the trench from the Switch board to the Fire Booster Pump Switchfuse	40	LM		
J	20A Switchfuse as MEM	2	No		
K	30A Switchfuse as MEM	1	No		
L	Cable Glands for item ' G' and ' I ' above.	8	No.		
M	100mm dia.PVC Duct to the Lift Shaft	20	LM		
N	Earthing to KP & LC Standards	1	ITEM		
	Total carried to next page				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
	Total carried from previous page				
	<u>FIRE ALARM SYSTEM</u>				
A	20A DP switchfuse with cover painted red and an attached Label with the conspicuous legend 'FIRE ALARM - DO NOT SWITCH OFF', complete with all wiring in 3 x 2.5mm ² sc pvc copper cables drawn in concealed 25mm dia. Pvc conduit from a 10A MCB in DB, all accessories included.	1	Item		
B	Break glass call points flash mounted as Menvier Model No. MBG 913 or approved equivalent	5	No		
C	Fire bell Sounders as -: i) 24V DC 6" (150mm) as Menvier Model No. MBM 246 or approved equivalent	5	No		
	ii) Weather - proof electronic Sounder - deep base rated 105db as Menvier Model No. MWS 424 or equivalent	1	No		
D	4 Zone Fire protection control panel complete with 72hr battery back - up all accessories included as Menvier Model No. MF 9304 or approved equivalent	1	No		
	Ground Floor total carried to Electrical Works Summary page				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
	<u>FIRST FLOOR</u>				
	Supply , install ,test, and commision the following items				
A	Lighting points wired with 1.5 mm sq. PVC single core copper cables drawn in 20 mm Dia. Conduit for one way switching.	32	No		
B	Ditto but for two way switching.	27	No		
C	<u>SWITCHES</u>				
	1. 10 A one gang one way switch as mem	8	No		
	2. 10 A two gang one way switch as mem	2	No		
	4. 10A Two gang two way switch	13	No		
	<u>LIGHTING FITTINGS</u>				
D	2 x 36W 1200 mm fluorescent fitting louvred as Thorn manufacture	34	No		
E	1 x 100W ball fitting with as Thorn manufacture Cat. No. MTC 1100	10	No		
F	1 x 16 W Oyster lighting fitting as THORN 2DCL16BR complete with 16 W 2D LAMP	20	No		
G	Wall mounted 50 W SON-E fitting as THORN PTSP3/CP300/WBP34	5	No		
	Total carried to next page				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
	Total carried from previous page				
	<u>POWER SYSTEMS</u>				
A	Twin Socket outlet points wired with 6 x2.5 mm sq. pvc single core cables drawn in 25 mm dia. conduit	12	No		
B	13 A Twin outlet boxes as MK	12	No		
C	Telephone cord outlet point in concealed pvc conduit complete with outlet plate and draw wire	6	No		
D	Telephone outlet box as MK	6	No		
E	Hand Unit wired with 3 x 2.5mm sq. pvc single core cables drawn in 20mm dia. Conduit through double pole switch	5	No		
F	Instant Water Heater wired with 3 x 4.00mm sq. pvc single core cables drawn in 20mm dia. Conduit through double pole switch	3	No		
G	Data cord outlet point in concealed pvc conduit complete with outlet plate and draw wire	6	No		
H	Shaver Unit wired with 3 x 2.5mm sq. pvc single core cables drawn in 20mm dia. Conduit through double pole switch	3	No		
I	20A Double Pole Switch as mem	8	No		
J	5 x 16.0 mm sq. pvc single core cables drawn in HG PVC conduit from the Switchboard to DB B	25	LM		
K	6 Way SPN Consumer Unit complete with 80 A Isolator as Crabtree	1	No		
L	Circuit breakers as Crabtree				
	1) 10 A MCB TPN	6	No		
	2) 20A MCB TPN	8	No		
	3) 30A MCB SPN	8	No		
	4) blanking plate	2	No		
	Total carried to next page				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
	Total carried from previous page				
	<u>FIRE ALARM SYSTEM</u>				
A	Break glass call points flash mounted as Menvier Model No. MBG 913 or approved equivalent	8	No		
B	Fire bell Sounders as -: i) 24V DC 6" (150mm) as Menvier Model No.MBM 246 or approved equivalent	8	No		
	First Floor total carried to Electrical Works Summary page				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
<u>SECOND FLOOR</u>					
Supply , install ,test, and commision the following items					
A	Lighting points wired with 1.5 mm sq. PVC single core copper cables drawn in 20 mm Dia. Conduit for one way switching.	21	No		
B	Ditto but for two way switching.	44	No		
C	<u>SWITCHES</u>				
	1. 10 A one gang one way switch as mem	10	No		
	2.10 A one gang two way switching	12	No		
	4. Two gang two way switch	4	No		
	5. 10 A Intermediate switch	3	No		
<u>LIGHTING FITTINGS</u>					
D	2 x 36W 1200 mm fluorescent fitting louvred as Thorn manufacture	35	No		
E	1 x 100W ball fitting with as Thorn manufacture Cat. No. MTC 1100	9	No		
F	1 x 16 W Oyster lighting fitting as THORN 2DCL16BR complete with 16 W 2D LAMP	20	No		
G	Wall mounted 50 W SON-E fitting as THORN PTSP3/CP300/WBP34	4	No		
Total carried to next page					

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
	Total carried from previous page				
	<u>POWER SYSTEMS</u>				
A	Twin Socket outlet points wired with 6 x2.5 mm sq. pvc single core cables drawn in 25 mm dia. conduit	13	No		
B	13 A Twin outlet boxes as MK	13	No		
C	Telephone cord outlet point in concealed pvc conduit complete with outlet plate and draw wire	6	No		
D	Telephone outlet box as MK	6	No		
E	Instant Water Heater wired with 3 x 4.00mm sq. pvc single core cables drawn in 20mm dia. Conduit through double pole switch	3	No		
F	Data cord outlet point in concealed pvc conduit complete with outlet plate and draw wire	6	No		
G	Shaver Unit wired with 3 x 2.5mm sq. pvc single core cables drawn in 20mm dia. Conduit through double pole switch	3	No		
H	20A Double Pole Switch as mem	8	No		
I	5 x 16.0 mm sq. pvc single core cables drawn in HG PVC conduit from Switch Board to DB C to	35	LM		
J	6 Way SPN Consumer Unit complete with 80 A Isolator as Crabtree	1	No		
K	Circuit breakers as Crabtree				
	1) 10 A MCB TPN	7	No		
	2) 20A MCB TPN	4	No		
	3) 30A MCB SPN	2	No		
	4) blanking plate	5	No		
	Total carried to next page				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
	Total carried from previous page				
	<u>FIRE ALARM SYSTEM</u>				
A	Break glass call points flash mounted as Menvier Model No. MBG 913 or approved equivalent	4	No		
B	Fire bell Sounders as -: i) 24V DC 6" (150mm) as Menvier Model No.MBM 246 or approved equivalent	4	No		
	Total carried to next page				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
	Total carried from previous page				
	<u>LIGHTNING PROTECTION SYSTEM</u>				
A	25mm x 4mm copper tape down conductor supported under ridge tiles, at water bonding and all else 1.0M intervals including junction clamps.	70	LM		
B	Galvanized Steel conduit 32mm dia. At ground floor (2.5M) for item (A) above.	6	LM		
C	Earthing Chamber 300 x 300mm masonry type complete with removable cover	2	No		
D	16mm dia. X 1500mm long pure copper earth rod with clamp and all accessories.	2	No		
E	Approved test clamps as Furse	2	No		
F	Air termination (600mm long pure copper with spikes) mounted on bracket as Furse	6	No		
	<u>FIRE ALARM SYSTEM</u>				
G	Break glass call points flash mounted as Menvier Model No. MBG 913 or approved equivalent	4	No		
H	Fire bell Sounders as -: i) 24V DC 6" (150mm) as Menvier Model No.MBM 246 or approved equivalent	4	No		
	Second Floor total carried to Electrical Works Summary page				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
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SUMMARY PAGE

A	Total for Ground Floor carried forward from Page	
	BW/	42
B	Total for First Floor carried forward from Page	
	BW/	45
C	Total for Second Floor carried forward from Page	
	BW/	49
D	Contingency to be expended at the project managers discretion	
		200,000.00
Grand Total carried to GRAND SUMMARY PAGE		

TOTAL AMOUNT IN WORDS: Kenya Shillings.....

.....

.....

Tenderer's name and stamp.....

.....

Signature..... Date.....

PIN No.....VAT Certificate No.....

Witness.....Address.....

Signature of witness.....Date.....

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
<u>PRIME COST AND PROVISIONAL SUMS</u>					
A	Allow a Prime Cost Sum for Lift Installation Works				5,000,000.00
B	Allow a Per Centage for Profit on the above..... %				
C	Allow for attendance on the above (Sum)				
D	Allow a provisional Sum for Builders Works in connection to Specialist Installations				600,000.00
E	Allow a provisional Sum for Drainage and Civil works				500,000.00
F	Allow a provisional Sum for Project Management Expenses				2,000,000.00
G	Allow a provisional Sum for E.I.A Report				100,000.00
TOTAL FOR PRIME COST AND PROVISIONAL SUMS CARRIED TO GRAND SUMMARY					

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL
<u>GRAND SUMMARY</u>					
		PAGE	OFFICIAL USE	TENDERER'S USE	
1	<u>PRELIMINARIES</u> Particular and General Preliminaries	250			
2	<u>BUILDERS WORKS</u> Builders Works	BW/23			
3	<u>BUILDING SERVICES</u> Mechanical Plumbing and Drainage Works	BW/38			
4	Electrical Works	BW/50			
5	<u>PRIME COST AND PROVISIONAL SUMS</u> Prime Cost and Provisional Sums	BW/51			
	Sub - Total 1	KSHS.			
6	Add 5 % as Contingencies to be Expended at the project managers discretion	KSHS.			
	Sub - Total 2	KSHS.			
7	Add 16 % VAT	KSHS.			
	Sub - Total 3	KSHS.			
8	Add 0.6 % to cater for Project's NEMA and NCA Registrations	KSHS.			
	GRAND TOTAL CARRIED TO FORM OF TENDER	KSHS.			

NAME OF TENDERER.....
ADDRESS.....

SIGNATURE.....STATUS.....
DATE.....

NAME OF WITNESS.....
ADDRESS.....

SIGNATURE.....
DATE.....