| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| | **BILL No 1;MAIN OFFICE BLOCK**<br>**ELEMENT NO. 1** | | | | |
| | **SUBSTRUCTURES (ALL PROVISIONAL)** | | | | |
| | **Site clearance** | | | | |
| A | Clear the site off grass, shrubs and all vegetation; cart away as directed | 305 | Sm | | |
| | **Excavations and earth works** | | | | |
| C | Excavate vegetable soil average 200mm deep to remove vegetable soil and reduce levels and cart away as directed | 305 | Sm | | |
| D | Excavate to reduce levels starting from stripped level not exceeding 1.50 meters deep. | 114 | Cm | | |
| | **Disposal** | | | | |
| F | Return, fill-in and rum selected excavated material around the foundation | 57 | Cm | | |
| G | Remove and cart away from site surplus excavated material as directed | 57 | Cm | | |
| | **Hard core Filling as described.** | | | | |
| H | Imported hardcore filling including depositing levelling and compacting in layers of 150mm maximum thickness n.e 300 mm. | 92 | Cm | | |
| I | 50mm thick Quarry dust blinding to surfaces of hardcore :rolled smooth to receive polythene sheeting (m.s) | 305 | Sm | | |
| | ***Carried to collection*** | | | | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| | *Substructure contn'd* | | | | |
| | **Antitermite treatment** | | | | |
| A | PREMISE 200CC' or other equal and approved insecticide with a ten-years guarantee to surfaces of fill and tops of foundations | 305 | Sm | | |
| | **Damp proofing** | | | | |
| B | 1000 gauge polythene or other equal and approved plastic sheeet damp proof memebrane laid over blinding (measured net- allow for laps) | 305 | Sm | | |
| | **In-situ concrete** | | | | |
| | **Mass concrete (1.3.6/38-38 mm aggregate)** | | | | |
| C | 50mm thick mass concrete class Q (1:3:6) to bottoms of foundations | 114 | Sm | | |
| | **Vibrated reinforced conctrete; class 25/20;as decribed in** | | | | |
| D | Foundations in trenches irrespective of thickness | 23 | Cm | | |
| E | 100mm thick bed | 305 | Sm | | |
| | **Reinforcement** | | | | |
| | **Supply and fix bars Reinforcement including bending ,hooks,tying wire,cutting spacersand supporting all in position as decribed** | | | | |
| | **High tensile square twisted bars to B.S. 4461** | | | | |
| F | 12mm Diameter | 400 | Kg | | |
| | **Mesh reinforcement ; B.S. 4483** | | | | |
| G | Reference A142 mesh 200 x 200 mm , weight 2.22 kgs per square meter ( measured net - no allowance made for laps( inclunding bends, tying wire and distance blocks | 305 | Sm | | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| | *Carried to collection* | | | | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| | **Sawn formwork to insitu concrete as described:** | | | | |
| A | Edges of ground floor slab and piers; 75 to 150mm | 72 | Lm | | |
| | **Foundation Walling** | | | | |
| B | 200mm thick approved local natural stone; roughly squared to foundation walling; bedding and jointing in cement sand (1:3) mortar and reinforced with and including 20swg x 25 mm wide hoopiron in every alternate course | 191 | Sm | | |
| | **Insitu finishings** | | | | |
| C | 14mm thick 2 No. coatwork cement sand (1:3) render; wood floated to concrete or blockwork base to walls; external | 45 | Sm | | |
| | **Prepare and apply three coats black bituminous paint on:** | | | | |
| D | Rendered plinths, externally. | 45 | Sm | | |
| | ***Carried to collection*** | | | | |
| | *Substructure contn'd*<br>COLLECTION | | | | |
| | From page BW/1 | | | | |
| | From page BW/2 | | | | |
| | From page BW/3 | | | | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| | *TOTAL FOR SUBSTRUCTURES CARRIED TO SUMMARY* | | | | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| | ELEMENT NO. 2 | | | | |
| | SUPERSTRUCTURE REINFORCED CONCRETE FRAME (BEAMS;COLUMNS;SLABS;STEPS) | | | | |
| | Insitu concrete; reinforced; class 25/20; vibrated | | | | |
| A | Beams | 11 | Cm | | |
| B | Steps/Ramp | 2 | Cm | | |
| | Reinforcement ( all provisional) | | | | |
| | Bars; high yield steel; cold worked to B.S. 4461 including bends, hooks, tying wire and distance blocks of assorted diameter | | | | |
| C | 8mm Diameter | 100 | Kg | | |
| D | 10mm Diameter | 150 | Kg | | |
| E | 12mm Diameter | 200 | Kg | | |
| | Sawn formwork to insitu concrete as described:- | | | | |
| F | To sides and soffits of beams. | 115 | Sm | | |
| | *TOTAL FOR FRAME CARRIED TO SUMMARY* | | | | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| | **ELEMENT NO.3** | | | | |
| | **ROOF CONSTRUCTION & RAINWATER DISPOSAL (All provisional)** | | | | |
| | All timber to be in Sawn cypress grade II, pressure impregnated and well seasoned.The contractor to allow in his rates for proper joints and connections including scarfed joints and hoop iron as may deem necessary; | | | | |
| | **Trusses** | | | | |
| | The following in 20 No. trusses raised to a height of 3000mm above ground level; | | | | |
| A | 100 x 50mm rafters | 278 | Lm | | |
| B | 100 x 50mm tie beam | 241 | Lm | | |
| D | 100 x 50mm king post | 56 | Lm | | |
| E | 100 x 50mm struts and ties | 220 | Lm | | |
| F | 100 x 50mm ridge piece Hip and valley rafters | 150 | Lm | | |
| G | 100 x 50mm wall plate | 191 | Lm | | |
| H | 75 x 100mm purlins | 414 | Lm | | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| | *Carried to collection* | | | | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| | **Roof covering** | | | | |
| A | Prepainted box profile 30G IT5 sheets | 440 | Sm | | |
| B | Ditto ridge covers 900mm girth | 25 | Lm | | |
| C | Ditto valley covers | 40 | Lm | | |
| | **Wrot cypress** | | | | |
| D | 200 x 25mm fascia/verge board fixed to ends of rafters (m.s) | 110 | Lm | | |
| | **RAINWATER GOODS** | | | | |
| E | 100mm diameter UPVC gutter fixed to facsia with and including approved holderbats at 1500mm c/c | 90 | Lm | | |
| D | Ditto stopped end | 8 | No | | |
| E | 100mm diameter UPVC down pipe fixed to wall with and including approved holderbats at 1500mm c/c | 21 | Lm | | |
| F | Extra over for swan neck | 8 | No | | |
| G | Ditto horse shoe | 8 | No | | |
| | **Prepare and apply three coats of clear polyurethane lacquer on timber;** | | | | |
| H | Ditto exceeding 200mm but not exceeding 300mm girth externally | 110 | Lm | | |
| | ***Carried to collection*** | | | | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| | **COLLECTION** | | | | |
| | From Page BW/5 | | | | - |
| | From Page BW/6 | | | | - |
| | *TOTAL FOR ROOFING CARRIED TO SUMMARY* | | | | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| | *ELEMENT NO.4 WALLING* | | | | |
| | Natural stone walling; machine-dressed; bedded and jointed in cement and sand (1:3) mortar and reinforced with and including 20 swg x 25 mm wide hoopiron; | | | | |
| A | 200 mm thick reinforced in every third course | 573 | Sm | | |
| | Horizontal Damp Proof Course:one layer of 3-ply bituminous felt or other equal approved (measured nett-allow for laps) | | | | |
| B | 200mm wide; B.S. 743 Type A bitumen hessian | 191 | Lm | | |
| | *TOTAL FOR EXTERNAL AND INTERNAL WALLING CARRIED TO SUMMARY* | | | | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| | **ELEMENT NO.5 DOORS** | | | | |
| | **External Metal Doors** | | | | |
| | Supply, assemble and fix the following steel framed doors to BS7950, including steel plates on both sides;75 x 50 x 3mm thick rebated frame plugged all round and to include hinges and rebated door lock to works officer approval including 300mm high fanlight | | | | |
| A | Doors overall size 1500 x 2400mm high | 1 | No | | |
| B | Doors overall size 900 x 2400mm high | 1 | No | | |
| | **Timber Doors** | | | | |
| | **Frame and Finishing** | | | | |
| | **Wrot cypress as described** | | | | |
| C | 150 x 50 mm; 2 No. labours; plugged door frame | 63 | Lm | | |
| D | 40 x 25 mm weathered architrave | 63 | Lm | | |
| E | 25mm rounded quardrant | 63 | Lm | | |
| F | 45mm thick solid core flush door size 900 x 2100mm high quality doors with hardwood lipping including 300mm high fanlight | 9 | No | | |
| | **Glazing** | | | | |
| G | 5mm Thick clear sheet glass panes to timber doors including beading | 3 | Sm | | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| | *Carried to collection* | | | | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| | **Iron mongery**<br>**Supply and fix the following to UNION catalogue or other equal and approved** | | | | |
| | **To softwood, hardwood or the like fixing with** | | | | |
| A | Two- lever mortice lock complete with set lever brass handle furniture | 9 | No. | | |
| B | 100mm heavy duty steel butt hinges | 11 | Prs | | |
| | **To concrete or blockwork; fixing with bolts; plugging** | | | | |
| D | Rubber door stop complete with 38 mm rawl bolt | 9 | No. | | |
| | **Painting and Decorations** | | | | |
| | **Prepare and apply three coats of first quality gloss oil paint to: -** | | | | |
| E | General surfaces of timber doors | 39 | Sm | | |
| | **Prepare and apply three coats of first quality gloss oil paint to: -** | | | | |
| F | General surfaces of metal doors | 12 | Sm | | |
| | *Carried to collection* | | | | |
| | COLLECTION | | | | |
| | From page BW/9 | | | | |
| | From page BW/10 | | | | |
| | *TOTAL FOR DOORS CARRIED TO SUMMARY* | | | | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| | ELEMENT NO.6 WINDOWS | | | | |
| | Supply, assemble and fix the following purpose-made mild steel casement windows; standard metal section from approved manufacturer complete with frames, transomes, mullions and with and including permanent ventilators comprising "T" bar, gauze and 16 gauge sheet metal hood 50mm high x 50mm projection to full width of window, coupling mullions, approved ironmongery and one coat manufacturer's primer; all welding ground to smooth finish | | | | |
| | Steel; for glazing with putty, lugs to two jambs, cutting and pinning to concrete or blockwork, fixing to head and sill with screws; plugging | | | | |
| A | Window, overall size 1200 x 1200 mm high as per Architect approval. | 23 | No | | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| | *Carried to collection* | | | | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| | **Burglar proofing** | | | | |
| | **Mild steel burglar proofing to casement windows fabricated from 12 mm round bars at 125 mm centres horizontally including drilling and securing to position** | | | | |
| A | Window, overall size 1200 x 1200 mm high as per Architect approval. | 23 | No | | |
| | *Carried to collection* | | | | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| | **Glazing** | | | | |
| A | 4mm Thick clear sheet glass panes over 0.1 but not exceeding 0.5 square meters; fixing with putty | 33 | Sm | | |
| | **Window cill** | | | | |
| B | 125 x 20 mm thick quarry tile cill with one curved edge including bedding and pointing in cement and sand (1:3) mortar | 35 | Lm | | |
| | **Curtain Rods** | | | | |
| C | 40mm diameter wrot iron curtain rod complete with rollers,stops,caps and holders | 35 | Lm | | |
| | ***Carried to collection*** | | | | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| | **Painting and Decorations** | | | | |
| | **On Metal work** | | | | |
| | **Prepare and apply three coats oil paint full gloss to Crown Solo or other equal and approved to: -** | | | | |
| A | General window surfaces | 66 | Sm | | |
| B | Surfaces of metal; (burglar proofing grills) | 66 | Sm | | |
| | *Carried to Collection* | | | | |
| | COLLECTION | | | | |
| | From page BW/11 | | | | |
| | From page BW/12 | | | | |
| | From page BW/13 | | | | |
| | From page BW/14 Above | | | | |
| | *TOTAL FOR WINDOWS CARRIED TO SUMMARY* | | | | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| | ELEMENT NO. 7 FINISHES | | | | |
| | Wall finishes | | | | |
| | Internal wall | | | | |
| | Plaster; 12mm thick 2 No. coatwork, 9mm first coat of cement sand (1:6); 3mm second coat of cement and lime putty (1:10); steel trowelled | | | | |
| A | Walls; beams; columns; internal | 924 | Sm | | |
| | Painting and decorations | | | | |
| | Prepare and apply three coats of first quality silk vinyl paint to: - | | | | |
| B | Plastered surfaces: walls;beams,columns | 924 | Sm | | |
| | *Carried to Collection for Internal Wall finishes* | | | | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| | **External wall finishes** | | | | |
| A | 12 × 12mm cement and sand(1:3) mortar horizontal recessed pointing to natural stone walling | 173 | Sm | | |
| | **Plaster; 12mm thick 2 No. coatwork, 9mm first coat of cement sand (1:6); 3mm second coat of cement and lime putty (1:10); steel trowelled** | | | | |
| B | Beams; Piers;Gable walls external | 44 | Sm | | |
| | **Painting and decorations** | | | | |
| | **Prepare and apply three coats of first quality silk vinyl paint to: -** | | | | |
| C | Plastered surfaces: gable walls;beams,piers | 44 | Sm | | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| | *Carried to Collection for External wall finishes* | | | | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| | **Floor finishes** | | | | |
| | Cement and sand (1:4) screed: to hacked floors: in | | | | |
| A | 32 mm thick finished to receive ceramic tiles 330 x 330 x 8 mm Approved first grade coloured non-slip ceramic floor tiles as '**SAJ Ceramics**' or other equal approved: to regular pattern: colour to | Sm | 305 | | |
| B | To floors | Sm | 305 | | |
| C | 100 x 8mm skirting to match | Sm | 308 | | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| | *Carried to Collection* | | | | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| | **Ceiling finishes** | | | | |
| A | 12mm Thick Celotex softboard Ceiling fixed to and including 50 × 50mm sawn cypress brandering at 600mm centers both directions fixed with clout headed nails and set out on symettrical panels with 'V' Joints | 305 | Sm | | |
| B | 75 x 50mm sawn cypress brandering | 1022 | Lm | | |
| | **Prime grade wrot cypress timber selected and kept clean:-** | | | | |
| C | 100 x 20mm cornice with six labours | 308 | Lm | | |
| D | Extra Over celotex ceiling for forming removable access trap door size 750 × 750mm with 100 × 25mm sawn treated cypress trimming joists ; 120 × 25mm wrot cedar frame all round and 12mm soft board removable panel set loose on top of framing including painting | 4 | No | | |
| | **Prepare and apply three coats of first quality plastic emulsion paint:** | | | | |
| E | Ceiling surfaces | 140 | Sm | | |
| F | Ditto exceeding 100mm but not exceeding 200mm girth | 48 | Lm | | |
| | *Carried to Collection* | | | | |
| | COLLECTION | | | | |
| | From page BW/15 | | | | |
| | From page BW/16 | | | | |
| | From page BW/17 | | | | |
| | From page BW/18Above | | | | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| | *TOTAL FOR FINISHES CARRIED TO SUMMARY* | | | | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| | **ELECTRICAL INSTALLATION FOR MWINGI NORTH PWKS OFF** | | | | |
| | **Supply,install,test and commision the following:** | | | | |
| 1 | Standard weather proof Meter Box to accommodate single Phase Meter and a cut out with neutral block. | 1 | No | | |
| 2 | 80A KMBG Switch as KEW original | 1 | No | | |
| 3 | 100A 6way Consumer control Unit as Havels | 1 | No | | |
| 4 | 30A MCB as Havels original | 1 | No | | |
| 5 | 10A MCB as Havels original | 2 | No | | |
| 6 | Lighting points wired using 3×1.5mm2 PVC Single core cable drawn into 20mm diameter PVC Heavy gauge conduit and the necessary accessories eg ceiling rose | | | | |
| | i. 1 way switching | 32 | No | | |
| | ii. 2 way switching | 2 | No | | |
| 7 | Glass Bulkhead fitting as Bicarbonite with 18W Energy severs | 10 | No | | |
| 8 | Lighting fittings complete with bulbs and tubes as follows; | | | | |
| | i.1200mm 1x36w HPF bare battern florencent fittings as philips original | 7 | No | | |
| | ii. Glass Bulkhead fitting as Bicarbonite with 18W Energy severs | 5 | No | | |
| 8 | Power point wired using 3 x 2.5mm2 single core cable drawn in 20mm dia PVC HG conduit with all necessary accessories | 5 | No | | |
| 9 | 13A twin switched socket outlet | 5 | No | | |
| 10 | 10A Lighting switches as UK | | | | |
| | i. 1 gang 1 way switch | 6 | No | | |
| | **Total carried to collection** | | | | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| 11 | Provide earthing point and at the power intake point using 1500mmx16mm copper earth electrode in a constructed man hole with removable concrete cover | 1 | Item | | |
| | <u>SUB MAIN CABLE</u> | | | | |
| 12 | 10mm2 single core cables as East African Cables drawn from meter box to CCU | 130 | Lm | | |
| | i. Red | | | | |
| | ii. Black | 130 | Lm | | |
| | ii. Yellow | 130 | Lm | | |
| 13 | 6.0mm2 PVC single core copper cable as Yellow or Green for earth lead | 3 | Lm | | |
| 15 | Trenching and armoured cable works as instructed by the Electrical engineer | 100 | Lm | | |
| 16 | allow for seventy thousand for electrical works sandries as instructed by engineer | item | | | |
| | **Total carried to collection** | | | | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| | | | | | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| | Total brought forward from pg 1 | | | | - |
| | Total brought forward from pg 2 | | | | - |
| | TOTAL FOR ELECTRICAL WORK | | | | - |
| | **Total for electrical workscarried to Grand Summary** | | | | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| | SUMMARY | | | | |
| ELEMENT NO. | TITLE | | | | |
| 1 | SUBSTRUCTURES | | | | |
| 2 | SUPERSTRUCTURE CONCRETE FRAME | | | | |
| 3 | ROOFING AND ROOF FINISHES | | | | |
| 4 | EXTERNAL & INTERNAL WALLING | | | | |
| 5 | DOORS | | | | |
| 6 | WINDOWS | | | | |
| 7 | FINISHES | | | | |
| 8 | ELECTRICAL WORK | | | | |
| | *TOTAL FOR BUILDERS WORK CARRIED TO GRAND SUMMARY* | | | | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| | PC SUMS AND PROVISIONAL SUMS | | | | |
| A | Allow a sum of thirty Thousand (Kshs.30,000) for erecting the standard publicity sign post | | ITEM | | 30,000.00 |
| B | Allow a sum of Five Thousand (Kshs.5,000) for project branding | | ITEM | | 5,000.00 |
| C | Allow a sum of Three hundred thousand (Kshs.300,000) for project management | | ITEM | | 300,000.00 |
| D | Allow a sum of One hundred Thousand (Kshs.100,000) for contingencies | | ITEM | | 100,000.00 |
| | **Total for Pc sums and provisional sum carried to grand summary** | | | | 435,000.00 |