

ITEM	DESCRIPTION	UNIT	QTY	RATE (USHS.)	AMOUNT (USHS.)
	<b>BILL NO.2</b>				
	<b>PROPOSED OFFICE BLOCK</b>				
	<b>ELEMENT NO.A</b>				
	<b>SUBSTRUCTURES</b>				
	<i>The work in this element includes all works up to and including the ground floor slab</i>				
A/1	Clear area of new construction of all undergrowth and small bushes and trees, grub up their roots, remove any existing structure and obstruction as directed. (M/S)	SM	0		
A/2	Excavate oversite to remove top soil average 250mm deep, deposit in temporary spoil heaps average haulage distance 50m from excavations and later spread and level where directed on site. (M/S)	SM	0		
A/3	Allow for maintaining and upholding sides of excavation : clear off all fallen material, rubbish.	ITEM	1		
A/4	Allow for keeping the whole of the excavation free from general water.	ITEM	1		
A/5	Excavate for column bases commencing at reduced level but not exceeding 1.5m deep.	CM	279		
A/6	Ditto but 1.5 - 3.0 meters deep	CM	254		
A/7	Excavate for foundation trenches commencing at reduced level but not exceeding 1.5m deep.	CM	277		
A/8	Extra over excavation for excavating in rock.	CM	25		
A/9	Return fill and ram selected excavated material around foundations.	CM	307		
A/10	Load and remove from site surplus excavated materials	CM	209		
A/11	Approved murrum fill : well placed, spread and compacted in layers n.e. 250mm and not less than 150mm thick to 98% MDD	CM	183		
A/12	300mm thick Bed of handpacked stone base, well rolled and compacted	SM	524		
A/13	50mm thick Sand dust blinding over surfaces of hardcore	SM	524		
A/14	Insecticide treatment to top surfaces of hardcore, top of foundation walling and bottom of excavation.	SM	1,600		
	<b>CONCRETE WORK</b>				
	<b>PLAIN CONCRETE CLASS 10 (10Mpa/20mm max. aggregate size)</b>				
A/15	50mm Thick blinding layer under column bases	SM	186		
A/16	50mm Thick blinding layer under strip foundation	SM	211		
	<b>MASS CONCRETE CLASS 25 (Minimum compressive strength of 25Mpa with 20mm max. aggregate size) IN:</b>				
A/17	Strip foundation	CM	60		
	<b>VIBRATED REINFORCED CONCRETE CLASS 25 (25Mpa/19mm with 20mm max. aggregate size)</b>				
A/18	Column bases	CM	135		
A/19	Columns	CM	15		
A/20	Ground Beams	CM	30		
A/21	150mm Thick ground floor slab	SM	524		
	<b>STEEL REINFORCEMENT as described including cutting to length, bending, hoisting and fixing and including all necessary tying wire and spacing blocks</b>				
	<b>RIBBED BARS to BS 5950</b>				
A/22	10mm diameter bars	KG	2,288		
A/23	12mm diameter bars	KG	650		
A/24	16mm diameter bars	KG	7,432		
A/25	20mm diameter bars	KG	6,720		
	<b>TO COLLECTION</b>				

ITEM	DESCRIPTION	UNIT	QTY	RATE (USHS.)	AMOUNT (USHS.)
	<b>STEEL FABRIC REINFORCEMENT TO BS 4483 as described</b>				
A/26	No. A142 Fabric Mesh reinforcement weighing 2.22 Kg. per square meter fixed in slab	SM	524		
	<b>FORMWORK to;</b>				
A/27	Vertical sides of column bases	SM	128		
A/28	Vertical sides of columns	SM	120		
A/29	Vertical sides of circular columns	SM	20		
A/30	Vertical sides of strip footing	SM	150		
A/31	Vertical sides of Ground beam	SM	350		
A/32	Edges of oversite slab 75 - 150mm high	LM	131		
	<b>PLINTH WALLING</b>				
	<i>Solid Concrete Blockwork of minimum compressive strength of 7N/mm<sup>2</sup> and mortar designation of (iii) jointed and pointed in cement sand (1:3) mortar : with and including hoop iron wall ties every two courses to BS 1243, 1978: in</i>				
A/33	230mm Thick walls	SM	396		
	<b>DAMP PROOF MEMBRANE</b>				
A/34	1000 Gauge polythene sheeting laid on blinded hardcore	SM	524		
	<b>TWO COATS EXTERNAL CEMENT RENDER (1:4) finished with wood float</b>				
A/35	25mm thick to exposed plinth surfaces	SM	365		
	<b>TWO COATS OF BLACK BITUMASTIC paint onto:</b>				
A/36	Rendered surfaces	SM	365		
	<b>SUNDRIES</b>				
A/37	20 SWG Hoop Iron wall tie 25mm wide x 450mm long cast 75mm into concrete and built into joint of blockwalling.	NO	150		
	<b>EXPANSION JOINTS</b>				
A/38	150 x 50mm Flexcell expansion filler as 'STYROPER' or equal approved between concrete surfaces	LM	14		
A/39	Ditto but; 400 x 50mm	LM	9		
	<b>EXPANSION JOINT SEALANT</b>				
A/40	50 x 15mm Deep silicone joint sealant as 'THEOFLEX' or equal approved including raking out part of the expansion joint filler	LM	23		
	<b>TO COLLECTION</b>				
	<b>COLLECTION</b>				
	Total carried forward from Page 2/A/1				
	Total carried forward from Page 2/A/2				
	<b>TOTAL TO SUBSTRUCTURES CARRIED TO SUMMARY</b>				

ITEM	DESCRIPTION	UNIT	QTY	RATE (USHS.)	AMOUNT (USHS.)
	<b>BILL NO.2</b>				
	<b>PROPOSED OFFICE BLOCK</b>				
	<b>ELEMENT NO.B</b>				
	<b>R.C. FRAME</b>				
	<b>CONCRETE WORK</b>				
	<b>VIBRATED REINFORCED CONCRETE CLASS 25 (25Mpa/ 20mm max. aggregate size)</b>				
B/1	Columns	CM	148		
B/2	Beams	CM	185		
B/3	Ringbeams	CM	25		
B/4	175mm thick horizontal solid suspended slabs	SM	504		
B/5	100mm thick horizontal solid suspended gutter slabs	SM	109		
B/6	225mm thick horizontal solid suspended slab bands	CM	51		
	<b>HOLLOW BLOCK SUSPENDED CONSTRUCTION</b>				
B/7	225mm Thick composite suspended slab consisting of reinforced concrete Class 25 in 75mm topping and 150mm wide ribs at 300mm centers : Maxspan size 300mm long x 300mm wide x 150mm high including filling ends of composite slabs with concrete class 25	SM	1,530		
	<b>STEEL REINFORCEMENT as described including cutting to length, bending, hoisting and fixing and including all necessary tying wire and spacing blocks</b>				
	<b>MILD STEEL REBARS TO BS 4449</b>				
B/8	8mm diameter bars	KG	5,850		
	<b>HIGH YIELD TENSILED RIBBED REBARS to BS 4461</b>				
B/9	10mm diameter bars	KG	8,775		
B/10	12mm diameter bars	KG	26,625		
B/11	16mm diameter bars	KG	26,500		
B/12	20mm diameter bars	KG	28,000		
	<b>STEEL FABRIC REINFORCEMENT TO BS 4483 as described</b>				
B/13	No. A142 Fabric Mesh reinforcement weighing 2.22 Kg. per square meter fixed in slab	SM	2,272		
	<b>FORMWORK TO:-</b>				
B/14	Vertical sides of columns	SM	1,200		
B/15	Ditto but; to circular columns average radius of 150mm	SM	144		
B/16	Soffittes of horizontal suspended slabs	SM	4,272		
B/17	Sides and soffittes of beams	SM	1,000		
B/18	Sides and soffittes of ringbeams	SM	275		
B/19	Sides and soffittes of gutter slabs	SM	85		
B/20	Ditto; but 150 - 225mm high	LM	580		
	<b>SUNDRIES</b>				
B/21	20 SWG Hoop Iron wall tie 25mm wide x 450mm long cast 75mm into concrete and built into joint of blockwalling.	NO	650		
	<b>EXPANSION JOINTS</b>				
B/22	150 x 50mm Flexcell expansion filler as 'STYROPER' or equal approved between concrete surfaces	LM	60		
B/23	Ditto but; 400 x 50mm	LM	130		
	<b>EXPANSION JOINT SEALANT</b>				
B/24	50 x 15mm Deep silicone joint sealant as 'THEOFLEX' or equal approved including raking out part of the expansion joint filler	LM	190		
	<b>TOTAL R.C FRAME CARRIED TO SUMMARY</b>				

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ITEM	DESCRIPTION	UNIT	QTY	RATE (USHS.)	AMOUNT (USHS.)
	<b>BILL NO.2</b>				
	<b>PROPOSED OFFICE BLOCK</b>				
	<b>ELEMENT NO.C</b>				
	<b>STAIRCASES AND BALUSTRADING</b>				
	<b>CONCRETE WORK</b>				
	<b>VIBRATED REINFORCED CONCRETE CLASS 25 (25Mpa/ 20mm max. aggregate size)</b>				
C/1	Staircases	CM	60		
C/2	150mm thick Landing	SM	134		
	<b>STEEL REINFORCEMENT as described including cutting to length, bending, hoisting and fixing and including all necessary tying wire and spacing blocks</b>				
	<b>STEEL FABRIC REINFORCEMENT TO BS 4483 as described</b>				
C/3	16mm diameter bars	KG	8,020		
	<b>FORMWORK to:-</b>				
C/4	Soffittes of suspended landing	SM	124		
C/5	Sloping soffittes of staircase	SM	144		
C/6	Open string edge of staircase 300mm (extreme) including cutting to profile of treads and risers	LM	192		
C/7	Risers of steps 75 to 150mm high	LM	392		
C/8	Ditto; but to edges of landing	LM	172		
	<b>FINISHES</b>				
	<b>POLISHED TERRAZO : FIRST COAT OF 35MM THICK WATER PROOF CEMENT AND SAND (1:3) SCREED; second coat of 15mm thick coloured cement and marble aggregate (1:2:5) including 15 x 3mm plastic dividing strips at 1200mm centers : in</b>				
C/9	Landing	SM	124		
C/10	Treads 300mm wide; with and including non-slip grooves	SM	112		
C/11	Risers 150mm high	SM	60		
C/12	Ditto for 150mm high skirting	LM	112		
	<b>INTERNAL LIME PLASTER first coat of cement, lime putty and sand (1:2:9), second coat of cement, lime putty and sand (1:1:6) Steel trowelled smooth</b>				
C/13	25mm thick two coat work to soffittes of suspended landing	SM	124		
C/14	Ditto but; sloping soffittes of staircase	SM	144		
C/15	Edges of open string of Staircases	SM	192		
	<b>PREPARE AND APPLY ONE MIST COAT AND THREE COATS silk vinyl emulsion paint internally on:</b>				
C/16	Steel trowelled plastered soffittes of landing	SM	124		
C/17	Ditto but sloping soffittes of staircase	SM	144		
C/18	Edges of open string of Staircases	SM	192		
	<b>BALUSTRADING</b>				
	<b>SUPPLY AND FIX 50mm dia 3mm thick Mild Steel hollow section handrail set on rake secretly welded to top of Balusters; including closed rounded ends and mitres; 25mm dia 3mm thick Mild Steel hollow sections raked middle and bottom rails welded to balusters; with 40mm dia 3mm Mild steel 1000mm high Balusters welded to hand, middle and bottom rails at 600mm centres with the bottom end anchored in concrete; including all fixing accessories, painting and decorations as per Architect's detailed Drawing; to</b>				
C/19	Sloping balustrade	LM	124		
C/20	Balconies	LM	105		
	<b>TO COLLECTION</b>				

ITEM	DESCRIPTION	UNIT	QTY	RATE (USHS.)	AMOUNT (USHS.)
C/21	<b>WALL HANDRAIL</b> <b>MILD STEEL HANDRAIL; 50mm dia 3mm thick Mild Steel Hand rail fixed onto and including 12mm diameter bar holder connected by a 6mm Thick mild steel plate to wall ; welded, bolted and screwed connections: to Architect's detailed Drawing; to</b> Walls	LM	72		
<b>TO COLLECTION</b>					
<p style="text-align: center;"><b><u>COLLECTION</u></b></p> Total carried forward from Page 2/C/1 Total carried forward from Page 2/C/2					
<b>TO STAIRCASES AND BALUSTRADINGSUMMARY</b>					

ITEM	DESCRIPTION	UNIT	QTY	RATE (USHS.)	AMOUNT (USHS.)
	<b>BILL NO.2</b>				
	<b>PROPOSED OFFICE BLOCK</b>				
	<b>ELEMENT NO.D</b>				
	<b>RAMPS AND BALUSTRADING</b>				
	<b>CONCRETE WORK</b>				
	<b>VIBRATED REINFORCED CONCRETE CLASS 25 (25Mpa/20mm max. aggregate size)</b>				
D/1	150mm thick ramp; sloping	SM	210		
D/2	150mm thick ramp; landings	SM	44		
D/3	Beams	CM	64		
	<b>STEEL REINFORCEMENT as described including cutting to length, bending, hoisting and fixing and including all necessary tying wire and spacing blocks</b>				
	<b>STEEL FABRIC REINFORCEMENT TO BS 4483 as described</b>				
D/4	16mm diameter bars	KG	4,500		
D/5	20mm diameter bars	KG	8,000		
	<b>FORMWORK to:-</b>				
D/6	Sloping soffittes of ramps	SM	210		
D/7	Soffittes of landing	SM	44		
D/8	Sides of landing 75mm - 150mm high	LM	92		
D/9	Sides and soffittes of beams	SM	460		
D/10	Open string edge of ramps 75mm - 150mm high	LM	308		
	<b>Solid concrete blockwork of minimum compressive strength of 7N/mm<sup>2</sup> and mortar designation of (iii) jointed and pointed in cement sand (1:3) mortar : with and including hoop iron wall ties every two courses to BS 1243, 1978: in</b>				
D/11	230mm Thick walls.	SM	260		
	<b>FINISHES</b>				
	<b>POLISHED TERRAZO : FIRST COAT OF 35MM THICK WATER PROOF CEMENT AND SAND (1:3) SCREED; second coat of 25mm thick coloured cement and marble aggregate (1:2:5) including 15 x 3mm plastic dividing strips at 1200mm centers : in</b>				
D/12	Ramps; complete with non-slip grooves	SM	188		
D/13	Edges of ramps 130mm high	LM	308		
D/14	Landings	SM	44		
	<b>INTERNAL LIME PLASTER</b>				
	<b>INTERNAL LIME PLASTER first coat of cement, lime putty and sand (1:2:9), second coat of cement, lime putty and sand (1:1:6) Steel trowelled smooth</b>				
D/15	25mm Thick two coat work to sloping soffittes	SM	188		
D/16	Ditto; but to beam sides	SM	328		
D/17	Ditto; but to beam sides	SM	328		
D/18	Ditto; but to baluster wall	SM	520		
	<b>PAINTING AND DECORATING</b>				
	<b>PREPARE AND APPLY ONE MIST COAT AND THREE COATS silk vinyl emulsion paint internally on:</b>				
D/19	Steel trowelled plastered sloping soffittes	SM	188		
D/20	Ditto; but to Landing	SM	44		
D/21	Ditto; but to Baluster wall	SM	520		
	<b>TO COLLECTION</b>				

ITEM	DESCRIPTION	UNIT	QTY	RATE (USHS.)	AMOUNT (USHS.)
	<p><b>STEEL HANDRAIL</b>  <b>SUPPLY AND FIX 50mm dia 3mm thick Mild Steel hollow section handrail set on rake secretly welded to top of Balusters; including closed rounded ends and mitres; 25mm dia 3mm thick Mild Steel hollow sections raked middle and bottom rails welded to balusters; with 40mm dia 3mm Mild steel 1000mm high Balusters welded to hand, middle and bottom rails at 900mm centres with the bottom end anchored in concrete; to Architect's detailed Drawing; to</b>  Ramp railing</p>	LM	322		
	<b>TO COLLECTION</b>				
	<p style="text-align: center;"><b><u>COLLECTION</u></b></p> <p>Total carried forward from Page 2/D/1  Total carried forward from Page 2/D/2</p>				
	<b>TOTAL TO RAMPS AND BALUSTRADING SUMMARY</b>				

ITEM	DESCRIPTION	UNIT	QTY	RATE (USHS.)	AMOUNT (USHS.)
	<b>BILL NO.2</b>				
	<b>PROPOSED OFFICE BLOCK</b>				
	<b>ELEMENT NO.E</b>				
	<b>WALLING</b>				
	<b>PRECAST CONCRETE CLASS 20; finished fair on all exposed surfaces including bedding and jointing in cement sand (1:3) mortar</b>				
E/1	275 x 50mm Weathered and throated window cill	LM	168		
E/2	275 x 50mm Weathered and throated coping	LM	212		
E/3	230 x 200mm lintels	LM	198		
E/4	150 x 200mm lintels	LM	114		
	<b>BLOCK WORK</b>				
	<b>Solid concrete blockwork of minimum compressive strength of 7N/mm<sup>2</sup> and mortar designation of (iii) jointed and pointed in cement sand (1:3) mortar : with and including hoop iron wall ties every two courses to BS 1243, 1978: in</b>				
E/4	230mm Thick walls.	SM	1,850		
E/5	150mm Thick parapet walls.	SM	97		
E/6	150mm Thick walls.	SM	2,850		
	<b>DAMP PROOF COURSE OF BITUMEN FELT TO B.S 743 Type A with 150mm laps including cement and (1:4) levelling bed</b>				
E/7	230mm Wide	LM	86		
E/8	Ditto; but 150mm	LM	133		
	<b>TOTAL TO WALLING CARRIED SUMMARY</b>				

2/E/1



ITEM	DESCRIPTION	UNIT	QTY	RATE (USHS.)	AMOUNT (USHS.)
	<b>BILL NO.2</b> <b>PROPOSED OFFICE BLOCK</b> <b>ELEMENT NO.F</b> <b>ROOF CONSTRUCTION AND RAIN WATER DISPOSAL</b> <b>STRUCTURAL STEEL WORK AND ROOF COVERING</b> <i>The rate for structural steelwork should include hoisting, assembling, three coats of red oxide primer and all plates, bolts, welded joints and all connections as per detailed drawings</i>				
F/1	76 x 76 x 3mm SHS Tie-Beam	KG	4,900		
F/2	76 x 76 x 3mm SHS Rafter	KG	6,380		
F/3	60 x 60 x 3mm RHS Ties and Struts	KG	10,320		
F/4	150 x 50 x 2mm Z-Purlins weighing 4.33 Kg. per meter; fixed onto and including 50 x 50 x 3mm CFA cleat welded to rafters with 12mm diameter bolts; with joints reinforced with and including 80 x 400 x 6mm m.s. plate bolted with 4No. 12mm diameter bolts	KG	3,200		
F/5	12000 x3000mm wide prefabricated wind brace (4No) consisting of 60x40x4mm RHS edge, diagonal and middle rake members including 50 x 50 x 3mm welded CFA cleat with 12mm diameter bolt holes; with 4No. 12mm diameter bolts and nuts	KG	2,498		
	<b>SUNDRIES</b>				
F/6	230 x 230 x 15mm thick mild steel plate cast into concrete bolted to Tie-Beam; 4 No. holes for 16mm diameter bolt	NO	112		
F/7	16mm Diameter rawl bolt; 250mm long; cast into ring beam; bolted to mild steel plate.	NO	448		
	<b>ROOF COVERING</b> <b>26-Gauge IT4 Galvanized pre-painted roofing sheets : fixed to purlins with and including self tapping screws complete with washers: in</b>				
F/8	Sheet laid sloping not exceeding 15 degrees from the horizontal.	SM	823		
F/9	Ditto; but Ridge/Hip cap; girth 500mm	LM	103		
	<b>METAL WORK</b> <b>MILD STEEL GRADE GJ</b>				
F/10	500mm wide Gauge 24 valley sheet bent to shape :dressed under roofing sheets; Architect' detailed drawing	LM	19		
F/11	1100mm wide 1.5mm GI gutter bent to shape : waterproofing in the gutter and dressed into block work; including all brackets, straps, sealants and accessories as per Architect's detailed drawing	LM	142		
	<b>RAIN WATER DISPOSAL</b> <b>PVC Key terrain fixed in accordance with manufacturer's instructions</b>				
F/12	110mm diameter fulbora outlet cast into concrete	NO	11		
F/13	100mm diameter downpipe: fixed with approved brackets.	LM	204		
F/14	Extra over gutter for outlet to suit 100mm diameter pipe.	NO	11		
F/15	Extra over downpipe for 90 degrees bends.	NO	33		
	<b>TOTAL TO ROOF CONSTRUCTION CARRIED TO SUMMARY</b>				

ITEM	DESCRIPTION	UNIT	QTY	RATE (USHS.)	AMOUNT (USHS.)
	<b>BILL NO.2</b> <b>PROPOSED OFFICE BLOCK</b> <b>ELEMENT NO.G</b> <b>DOORS</b> <b>ALUMINIUM DOORS</b> <b>PURPOSE MADE ALUMINIUM CASEMENT DOORS: with Natural Anodised 100 x 50mm aluminium frame sections for single glazing, 6.5mm thick clear laminated reflective sheet glass and glazing with and including weather striping and all necessary; accessories and approved door hardware set, iron mongery to "ASSA ABLOY Manufacture or approved equal"; as per Architect's drawings</b>				
G/1	Double leaf Door D1 overall size 4200 x 2400mm high	NO	1		
G/2	Double leaf Door D5 overall size 1500 x 2400mm high	NO	8		
	<b>TIMBER DOORS</b> <b>45mm THICK SOLID CORED FLUSH DOORS faced both sides with "Mahogany" veneered plyboard facing with hardwood edge lipping all round, complete with all necessary accessories and approved door hardware set (M/S) to "UNION" Manufacture or equal approved"; as per Architect's drawings</b>				
G/3	Single leaf door D2 overall size 1000 x 2400mm high PVO	NO	85		
G/4	Double leaf door D3 overall size 800 x 2400mm high PVO	NO	31		
G/5	Single leaf door D4 overall size 1000 x 2400mm high PVO	NO	4		
	<b>WROT MAHOGANY FRAMES AND LININGS, selected, treated and kept clean: to Architects detail.</b>				
G/6	175 x 50mm Frames; two labours, plugged.	LM	690		
G/7	175 x 50mm Transomes; two labours, plugged.	LM	114		
G/8	50 x 25mm Architrave : splayed	LM	690		
G/9	25mm Quadrant : ditto	LM	690		
G/10	15 x 15mm beading	LM	300		
G/11	<b>4mm thick CLEAR SHEET GLASS and glazing as described: to Casement windows in panes 0.1 to 0.5 square meters</b>	SM	34		
	<b>IRON MONGERY</b> <b>Supply and fix the following iron mongery : locks and furniture where applicable are to be equal to those manufactured by "UNION" and approved by the Architect</b>				
	<b>HINGES</b>				
G/12	100mm long stainless steel 2Ball Bearing Butt hinges complete with screws	PRS	191		
	<b>HANDLES</b>				
G/13	Stainless steel Lever handles with and including 1 pair of short CB backplates	PRS	85		
G/14	Stainless steel Lever handles with and including 1 pair of short WC backplates and an indicator disc	PRS	35		
	<b>DOOR STOPS</b>				
G/15	45mm Floor mounted Rubber door stop	NO	35		
G/16	Automatic spring or Hydraulic door closer or equally approved complete with all accessories and installed as per manufacturer's instructions	NO	85		
	<b>TOTAL CARRIED TO COLLECTION</b>				

ITEM	DESCRIPTION	UNIT	QTY	RATE (USHS.)	AMOUNT (USHS.)
	<b>LOCKSETS</b>				
G/17	3-turn Mortise lock complete with and including a euro profile cylinder, flanged striking plate and deadbolt pocket	NO	85		
G/18	1-turn WC Mortise lock complete with and including a thumbturn profile cylinder comprising of a turning knob inside and indicator bolt outside, flanged striking plate and deadbolt pocket	NO	35		
	<b>SYMBOLS</b>				
G/19	Gents & PWD toilet signage	NO	16		
G/20	Ditto but; room numbers	NO	104		
	<b>PREPARE AND APPLY THREE coats of polyurathane varnish: in accordance with manufacturer's instructions : on wood: to</b>				
G/21	General surfaces	SM	478		
G/22	Surfaces 100 - 300mm girth	LM	804		
G/23	Surfaces not exceeding 100mm girth	LM	1,380		
G/24	Prime back of frame before fixing 100 - 300mm girth	LM	690		
	<b>TO COLLECTION</b>				
	<b>COLLECTION</b>				
	Total carried forward from Page 2/G/1				
	Total carried forward from Page 2/G/2				
	<b>TOTAL TO DOORS CARRIED TO SUMMARY</b>				

ITEM	DESCRIPTION	UNIT	QTY	RATE (USHS.)	AMOUNT (USHS.)
	<b>BILL NO.2</b>				
	<b>PROPOSED OFFICE BLOCK</b>				
	<b>ELEMENT NO.H</b>				
	<b>WINDOWS</b>				
	<b>CURTAIN WALLING</b>				
	<i>PURPOSE MADE CURTAIN WALLING: POWDER COATED 100 x 50mm ALUMINIUM FRAME SECTIONS: with 6.5mm thick laminated clear sheet glass and glazing panels and 500mm high openable glass panels; fixed glazing to middle panels complete with all iron mongery comprising hinges, locks, stays and fasteners as per iron mongery schedule, and all necessary accessories to "Union Manufacture or approved equal"; as per Architect's Drawings</i>				
H/1	C1 overall size 4750 x 17400mm high with 600 x 600mm high openable panels	NO	1		
H/2	C2 overall size 4750 x 13900mm high with 600 x 600mm high openable panels	NO	1		
	<b>ALUMINIUM WINDOWS</b>				
	<i>PURPOSE MADE ALUMINIUM CASEMENT WINDOWS: with Natural Anodised 100 x 50mm aluminium frame sections for single glazing, 6.5mm thick clear laminated reflective sheet glass and glazing with and including weather striping and all necessary; accessories and approved door hardware set, iron mongery to "ASSA ABLOY Manufacture or approved equal"; as per Architect's drawings</i>				
H/3	Sliding Window W1 overall size 2000 x 1500mm high PVO	NO	59		
H/4	Top Hung Window W2 overall size 600 x 900mm high PVO	NO	36		
	<i>PURPOSE MADE LOUVRED STANDARD Steel Section, permanent ventilation comprising 2mm thick mild steel sheet cranked louvers,120mm wide bent to shape and welded to 40mm x 40mm x 2mm SHS steel frame and one coat red oxide etching primer :as per architect's drawing; in</i>				
H/5	Window W3 overall size 400 x 1500mm high; louvred	NO	19		
	<i>PREPARE SURFACE AND APPLY ETCHING PRIMER; apply one coat primer, one undercoat and two Gloss finishing coats; on metal work : to</i>				
H/6	Window surfaces	SM	23		
H/7	Burglar proofing surfaces	SM	196		
	<b>CURTAIN RAILS</b>				
H/8	25mm diameter Stainless steel curtain rail screwed to the wall with and including wall hangers, runners, end stops complete with all necessary accessories or any other approved curtain blinds	LM	136		
	<b>TOTAL TO WINDOWS CARRIED TO SUMMARY</b>				

ITEM	DESCRIPTION	UNIT	QTY	RATE (USHS.)	AMOUNT (USHS.)
	<b>BILL NO.2</b>				
	<b>PROPOSED OFFICE BLOCK</b>				
	<b>ELEMENT NO.1</b>				
	<b>CEILING FINISHES</b>				
	<b>METAL LATH CEILING</b>				
	<i>Expanded Metal Lathe Plaster Ceiling comprising : 100 x 50mm sawn soft wood wall framing; 100 x 50mm joists at 600mm centers one way and 100 x 50mm branderling the other way including 50x50x3mm steel achors welded on the trusses 1000mm C/C; metal wire lathing nailed onto framework : 15mm thick mass concrete Class 10 (Pricking course) on top of lathing including necessary formwork : 15mm thick internal lime plaster</i>				
I/1	Ceiling	SM	436		
I/2	Extra over ceiling for trap door	NO	12		
	<b>INTERNAL LIME PLASTER first coat of cement lime and sand (1:2:9) second coat of cement, lime putty and sand (1:1:6) Steel trowelled smooth</b>				
I/3	25mm Thick two coat work to soffites of suspended slab	SM	1,483		
I/4	Ditto but to; Sides of beams	SM	500		
I/5	75 x 75mm cornice	LM	2,368		
	<b>PAINTING AND DECORATIONS</b>				
	<b>PREPARE AND APPLY ONE MIST COAT AND THREE COATS silk vinyl emulsion paint internally on:</b>				
I/6	Metal lathe surfaces	SM	436		
I/7	Plastered surfaces	SM	1,983		
I/8	Surfaces not exceeding 100mm girth	LM	2,368		
	<b>TOTAL TO CEILING FINISHES CARRIED TO SUMMARY</b>				

ITEM	DESCRIPTION	UNIT	QTY	RATE (USHS.)	AMOUNT (USHS.)
	<b>BILL NO.2</b>				
	<b>PROPOSED OFFICE BLOCK</b>				
	<b>ELEMENT NO.J</b>				
	<b>WALL FINISHES</b>				
	<b>EXTERNAL WALL FINISHES</b>				
	<b>CEMENT AND WASHED SAND (1:3) render trowelled smooth</b>				
J/1	25mm thick three layers' work to Walls	SM	3,000		
J/2	Extra over plaster; to create wall niches 25mm deep	SM	21		
	<b>PAINTING AND DECORATING</b>				
	<b>3mm THICK "GRAVIATO PERMACRETE PLASTER" OR OTHER EQUAL APPROVED COATING APPLIED by a Licensed applicator in accordance with manufacturers printed instructions, including matching undercoat and glazing on:</b>				
J/3	Rendered wall and concrete surfaces <b>PREPARE AND APPLY THREE COATS first grade weather guard emulsion paint : externally; on</b>	SM	3,000		
J/4	Ditto but; to window cills and coping surfaces	SM	380		
	<b>40mm THICK MACHINE CHISELLED DRESSED STONE QUION FACING, 400/600mm girth; bedded and jointed in and including cement sand 1:3 mortar; to Architect's Detailed Drawing; to</b>				
J/5	15mm thick wall rendering to receive tiles	SM	103		
	<b>INTERNAL WALL FINISHES</b>				
	<b>CEMENT AND SAND (1:4) WOOD FLOAT FINISHED to receive wall tiles</b>				
J/6	25mm thick wall screed to receive tiles	SM	500		
	<b>INTERNAL LIME PLASTER first coat of cement lime and sand (1:2:9) second coat of cement, lime putty and sand (1:1:6) Steel trowelled smooth</b>				
J/7	25mm Thick two coat work to walls.	SM	4,484		
J/8	Ditto but; to concrete surfaces	SM	150		
J/9	Ditto but; to reveals: average 200-300mm wide	LM	521		
	<b>SUPPLY AND FIX 6mm thick COLOURED GLAZED CERAMIC WALL TILES; bedded and jointed with approved adhesive; pointed in approved waterproof grout : to</b>				
J/10	Wall surfaces	SM	500		
J/11	Extra over for rounded top edge.	LM	233		
J/12	Extra over for polished aluminium corner strip <b>PREPARE AND APPLY ONE MIST COAT AND THREE COATS silk vinyl emulsion paint internally on:</b>	LM	105		
J/13	Plastered wall and concrete surfaces	SM	4,634		
J/14	Ditto but; to reveals: average 200 - 300mm wide	LM	521		
	<b>TOTAL TO WALL FINISHES CARRIED TO SUMMARY</b>				

2/J/1

ITEM	DESCRIPTION	UNIT	QTY	RATE (USHS.)	AMOUNT (USHS.)
	<b>BILL NO.2</b>				
	<b>PROPOSED OFFICE BLOCK</b>				
	<b>ELEMENT NO.K</b>				
	<b>FLOOR FINISHES</b>				
	<b>CEMENT SAND (1:4) SCREED finished smooth</b>				
K/1	40mm thick floor screed to receive floor tiles	SM	1,333		
	<b>WATER PROOFING TO WET AREAS</b>				
	<i>Crystalline Waterproofing compound or equal approved applied to screed prior to tiling; in accordance with the manufacturer's instructions;</i>				
K/2	Wet area floors	SM	400		
	<b>SUPPLY AND FIX 8mm THICK APPROVED NON-SLIP PORCELAIN FLOOR TILES with and including nosings, dividing strips and all accessories; bedded and jointed in and including approved adhesive : pointed with and including approved coloured grout : to</b>				
K/3	Floors	SM	400		
	<b>SUPPLY AND FIX 8mm THICK APPROVED PORCELAIN FLOOR TILES with and including nosings, dividing strips and all accessories; bedded and jointed in and including approved adhesive : pointed with and including approved coloured grout : to</b>				
K/4	Floors	SM	1,836		
K/5	150mm high skirting	SM	1,398		
	<b>POLISHED TERRAZO : FIRST COAT OF 35MM THICK WATER PROOF CEMENT AND SAND (1:3) SCREED; second coat of 25mm thick coloured cement and marble aggregate (1:2:5) including 15 x 3mm plastic dividing strips at 1200mm centers : in</b>				
K/6	Floors	SM	303		
K/7	Ditto for 150mm high skirting	LM	331		
	<b>SPLASH APRON</b>				
K/8	100mm thick concrete block edge downstand 450mm deep laid in cement and sand (1:4) mortar and rendered in cement and sand (1:3) including all necessary excavations and earth works and 75mm thick concrete (1:4:8) base.	LM	112		
K/9	50mm Paving slabs in 600 x 600mm panels laid to gentle falls with straight broken joints in both directions on and including a 20mm thick cement sand bed and a 75mm hardcore base well rammed.	SM	101		
	<b>TO FLOOR FINISHES CARRIED TO SUMMARY</b>				

2/K/1

ITEM	DESCRIPTION	UNIT	QTY	RATE (USHS.)	AMOUNT (USHS.)
	<b>BILL NO.2</b> <b>PROPOSED OFFICE BLOCK</b> <b>ELEMENT NO.L</b> <b>JOINERY FITTINGS</b> <i>Supply and fix the following Joinery fittings: including all labour and materials: painting and decoration: iron mongery and accessories where applicable; in:-</i> <b>LOW LEVEL KITCHEN WORKTOPS</b> <i>Worktops comprising of: 100mm thick concrete worktop reinforced with BRC mesh on and including 100mm thick block wall 1050mm high support at 2000mm (average) centers; finishes on top and fascia with 50mm thick granite; Drawer with 12mm thick back and sides, 25mm thick hardwood front, 6mm thick plywood base and; 75 x 25mm top and bottom hardwood fascia, 25mm hardwood lipped and fomica doors on 75 x 25mm hardwood frame; IRON MONGERY AND ACCESSORIES: painting and decorations s per Architect's detail drawing; in: -</i>				
L/1	Low Kitchen worktop size 1200mm high x 650mmdeep; to Architect's detailed drawing <b>HIGH LEVEL CABINETS</b> <b>HIGH LEVEL CUPBOARDS COMPRISING OF: 20mm hardwood fielded panel fronts on 75 x 25mm harwood frame; 25mm thick hardwood Top, middle and bottom blockboard partitions fixed on 25 x 50mm hardwood bearers; 100 x 25mm hardwood fascia and 25 x 15mm hardwood decorative beading at the front; ALL IRON MONGERY AND ACCESSORIES: painting and decorations as per Architect's detail drawing in: -</b>	LM	22		
L/2	Kitchen cupboard overall size 300mm wide x 600mm high; to Architect's detailed drawing	LM	22		
L/3	Allow for fixing of 100mmx 50mm well moulded hard wood mahogany timber as picture rails to walls or approved including two coats of varnish	LM	2,250		
L/4	Ditto but Dado rails	LM	1,800		
	<b>TOTAL TO JOINERY FITTINGS CARRIED TO SUMMARY</b>				

2/L/1



ITEM	DESCRIPTION	UNIT	QTY	RATE (USHS.)	AMOUNT (USHS.)
	<b>BILL NO.2</b>				
	<b>PROPOSED OFFICE BLOCK</b>				
	<b>ELEMENT NO.M</b>				
	<b>FURNITURE &amp; FITTINGS</b>				
	<b>Supply, Delivery and Installation of the following Office Furniture;</b>				
M/1	Executive Desk (2000 W x 1000 D x 760 H mm : four utility drawers. two letter/legal hanging file drawers (lockable), center drop-down keyboard tray and concealed CPU storage: Credenza (2000 W' x 530 D x 780 H mm): three utility drawers. one letter/legal hanging file drawer (lockable), sliding; printer shelf behind faux drawer front, center drop-down keyboard tray: Hutch (2000 W x 350 D x 1 1501-1 mm): Two glass doors, six shelves: Lateral file(850 W x 550D x 800H mm) : two letter/legal Hanging File Drawers (lockable): Bookcase(950 W x 380 D x 1800VI mm) : Each piece is constructed of wood veneers on hardwood solids:	No	2		
M/2	Executive Desk (2000 W x 950 D x 760 H mm : four utility drawers. two letter/legal hanging file drawers (lockable), center drop-down keyboard tray and concealed CPU storage: Credenza (2000 W' x 530 D x 780 H mm): three utility drawers. one letter/legal hanging file drawer (lockable), sliding; printer shelf behind faux drawer front, center drop-down keyboard tray: Each piece is constructed of wood veneers on hardwood solids:	No	18		
M/3	Executive Desk (Table measuring 1500mm X 800mm X 750mm) with a side-return (measuring 1000 x 500 x 750mm). Side return to have 4 fixed lockable drawers (3 No. each 350 x 175mm and 1 No. - 550 x 175mm). All made in high density MDF with a melamine finish or approved solid hard wood	No	8		
M/4	Executive Desk (Table measuring 1800mm X 900mm X 750mm) with a side-return (measuring 1000 x 500 x 750mm). Side return to have 4 fixed lockable drawers (3 No. each 350 x 175mm and 1 No. - 550 x 175mm), Supplied complete with a mobile pedestal with 3 drawers. All made in high density MDF with a melamine finish or in approved solid hard wood.	No	20		
M/5	Work Station Desk (Table measuring 1200mm X 800mm X 750mm) with lockable drawers made in high density MDF with a melamine finish) or in approved hardwood	No	8		
M/6	Executive High back chairs (Black colour), fabric finish, with swivel, 2 adjustable arm rests made in high density polypropylene, adjustable seat height, mounted on a 5 Star base with rolling castors.	No	15		
M/7	600x800mm x 450mm (H) Coffee Table made in high density MDF with a melamine finish.	No	8		
M/8	Executive High back mesh chairs (Black colour) with fabric seat, swivel, 2 adjustable arm rests made in high density polypropylene, adjustable seat height, mounted on a 5 Star base with rolling castors.	No	21		
M/9	Office chair swivel (Black colour) with adjustable mesh back, 2 arm rests overall size; H1190-1240-1340 x W680 x D660 made in high density polypropylene, adjustable seat height, mounted on a 5 Star base with rolling castors.	No	20		
M/10	High Storage Steel Cabinet (900 W X 450 D x 1800 H mm) with 4 adjustable shelves. Doors with 270-degree swing, lock and key, minimum shelf capacity of 35kg and minimum total weight 60kg)	No	41		
M/11	600x800mm x 450mm (H) Coffee Table made in high density MDF with a melamine finish or any approved hard wood.	No	4		
	<b>CARRIED TO COLLECTION</b>				

ITEM	DESCRIPTION	UNIT	QTY	RATE (USHS.)	AMOUNT (USHS.)
M/12	Six-seater sofa set finished with fabric, on fire retardant medium density foam on outers, high density foam on tops of arms, hardwood frame; screwed, glued & dowelled all as approved	Set	20		
M/13	Reception Counter custom made with lockable drawers and cabinets in approved solid hard wood to detailed drawings	No	1		
M/14	Shelf: - Overall size 1800 x 370 x 2100mm high; 5No. levels with 25mm thick block board; 25 x 25mm hardwood lipping; 12 x 75mm block board stopper; 25 x 40 x 2mm RI-IS main frame; 25 x 25 x 2mm mild steel angles; All steel Electrolytic powder coated with approved rubber shoes as per architect's drawing	No	50		
M/15	Load Trolley:- 25mm 16-gauge steel frame, with six non-slip rubber tyres that grip floor surfaces and ensure a quiet, wobble-free ride. Dimensions: H 1067 x W787 x D432mm. Trolley is supplied with 6x 127mm swivel castors, the two centre swivel castors are slightly lower to make the trolley easier to move over obstructions. Load capacity 500kg evenly distributed, finished in epoxy electrolytic paint,colour to be approved. Supply the trolley with an extra 6 non-slip rubber tyres.	No	4		
M/16	Boardroom Table - 12 seater oval shape with raised island as per the Drawing, made of high density MDF with a melamine finish) (Colour to be specified by the client)	No	1		
M/17	Cantilevered office chairs , fabric material and steel frame	No	65		
M/18	Boardroom Table - 8 seater oval shape with raised island as per the Drawing, made of high density MDF with a melamine finish) (Colour to be specified by the client)	No	1		
M/19	Cantilevered 3-Seater visitor's Waiting steel chairs	No	4		
<b>TO COLLECTION</b>					
<b>COLLECTION</b>					
Total carried forward from Page 2/M/1					
Total carried forward from Page 2/M/2					
<b>TO FURNITURE AND FITTINGS SUMMARY</b>					

ITEM	DESCRIPTION	UNIT	QTY	RATE (USHS.)	AMOUNT (USHS.)
	<b>BILL NO.2</b> <b>PROPOSED OFFICE BLOCK</b> <b>ELEMENT NO.N</b> <b>ELECTRICAL INSTALLATION</b> <b>Provide all materials, install, connect and set to work the following all as described in the Specifications and Drawings.</b>				
N/1	Lighting points wired by 3x1.5mm <sup>2</sup> SC PVC copper cables as Shule or other approved in 25mm heavy gauge PVC concealed conduit with drops concealed in walls to switch positions , PVC junction boxes complete with MK steel boxes and all accessories.	M	420		
N/2	Socket outlet points wired as a ring by 3 x 2.5mm <sup>2</sup> SC PVC copper cables as Shule or other approved in 25mm heavy gauge PVC concealed conduit/trunking complete with boxes for sockets on trunking and all accessories.	M	270		
N/3	Air Conditioning; with Indoor Units points wired by 3x2.5mm <sup>2</sup> SC PVC copper cables as shule or other approved in 25mm heavy gauge PVC surface/concealed conduit complete with all accessories.	No	10		
N/4	Fire Alarm points wired by approved fire resistant cables in 25mm heavy gauge PVC concealed conduit to work with all accessories.	M	350		
N/5	CCTV points wired by approved data cables in 25mm heavy gauge PVC concealed conduit/trunking complete with all accessories.	M	200		
N/6	3-Phase 100A 6 way TPN MCB wall mounted surface Distribution Board, complete with integral 100A TPN MCCB incomer, and the following outgoings: 9x32A SPN, 9x20A SPN MCBs, 6x10A SPN MCBs, and all accessories to approval (DB).	No	5		
N/7	150A isolater with outgoing to accommodate 5x3 phase Complete with all accessories	No	1		
N/8	4x25mm <sup>2</sup> amoured cable from distribution line to isolater	M	25		
N/9	5x16mm <sup>2</sup> SC concealed in PVC as load cable	M	4		
N/10	Place 50mm diameter PVC pipe sleeves in beams for passing conduits to the Structural Engineer's approval.	M	800		
N/11	Place 100mm diameter PVC pipes in beams for passing AC pipes to the Structural Engineer's approval.	M	600		
	<b>Lighting Fittings</b>				
N/12	Die-cast aluminium surface circular fitting down light with 15W LED Lamp, 250mm diameter to IP44, complete with all accessories to approval .	No	220		
N/13	Die-cast aluminium surface downlight 10W LED Lamp, 200mm diameter to IP21, complete with aluminium reflector, with emergency unit for 3hours to approval.	No	40		
N/14	Die-cast aluminium surface down lighter with 15W LED Lamp, 150mm diameter to IP21, complete with all accessories to approval .	No	100		
N/15	Ultra-slim white aluminium bodied maintained LED ceiling mounted Emergency EXIT sign, with engraved fire retardant acrylic sign blade, suitable for double sided viewing, with 3hour maintained format, to IP20 protection to approval (Light Type EXIT)	No	10		
N/16	T8 1x20W 1200mm single surface mounted bare batten LED luminaire to approval .	No	30		
N/17	Die-cast aluminium surface circular fitting down light with 10W LED Lamp, 200mm diameter to IP65, complete with all accessories to approval .	No	20		
N/18	Wall mounted 18W LED luminaire for AC 85-265V, to IP44 complete with mounting bracket and all accessories to approval.	No	10		
	<b>CARRIED TO COLLECTION</b>				

ITEM	DESCRIPTION	UNIT	QTY	RATE (USHS.)	AMOUNT (USHS.)
	<b>Light Switches</b> <b>Supply and fix the following as G &amp; T type or other approved.</b>				
N/19	6A 1 gang 1 way light switch to approval complete with all accessories.	No	75		
N/20	6A 2 gang 1 way light switch to approval complete with all accessories.	No	10		
N/21	6A 3 gang 1 way light switch to approval complete with all accessories.	No	5		
N/22	6A 1 gang 2 way light switch to approval complete with all accessories.	No	8		
N/23	6A 2 gang 2 way light switch to approval complete with all accessories.	No	7		
N/24	6A 3 gang 2 way light switch to approval complete with all accessories.	No	5		
	<b>SOCKETS</b> <b>Supply and fix the following as G &amp; T type or other approved.</b>				
N/25	13A 3pin twin switched socket outlets on wall/trunking to approval	No	200		
N/26	20A DP Switch for Heavy duty appliances to approval	No	70		
N/27	Automatic HAND DRYER to approval complete with all accessories.	No	10		
N/28	DP points wired by 3x2.5mm <sup>2</sup> SC PVC copper cables in 25mm heavy gauge PVC surface/concealed conduit complete with all accessories.	M	70		
	<b>LIGHTENING PROTECTION</b>				
N/29	Allow for excavation of manhole and trench.	Sum	1		
	<b><u>Supply, install, connect and set to work the following, all as described in the specifications and drawings</u></b>				
	<b><u>Earthing</u></b>				
N/30	Inspection chamber : size 300 x 300mm internal dimension complete with lid and finishes	No	1		
	<b><u>Connections</u></b>				
N/31	Copper tape of hard drawn high conductivity copper Tape 3 x 25mm cross section for horizontal and down conductors, and bonding conductors complete with fixing clips (conceal in conduits) and all the necessary accessories as by FURSE or equal approved.	M	22		
N/32	1200mm x 20mm solid copper bond earth rod or 600x600mm Earth mat : complete with couplers and driving tips	No	1		
N/33	Type A rod to clamp	No	2		
N/34	25mm x 3mm copper square test(Block) clamp	No	1		
N/35	Air terminals complete with tape adaptor and all the necessary accessories as by FURSE or equal approved	No	1		
	<b>TO COLLECTION</b>				
	<b><u>COLLECTION</u></b>				
	Total carried forward from Page 2/N/1				
	Total carried forward from Page 2/N/2				
	<b>TOTAL TO ELECTRICAL INSTALLATION CARRIED TO SUMMARY</b>				

ITEM	DESCRIPTION	UNIT	QTY	RATE (USHS.)	AMOUNT (USHS.)
	<b>BILL NO.2</b>				
	<b>PROPOSED OFFICE BLOCK</b>				
	<b>ELEMENT NO.0</b>				
	<b>ICT INSTALLATION</b>				
	<b>DATA CONNECTION</b>				
O/1	Allow a PC Sum of UGX 40Million for data and voice connection to the site from an internet service provider (ISP) and This will include but not limited to the following: connection fees, a suitable switch, 40 line outgoing PABX, rack cabinet, CAT6 cable, Fibre optics cable and all other sundry items	Item	1		
O/2	Twin RJ45 outlets for UTP Cat 6 for Voice and Data as Siemens or equal approved mounted on trunking complete with all accessories.	No.	70		
O/3	Local Area Network (LAN) wired using CISCO Ethernet Cable, Cat6 Cables or Siemens or equal approved in the trunking specified	LM	1000		
O/4	Ethernet switch to CISCO or , Catalysts 4003, 48 Port with capability for up grade to up to 96 and 10/100/1000mps Ethernet ports or equivalent	No.	4		
O/5	Supply and installation of 6U Rack cabinet c/w all accessories as Siemens or equal	No.	4		
O/6	3-Compartment prestige skirting and DADO trunking (for data, telephone and power socket outlets), c/w all necessary accessories such as couplers, end caps, internal bends, external bends, flat angles, flat tees... etc to MARSHALL-TUFFLEX manufacture, or approved equivalent	LM	500		
O/7	Linksys Wi-Fi (wireless) Router WTR54GL with 2 external antennas, 4 ethernet ports, 10/100mps c/w all other accessories or equal approved	No.	8		
	<b>OVERHEAD PROJECT OUTLET</b>				
O/8	Over head Projector outlet point consisting of about 20m of 50mm PVC conduit to connect overhead projector point on ceiling to wall outlets for power and video signal complete with bends and all accessories.	No.	2		
	<b>FIRE DETECTORS</b>				
O/9	Optical smoke detectors, surface mounted as menvier or other approved	No.	85		
O/10	Ditto but heat detector	No.	2		
O/11	Four ways addressable fire alarm digital control panel centrally located which can detect and indicate location of fault or fire issue as menvier or other approved	No.	1		
O/12	Fire alarm sounders as menvier or other approved	No.	5		
O/13	Fire alarm break glass as menvier or other approved	No.	15		
	<b>CCTV SURVEILLANCE SYSTEMS:</b>				
	<b>Supply and install the following elements (c/w fixing and mounting accessories) of the Bosch Security Systems or approved equivalent. The rate shall include "As-Built" Drawings, Manuals, Testing and Commissioning the System to the Satisfaction of the Engineer.</b>				
O/14	Indoor Dome colour camera as BOSCH AutoDome® Easy IP Compact PTZ Camera, with Advanced H.264 compression technology, Ultra-compact for discrete surveillance and improved aesthetics, 100x zoom (10x optical, 10x digital), or approved equivalent.	No.	16		
O/15	Outdoor day and night operation high resolution camera c/w vandal housing, IP67, 12Vac/dc power supply and all accessories as Bosch or equal	No.	20		
O/16	Conduiting to the CCTV points using 25mm diameter PVC conduit network installed as per the Drawings c/w with MK boxes.	LM	200		
O/17	RG-6 copper (camera) coaxial cable to be drawn in the conduiting sepeiced above	LM	200		
	<b>CARRIED TO COLLECTION</b>				

2/0/1

ITEM	DESCRIPTION	UNIT	QTY	RATE (USHS.)	AMOUNT (USHS.)
O/18	High resolution (550 TV lines of resolution), high performance color video display monitor, with a 51 cm (20 in.) viewable picture area and multi-standard compatibility, a built-in loudspeaker and inputs able to auto-sense NTSC and PAL signals and two loop-through composite video and audio inputs as BOSCH LTC 2821/91 Color Video Monitor, or approved equivalent.	No.	1		
O/19	Hybrid Digital Recorder, with Real-time H.264 recording and playback in genuine 4CIF resolution, Hybrid recording of up to 16 analog cameras and up to 8 additional H.264 IP cameras, Internal storage up to 2TB on four front-accessible hard drives and On-board RAID-4 support as BOSCH Divar XF Series, or approved equivalent. <b>Air Condition</b>	No.	1		
O/20	Daiken Air conditioner ,24000 BTU/ hr with dual inverter compressor, power protection device and oscillating air vent or other approve complete with indoor unit and other accessories	2	No		
O/21	Ditto but BTU 14000/Hr	8	No		
<b>CARRIED TO COLLECTION</b>					
<p><b><u>COLLECTION</u></b></p> <p>Total carried forward from Page 2/O/1</p> <p>Total carried forward from Page 2/O/2</p>					
<b>TOTAL TO ICT INSTALLATION CARRIED TO SUMMARY</b>					

ITEM	DESCRIPTION	UNIT	QTY	RATE (USHS.)	AMOUNT (USHS.)
	<b>BILL NO.2</b> <b>PROPOSED OFFICE BLOCK</b> <b>ELEMENT NO. P</b> <b>MECHANICAL INSTALLATIONS</b> <b>Provide all materials, install, connect and set to work the following all as described in the Specifications and Drawings including pressure testing as directed by the Engineer;</b> <b>FIRE FIGHTING INSTALLATION</b> <b>HOSE REEL</b>				
P/1	50mm diameter GI pipe from water tank to hose reels complete with all accessories.	30	LM		
P/2	Ditto But 25mm	50	LM		
P/3	25mm globe valves	4	No		
P/4	Swinging arm automatic semi-rigid hose reel 19mm diameter and 30m long to BSEN 671-1-2001 and BSEN 694-2001 complete with all accessories including wall mounting box, Heavy Jet and Spray nozzle and all accessories to approval	4	No		
	<b>FIRE EXTINGUISHER</b>				
P/5	Carbon Dioxide portable fire extinguisher 5kg CO2 gas extinguisher to approval	No.	20		
P/6	Dry powder portable fire extinguisher 9 kg to approval	No.	20		
	<b>SANITARY FITTINGS</b>				
P/7	WC pan for flush valve, white colour, vitreous china to BS 3402 with horizontal outlet complete with WC pan with fixing kit and WC inlet connector, removable plastic seat and cover with self closing system to approval .	No.	35		
P/8	Concealed Flush valve for above WC Pan to approval 1-1/4" back entry type, with integral vacuum break, non-hold-open feature and non-return valve, inlet control stop and wall plate complete with all accessories.	No.	35		
P/9	530x450mm Countertop Vitreous China Wash Hand Basin, with one tap hole 38mm chrome plated chain waste, plastic bottle trap, complete with all accessories to approval	No.	27		
P/10	Push type control pillar tap, single temperature 1/2" BSP F1 complete with pillar tap, mounting kit, to approval	No.	27		
P/11	Vitreous China semi-recessed toilet roll holder complete with fixing to the wall to approval	No.	35		
P/12	Vitreous China Urinal Bowl complete with 38mm chrome plated waste, for flush valve fittings complete with all accessories to approval	No.	8		
P/13	Concealed Flush valve for above Urinal Bowl to approval 1-1/4" top entry type, with integral vacuum break, non-hold-open feature and non-return valve, inlet control stop and wall plate complete with all accessories.	No.	8		
P/14	6mm glass plate mirror size 610x475mm with bevelled edges complete.	No.	12		
P/15	PWD Suite with Vitreous China low level, with 6no Grab rails in powder coated aluminium and P outlet 6 litre cistern, valve fittings complete with seat and cover and all accessories, with washbasin and non-concussive tap, bottle trap and all accessories to approval	No.	8		
	<b>KITCHEN SINK</b>				
P/16	Stainless Steel Kitchen Sink, single bowl single drain approximately 1000x500x200mm, rimless, with overflow, plastic waste, plastic bottle trap, bib mixer tap, and all accessories.	No.	1		
	<b>CARRIED TO COLLECTION</b>				

ITEM	DESCRIPTION	UNIT	QTY	RATE (USHS.)	AMOUNT (USHS.)
P/17	Pressure type under sink water heater 35litres with glass lining complete with all accessories to approval for Kitchen. <b>WATER SUPPLY PIPES AND RESERVOIR</b> All pipe work shall be PPR PN25, all diameters below are outer diameter and shall be complete with bends elbows, tees and all other accessories and shall be inclusive of all builder's work.	No.	1		
P/17	50mm Pipe work complete.	LM	154		
P/18	40mm Pipe work complete.	LM	167		
P/19	32mm Pipe work complete.	LM	234		
P/20	25mm Pipe work complete.	LM	180		
P/21	20mm Pipe work complete.	LM	150		
P/22	50mm globe valves	No.	20		
P/23	32mm globe valves	No.	32		
P/24	25mm globe valves	No.	15		
P/25	20mm globe valves	No.	18		
P/26	15mm angle valves	No.	8		
P/27	13mm stainless steel braided tubing 300mm long including unions and jointing to steel pipes.	No.	35		
P/28	Supply, install and set to work heavy duty fiber reinforced plastic water tank; 10,000 litres capacity and mounted on concrete roof top complete with top cover, delayed action valves, CAT ladder for access and all other accessories ready to work	No.	2		
P/29	Fire horse reel DAYLIFF DFS 5 high performance fire hose reel pumps( DB 8-50) or other approved complete with low maintenance GWS diaphragm type pressure tank <b>FOUL WATER PIPE/SEWERS</b> Supply and fix the following in PVC soil and waste system to BS 4514 with fittings, fixed according to the manufacturer's printed instructions and BS 5572:1978 all to approval complete with all fittings and accessories.	No.	1		
P/30	110m PVC soil waste pipe PN 16 on wall/ground and or in duct.	LM	140		
P/31	50mm PVC soil waste pipe on wall, in wall and or in duct.	LM	100		
P/32	38mm PVC soil waste pipe on wall, in wall and or in duct.	LM	60		
P/33	160mm PVC soil waste pipe in ground PN 16	LM	30		
P/34	4way Floor traps complete with stainless steel grating and all accessories.	No.	18		
P/35	PVC Gully Trap in masonry wall complete with steel cover and all accessories.	No.	6		
P/36	Excavate for and construct manhole size 450mmx600mm depth to invert level (average) 600mm built in 200mm thick concrete block walling in 1:4 cement mortar walls plastered inside with approved water proofing additive in two coats:150mm concrete mix (1:3:6-20mm aggregate) base 1000mmx150mm (average) thick benching including 2No straight and curved 150mm half round main channel:150mm thick slab, 610mmx450mm rebate opening and double seal heavy duty cast iron cover including all accessories as per drawing.	No.	10		
P/37	Excavate for and construct manhole size 750mmx600mm depth to invert level (average) 1000mm built in 200mm thick concrete block walling in 1:4 cement mortar walls plastered inside with approved water proofing additive in two coats:150mm concrete mix (1:3:6-20mm aggregate) base 1000mmx150mm (average) thick benching including 2No straight and curved 150mm half round main channel:150mm thick slab, 610mmx450mm rebate opening and double seal heavy duty cast iron cover including all accessories as per drawing.	No.	8		
	<b>CARRIED TO COLLECTION</b>				



ITEM	DESCRIPTION	UNIT	QTY	RATE (USHS.)	AMOUNT (USHS.)
	<p style="text-align: center;"><b><u>COLLECTION</u></b></p> <p>Total carried forward from Page 2/P/1  Total carried forward from Page 2/P/2</p>				
	<b>TOTAL TO MECHANICAL INSTALLATION CARRIED TO SUMMARY</b>				