

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
	<b><u>ELEMENT NO. 1</u></b>				
	<b><u>SUBSTRUCTURE</u></b>				
	<b><u>(All Provisional)</u></b>				
A	Clear site of all grass and small trees not exceeding 600mm girth and cart away or burn arisings	311	SM		
B	Excavate oversite to remove vegetable top soil average 150mm deep and cartaway to spoil heaps as directed on site	311	SM		
C	Excavate to reduce level to remove black cotton or clay soil not exceeding 1.5m deep from stripped level and cart away	434	CM		
D	Excavate for foundation strip footing in normal soil not exceeding 1.5m deep from reduced level	154	CM		
E	Ditto; but for column bases	138	CM		
F	Return, fill and ram selected excavated material around	159	CM		
G	Load, wheel and cart away from site surplus excavated material and deposit in approved dumping area	133	CM		
H	Extra over all kinds of excavation for excavating in rock	86	CM		
I	Allow for keeping excavations free from all water by pumping or otherwise		Item		
I	Ditto; for plunking and strutting to sides of excavations		Item		
K	300mm Thick (average) approved broken quarry stone hardcore filling in two equal lavers well rolled and	289	SM		
L	50mm thick stone dust blinding to surface of hardcore	289	SM		
	<b><u>Concrete works</u></b>				
M	50mm plain concrete mix (1:3:6 - class 15/20mm) Strip footing	83	SM		
N	Column Bases	74	SM		
	<b>TOTAL CARRIED TO COLLECTION</b>				

KARAGITA DISPENSARY  
BUILDERS WORK

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
A	<i>Vibrated Reinforced Concrete mix (1:11/2:3) class</i>	17	CM		
B	Column Bases	22	CM		
C	150 mm thick floor bed	289	SM		
D	Columns	3	CM		
E	Ground beam	11	CM		
F	Steel fabric mesh reinforcement type A142 weighing 2.22kg to BS 4483 with 150mm side laps (measured net- no allowance for laps)	289	SM		
G	Marine ply formwork to:- Sides of strip footing	55	SM		
H	Sides of columns bases	49	SM		
J	Sides of columns	36	SM		
K	Sides of columns to 150mm radii	1	SM		
L	Sides of ground beam	108	SM		
M	Edges of ground floor bed exceeding 75mm but not	77	LM		
	<b>Masonry Works</b>				
N	200mm thick natural stone walling; quarry dressed bedded and jointed in cement sand(1:3) mortar;reinforced with hoop iron at alternate courses	219	SM		
P	Dragnet or other equal and approved antitermite insecticide treatment to blinded hardcore surfaces applied in accordance with manufacturer's instructions	289	SM		
	<b>Damp proofing</b>				
Q	1000 gauge polythene sheeting laid under concrete floor bed	289	SM		
<b>TOTAL CARRIED TO COLLECTION</b>					

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
	<b>Reinforcement</b>				
A	8mm diameter bars in foundation columns	20	KG		
B	10mm ditto	222	KG		
C	12mm ditto	61	KG		
D	16mm ditto	653	KG		
E	12mm diameter bars in column bases	787	KG		
F	8mm diameter bars in stip foundation	164	KG		
G	10mm ditto	363	KG		
H	8mm diameter bars in gound beam	235	KG		
J	12mm ditto	637	KG		
K	12 mm thick cement sand render mix 1:4 wood floated to plinth surfaces	23	SM		
L	Prepare and apply three coats bitumastic paint to	23	SM		
<b>TOTAL CARRIED TO COLLECTION</b>					
	<b>COLLECTION</b>				
	Brought forward from page 1				
	Brought forward from page 2				
	Brought down from above				
<b>TOTAL FOR SUBSTRUCTURE CARRIED TO SECTION SUMMARY</b>					

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
	<b>ELEMENT 02</b>				
	<b><u>REINFORCED CONCRETE SUPERSTRUCTURES</u></b>				
	<b>Vibrated reinforced concrete (1:1<sup>1</sup>/<sub>2</sub>:3) Class 25/20mm in:</b>				
A	Beams	18	CM		
B	Columns	5	CM		
C	Suspended floor slab, <b>Reinforcement</b> Ribbed Steel Bars cold worked to BS 4461 including bends, hooks, tying wire, distance block and spacers	230	SM		
D	8mm diameter bars in beams	479	KG		
E	12mm ditto	668	KG		
E	16mm ditto	256	KG		
G	8mm diameter bars in columns	25	KG		
H	10mm ditto	380	KG		
J	12mm ditto	35	KG		
K	16mm ditto	914	KG		
L	Bars of various sizes in suspended floor slab	3450	KG		
	<b>Marine ply formwork to</b>				
M	Sides and soffits of beams	176	SM		
N	Vertical Sides of columns	66	SM		
P	Sides of columns to 150mm radii	4	SM		
Q	Soffites of suspended slabs	230	SM		
	<i>Sawn formwork to:</i>				
R	Edges of suspended floor slab 75-150mm wide	78	LM		
	<b>Worktops</b>				
S	Concrete class 25/20 in 75mm thick worktops	8	SM		
T	Steel fabric mesh reinforcement type A142 weighing 2.22kg to BS 4483 with 150mm side laps (measured net-	8	SM		
U	Marine ply formwork to soffits and sides of worktop	11	SM		
V	Sawn formwork to edges of worktop n.e 75mm wide	13	LM		
<b>TOTAL FOR SUBSTRUCTURE CARRIED TO SECTION SUMMARY</b>					

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
	<b>STAIRCASE ( 1 NO.)</b> <i>Vibrated Reinforced Concrete class 25/20 mm mix 1:1 1/2:3 in:-</i>				
A	Flights of stairs	2	CM		
	<i>Vibrated Reinforced Concrete class 25/20 mm mix 1:1 1/2:3 in:-</i>				
B	175 mm thick landing	4	SM		
	<i>Ribbed Steel Bars cold worked to BS 4461 including bends, hooks, tying wire, distance block and spacers</i>				
C	12mm diameter bars	889	KG		
D	10mm ditto	23	KG		
	<b>Marine ply formwork to:</b>				
E	Sloping soffits of staircase	8	SM		
F	Horizontal soffits of landing	3	SM		
G	Edges of landing 150 - 225 mm thick	5	LM		
H	Edges of risers 150 - 225 mm high	23	LM		
J	Open string of staircase 225 - 300 mm high including cutting to profile of treads	6	LM		
	<b>RAMP ( 1 NO.)</b> <i>Vibrated Reinforced Concrete class 25/20 mm mix 1:1 1/2:3 in:-</i>				
K	Raking beams	3	CM		
L	Horizontal beams	1	CM		
M	150 mm thick suspended ramp	31	SM		
N	150 mm thick landing	9	SM		
	<b>Marine ply formwork to:</b>				
P	Sides and soffits of horizontal beam	9	SM		
Q	Ditto raking beam	37	SM		
R	Raking soffits of suspended ramp slab	31	SM		
S	Horizontal soffits of ramp landing	9	SM		
T	Ditto to raking sides of ramp 75 - 150 mm high	10	LM		
U	Ditto to horizontal landing 75 - 150 mm thick	1	LM		
<b>TOTAL CARRIED TO COLLECTION</b>					

KARAGITA DISPENSARY  
BUILDERS WORK

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
	<u>Reinforcement</u>				
A	<i>Ribbed Steel Bars cold worked to BS 4461 including bends, hooks, tying wire, distance block and spacers</i> 8 mm diameter bars in ramp works	104	KG		
B	10 mm ditto	604	KG		
C	12 mm ditto	80	KG		
D	16 mm ditto	115	KG		
E	20 mm ditto	154	KG		
	<b>TOTAL CARRIED TO COLLECTION</b> <b><u>COLLECTION</u></b>				
	Brought forward from page GF4				
	Brought forward from page GF/5				
	Brought down from above				
	<b>TOTAL FOR RC SUPERSTRUCTURE CARRIED TO SECTION SUMMARY</b>				

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
	<b>ELEMENT NO. 3 WALLING</b>				
	<b>External Wall</b> <i>Approved load bearing machine dressed 'Ol Kalou' natural stone walling; bedded and jointed in cement sand mortar mix 1:3; with hoop iron at every alternatina course</i>				
A	200mm thick walling	125	SM		
	<b>Internal walling</b> <i>Approved load bearing machine dressed "Ol Kalou" natural stone walling cement sand mortar mix 1:3; with hoop iron at every alternating course natural stone walling; bedded and jointed in</i>				
B	200 mm thick walling	180	SM		
C	150 mm thick ditto	5	SM		
D	100 mm thick ditto	22	SM		
	<b>Waterproofing</b>				
F	250 mm wide Hesian based bituminous damp proof course bedded and jointed in cement sand mortar mix 1:3 under walling	145	LM		
G	200 mm wide ditto	2	LM		
H	150 mm wide ditto	9	LM		
<b>TOTAL FOR WALLING CARRIED TO SECTION SUMMARY</b>					

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
	<b>ELEMENT NO 4 DOORS</b>				
	Mild steel casement double grilled double door D05 comprising 50 x 50 x 3mm rolled hollow section frame all round in filled with 30 x 30 x 2mm thick RHS vertical baluster 150mm center and similar horizontal member at 200mm centers in a straggled configuration overall size 1500 x2400mm high				
A	Mild steel paneled double door D01 overall size 1200x 1200x2400mm high in 2No. equal leaves each leaf complete with 100x50x3mm RHS framing and metal lugs, glass panes and one coat of primer before delivery to the site.	1	NO		
B	<i>5 mm Thick one way glass and glazing to metal with glazing compound</i>	3	NO		
C	Panes 0.5 to 1.00 square metres	2	SM		
	<b>Flush doors</b>				
D	45mm thick solid core flush door single leaf D02 overall size 900 x 2400 mm of 900 x 250 mm high glazed fan light (m/s) to 900 x 2100mm high openable leaf faced with high comprising interior quality mahogany interior quality mahogany veneer both sides and hardwood lipped all round veneer both sides and veneer both sides and hardwood lipped all round	7	NO		
E	Ditto D03 overall size 800 x 2100mm high without a glazed fan light	4	NO		
	<b>Swing Door</b>				
F	Ditto D04 overall size 900 x 2100mm high double acting flush door	1	NO		
	<b>The following in wrot mahogany</b>				
G	100x50mm frame with one labour plugging	68	LM		
H	100x50mm transome two labours	10	LM		
J	40 x 15mm architrave with one labour	65	LM		
K	25mm quadrant	65	LM		
L	25 x 25mm glazing beads <i>4mm thick clear sheet glass to wood:</i>	17	LM		
M	Panes 0.1 to 0.5 square metres	2	SM		
	<b>TOTAL CARRIED TO COLLECTION</b>				



ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
	<b>DOORS CONT'D</b>				
	<b>Ironmongery</b>				
	<i>Supply and fix the following ironmongery as union or other equal and approved to doors with matching screws</i>				
A	Steel door 5 lever door lock	1	NO		
B	Cylinder Bathroom lock set with turn handle and rose in satin anodized aluminium set of lever furniture Ref. Toucan DS-051	6	NO		
C	Double cylinder lock set with handle on plate complete with lever furniture ditto. Ref. Elegance LS-C85-306 SN	6	NO		
D	Double cylinder lock set for double door with satin anodized aluminium set of lever furniture Ref. Elegance LS-C85-306 SN	3	NO		
E	100mm stainless steel bearing butt hinges Ref. BB-403030-SS	22.5	PRS		
F	Double-action spring hinges for solid core flush door up to 15 kgs	1.5	PRS		
G	Door closer as Union Ref. 8834	10	NO		
H	38mm diameter rubber door stop plugged to floor	10	NO		
J	305 x 200mm push plate satin anodised aluminium	10	NO		
K	225mm long pull handle union Ref: PH9-SS	10	NO		
	<b>Painting</b>				
	<i>Prepare and apply two undercoats stainer and two finishing coats of varnish to:-</i>				
L	General surfaces of doors	47	SM		
M	Surfaces not exceeding 100mm girth	225	LM		
	<b>Touch up primer and apply one undercoat and two finishing coats of 1st quality supergloss paint to:-</b>				
N	General metal surfaces	24	SM		
	<b>TOTAL CARRIED TO COLLECTION</b>				
	<b>COLLECTION</b>				
	Brought forward from page 8				
	Brought forward from above				
	<b>TOTAL FOR DOORS CARRIED TO SECTION SUMMARY</b>				

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
	<b>ELEMENT NO 5 WINDOWS</b>				
A	<i>Fine chiseled "Blue Njiru" stone walling in cement 150 x 22mm cill, bedded and jointed in cement and sand 1:1 and pointed in coloured cement mortar</i> <i>Supply and fix double metal curtain rods from Challenge Engineering or other equal and approved comprising of 25mm diameter wrought iron front</i> <b>16mm diameter rear rail complete with fixing brackets, curtain holding rings and decorative end stops and all necessary paintwork</b>	37	LM		
B	Curtain rods <b>Casement Windows</b> <i>Supply, assemble and fix the following purpose-made mild steel windows casement complete with all opening accessories, 50 x 50mm thick frame units; including "snap on" 30mm wide permanent vent; building in lugsto jambs; plugging and screwing head and cill; bedding frames in waterproof cement mortar and pointing in approved mastic externally; fixing 5mm thick reflective glass m.s oiling, easing and adjusting as described in the following overall sizes</i>	37	LM		
C	2100 x 1400 mm high (W01)	8	NO		
D	1500 x 1500 mm high (W02)	3	NO		
E	1500 x 800 mm high (W03)	7	NO		
F	650 x 800 mm high (W04)	2	NO		
G	<b>Burglar proofing</b> Supply and install burglar proofing grille to the windows comprising of 16mm diameter bars; welded vertically and horizontally at 150mm centers; including making grooves on the walls, welding to the existing windows and making good disturbed surfaces	40	SM		
H	<b>Glazing</b> 5 mm Thick one way sheet glass and glazing in panes 0.1 - 1.0sm with Putty compound	36	SM		
J	Ditto obscured glass	4	SM		
K	<i>Prepare and apply one undercoat and two finishing coats of 1st quality supergloss paint to:-</i> Surfaces exceeding 100 but not exceeding 200mm girth on window cill	37	LM		
L	<b>Touch up primer and apply one undercoat and two finishing coats of 1st quality supergloss paint to:-</b> Metal Casement surfaces measured both sides	40	SM		
M	Ditto to burglar proofing	40	SM		
<b>TOTAL FOR WINDOWS CARRIED TO SECTION SUMMARY</b>					

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
	<b>ELEMENT NO. 6 : FINISHES FLOOR FINISHES</b>				
	<b><u>Terrazzo</u></b> <i>Cement and sand screed mix 1:4</i>				
A	20 mm thick screed backing under floors finished with wood float to receive terrazzo	13	SM		
B	20mm thick paving to floor polished smooth complete with and including 40x4mm thick plastic divindings strips	13	SM		
C	20x100mm high skirting rounded top edge and coved junction with floor	7	LM		
D	20 mm thick cement sand screed 1:3 screed backing under floors finished with wood float	197	SM		
E	20mm thick paving to floor polished smooth complete with and including 40x4mm thick plastic divindings strips	168	SM		
F	20mm thick paving to floor polished smooth complete with and including 40x4mm thick plastic divindings strips in wet areas	29	SM		
G	20x100mm high skirting rounded top edge and coved junction with floor	131	LM		
	<b>CEILING FINISHES</b>				
H	<i>15 mm thick cement sand lime plaster mix 1:2:9 to:-</i> Soffits of suspended floor slab	207	SM		
J	<b><i>Prepare and apply one undercoat and two finishingcoats of 1st quality silk vinyl paint to:-</i></b>				
	General plastered surfaces of horizontal suspended	207	SM		
	<b><u>External Wall Finishes</u></b>				
K	Extra over natural stone walling for neat flush horizontal and vertical joints in coloured cement mortar	109	SM		
	<b><i>15 mm thick cement sand render mix 1:4 to:-</i></b>				
L	Columns	19	SM		
M	Ditto beams	46	SM		
	<b>Internal Wall Finishes</b>				
	<i>Cement and sand screed mix 1:3</i>				
N	15 mm thick screed backing to wall finished with wood float to receive tiles	130	SM		
	<b>TOTAL CARRIED TO COLLECTION</b>				

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
	<b>Coloured glazed ceramic wall tiles and fittings (Kitchennette and cloakroom)</b>				
A	200 x 300 x 6mm as manufactured by "Saj ceramic" or other approved coloured tiles bedded and jointed in cement and sand 1:1 and pointed in coloured cement grouting (washrooms)	130	SM		
B	15 mm thick cement sand lime plaster mix 1:2:9 to wall surfaces	471	SM		
C	<b>Prepare and apply one undercoat and two finishing coats of 1st quality silk vinyl paint to:-</b> General plastered surfaces of walls	471	SM		
	<b>COURTYARD</b>				
D	600x600x50mm thick precast concrete paving slabs on and including 50mm bed of fine sand jointed in cement mortar (1:4)	42	SM		
E	200mm thick hand packed hardcore filling well rammed and consolidated to make up levels	42	SM		
F	Dig over surfaces of filling of all configurations including clearing site off all vegetation and remove debris and large stones from site rake to bring to fine tilth	42	SM		
	<b>Worktops</b>				
G	15 mm thick cement sand lime plaster mix 1:2:9 to wall surfaces	6	SM		
H	Prepare and apply one undercoat and two finishing coats of 1st quality silk vinyl paint to plastered	6	SM		
J	Supply and fix marble worktop to nurse station complete with the fixing adhesive	3	SM		
K	15 mm thick cement sand screed 1:3 backing to wall finished with wood float to receive tiles	6	SM		
L	200 x 300 x 6mm as manufactured by "Saj ceramic" or other approved coloured tiles bedded and jointed in cement and sand 1:1 and pointed in coloured cement grouting	6	SM		
	<b>Stair finishes</b>				
M	12 mm thick cement sand lime plaster mix 1:2:9 to:- Sloping soffits of stairs	8	SM		
N	Horizontal soffits of landing	3	SM		
	<b>TOTAL CARRIED TO COLLECTION</b>				

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
	<b>20 mm thick cement sand screed mix 1:3 trowelled rough to receive terrazzo on:-</b>				
A	300 mm wide treads	8	SM		
B	150 mm high risers	4	SM		
C	Landing	3	SM		
D	Edge of upto stair string 300mm wide	1	SM		
	<b>20 mm thick polished white cement based terrazzo paving to floor polished smooth complete with and</b>				
E	328 mm wide treads	8	SM		
F	158 mm high risers	4	SM		
G	Landing	3	SM		
H	Edge of stair 300mm wide	1	SM		
J	20 x 100 mm high skirting rounded top edge and cored junction with floor	12	LM		
K	Non slip carborundum inset to treads	23	LM		
	<b>Prepare and apply one undercoat and two finishing coats of vinyl matt plastic emulsion</b>				
L	Sloping soffits of stairs	8	SM		
M	Horizontal soffit of landing	3	SM		
	<b><u>Ramp finishes</u></b>				
	<b>12mm thick cement sand (1:6) plaster to:</b>				
N	Beams	46	SM		
P	Sloping soffits of ramp	31	SM		
Q	Horizontal soffites of landing	9	SM		
S	Edges of ramp and landings	2	SM		
	<b>20mm thick cement sand (1:3) screed backing trowelled rough to receive terrazzo on:</b>				
T	Horizontal landings	9	SM		
U	Sloping ramp	31	SM		
	<b>20mm polished terrazzo on with 40x4mm thick white pvc dividing strip</b>				
V	Floor level	9	SM		
W	Sloping Ramp	31	SM		
X	20x100mm high skirting rounded top edge and coved junction with floor	26	LM		
	<b>TOTAL CARRIED TO COLLECTION</b>				

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
	<i>Prepare and apply one undercoat and two finishing coats of vinyl matt plastic emulsion</i>				
A	Ramp beam	46	SM		
B	Sloping soffits of ramp	31	SM		
C	Horizontal soffit of landing	9	SM		
D	Edges of Ramp	2	SM		
<b>TOTAL CARRIED TO COLLECTION</b>					
	<b>COLLECTION</b>				
	Brought forward from page 11				
	Brought forward from page 12				
	Brought forward from page 13				
	Brought down from above				
<b>TOTAL FOR FINISHES CARRIED TO SECTION SUMMARY</b>					

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
	<b>ELEMENT NO. 7 BALUSTRADING &amp; RAILINGS</b>				
	The following in staircase/ramp balustrades:-				
A	Supply and fix prepainted mild steel 50 mm diameter Circular Hollow Section handrail; 25 x 25 x 2mm m.s SHS balusters 1200mm high at 150mm c/c welded on 50 x 50 x 2mm m.s SHS bottom rail	24	LM		
B	<i>Touch up primer and apply one undercoat and two finishing coats of 1st quality supergloss paint to:-</i> General surface of balustrading(measured overall)	28	SM		
<b>TOTAL FOR BALUSTRADING &amp; RAILINGS CARRIED TO SECTION SUMMARY</b>					

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
	<b>ELEMENT NO. 8 JOINERY &amp; FIXTURES</b>				
	Supply a MDF board cabinet to the reception overall size app. 3600 x 350mm wide comprising of three number equal partitions app				
A	Size 1200 x 350 mm wide; each partition comprising of two number openable doors	1	NO		
B	Ditto to staff's washroom overall size app. 1900 x 350mm wide comprising of two number equal partitions of app. Size 950 x 350 mm wide ditto	1	NO		
	<b>TOTAL FOR JOINERY &amp; FIXTURES CARRIED TO SECTION SUMMARY</b>				



ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
	<b><u>SECTION SUMMARY</u></b>				
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	<b><u>TOTAL CARRIED TO GRAND SUMMARY</u></b>				
ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
	<b><u>FIRST FLOOR</u></b>				
	<b><u>ELEMENT NO. 1</u></b>				
	<b><u>REINFORCED CONCRETE</u></b>				
	<b><u>SUPERSTRUCTURES</u></b>				
	<b>Vibrated reinforced concrete (1:1<sup>1</sup>/<sub>2</sub>:3)</b>				
	<b>Class 25/20mm in:</b>				
A	Ring beam	9	CM		
B	Gutter beam 150mm thick	18	CM		
C	Columns	4	CM		
	<b><u>Reinforcement (all provisional)</u></b>				
	<i>Ribbed Steel Bars cold worked to BS 4461 including bends, hooks, tying wire, distance block and</i>				
D	8mm diameter bars in ring beam	188	KG		
E	12mm ditto	337	KG		
F	8mm diameter bars in gutter beam	222	KG		
G	10mm ditto	1008	KG		
H	12mm ditto	1049	KG		
J	10mm diameter bars in columns	380	KG		
K	16mm ditto	819	KG		
	<b><u>Marine ply formwork to:</u></b>				
L	Sides and soffits of ring beams	85	SM		
M	Sides and soffits of gutter beams	142	SM		
N	Vertical Sides of columns	66	SM		
	<b><u>Worktops</u></b>				
P	Concrete class 25/20 in 75mm thick worktops	12	SM		
Q	Steel fabric mesh reinforcement type A142 weighing 2.22kg to BS 4483 with 150mm side laps (measured net-no allowance for laps)	12	SM		
R	Marine ply formwork to soffits and sides of worktop	14	SM		
S	Sawn formwork to edges of worktop	18	LM		
	<b><u>TOTAL FOR RC SUPERSTRUCTURE CARRIED TO SECTION SUMMARY</u></b>				

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
	<b>ELEMENT NO. 2 WALLING</b>				
	<b>External Wall</b>				
	<i>Approved load bearing machine dressed 'Ol Kalou' natural stone walling; bedded and jointed in cement sand mortar mix 1:3; with hoop iron at every alternatina course</i>				
A	200 mm thick walling	127	SM		
	<b>Internal walling</b>				
	<i>Approved load bearing machine dressed "Ol Kalou" natural stone walling; bedded and jointed in cement sand mortar mix 1:3; with hoop iron at every alternating course</i>				
B	200 mm thick walling	196	SM		
C	150 mm thick ditto	5	SM		
D	100 mm thick ditto	22	SM		
	<b>Waterproofing</b>				
E	250 mm wide Hesian based bituminous damp proof course bedded and jointed in cement sand mortar mix	154	LM		
F	200 mm wide ditto	2	LM		
G	150 mm wide ditto	9	LM		
<b>TOTAL FOR WALLING CARRIED TO SECTION SUMMARY</b>					

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
	<b>ELEMENT NO. 3</b>				
	<b><u>ROOF CONSTRUCTION, COVERING AND RAINWATER DISPOSAL</u></b>				
A	<u>Roof covering</u> 28 Gauge LT5 "Resincot" iron sheet roof covering fixed to purlins at 1000 mm general spacing laid to slope not exceeding 13 degrees fixed onto and including 150 mm wide x 1.5 mm thick gauge 14 light gauge steel (LGS) roof trusses at 1500 mm general spacing	302	SM		
	<b><i>Accessories, fixing as necessary to roof covering</i></b>				
B	Standard barrel half round ridge cap to match; 333 mm girth 1320 mm long to hip and ridge cap and fixing to position	12	LM		
	<b><u>Roof Structure</u></b> <u>The following structural timbers shall be sawn second grade well treated cypress to an equilibrium moisture content of between 9% and 15% ;including nailed connection and hoisting to approximately 6 metres above ground level in;</u>				
C	150 X 50 mm rafters	414	LM		
D	150 x 50 mm tie beams	307	LM		
E	100 x 50 mm purlins	456	LM		
F	100 x 50 mm kingpost and struts	994	LM		
G	100 x 50 mm wallplate	69	LM		
	<b><u>Rainwater Disposal</u></b> <i>Galvanised mild steel sheet 22 gauge</i>				
H	100mm diameter 22 gauge galvanized metal rain water downpipe fixed to wall with holder bats at 900mm	35	LM		
J	Extra over downpipe for swan neck projecting 600 mm	6	NO		
K	Ditto shoe bend	6	NO		
	<b>TOTAL FOR ROOF CONSTRUCTION CARRIED TO SECTION SUMMARY</b>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>ELEMENT NO. 4 DOORS</b>				
	<b>Flush doors</b>				
	45mm thick solid core flush door; double leaf D01 overall size 1200 x 2400 mm high comprising of 1200 x 300 mm high glazed fan light (m/s) to 2 NO.600 x 2100mm high openable leaf faced with interior quality hardwood lipped all roundmahoganv veneer both sides				
A	hardwood lipped all round	3	NO		
B	Ditto D02 overall size 900 x 2400mm high with a glazed fan light above the door	9	NO		
C	Ditto D03 overall size 900 x 2100mm high without a glazed fan light	4	NO		
	<b>Swing Door</b>				
D	Ditto D04 overall size 900 x 2100mm high double acting flush door	1	NO		
E	100x50mm thick frame with one labour plugging	98	LM		
F	100x50mm transoms with two labours	16	LM		
G	40 x 15mm architrave with one labour	94	LM		
H	25mm quadrant	94	LM		
J	25 x 25mm glazing beads 4mm thick clear sheet glass to wood: Panels 0.1 to 0.5 square metres	31	LM		
K	<b>Ironmongery</b> Supply and fix the following ironmongery as union or other equal and approved to doors with	4	SM		
	<b>Ironmongery</b> Supply and fix the following ironmongery as union or other equal and approved to doors with matching screws				
L	Cylinder Bathroom lock set with turn handle and rose in satin anodized aluminium set of lever furniture Ref. Toucan DS-051	6	NO		
M	Double cylinder lock set with handle on plate complete with lever furniture ditto. Ref. Elegance LS-C85-306 SN	8	NO		
N	Double cylinder lock set for double door with satin anodized aluminium set of lever furniture Ref. Elegance LS-C85-306 SN	3	NO		
	<b>TOTAL CARRIED TO COLLECTION</b>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>DOORS CONT'D</b>				
	<i>100mm stainless steel bearing butt hinges</i>				
A	Ref. BB-403030-SS	24	PRS		
B	Double-action spring hinges for solid core flush door up to 15 kgs	1.5	PRS		
C	Door closer as Union Ref. 8834	11	NO		
D	38mm diameter rubber door stop plugged to floor	11	NO		
E	305 x 200mm push plate satin anodised aluminium finish	11	NO		
F	225mm long pull handle union Ref: PH9-SS	11	NO		
	<b><u>Painting</u></b>				
	<i>Prepare and apply two undercoats stainer and twofinishing coats of varnish to:-</i>				
G	Prepare and apply two undercoats stainer and twofinishing coats of varnish to:- General surfaces of doors	73	SM		
H	Surfaces not exceeding 100mm girth	331	LM		
<b>TOTAL CARRIED TO COLLECTION</b>					
	<b><u>COLLECTION</u></b>				
	Carried forward from page 20				
	Carried forward from above				
<b>TOTAL FOR DOORS CARRIED TO SECTION SUMMARY</b>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>ELEMENT NO. 5 WINDOWS</b>				
A	<i>Fine chiseled "Blue Njiru" stone walling in cement 150 x 22mm cill, bedded and jointed in cement and sand 1:1 and pointed in coloured cement mortar</i>	40	LM		
B	<i>Supply and fix double metal curtain rods from Challenge Engineering or other equal and approved comprising of 25mm diameter wrought iron front 16mm diameter rear rail complete with fixing brackets, curtain holding rings and decorative end stops and all necessary paintwork</i> Curtain rods	40	LM		
	<b>Casement Windows</b> <i>Supply, assemble and fix the following purpose-made mild steel windows casement complete with all opening accessories, 50 x 50mm thick frame units; including "snap on" 30mm wide permanent vent; building in lugs to jambs; plugging and screwing head and cill; bedding frames in waterproof cement mortar and pointing in approved mastic externally; fixing 5mm thick reflective glass m.s oiling, easing and adjusting as described in the following overall sizes</i>				
C	2100 x 1400 mm high (W01)	9	NO		
D	1500 x 1500 mm high (W02)	4	NO		
E	1500 x 800 mm high (W03)	7	NO		
F	650 x 800 mm high (W04)	1	NO		
	<b>Burglar proofing</b> <i>Supply and install burglar proofing grille to the windows comprising of 16mm diameter bars; welded vertically and horizontally at 150mm centers; including making grooves on the walls, welding to the existing windows and making good disturbed surfaces</i>				
G		44	SM		
	<b>Glazing</b> <i>5 mm Thick one way sheet glass and glazing in panes 0.1 - 1.0sm with Putty compound</i>	40	SM		
H		4	SM		
J	<i>Ditto obscured glass</i> <i>Prepare and apply one undercoat and two finishing coats of 1st quality supergloss paint to:-</i>				
K	<i>Surfaces exceeding 100 but not exceeding 200mm girth on window cill</i> <i>Touch up primer and apply one undercoat and two finishing coats of 1st quality supergloss paint to:-</i>	40	LM		
L	Metal Casement surfaces measured both sides	44	SM		
M	Ditto burglar proofing	44	SM		
<b>TOTAL FOR WINDOWS CARRIED TO SECTION SUMMARY</b>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>ELEMENT NO. 6 : FINISHES FLOOR FINISHES</u></b>				
	<i>Cement and sand screed mix 1:4</i>				
A	20 mm thick screed backing under floors finished with wood float to receive terrazzo	8	SM		
B	20mm thick paving to floor polished smooth complete with and including 40x4mm thick plastic dividers strips	8	SM		
C	20x100mm high skirting rounded top edge and coved junction with floor	8	LM		
	<b><u>TERRAZO FLOOR FINISHES</u></b>				
D	32 mm thick cement sand 1:3 screed backing under floors finished with wood float to receive ceramic tiles	203	SM		
E	20mm thick paving to floor polished smooth complete with and including 40x4mm thick plastic dividers strips	166	SM		
F	Ditto but in wet areas	37	SM		
G	20x100mm high skirting rounded top edge and coved junction with floor	141	LM		
	<b><u>CEILING FINISHES</u></b>				
H	19mm thick gypsum board fixed to and including 50x50mm aluminium 'U' shaped channel fixed to roof	266	SM		
J	Extra over ceiling lining for trap door size 600x600mm	1	NO		
K	100 x 25mm decorative gypsum cornice	246	LM		
	<i>Prepare and apply one undercoat and two finishing coats of 1st quality silk vinyl paint to:-</i>				
L	Gypsum ceiling soffits	266	SM		
M	Surfaces not exceeding 100mm girth of cornice	246	LM		
	<b><u>External Wall Finishes</u></b>				
N	Extra over natural stone walling for neat flush horizontal and vertical joints in coloured cement	112	SM		
	<b><i>15 mm thick cement sand render mix 1:4 to:-</i></b>				
P	Columns	14	SM		
Q	Ditto ring beam	31	SM		
R	Ditto sides and soffits of gutter beam	128	SM		
	<b>TOTAL CARRIED TO COLLECTION</b>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>Prepare and apply three coats matt vinyl exterior wall finish as paint to:-</b>				
A	Rendered column surfaces	14	SM		
B	Ditto ring beam	31	SM		
C	Sides and soffits of gutter beam	128	SM		
	<b>Roof Finishes</b>				
D	Form groove in concrete for edge of felt roofing and grout in cement sand mortar (1:4) including forming bell mouth joint <i>Supply and fit APP waterproofing membrane (m/s) as Itabuild Ltd laid strictly in accordance with manufacturer's printed instructions</i>	69	LM		
E	Gutter cover laid to fall and cross fall on sceed	120	SM		
F	Gutter beam sides with top edge dressed into groove (m/s) and bottom edge jointed to felt	120	SM		
G	Dress felt around 100mm rain water outlet <i>Light weight roof screeds consisting of cement,sand and pumice mix 1:3:7 with 6 mm layer of cement and sand topping laid to falls and crossfalls</i>	6	NO		
H	25mm screed on concrete to receive felt roofing sloping < 45 degrees from horizontal	120	SM		
J	15mm ditto to sides of gutter beam	120	SM		
K	50 x 50mm triangular fillet	69	LM		
L	Work screed around 100mm rainwater outlet	6	NO		
M	<i>Pre cast concrete class 20/12 mm fairfaced finished</i> 250 x 50 mm capping sunk weathered both surfaces and twice throated bedded and jointed in cement and twice throated bedded and jointed in cement <b>Internal Wall Finishes</b>	69	LM		
	<b>Internal Wall Finishes</b>				
	<i>Cement and sand screed mix 1:3</i>				
N	15 mm thick screed backing to wall finished with wood float to receive tiles	122	SM		
	<b>Coloured glazed ceramic wall tiles and fittings (Cloakroom)</b>				
P	200 x 300 x 6mm as manufactured by "Saj ceramic" or other approved coloured tiles bedded and jointed in cement and sand 1:1 and pointed in coloured cement grouting (washrooms)	122	SM		
Q	15 mm thick cement sand lime plaster mix 1:2:9 to wall surfaces	485	SM		
	<b>TOTAL CARRIED TO COLLECTION</b>				



ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<i>Prepare and apply one undercoat and two finishing coats of 1st quality silk vinyl paint to:-</i>				
A	General plastered surfaces of walls	485	SM		
	<b>Worktops</b>				
B	15 mm thick cement sand lime plaster mix 1:2:9 to wall surfaces	6	SM		
C	Prepare and apply one undercoat and two finishing coats of 1st quality silk vinyl paint to plastered	6	SM		
D	Supply and fix marble worktop to nurse station and kitchenette complete with the fixing adhesive	6	SM		
E	15 mm thick cement sand screed 1:3 backing to wall finished with wood float to receive tiles	14	SM		
F	200 x 300 x 6mm as manufactured by "Saj ceramic" or other approved coloured tiles bedded and jointed in cement and sand 1:1 and pointed in coloured cement grouting	14	SM		
<b>TOTAL CARRIED TO COLLECTION</b>					
	<b><u>COLLECTION</u></b>				
	Brought forward from page 23				
	Brought forward from page 24				
	Brought down from above				
<b>TOTAL FOR FINISHES CARRIED TO SECTION SUMMARY</b>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
<b>ELEMENT NO. 7 JOINERY &amp; FIXTURES</b>					
A	Supply a cabinet to the nurse station overall size app. 3600 x 350mm wide comprising of three number equal partitions of app. Size 1200 x 350 mm wide; each partition comprising of two number openable doors	1	NO		
B	Ditto to specialist's office	1	NO		
C	Ditto to staff's washroom overall size app. 1900 x 350mm wide comprising of two number equal partitions of app. Size 950 x 350 mm wide ditto	1	NO		
D	Supply and fix kitchen corner low level cabinets overall size app. 3900 x 600 mm wide and 1400 x 600 mm wide	1	NO		
<b>TOTAL FOR JOINERY &amp; FIXTURES CARRIED TO SECTION SUMMARY</b>					
ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
<b>FIRST FLOOR SECTION SUMMARY</b>					
	RC SUPERSTRUCTURE				
	WALLING				
	ROOF				
	DOORS				
	WINDOWS				
	FINISHES				
	JOINERY & FIXTURES				
<b>TOTAL FOR FIRST FLOOR CARRIED TO GRAND SUMMARY</b>					

**KARAGITA DISPENSARY-  
BILLS OF QUANTITIES FOR THE PROPOSED ELECTRICAL POWER LIGHTING POINTS AT THE GENERAL  
WARD;**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>ELECTRICAL AND LIGHTING-GROUND FLOOR</b> <b>Supply, install, test and commission the following :-</b>				
A	Lighting points wired in 3 x 1.5 sq mm sc PVC copper cables as E.A drawn in 20mm diameter HG PVC conduits complete with all accessories				
	One way switching	NO	24		
	Two way switching	NO	8		
B	6A white moulded lighting switches as MK or approved equivalent:-				
	a) One gang 10A moulded ivory switch plates as MK, Clipsal, BG, Crabtree or approved equivalent	NO	11		
	b) Two gang 10A moulded ivory switch plates as MK, Clipsal, BG, Crabtree or approved equivalent	NO	7		
	c) Motion sensors with PIR technology capable of independent sensitivity controls, programmable OFF Delay setting flash mounted to the ceiling as MK or approved equivalent.	NO	1		
	d) Photocell for the security lights with PIR technology flash mounted to the wall as MK or approved equivalent, accompanied by a contactor to drive security lights.Lighting fittings complete with bulbs	NO	1		
C	<b>Lighting fittings complete with bulbs or tubes of appropriate wattage and colour rendering as follows:</b>				
	a) 1200mm 18W LED lighting, fitting as thorn or approved equivalent	NO	14		
	b) 600mm 9W LED lighting, fitting as thorn or approved equivalent	NO	7		
	c) Aluminium Bulkhead with moulded glass cover for tungsten lamps, IP65 protection as Thorn DB Bulkhead or an approved equivalent	NO	7		
	d) 10W LED lights with opal glass casing for use in washrooms as Thorn or approved equivalent.	NO	6		
D	Power points in ring main wired in 3x2.5 sq mm SC PVC copper cables drawn in concealed 20mm diameter HG PVC conduits including all the necessary accessories	NO	25		
	a) 13A twin switched socket outlet plate ivory type as MK or approved equivalent	NO	21		
	b) 13A single switched socket outlet plate ivory type as MK or approved equivalent	NO	4		
E	Power points for double pole sockets wired in 3X4 sq mm SC PVC copper cable as E.A drawn in concealed 25mm diameter HG PVC conduits including all the necessary accessories	NO	3		
F	20 Amps double pole switch with neon indicator light used for the shower points as MK or approved equivalent	NO	2		
	<b>TOTAL CARRIED TO COLLECTION</b>				

**KARAGITA DISPENSARY-  
BILLS OF QUANTITIES FOR THE PROPOSED ELECTRICAL POWER LIGHTING POINTS AT THE GENERAL  
WARD;**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	20 Amps double pole socket with neon indicator light used for the shower points as MK or approved equivalent	NO	1		
A	Install electrical instant showers with rating 3.5 KW capable of supporting salty water and with ability to operate under low water	NO	2		
B	Install an eight (8) ways D.B with a 125 Amps MCCB as harvells type or approved equivalent	NO	1		
C	MCBs as Crabtree or its approved equivalent:-				
	a) 6A S.P				
	b)20A S.P (for power sockets)	NO	3		
	c)20A S.P (for the double pole sockets and switches)	NO	11		
		NO	3		
D	Allow a provisional sum to install a 25mm sq. 4 core PVC/SWA/PVC copper cable as East African Cable or approved equivalent from the main facility's LV board running through a underground through a manhole erected close to the loop-in box and to the three phase loop - in box. The sum shall include all costs and profit.	Item	1		
E	5X25mm SC PVC copper cable as East African Cable or approved equivalent for running from the looping box to the DB drawn in 38mm conduit ad with all the necessary accessories.	LM	20		
F	3 phase Standard cable looping box with complete with 2 NO 125A and one double 125A HRC type Henley cut out or approved	NO	1		
G	Earthing and bonding Complete with 5ft copper earth electrode connected with 6.0mm Single core cable Yellow/Green in an		1		
	<b>DATA, TV, CCTV &amp; NURSE CALL INSTALLATIONS</b>				
H	Install an 32-port data switch connecting to existing CAT5/SE/6 twisted-pair cables, and capable of managed maintenance, with a wifi	Item	1		
J	Data cables and the data outlet points done along the trunking, according to the pre-determined locations, complete with all	NO	4		
K	White moulded case dual data outlet plate as MK, Crabtree or approved equivalent.	NO	4		
L	TV points wired in RG 6 coaxial cable drawn in 20 sq mm diameter HG PVC conduits including all nessecary accecories	NO	6		
<b>TOTAL CARRIED TO COLLECTION</b>					

**KARAGITA DISPENSARY-  
BILLS OF QUANTITIES FOR THE PROPOSED ELECTRICAL POWER LIGHTING POINTS AT THE GENERAL  
WARD;**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	Install TV point outlet plates as MK or approved equivalent	NO	6		
B	16 channel Network Video Recorder (NVR) IP rated with smart search, intelligent video system and even support HDCVI as well as IP camera input.	NO	1		
C	4MP outdoor flash mounted Outdoor Bullet Cameras image sensor, IR filtering and lighting and protection calss IP67, with adaptor boxes and all other installation accessories running from the camera point to the control panel or NVR to engineer's approval	NO	6		
D	4TB Hard Disk	NO	1		
E	22" TFT Monitor with video and power connection from the NVR video recorder and processor, and other accompaniments, such as a mouse, and other video and audio control systems.	NO	1		
F	12 U Cabinet for securing the NVR and data switches	ITEM	1		
G	Establish 450 x 450 x 700mm deep standard data/telephone manholes, complete with internal plastering, and heavy duty EAFW steel cover. (manholes to be selfdraining)	Item	2		
H	2x75mm diameter HG PVC ducts encased in concrete surround buried in ground for incoming data/telephone supply cables, the cost include trenching and backfilling.	Item	1		
J	Install data, telephone outdoor cables running from the main hospital bulding to the annex facility via the established concrete encased ducts to the switch.	Item	1		
K	Install a 20 -zone nurse call system compatible with C-TEC's range of 800 series with two call levels	Item	1		
L	Install nurse call 6-core security cables running from nurse call point to the call point button drawn in a 20 mm diameter HG PVC conduits, and all other accessries	NO	12		
M	Install nurse call points with in-built call reception re- assurance and a built-in sounder.	Item	12		
<b>TOTAL CARRIED TO COLLECTION</b>					

**KARAGITA DISPENSARY-  
BILLS OF QUANTITIES FOR THE PROPOSED ELECTRICAL POWER LIGHTING POINTS AT THE GENERAL  
WARD;**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>FIRE ALARM SYSTEM</b>				
A	Wiring for fire alarm control panel in 3x2.5mm <sup>2</sup> SC PVC conduit including all conduit accessories but excluding fire alarm control panel	NO	1		
B	Microprocessor based Addressable Fire Alarm Reater Panel as Menvier or Approved Equivalent	ITEM	1		
C	Addressable Manual Fire Alarm 'Break Glass' call points as MENVIER or approved equivalent.	NO	1		
D	Addressable Electronic Fire Alarm sounder complete with Red Flashing beacon as MENVIER or approved equivalent.	NO	1		
E	Install a standalone Fire Alarm Photoelectric Sensor with a long-lasting battery and a 360 degree visible alarm indicator and >85 dB intermitent beep sound	NO	6		
F	Allow a privisional sum of Kenyan Shillings Thirty thousands (30,000.00) for testing and commisioning.	Item	1		
<b>TOTAL CARRIED TO COLLECTION</b>					
	<b>COLLECTION</b>				
	Brought forward from page/1				
	Brought forward from page 2				
	Brought forward from page 3				
	Brought down from above				
<b>TOTAL FOR GROUND FLOOR ELECTRICAL WORKS CARRIED TO SECTION SUMMARY</b>					

**KARAGITA DISPENSARY-  
BILLS OF QUANTITIES FOR THE PROPOSED ELECTRICAL POWER LIGHTING POINTS AT THE GENERAL  
WARD;**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	<b>ELECTRICAL AND LIGHTING-FIRST FLOOR</b> Supply, install, test and commission the following :- Lighting points wired in 3 x 1.5 sq mm sc PVC copper cables as E.A drawn in 20mm diameter HG PVC conduits complete with all accessories a) One way switching b) Two way switching	NO NO	19 6		
B	<b>6A white moulded lighting switches as MK or approved equivalent:-</b> a) One gang 10A moulded ivory switch plates as MK,lipsal, BG, Crabtree or approved equivalent b) Motion sensors with PIR technology capable of independent sensitivity controls, programmable OFF Delay setting flash mounted to the ceiling as MK or approved equivalent.	NO NO	17 1		
C	Lighting fittings complete with bulbs or tubes of appropriate wattage and colour rendering as follows: a) 1200mm 18W LED lighting, fitting as thorn or approved equivalent b) 600mm 9W LED lighting, fitting as thorn or approved equivalent C) 10W LED lights with opal glass casing for use in washrooms as Thorn or approved equivalent. Power points in ring main wired in 3x2.5 sq mm SC PVC copper cables drawn in concealed 20mm diameter HG PVC conduits including all the necessary accessories a) 13A twin switched socket outlet plate ivory type as MK or approved equivalent b)13A single switched socket outlet plate ivory type as MK or approved equivalent	NO NO NO NO NO NO NO NO	14 5 6 25 22 3 4 3 1		
E	Power points for double pole circuits wired in 3X4 sq mm SC PVC copper cable as E.A drawn in concealed 25mm diameter HG PVC conduits including all the necessary accessories a) 20 Amps double pole switch with neon indicator light used for the shower points as MK or approved equivalent b)20 Amps double pole socket with neon indicator light used for the shower points as MK or approved equivalent	NO NO NO	1 2 2		
F	Power points for double pole sockets wired in 3X6 sq mm SC PVC copper cable as E.A drawn in concealed 25mm diameter HG PVC conduits including all the necessary accessories	NO	2		
G	40 Amps double pole socket with neon indicator light used for the cooker unit points as MK or approved equivalent	NO	2		
<b>TOTAL CARRIED TO COLLECTION</b>					

**KARAGITA DISPENSARY-  
BILLS OF QUANTITIES FOR THE PROPOSED ELECTRICAL POWER LIGHTING POINTS AT THE GENERAL  
WARD;**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	Install electrical instant showers with rating 3.5 KW capable of supporting salty water and with ability to operate under low water pressure and with three or four temperature levels operation.	NO	3		
B	Install an eight (8) ways D.B with a 125 Amps MCCB as harvells type or approved equivalent	NO	1		
C	MCBs as Crabtree or its approved equivalent:-				
	a) 6A S.P	NO	2		
	b)20A S.P (for power sockets)	NO	9		
	c)20A S.P (for the double pole sockets and switches)	NO	4		
	d)32A S.P (for the cooker unit and freezer)	NO	2		
D	5X25mm SC PVC copper cable as East African Cable or approved equivalent for running from the existing ground floor DB to the first floor DB drawn in 38mm conduit and with all the necessary accessories.	LM	15		
	<b>DATA, TV, CCTV &amp; NURSE CALL INSTALLATIONS</b>				
E	Install a wifi point mounted at designated point, and running from the Data Switch located at fround floor, all to engineer's approval	Item	1		
F	Data cables and the data outlet points done along the trunking, according to the pre-determined locations, complete with all necessary accessories, with each point has two connection ports.	NO	3		
G	White moulded case dual data outlet plate as MK, Crabtree or approved equivalent.	NO	3		
H	TV points wired in RG 6 coaxial cable drawn in 20 sq mm diameter HG PVC conduits including all nessecary accecories	NO	2		
J	Intall an 8 port RF booster with an external aerial point with a masthead amplifier, mounted ona secure cabinet which will be installed at point of choosing by the resident engineer.	item	1		
K	Install TV point outlet plates as MK or approved equivalent	NO	2		
L	4MP outdoor flash mounted Outdoor Bullet Cameras image sensor, IR filtering and lighting and protection calss IP67, with adaptor boxes and all other installation accessories running from the camera point to belocated at the ramp and stairs landing zone to the control panel or NVR to engineer's approval	NO	1		
M	Install a 20 -zone nurse call system compatibable with C-TEC's range of 800 series with two call levels	Item	1		
N	Install nurse call 6-core security cables running from nurse call point to the call point button drawn in a 20 mm diameter HG PVC conduits, and all other accessries	NO	12		
	<b>TOTAL CARRIED TO COLLECTION</b>				



**KARAGITA DISPENSARY-  
BILLS OF QUANTITIES FOR THE PROPOSED ELECTRICAL POWER LIGHTING POINTS AT THE GENERAL  
WARD;**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	Install nurse call points with in-built call reception re- assurance and a built-in sounder.	Item	12		
	<b>FIRE ALARM SYSTEM</b>				
B	Wiring for fire alarm control panel in 3x2.5mm2 SC PVC conduit including all conduit accessories but excluding fire alarm control	NO	1		
C	Addressable Manual Fire Alarm 'Break Glass' call points as MENVIER or approved equivalent.	NO	1		
D	Addressable Electronic Fire Alarm sounder complete with Red Flashing beacon as MENVIER or approved equivalent.	NO	1		
E	Install a standalone Fire Alarm Photoelectric Sensor with a long-lasting battery and a 360 degree visible alarm indicator and >85 dB intermitent beep sound	NO	6		
F	Allow a privisional sum of Kenyan Shillings Thirty thousands (30,000.00) for testing and commisioning.	Item	1		
	<b>TOTAL CARRIED TO COLLECTION</b>				
	<b>COLLECTION</b>				
	Brought forward from page2				
	Brought forward from page 6				
	Brought down from above				
	<b>TOTAL FOR FIRST FLOOR ELECTRICAL WORKS CARRIED TO SECTION SUMMARY</b>				
ITEM	DESCRIPTION		PAGE		
	SECTION SUMMARY				
A	GROUND FLOOR PAGE 4				
B	FIRST FLOOR PAGE 7				
	<b>TOTAL FOR THE PROPOSED POWER &amp; LIGHTING POINTS AT T TO GRAND SUMMARY</b>				

Item	Description	Unit	Quantity	Rate	Total
	<b>SANITARY FITTINGS</b> <i>Supply, deliver, install and fix the following sanitary fittings including all materials and jointing to supply, waste/soil and overflow pipes.Twyfords Ltd products are specified only as an indication of quality. Equal and approved appliances may be supplied. Where trade names are mentioned, the Ref. No. is intended only as a guide to the type and quality of fittings</i>				
A	<b>Water Closet</b> General purpose white in colour sitting W.C suite, in vitreous china to BS 3402, constructed as one-piece pan and floor plate with treads and separate 'P' (or 'S') trap, for fixing to suite site requirement. To be complete with 1 ¼ " (32mm dia.) standard 'Flush Master' toilet flush valve, chrome plated, back entry, with integral vacuum breaker, non-hold-open features and non-return valve, inlet control stop and wall plate comprising flush valve, bent flush pipe and rubber pipe connector.To be as orient or equal and approved	NO	6		
	<b>Shower fitting</b> Shower fitting as Bricon wall type with concealed riser pipe, carina handle exposed shower mixture tap and adjustable shower rose	NO	4		
	<b>SPECIAL NEEDS WASH ROOM</b> Avaron WC pan, horizontal inlet, seal ring with stainless steel hinges, pan fittings, cistern with spatula lever and cistern cover clip, seat and cover, wash hand basin with accessories set of 2x600mm support grab rails, hinged support rails and toilet roll holder	NO	1		
B	<b>Wash hand basin</b> Wash hand basin, size 590x 440mm wide in white colour to BS 3402, complete with the following: - Washbasin with two tap holes and chain stay hole Ref. No. WB 2535 WH Chrome plated Aztec pillar taps ½" Ref. No. AZ 5200 CP Chrome plated chain waste Ref. NO.5823CP Wall supports Ref. No. SR 1319XX as	NO	11		
C	<b>Toilet roll holder</b> Toilet roll holder in vitreous china to BS 3402 in white colour of size 165x165mm and recessed into wall. Toilet roll holder to be as Twyfords "SEMI RECESSED & ORNAMENTAL' accessories Ref. No. VC 9808 WH	NO	6		
	<b>TOILET BRUSH AND HOLDER</b> Toilet brush and holder in vitreous china or equal and approved equivalent	NO	0		
C	<b>Mirrors</b> 6mm thick polished plate glass, silver backed mirror with beveled edges, size 1500 x 610mm plugged and screwed to wall with 4No. Chrome plated chrome capped screws and 5mm thick foam back rest.	NO	4		
E	<b>kitchen sink</b> sink size 1500 x600mm bowl size 430 x 420mm complete with overflow, waste fittings, chain stay, and 40mm diameter plastic bottle trap with 75mm, deep seal and back inlet bib tap	NO	1		
	<b>TOTAL CARRIED TO COLLECTION</b>				

Item	Description	Unit	Quantity	Rate	Total
	<b>Robe hook</b> Robe hook in vitreous china and in white colour mounted unto a concealed screw to wall wedges, to be as Twyford's OC 6858 1998 or approved equivalent.	NO	4		
	<b>Urinal bowls</b> General purpose vitreous china white in colour urinal bowl for two persons complete with bowls supports one division, 40mm diameter chrome plated outlet grating, 40mm diameter chrome plated bottle trap, bowl division, 15mm diameter brass "Pegler" bib tap with star handles, 9 litres vitreous china concealed automatic cistern with fittings, chrome plated flush pipes and spreaders as orient or equal and approved.	NO	3		
	<b>URINAL BOWL SEPARATOR .</b> Ceramic urinal bowls division separating the above description fixed firmly on the wall .Fittings shall be as Duravit Starck 3 or approved	NO	2		
	<b>INTERNAL PLUMBING</b> <i>To supply and install Chlorinated Polyvinyl Chloride(CPVC) tubing and fittings which meet requirements of ASTM F442 as described.Tenderers must allow for jointings,clippings,couplings etc,necessary for the proper and installation when pricing.All joints shall assembled using solventsatisfactory functioning of the cements that meet or exceeds the requirement of ASTM F493 and to the Engineer's Approval.Rates must allow for all Metal/plastic threaded adaptors where required for connection of sanitary fixtures.valves etc</i>				
	<b>CPVC PIPES</b>				
C	20mm diameter CPVC pipe class "B"	Lm	20		
D	25mm -Ditto-	Lm	20		
E	32mm -Ditto-	Lm	20		
F	40mm -Ditto-	Lm	40		
	<b>Extra- over CPVC pipework for the following.</b>				
	<b>Bends</b>				
G	15mm diameter bend	NO	2		
H	20mm -Ditto-	No	5		
J	25mm -Ditto-	NO	3		
K	32mm -Ditto-	NO	4		
L	40mm -Ditto-	No	0		
	<b>Threaded fittings</b>				
M	40x 1/2" dia. female threaded 90 bend	NO	0		
N	32x 1/2" dia. female threaded 90 bend	NO	6		
P	20x1/2" dia. female threaded 90 bend	No	12		
	<b>TOTAL CARRIED TO COLLECTION</b>				

Item	Description	Unit	Quantity	Rate	Total
A	<b>Equal tees</b> 25mm equal tee	NO	7		
B	32mm -Ditto-	NO	3		
C	40mm -Ditto-	NO	2		
D	50mm -Ditto-	NO	0		
E	<b>Reducers</b> 25x20mm reducer	NO	2		
F	32x25mm -Ditto-	NO	4		
G	40x32mm -Ditto-	NO	2		
	<b>Gate valves</b> 63mm dia. 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	NO	2		
H					
J	40mm -ditto-	NO	0		
K	32mm -ditto-	NO	1		
L	25mm -ditto-	NO	2		
	<b>Unions</b>				
M	50mm -ditto-	NO	1		
N	40mm -ditto-	NO	3		
P	32mm -ditto-	NO	3		
Q	25mm -ditto-	NO	3		
R	Allow for water connection from existing Pipe mm dia. water supply PIPE 15mm diameter x 300mm long flexible connectors	ITEM	5000		
S	complete with integral chrome plated angle valve for connecting the sanitary fitting to water supply. To be as Cobra or equal and approved.	NO	11		
	<b>WATER TANK</b> Supply and installa plastic water tank of capacity 10,000 litres size 2400mm diameterx2800 mm high . The tank to be assembled complete with 32mm medium -pressure ball valve inlet, outlet connections and drain cock and all other connections including ball valve and Float. Tank shall be mounted on a platform and any other necessary item for its proper functioning	NO	1		
T					
	<b>TOTAL CARRIED TO COLLECTION</b>				

Item	Description	Unit	Quantity	Rate	Total
	<b>WATER TANK</b>				
A	Supply and install a plastic water tank of capacity 5,000 litres on roof space. The tank to be assembled complete with 32mm medium -pressure ball valve inlet, outlet connections and drain cock and all other connections including ball valve and Float. Tank shall be mounted on a platform and any other necessary item for its proper functioning	NO	1		
B	Allow for water connection from existing Pipe mm dia. water with tanks and pump	NO	1		
C	Water booster pump on a common frame giving duty of 100L/Min at a head of 70m. The pump to be as "Pedrollo" model PQA Or equal and approved.	NO	1		
D	Allow for pressure testing, flushing out and sterilization of the cold water system as required to the satisfaction of the Engineer.				
	<b>INTERNAL DRAINAGE</b>				
	All drainage pipes to be as 'Key Terrain or equal and approved equivalent. Allow for connection to the nearest manholes.				
	<b>CPVC and mCPVC pipework</b>				
E	100mm heavy duty golden brown pipe class D	LM	30		
F	100mm diameter heavy duty grey pipe class D	LM	20		
G	150mm heavy duty golden brown pipe class D	LM	10		
H	75mm ditto	LM	0		
J	50mm ditto	LM	30		
K	40mm ditto	LM	50		
L	32mm ditto	LM	50		
	<b>CPVC and mCPVC pipework</b>				
M	100mm diameter long radius bend	NO	4		
N	100mm diameter short radius bend	NO	4		
P	40mm diameter bend	NO	9		
Q	100MM DIA ACCESS CAP	NO	2		
R	40 mm diameter sweep	NO	2		
S	32 mm diameter sweep Tee	NO	2		
T	32 mm diameter access cap	NO	8		
U	40 mm diameter access cap	NO	2		
V	32mm diameter bend	NO	4		
W	40mm diameter sweep tee	NO	2		
	<b>TOTAL CARRIED TO COLLECTION</b>				

Item	Description	Unit	Quantity	Rate	Total
A	40mm diameter bend	NO	3		
B	50mm diameter sweep Tee	NO	2		
C	50mm diameter access cap	NO	1		
D	50mm diameter bend	NO	7		
E	75mm diameter access cap	NO	0		
F	75mm diameter bend	NO	0		
	<b>Supply, deliver, install and fix the following firefighting equipment in positions indicated on the contract drawings: -</b>				
G	5Kg. dry powder fire extinguisher with normal charge and mounting brackets.	NO	2		
H	4.5 Kg. Carbon dioxide gas fire extinguisher to BS 3326 and BS 5423 and with normal charge and wall mounting brackets.	NO	2		
	<b>FIRE HOSE REEL SYSTEM</b>				
	<b>FIRE HOSE REEL SYSTEM</b>				
	Supply, deliver, install, test and commission galvanised mild steel tubing to BS EN 10255: 2004 (BS1387) Class C with socketed joints to BS 21 and galvanised malleable iron fittings including fixing and jointing. Tenderers must allow in their pipework prices for all the couplings, connectors, joints. etc., required in the running lengths of pipework and also where necessary, for pipe fixing clips, holder bats plugged and screwed, brackets and nine sleeves through structural members.				
	<b>Pipes</b>				
J	25mm diameter mild steel tubing class C	LM	0		
K	32mm ditto	LM	0		
L	40mm ditto	LM	0		
M	50mm ditto	LM	0		
	<b>Extra over MS tubing for the following elbows</b>				
M	25mm diameter mild steel tubing class	LM	0		
N	32mm ditto	LM	0		
P	40mm ditto	LM	0		
Q	50mm ditto	LM	0		
	<b>Tees</b>				
R	50 mm diameter galvanized mild steel equal tee	NO	0		
S	40 x 40 x25 ditto	NO	0		
T	32x32x25 ditto	NO	0		
	<b>Reducers</b>				
U	32 x 20mm diameter malleable galvanized iron reducing bush	NO	0		
V	25 x 20mm diameter malleable galvanized iron reducing bush	NO	0		
	<b>Valves</b>				
W	25 mm diameter approved high pressure screw-down Bronze Gate valve BS 5154 PN 16 for Series B Rating with wheel head including jointing to steel tubing. As CRANE	NO	0		
X	50 mm ditto	NO	0		
	<b>TOTAL CARRIED TO COLLECTION</b>				

Item	Description	Unit	Quantity	Rate	Total
A	<b>Hose Reel</b> Swinging type hose reel unit complete with 30 m non- kinking 25 mm internal diameter rubber tire hose with nylon spray/ jet shut ott nozzie, mounting bracket conforming to,BS EN 671- 1:1995 as "ANGUS" or equal and approved.No	NO	0		
B	<b>Hose Reel Water Booster Pumps</b> Fire hose reel water booster pump set on a steel base frame comprising of 2 No.pumps. one duty and one alternate capable of aflow rate of 3 L/s against a pressure head of 2.5 bar complete with a pressure control switch. diaphragm tanks electrical wiring.  control panel, gate valves, non-return valves interconnecting pipework and fittings etc as necessary for automatic operation on a 3 phase power supply as "Lowara " model or equivalent and approved. BS EN 671-1:1995 as "ANGUS" or equal and Allow for pipework identification colour coding as per BS1710	NO	0		
C	<b>HOSPITAL PATTERN SANITARYWARE</b> Supply, deliver, install, test and commission the following sanitary fittings and accessories: <b>WC connector</b>	SUM	0		
D	100mm WC"P" connector to drain pipe for horizontal WC pan. The WC connector shall be as Twyford's Bathrooms Ltd. Ref. No. WF 1242 WH or approved	NO	6		
E	15mm diameter 300mm long flexible connections including backnuts	NO	12		
F	<b>Angle valve</b> Chrome plated angle valve with 350 mm service pipe and wall plate ref 7105.	NO	8		
G	9" (225mm) wall mounted manual bell	NO	1		
H	100x75mm -ditto-	NO	0		
J	100 mm diameter WC connector	NO	0		
K	100mm diameter access cap fitted with screw cap and washer	NO	2		
L	100mm diameter 4-way Floor trap and grating (pop up type)	NO	3		
M	100mm diameter 4-way Floor trap and grating (normal type)	NO	3		
N	Gulley traps	NO	4		
P	100mm diameter vent cowl	NO	4		
Q	100mm diameter weathering slate and apron	NO	2		
R	Manhole of internal dimension 600x450 mm and up to 600mm deep.The manhole to consist of 100mm thick class 20 bed,150mm thick solid concrete block walling in cement/sand (1:3) mortar and complete with cover with hand holes - First	NO	10		
S	Testing and commissioning the internal drainage installations	ITEM	5000		
T	Allow a provisional sum of 30,000 project management	SUM	30000		
<b>TOTAL CARRIED TO COLLECTION</b>					
Item	Description	Unit	Quantity	Rate	Total
	<b><u>COLLECTION</u></b>				
	Brought forward from page PD/1				
	Brought forward from page PD/2				
	Brought forward from page PD/3				
	Brought forward from page PD/4				
	Brought forward from page PD/5				
	Brought forward from page PD/6				
<b>TOTAL FOR PLUMBING AND DRAINAGE WORKS CARRIED TO SECTION SUMMARY</b>					

Item	Description	Unit	Quantity	Rate	Total
	pipes, valves, gas regulators, manifold including all materials and jointing to supply medical gases. Medtronic Ltd. Products are specified only as an indication of quality. Equal and approved appliances may be supplied. Where trade names are mentioned, the Ref. No. is intended only as a guide to the type and quality of fittings				
A	15mm Degreased Copper Pipeline for Oxygen	LM	110		
B	12mm Degreased Copper Pipeline for Oxygen	LM	50		
C	Pipeline for AGSS	LM	5		
D	Pipe Fittings (elbows, tees, reducers)	ITEM	1		
E	Pipe Supports & Clips	ITEM	1		
F	Pipe Insulation (where required)	LM	100		
G	Oxygen Outlets	NO	18		
H	AGSS Terminals	NO	1		
J	Zone Valve Boxes (1-gas, with alarms)	NO	4		
K	Area Alarm Panels (Digital, 1-gas)	NO	1		
L	Line Pressure Regulators	NO	2		
M	Non-return valves, test ports	ITEM	2		
N	Oxygen Manifold (Automatic Changeover)	SET	1		
P	Brazing, Purging & Pressure Testing	ITEM	1		
Q	Line Identification & Color Coding	ITEM	1		
R	complete gas cylinders with oxygen gas	NO	6		
S	complete cylinder gauges with regulators	NO	3		
T	line valves	NO	2		
U	control valves	NO	7		
V	final Testing, Commissioning & Certification	ITEM	1		
	TOTAL FOR MEDICAL GAS CARRIED TO SECTION SUMMARY				



ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b>SECTION SUMMARY PLUMBING AND DRAINAGE WORKS MEDICAL GAS</b>				
A	PLUMBING AND DRAINAGE WORKS				
B	MEDICAL GAS				
	<b>TOTAL FOR THE PROPOSED MECHANICAL SERVICES CARRIED TO GRAND SUMMARY</b>				

KARAGITA DISPENSARY  
PROVISIONAL SUMS

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
A	PROVISIONAL SUMS Allow a provisional sum of Kenya Shillings Fifty Thousand (KSh50,000) for Project Supervision by Public Works Staff.	SUM			50000
B	Allow a provisional sum of Kenya Shillings Twenty Seven Thousand , Five Hundred Shillings only (ksh 27,500/-) for Department Project Co-ordination that includes costs for Liason and Documentation	SUM			27500
C	Allow a provisional sum of Kenya Shillings Nineteen Thousand, Five Hundred Shillings only (ksh 19,500/-) for Project Management Committee (PMC)[ 3no. Meetings @ ksh6500 each] to be expended at the sole written authority and direction of the Project Manager.	SUM			19500
D	Allow a provisional sum of Kenya Shillings Five Thousand (ksh 5,000) for Environmental mitigation measures to be expended at the sole written authority and direction of the Project Manager.	SUM			5000
E	Allow a provisional sum of Kenya Shillings Three Thousand (ksh 3,000) for Mobilisation and for Project sensitization to be expended at the sole written authority and direction of the Project Manager.	SUM			3000
F	Provide all the materials, fabricate and erect project name board in 75mm diameter 3mm thick steel pipes in 150mm wide and 600mm deep holes and supported in mass concrete class 15/20 pedestrian. The face of the board to be 1000mmx900mm written both sides as instructed.	NO	1	300000	30000
	<b>TOTAL FOR PROVISIONAL SUMS CARRIED TO SECTION SUMMARY</b>				<b>135000</b>
A	<b>SECTION SUMMARY</b>  PROVISIONAL SUMS TOTAL FOR PROVISIONAL SUMS		PS/1		135000  135000

KARAGITA DISPENSARY-GRAND SUMMARY

BILLS OF QUANTITIES FOR THE PROPOSED CONSTRUCTION OF GENERAL WARD AT KARAGITA DISPENSARY IN HELLS GATE WARD [FY 2024-2025]

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
A	GRAND SUMMARY TOTAL FOR GROUND FLOOR				
B	TOTAL FOR FIRST FLOOR				
C	TOTAL FOR ELECTRICAL WORKS				
D	TOTAL MECHANICAL WORKS				
E	TOTAL FOR PROVISIONAL SUMS				
	TOTAL				
	ADD @ 10% CONTINGENCIES				
	SUB TOTAL				
	ADD 16% VAT				
	GRAND TOTAL FOR THE PROPOSED CONSTRUCTION OF GENERAL WARD AT KARAGITA DISPENSARY IN HELLS GATE WARD [FY 2024- 2025] CARRIED TO FORM OF TENDER				

Contract period  
(weeks)  
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Amount in words  
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Tenderers Name  
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Signature  
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Nakuru County Cess Point Charges :To be determined during the contract  
Item No.

- 1
- 2
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