

BILLS OF QUANTITIES
AND
SPECIFICATIONS
FOR
PROPOSED CONSTRUCTION OF REGIONAL OFFICES.
FOR
NG-CDF BOARD

MAY 2025

PRELIMINARIES

| Item | Description | Unit | Qty | Rate | Amount |
|------|--|------|------|------|--------|
| | BILL NO. 1 | | | | |
| | GENERAL PRELIMINARIES | | | | |
| | Compliance with Safety, Health & Environment Regulations | Item | 1.00 | | |
| | 10% Performance Bond | Item | 1.00 | | |
| | Insurance of the Works | Item | 1.00 | | |
| | Third Party Insurance Cover | Item | 1.00 | | |
| | Workmen's Compensation | Item | 1.00 | | |
| | Training Levy | Item | 1.00 | | |
| | Temporary Facilities, Site Offices, Telephone, Power & Water | Item | 1.00 | | |
| | Plant, Tools and Scaffolding | Item | 1.00 | | |
| | Watching and Lighting | Item | 1.00 | | |
| | Locating & Isolating Services | Item | 1.00 | | |
| | Provisional Sum for Materials Testing & Site Control | Item | 1.00 | | |
| | Occupation Certificate | Item | 1.00 | | |
| | As built drawings for electrical, plumbing & drainage, | Item | 1.00 | | |
| | Access to site | Item | 1.00 | | |
| | Transport to and from site | Item | 1.00 | | |
| | Setting Out | Item | 1.00 | | |
| | Cleaning | Item | 1.00 | | |
| | Protection of Adjacent Properties | Item | 1.00 | | |
| | Temporary Hoarding, incl. NCC permits. Remove on completion | Item | 1.00 | | |
| | Carried to Main Summary | | | | |

SECTION A: REGIONAL OFFICE BUILDER'S WORK

| Item | Description | Qty | Unit | Rate | Amount |
|------|--|-----|------|------|--------|
| | BILL NO. 2 : REGIONAL OFFICE | | | | |
| | ELEMENT NO.1 | | | | |
| | SUB-STRUCTURE | | | | |
| | All Provisional | | | | |
| | Site Clearance | | | | |
| A | Clear site of bushes, scrub, undergrowth and cut down small trees not exceeding 600mm girth and grub up roots; uproot tree stumps of various diameters including grubbing up roots; load and remove from site and transport to approved county tip/disposal point. | 495 | SM | | |
| | Excavations | | | | |
| | General excavations to include excavating in loam, clay, black cotton soil, red soil or any soil which does not require ripping or use of compressor tools | | | | |
| B | Excavate average 200mm deep to remove top soil : cart away arising to approved county tip. | 495 | SM | | |
| C | Excavate trenches for strip foundation: depth not exceeding 1.50m commencing from stripped level. | 178 | CM | | |
| D | Excavate pits for column bases: ditto | 6 | CM | | |
| E | Extra over excavation for excavating in all classes of rock; irrespective of hardness/type. | 2 | CM | | |
| F | Allow for cut and fill to slopping areas | 1 | ITEM | | |
| | Disposal of excavated materials | | | | |
| | Return, fill and ram | | | | |
| G | Backfill and compact in layers : selected excavated material around foundations : placed in 200mm thick layers : well watered and compacted to 95% MDD; allow for re-excavation and wheeling from temporary spoil heaps. | 105 | CM | | |
| H | Surplus excavated materials : remove, load and cart away from site to an approved county tip. | 82 | CM | | |
| | Planking and strutting | | | | |
| I | Planking and strutting to sides of all excavations : keep excavations free form all fallen materials | 1 | ITEM | | |
| | Disposal of water | | | | |
| J | Keep excavations free from all water by baling, pumping or otherwise | 1 | ITEM | | |
| | Carried to collection | | | | |

| Item | Description | Qty | Unit | Rate | Amount |
|------|---|------|------|------|--------|
| | <u>In situ concrete : class 15/25mm</u> | | | | |
| A | 50mm thick mass concrete to column bases | 4 | SM | | |
| B | Ditto under strip footing | 119 | SM | | |
| | <u>In situ concrete : Class 20: vibrated : reinforced</u> | | | | |
| C | Column bases | 1 | CM | | |
| D | Starter Columns | 1 | CM | | |
| E | Strip foundation footing | 24 | CM | | |
| F | 150mm slab | 398 | SM | | |
| G | 100mm thick ramp | 17 | SM | | |
| H | 50mm thick precast concrete paving slabs (1:2:4) with joints in cement mortar (1:4) pointed and laid on murrum and hardcore bed including excavating 150mm deep | 76 | SM | | |
| | <u>Ribbed: Mild steel bar reinforcement to BS 4449 and High tensile steel bar reinforcement to BS 4461 (Provisional)</u> | | | | |
| I | Assorted bars | 2600 | KG | | |
| | <u>Sawn formwork: to</u> | | | | |
| J | Sides: columns | 6 | SM | | |
| K | Ditto foundation | 99 | SM | | |
| L | Edges of slab not exceeding 75mm high | 101 | LM | | |
| M | BRC Fabric mesh reinforcement Ref. A142 including side and end laps, stools and binding wire. | 398 | SM | | |
| | Carried to collection | | | | |

| Item | Description | Qty | Unit | Rate | Amount |
|------|--|-----|------|------|--------|
| | <u>Approved quality local stone; minimum load bearing (7N/mm²) block walling: medium chisel dressed : in regular courses : in cement and sand (1:3) mortar; with and including 20 gauge hoop iron wall ties 25mm wide cast into concrete and built into walling</u> | | | | |
| A | 200mm Thick walling | 248 | SM | | |
| B | 200x420mm piers | 19 | LM | | |
| | <u>Hardcore</u> | | | | |
| | Approved quarry stone hardcore filling : 300mm thick (overall) : deposit, handpack, level and compact in layers not exceeding 150mm thick : to receive 100mm slab (m/s) | 348 | SM | | |
| | <u>Murram blinding</u> | | | | |
| D | 50mm Thick approved quality murram blinding to surfaces of hardcore, rolled smooth. | 348 | SM | | |
| | <u>Anti-termite treatment</u> | | | | |
| E | Termidor 25EC Anti-termite chemical treatment, or other equal and approved anti-termite insecticide: applied by approved professional pest control specialist | 398 | SM | | |
| | <u>Damp Proof Membrane</u> | | | | |
| F | 1000 Gauge polythene sheet damp proofing membrane laid over hardcore bed, laid in minimum 150mm side laps; (measured nett - no allowances made for laps) - Allow for laps | 398 | SM | | |
| | <u>Plinths</u> | | | | |
| G | 12mm thick cement and sand (1:4) render to plinth woodfloat finish | 31 | SM | | |
| H | Prepare and apply three coats bitumastic paint to rendered plinth | 31 | SM | | |
| | Carried to collection | | | | |

| Item | Description | Qty | Unit | Rate | Amount |
|------|--|-----|------|------|--------|
| | <u>COLLECTION</u> From page 1 From page 2 From page 3 | | | | |
| | TOTAL FOR SUBSTRUCTURES CARRIED TO SUMMARY | | | | |

| Item | Description | Qty | Unit | Rate | Amount |
|------|--|------|------|------|--------|
| | <u>ELEMENT NO.2</u> <u>REINFORCED CONCRETE SUPERSTRUCTURE</u> | | | | |
| | <u>Insitu concrete : Class 20/20 mm : vibrated : reinforced</u> | | | | |
| A | Vibrated Reinforced Concrete class 20/20 to columns | 1 | CM | | |
| B | Ditto to ring beams | 13 | CM | | |
| | <u>Ribbed Mild steel bar reinforcement to BS 4449 and High tensile steel bar reinforcement to BS 4461 (Provisional)</u> | | | | |
| C | Assorted bars | 1400 | KG | | |
| | <u>Formwork</u> <u>Sawn formwork : to</u> | | | | |
| D | Vertical sides of columns | 14 | SM | | |
| E | Sides and soffits of beams | 235 | SM | | |
| | TOTAL FOR SUPERSTRUCTURES CARRIED TO SUMMARY | | | | |

| Item | Description | Qty | Unit | Rate | Amount |
|------|---|-----|------|------|--------|
| | ELEMENT NO. 3 WALLING | | | | |
| | <u>Selected and approved quality local stone blocks : regular coursed walling of uniform colour : 200mm course heights : medium chisel dressed finish to one face : horizontal recessed joints ; flush vertical joints bedded and jointed in cement and sand (1:3); reinforced with 20 gauge 25mm hoop iron strips laid horizontally every alternate course</u> | | | | |
| A | 200mm;Externally | 145 | SM | | |
| B | Ditto internally | 239 | SM | | |
| C | 200x420mm piers | 67 | LM | | |
| D | 200mm wide damp proof course laid in cement and sand (1:4) bed | 207 | LM | | |
| E | Extra over medium chisel dressed walling for neatly recessed horizontal joints | 145 | SM | | |
| F | 150x200mm precast concrete permanent vents with mosquito gauze wire build in walling | 30 | PR | | |
| | TOTAL FOR WALLING CARRIED TO SUMMARY | | | | |

| Item | Description | Qty | Unit | Rate | Amount |
|------|--|-----|------|------|--------|
| | <u>ELEMENT NO.4</u> | | | | |
| | <u>ROOFING AND RAINWATER HARVESTING</u> | | | | |
| | <u>All Provisional</u> | | | | |
| | <u>TIMBER STRUCTURE & COVERING</u> | | | | |
| | <u>Prepainted galvanized sheets gauge 28 (or other equal and approved) laid on purlins to main roof level; as described to:-</u> | | | | |
| A | Coverings to 25degrees slopping timber framed roof : nailed every third course. | SM | 516 | | |
| | <u>Roofing accessories to match roofing tiles as described to:</u> | | | | |
| B | Standard ridge and hip capping | m | 78 | | |
| C | Standard ridge end piece | No | 4 | | |
| | <u>Sheet metal flashing : 18 gauge galvanised mild steel</u> | | | | |
| D | Valley gutter lining 475mm girth : six labours : dressed under roofing sheets each side with 150mm laps : fixed to timber valley rafters | m | 20 | | |
| | <u>Unplasticised PVC panel boards</u> | | | | |
| E | 8mm thick heavy gauge UPVC panel to eaves boarding on and including 50 x 50mm brandering | m2 | 63 | | |
| F | 25 x 250mm Fascia or barge board | m | 105 | | |
| | <u>Prepare and knot coated surfaces : prime and apply three coats polyurethane clar varnish : on wood</u> | | | | |
| G | General surfaces : eaves boarding | m2 | 63 | | |
| | <u>Prepare and knot coated surfaces : prime and apply two undercoats and one finishing coat gloss paint : on wood</u> | | | | |
| H | Fascia : over 200 but not exceeding 300mm girth | m | 105 | | |
| | <u>Carried to collection</u> | | | | |

| Item | Description | Qty | Unit | Rate | Amount |
|------|--|-----|------|------|--------|
| | <u>Roof Structure (Provisional)</u> | | | | |
| | <u>Structural timbers : sawn cypress : pressure impregnated . Rate to including all bolting, nailing and fixing into place with and including gms diameter bolts with nuts and washers; gusset plates with holes; drilling of holes in timber for bolts; sizes of bolts, plates and holes to approval to:</u> | | | | |
| A | 50 x 75mm Purlins spaced at 400mm centres for hanging and nailing roofing tile (m/s) | m | 255 | | |
| B | 50 x 100mm Wall plate : fixed with and including 12mm diameter mild steel ragbolt 150mm long at 900mm centres ; cast in ring beams. | m | 88 | | |
| C | 50 x 100mm Common rafters. | m | 220 | | |
| D | 50 x 150mm Valley rafter | m | 20 | | |
| E | 50 x 200mm Ridge board. | m | 27 | | |
| | <u>The following in 1 No truss (Truss T1) spanning 10700mm and 1329mm high : hoisting and fixing at 3000mm above ground level</u> | | | | |
| F | 150 x 50mm Trussed rafters | m | 12 | | |
| G | 100 x 50mm King post | m | 1 | | |
| H | 150 x 50mm Ceiling joists | m | 11 | | |
| I | 100 x 50mm Struts and ties | m | 17 | | |
| | <u>The following in 10 No truss (Truss T2) spanning 10700mm and 2495mm high : hoisting and fixing at 3000mm above ground level</u> | | | | |
| J | 150 x 50mm Trussed rafters | m | 130 | | |
| K | 100 x 50mm King post | m | 25 | | |
| L | 150 x 50mm Ceiling joists | m | 110 | | |
| M | 100 x 50mm Struts and ties | m | 190 | | |
| | Carried to collection | | | | |

| Item | Description | Qty | Unit | Rate | Amount |
|------|---|-----|------|------|--------|
| | <u>The following in 2 No truss (Truss T3) spanning 10700mm and 2495mm high : hoisting and fixing at 3000mm above ground level</u> | | | | |
| A | 150 x 50mm Trussed rafters | m | 26 | | |
| B | 100 x 50mm King post | m | 5 | | |
| C | 150 x 50mm Ceiling joists | m | 22 | | |
| D | 100 x 50mm Struts and ties | m | 38 | | |
| | <u>The following in 1 No truss (Truss T4) spanning 10700mm and 2495mm high : hoisting and fixing at 3000mm above ground level</u> | | | | |
| E | 150 x 50mm Trussed rafters | m | 12 | | |
| F | 100 x 50mm King post | m | 3 | | |
| G | 150 x 50mm Ceiling joists | m | 11 | | |
| H | 100 x 50mm Struts and ties | m | 24 | | |
| | <u>The following in 2 No truss (Truss T5) spanning 6550mm and 2495mm high : hoisting and fixing at 3000mm above ground level</u> | | | | |
| I | 150 x 50mm Trussed rafters | m | 16 | | |
| J | 100 x 50mm King post | m | 6 | | |
| K | 150 x 50mm Ceiling joists | m | 14 | | |
| L | 100 x 50mm Struts and ties | m | 28 | | |
| | <u>The following in 1 No truss (Truss T6) spanning 6550mm and 1329mm high : hoisting and fixing at 3000mm above ground level</u> | | | | |
| E | 150 x 50mm Trussed rafters | m | 4 | | |
| E | 100 x 50mm King post | m | 1 | | |
| F | 150 x 50mm Ceiling joists | m | 7 | | |
| G | 100 x 50mm Struts and ties | m | 9 | | |
| | Carried to collection | | | | |

| Item | Description | Qty | Unit | Rate | Amount |
|------|--|-----|------|------|--------|
| | <u>The following in 1 No truss (Truss T7) spanning 8300mm and 1915mm high : hoisting and fixing at 3000mm above ground level</u> | | | | |
| A | 150 x 50mm Trussed rafters | m | 10 | | |
| B | 100 x 50mm King post | m | 2 | | |
| C | 150 x 50mm Ceiling joists | m | 8 | | |
| D | 100 x 50mm Struts and ties | m | 15 | | |
| | <u>The following in 3 No truss (Truss T8) spanning 8300mm and 1935mm high : hoisting and fixing at 3000mm above ground level</u> | | | | |
| E | 150 x 50mm Trussed rafters | m | 33 | | |
| F | 100 x 50mm King post | m | 6 | | |
| G | 150 x 50mm Ceiling joists | m | 24 | | |
| H | 100 x 50mm Struts and ties | m | 42 | | |
| | <u>The following in 1 No truss (Truss T9) spanning 8300mm and 991mm high : hoisting and fixing at 3000mm above ground level</u> | | | | |
| I | 150 x 50mm Trussed rafters | m | 4 | | |
| J | 100 x 50mm King post | m | 1 | | |
| K | 150 x 50mm Ceiling joists | m | 8 | | |
| L | 100 x 50mm Struts and ties | m | 11 | | |
| | <u>The following in 6 No truss (Truss T10) spanning 4000mm and 933mm high : hoisting and fixing at 3000mm above ground level</u> | | | | |
| M | 150 x 50mm Trussed rafters | m | 36 | | |
| N | 100 x 50mm King post | m | 6 | | |
| O | 150 x 50mm Ceiling joists | m | 24 | | |
| P | 100 x 50mm Struts and ties | m | 18 | | |
| | Carried to collection | | | | |

| Item | Description | Qty | Unit | Rate | Amount |
|------|---|-----|------|------|--------|
| | <u>Supply and fix the following Unplasticised PVC rainwater pipes and fittings;solvent welded joits)</u> | | | | |
| A | 150mm gutters fixed to fascia board with holder bats | 69 | LM | | |
| B | 100mm Diameter down pipes fixed to wall with clips | 30 | LM | | |
| | <u>Extra - over for</u> | | | | |
| C | 100 mm Diameter outlets | 10 | NO | | |
| D | Rainwater swanneck bend | 7 | NO | | |
| E | Stopped ends | 10 | NO | | |
| F | Rainwater anti-splash shoe | 10 | NO | | |

| Item | Description | Qty | Unit | Rate | Amount |
|------|---|-----|------|------|--------|
| | Carried to collection | | | | |
| | <u>COLLECTION</u> | | | | |
| | From page 7 | | | | |
| | From page 8 | | | | |
| | From page 9 | | | | |
| | From page 10 | | | | |
| | From page 11 | | | | |
| | TOTAL FOR ROOFING CARRIED TO SUMMARY | | | | |

| Item | Description | Qty | Unit | Rate | Amount |
|------|---|-----|------|------|--------|
| | <u>ELEMENT NO.5</u> <u>DOORS</u> | | | | |
| | <u>Mild Steel Doors</u> | | | | |
| A | Purpose-made double steel door overall size 1500 x 2100mm high in one coat primer, complete with lock accessories | 5 | NO | | |
| | <u>Prepare and apply 3 coats of approved gloss paint to exposed steel surfaces</u> | | | | |
| B | Steel door surfaces | 41 | S M | | |
| | <u>Timber doors</u> | | | | |
| C | 45mm Thick solid core wooden panel door overall size 900 x 2100mm high: to Project Manager's detail | 12 | NO | | |
| D | Ditto 1000x2100mm | 4 | NO | | |
| | <u>In wrot cypress, prime grade</u> | | | | |
| E | 100 x 50mm moulded frames. | 103 | LM | | |
| F | 75 x 25mm moulded architrave | 103 | LM | | |
| G | 100 x 25mm transome | 15 | LM | | |
| H | 25 x 25mm quadrants | 103 | LM | | |
| | <u>Prepare surfaces: apply three coats first quality gloss oil paint or other equal approved to:</u> | | | | |
| I | General timber surfaces. | 64 | SM | | |
| J | Over 100 but not exceeding 200 mm girth | 221 | LM | | |
| K | Not exceeding 100 mm girth. | 103 | LM | | |
| | Carried to collection | | | | |

| Item | Description | Qty | Unit | Rate | Amount |
|------|---|-----|------|------|--------|
| A | Glazing 5mm thick clear sheet glass held in fanlight by beading | 9 | SM | | |
| B | Iron Mongery Three lever mortice union lock complete with all handles | 5 | NO | | |
| C | Ditto 2 lever | 16 | NO | | |
| D | 100mm pressed Brass butt hinges | 32 | PRS | | |
| E | 25mm diameter rubber door stops fixed to wall with rawl bolt | 21 | NO | | |
| F | Indicator lock "Vacant/Engaged" | 4 | NO | | |
| | Carried to collection | | | | |

| Item | Description | Qty | Unit | Rate | Amount |
|------|---|-----|------|------|--------|
| | <u>COLLECTION</u> From page 13 From page 14 | | | | |
| | TOTAL FOR DOORS CARRIED TO SUMMARY | | | | |

| Item | Description | Qty | Unit | Rate | Amount |
|------|--|-----|------|------|--------|
| | <u>ELEMENT NO.5</u> <u>WINDOWS</u> | | | | |
| | <u>Purpose-made steel casement windows in one coat primer and two coats gloss oil paint complete with permanent vents, burglar proofing bars and locking accessories.</u> | | | | |
| A | Window overall size 1800mm x 1800mm high; to Project Manager's detail. | 17 | NO | | |
| B | Ditto size 1500x1800mm | 6 | NO | | |
| C | Ditto size 900x2100mm | 8 | NO | | |
| D | Ditto size 1500x900mm | 2 | NO | | |
| E | Ditto size 900x900mm | 4 | NO | | |
| | <u>Glazing</u> | | | | |
| F | 5mm Thick clear sheet glass panes over 0.5 but not exceeding 1.0 square meters; fixing with putty | 80 | SM | | |
| G | Ditto obscure | 4 | SM | | |
| | <u>Painting and Decoration on metalwork</u> <u>Prepare and apply three coats of premium quality super gloss oil paint as approved to;</u> | | | | |
| H | General window surfaces | 168 | SM | | |
| I | 265x75mm precast window cill in concrete (1:2:4) including moulds, throating, top weathered and hoist and fix in position | 59 | LM | | |
| | <u>Curtain rods</u> | | | | |
| J | 25mm diameter approved wrought iron front and rear curtain rods cut to length complete with fixing runners and end stops and screwed or plugged to wall to Architects' approval. | 54 | LM | | |
| | TOTAL FOR WINDOWS CARRIED TO SUMMARY | | | | |

| Item | Description | Qty | Unit | Rate | Amount |
|------|--|-----|------|-------|--------|
| | <u>ELEMENT NO.7</u> <u>FINISHES</u> <u>Render, Plasterwork and Screeds</u> | | | | |
| | <u>Prepare and apply 12mm (minimum) thick backing cement and sand (1:4): steel trowelled finish: on concrete blockwork or stonework : to</u> | | | | |
| A | Walls to receive paint. | 580 | SM | | |
| | <u>Backing; cement and sand 1:4 with approved integral dust proofing additive wood floated</u> | | | | |
| B | 15mm Thick to receive ceramic tiles. | 145 | SM | | |
| | <u>Cement and sand (1:4) trowelled screeds : on concrete : to</u> | | | | |
| C | 32mm Floors : finished to receive ceramic tile flooring | 352 | SM | | |
| | <u>Wall Tiles</u> <u>Provide a prime cost sum as indicated for supply of:</u> | | | | |
| D | 200 x 400 x 8mm non-slip ceramic tiles to plastered surfaces | 145 | SM | 1,200 | |
| | <u>Take delivery & fix coloured glazed ceramic wall tiles as approved by the Architect : on and including cement and sand backing ; fixed with approved quality adhesive : grouted, jointed and pointed in matching colour cement mortar : on</u> | | | | |
| E | 200 x 400 x 8mm non-slip ceramic tiles to plastered surfaces | 145 | SM | | |
| F | Extra over plastic corner strips | 80 | LM | | |
| | <u>Prepare and apply three coats of premium quality silk vinyl emulsion paint as approved to:-</u> | | | | |
| G | Walls; internal | 580 | SM | | |
| | <u>Floor finishes</u> <u>Provide a prime cost sum as indicated for supply of:</u> | | | | |
| H | 400 x 400mm ceramic floor tiles | 385 | SM | 1,500 | |
| | Carried to collection | | | | |

| Item | Description | Qty | Unit | Rate | Amount |
|------|--|-----|------|------|--------|
| | <u>Take delivery & fix coloured glazed non-slip ceramic floor tiles: as selected by the Architect : on screeded bed (m/s) jointed, pointed and grouted in matching colour cement mortar</u> | | | | |
| A | 400 x 400mm ceramic floor tiles | 306 | SM | | |
| B | 100mm high ceramic skirting. | 220 | LM | | |
| C | Ditto non-slip rustic ceramic tiles | 49 | SM | | |
| D | 100mm high rustic ceramic skirting. | 80 | LM | | |
| | <u>External wall finish</u> | | | | |
| | <u>Cement and sand(1:3) render:</u> | | | | |
| E | To concrete/ masonry surfaces | 171 | SM | | |
| F | Prepare and apply three coats of exterior quality emulsion permacote paint with Teflon as "Crown Paints" or equal and approved equivalent; to rendered surfaces | 171 | SM | | |
| | <u>Ceiling finishes</u> | | | | |
| G | Supply & fix 12mm thick gypsum board on 50 mm steel studwork as Donn Ultrasteel complete with metal edge floor and ceiling trims in accordance with Architect's details. | 338 | SM | | |
| H | 75 x 12mm cornice with two labours plugged | 311 | LM | | |
| I | 50 x 50mm cypress timber bandering | 335 | LM | | |
| J | Prepare and apply three coats of plastic emulsion paint to general surfaces of gypsum(Brilliant white) including skimming sand and leave smooth surfaces | 338 | SM | | |
| K | Ditto girth 100-200mm | 311 | LM | | |
| L | Extra over for gypsum ceiling trap door size 600x600mm with wrot cypress framing 50x50mm with miltre joints | 2 | NO | | |
| | Carried to collection | | | | |

| Item | Description | Qty | Unit | Rate | Amount |
|------|---|-----|------|------|--------|
| | <u>COLLECTION</u> From page 17 From page 18 | | | | |
| | TOTAL FOR FINISHES CARRIED TO SUMMARY | | | | |

| Item | Description | Qty | Unit | Rate | Amount |
|------|----------------------------------|-----|------|------|--------|
| | <u>MAIN SUMMARY</u> | | | | |
| 1 | SUBSTRUCTURES | | | | |
| 2 | RC SUPERSTRUCTURES | | | | |
| 3 | WALLING | | | | |
| 4 | ROOFING AND RAINWATER HARVESTING | | | | |
| 5 | DOORS | | | | |
| 6 | WINDOWS | | | | |
| 7 | FINISHES | | | | |
| | TOTAL FOR BUILDER'S WORK | | | | |

**PLUMBING, DRAINAGE & MECHANICAL
VENTILATION (MAIN BUILDING)**

BILL NO. 3 SANITARY FITTING& INTERNAL PIPING

| Item | Description | Qty | Unit | Rate (Kshs) | Amount (Kshs) |
|---|--|-----|------|-------------|---------------|
| | LADIES | | | | |
| | Water Closet | | | | |
| A | Close-coupled WC suite ('S' or 'P'-trap) in approved colour complete with horizontal outlet to BS 3402 with 7.5 litre valveless low level ceramic cistern and fittings including siphon, 15mm diameter side inlet ball valve, 20mm diameter side overflow, plastic flush bend, dual flush system, inlet connection, chrome-plated lever and heavy plastic seat and cover with metal top fixed (chrome plated) hinges. All to be as lecico or equal and approved. | 3 | No. | | |
| | Flexible Tubing | | | | |
| B | 15mm diameter x 300mm long flexible connectors complete with integral chrome plated angle valve as NEMSI or equal and approved. | 3 | No. | | |
| | Toilet Roll Holder | | | | |
| C | Fully recessed toilet roll holder in vitreous china of size 165 x 165mm in approved colour as Ideal Standard Model Cassara Cat No. 109.000.10 or equal and approved. | 3 | 10 | | |
| | Robe Hook | | | | |
| D | Double-ended bathroom robe hook, made of AISI 304 stainless steel black finish AS DALI OR APPROVED EQUIVALENT | 3 | No | | |
| | Signage | | | | |
| E | Signage made of stainless steel, 0.5 mm thick and the subject is embossed in black on the stainless steel. The signs to be circular and have a diameter of 116 mm and they are fixed to the wall by means of a double side tape | 1 | No | | |
| Total carried to collection page | | | | | |

| Item | Description | Qty | Unit | Rate (Kshs) | Amount (Kshs) |
|---|--|-----|------|-------------|---------------|
| Total carried from previous page | | | | | |
| A | <p>Wash hand basin (WHB)-Pedestal Pedestal wash hand basin size 560 x 440mm with one tap hole, 32mm diameter chrome plated chain waste, chain stay hole, chrome plated non-conculsive time delay press action pillar tap as Cobra model and chrome plated bottle trap (32mm 'P' trap) with 75mm seal. To be of IDEAL STANDARD Model-Plan Above Counter 109.003.38 countertops washhand basin or equal and approved.</p> | 3 | No | | |
| B | <p>Wash hand basin tap Free Counter standing pillar tap with Self-closing cartridge, hydraulically controlled, piston-free design, self-closing, stepless adjustment of flow duration AS NEMSI OR APPROVED EQUIVALENT</p> | 3 | No | | |
| C | <p>Flexible Tubing 15mm diameter x 300mm long flexible connectors complete with integral chrome plated angle valve as NEMSI or equal and approved.</p> | 3 | No. | | |
| D | <p>Soap Dispenser Wall mounted soap dispenser with a capacity of about one litre having a press action soap release mechanism complete with fixing screws. Allow for initial soap supply. To be as NEMSI soap dispenser or approved equivalent.</p> | 1 | No. | | |
| E | <p>Hand Driers Automatic hand drier in white colour, operating on an infra-red automatic sensing system with heating element safety cut-out complete with a 30 seconds safety timer, plastic rawl plugs and fixing screws. The hand drier to have a heating capacity of 2.1kw and performance flow rate of 135cfm (3.82m³/min) and to be of size 270x264x143mm deep It shall have a noise level below 72.5 dBA at 1.5m. It shall be as Medclinic or approved equivalent.</p> | 1 | No. | | |
| F | <p>Mirror 6mm thick polished plate glass silver backed mirror with bevelled edges, size 610 x 610mm, Plugged and screwed to wall with 4No. chrome plated dome capped screws. The mirror shall rest against a layer of 5mm thick foam AS IMPALA GLASS OR APPROVED EQUIVALENT</p> | 3 | No | | |
| Total carried to collection page | | | | | |

| Item | Description | Qty | Unit | Rate (Kshs) | Amount (Kshs) |
|---|---|-----|------|-------------|---------------|
| Total carried from previous page | | | | | |
| A | Disabled Persons Water Closet and Wash Hand Basin Facility Close-coupled WC suite ('S' or 'P'-trap) in approved colour complete with horizontal outlet to BS 3402 with 7.5 litre valveless low level ceramic cistern and fittings including siphon, 15mm diameter side inlet ball valve, 20mm diameter side overflow, plastic flush bend, dual flush system, inlet connection, chrome-plated lever and heavy plastic seat and cover with metal top fixed (chrome plated) hinges. All to be as IDEAL STANDARD "PLAN"-wc pan model 109.003.34 water closet or equal and approved. | 1 | No. | | |
| B | 1 x 600mm grab rails with concealed fixings | 1 | No | | |
| C | 1 x 450mm grab rail with concealed fixings | 1 | No | | |
| D | 1x Hinged support rail and toilet roll holder concealed fixings | 1 | No | | |
| E | Pedestal wash hand basin size 560 x 440mm with one tap hole, 32mm diameter chrome plated chain waste, chain stay hole, chrome plated non-conculsive time delay press action pillar tap as Cobra model and chrome plated bottle trap (32mm 'P' trap) with 75mm seal. To be frencia pedestal washhand basin or equal and approved. | 1 | No | | |
| F | Free Counter standing pillar tap with Self-closing cartridge, hydraulically controlled, piston-free design, self-closing, stepless adjustment of flow duration AS NEMSI OR APPROVED EQUIVALENT | 1 | No | | |
| H | 15mm diameter x 300mm long flexible connectors complete with integral chrome plated angle valve as NEMSI or equal and approved. | 1 | No. | | |
| | Robe Hook | | | | |
| I | Double-ended bathroom robe hook, made of AISI 304 stainless steel black finish AS DALI OR APPROVED EQUIVALENT | 1 | No | | |
| | Signage | | | | |
| J | Signage made of stainless steel, 0.5 mm thick and the subject is embossed in black on the stainless steel. The signs to be circular and have a diameter of 116 mm and they are fixed to the wall by means of a double side tape | 1 | No | | |
| Total carried to next page | | | | | |

| Item | Description | Qty | Unit | Rate (Kshs) | Amount (Kshs) |
|---|---|-----|------|-------------|---------------|
| Total carried from previous page | | | | | |
| | GENTS | | | | |
| | Water Closet Close-coupled WC suite ('S' or 'P'-trap) in approved colour complete with horizontal outlet to BS 3402 with 7.5 litre valveless low level ceramic cistern and fittings including siphon, 15mm diameter side inlet ball valve, 20mm diameter side overflow, plastic flush bend, dual flush system, inlet connection, chrome-plated lever and heavy plastic seat and cover with metal top fixed (chrome plated) hinges. All to be as lecico or equal and approved. | 1 | No. | | |
| A | | | | | |
| | Flexible Tubing 15mm diameter x 300mm long flexible connectors complete with integral chrome plated angle valve as NEMSI or equal and approved. | 1 | No. | | |
| B | | | | | |
| | Toilet Roll Holder Fully recessed toilet roll holder in vitreous china of size 165 x 165mm in approved colour as Ideal Standard Model Cassara Cat No. 109.000.10 or equal and approved. | 1 | 10 | | |
| C | | | | | |
| | Robe Hook Double-ended bathroom robe hook, made of AISI 304 stainless steel black finish AS DALI OR APPROVED EQUIVALENT | 1 | No | | |
| D | | | | | |
| | Signage Signage made of stainless steel, 0.5 mm thick and the subject is embossed in black on the stainless steel. The signs to be circular and have a diameter of 116 mm and they are fixed to the wall by means of a double side tap | 1 | No | | |
| E | | | | | |
| | Wash hand basin (WHB)-Pedestal Pedestal wash hand basin size 560 x 440mm with one tap hole, 32mm diameter chrome plated chain waste, chain stay hole, chrome plated non-conculsive time delay press action pillar tap as Cobra model and chrome plated bottle trap (32mm 'P' trap) with 75mm seal. To be of IDEAL STANDARD Model-Plan Above Counter 109.003.38 countertops washhand basin or equal and approved. | 3 | No | | |
| F | | | | | |
| | Wash hand basin tap Free Counter standing pillar tap with Self-closing cartridge, hydraulically controlled, piston-free design, self-closing, stepless adjustment of flow duration AS NEMSI OR APPROVED EQUIVALENT | 3 | No | | |
| G | | | | | |
| Total carried to collection page for Ladies Washroom | | | | | |

| Item | Description | Qty | Unit | Rate (Kshs) | Amount (Kshs) |
|---|--|-----|------|-------------|---------------|
| Total carried from previous page | | | | | |
| A | <p>Flexible Tubing 15mm diameter x 300mm long flexible connectors complete with integral chrome plated angle valve as NEMSI or equal and approved.</p> | 3 | No. | | |
| B | <p>Soap Dispenser Wall mounted soap dispenser with a capacity of about one litre having a press action soap release mechanism complete with fixing screws. Allow for initial soap supply. To be as NEMSI soap dispenser or approved equivalent.</p> | 1 | No. | | |
| C | <p>Hand Driers Automatic hand drier in white colour, operating on an infra-red automatic sensing system with heating element safety cut-out complete with a 30 seconds safety timer, plastic rawl plugs and fixing screws. The hand drier to have a heating capacity of 2.1kw and performance flow rate of 135cfm (3.82m³/min) and to be of size 270x264x143mm deep It shall have a noise level below 72.5 dBA at 1.5m. It shall be as Medclinic or approved equivalent.</p> | 1 | No. | | |
| D | <p>Mirror 6mm thick polished plate glass silver backed mirror with bevelled edges, size 610 x 610mm, Plugged and screwed to wall with 4No. chrome plated dome capped screws. The mirror shall rest against a layer of 5mm thick foam AS IMPALA GLASS OR APPROVED EQUIVALENT</p> | 3 | No | | |
| E | <p>Urinal Bowl and cistern 3No.Ceramic urinal bowl complete with 1No. ceramic urinal bowl, chrome plated flush pipes, 4.5 litres ceramic cistern, 40mm heavy duty plastic bottle trap and 40mm diameter chrome plated outlet with grating firmly fixed on the wall with chrome plated screws. The fittings shall be as Twyfords or equal and approved.</p> | 1 | set | | |
| F | <p>Urinal Partition Rectangular shaped urinal partition/Division with frosted glass of Size Height 900mm and Width 450mm AS JAQUAR URINAL PARTITION PRODUCT MODEL JSE-CHR-110US450X OR EQUIVALENT</p> | 2 | No | | |
| Total carried to collection page for Ladies Washroom | | | | | |

| Item | Description | Qty | Unit | Rate (Kshs) | Amount (Kshs) |
|---|---|-----|------|-------------|---------------|
| Total carried from previous page | | | | | |
| A | Disabled Persons Water Closet and Wash Hand Basin Facility Close-coupled WC suite ('S' or 'P'-trap) in approved colour complete with horizontal outlet to BS 3402 with 7.5 litre valveless low level ceramic cistern and fittings including siphon, 15mm diameter side inlet ball valve, 20mm diameter side overflow, plastic flush bend, dual flush system, inlet connection, chrome-plated lever and heavy plastic seat and cover with metal top fixed (chrome plated) hinges. All to be as IDEAL STANDARD "PLAN"-wc pan model 109.003.34 water closet or equal and approved. | 1 | No. | | |
| B | 1 x 600mm grab rails with concealed fixings | 1 | No | | |
| C | 1 x 450mm grab rail with concealed fixings | 1 | No | | |
| D | 1x Hinged support rail and toilet roll holder concealed fixings | 1 | No | | |
| E | Pedestal wash hand basin size 560 x 440mm with one tap hole, 32mm diameter chrome plated chain waste, chain stay hole, chrome plated non-conculsive time delay press action pillar tap as Cobra model and chrome plated bottle trap (32mm 'P' trap) with 75mm seal. To be frencia pedestal washhand basin or equal and approved. | 1 | No | | |
| F | Free Counter standing pillar tap with Self-closing cartridge, hydraulically controlled, piston-free design, self-closing, stepless adjustment of flow duration AS NEMSI OR APPROVED EQUIVALENT | 1 | No | | |
| G | 15mm diameter x 300mm long flexible connectors complete with integral chrome plated angle valve as NEMSI or equal and approved. | 1 | No. | | |
| | Robe Hook | | | | |
| H | Double-ended bathroom robe hook, made of AISI 304 stainless steel black finish AS DALI OR APPROVED EQUIVALENT | 1 | No | | |
| | Signage | | | | |
| I | Signage made of stainless steel, 0.5 mm thick and the subject is embossed in black on the stainless steel. The signs to be circular and have a diameter of 116 mm and they are fixed to the wall by means of a double side tape | 1 | No | | |
| Total carried to collection page for Ladies Washroom | | | | | |

| Item | Description | Qty | Unit | Rate (Kshs) | Amount (Kshs) |
|---|--|-----|------|-------------|---------------|
| Total carried from previous page | | | | | |
| | RC office | | | | |
| | Water Closet | | | | |
| A | Close-coupled WC suite ('S' or 'P'-trap) in approved colour complete with horizontal outlet to BS 3402 with 7.5 litre valveless low level ceramic cistern and fittings including siphon, 15mm diameter side inlet ball valve, 20mm diameter side overflow, plastic flush bend, dual flush system, inlet connection, chrome-plated lever and heavy plastic seat and cover with metal top fixed (chrome plated) hinges. All to be as lecico or equal and approved. | 1 | No. | | |
| | Flexible Tubing | | | | |
| B | 15mm diameter x 300mm long flexible connectors complete with integral chrome plated angle valve as NEMSI or equal and approved. | 1 | No. | | |
| | Toilet Roll Holder | | | | |
| C | Fully recessed toilet roll holder in vitreous china of size 165 x 165mm in approved colour as Ideal Standard Model Cassara Cat No. 109.000.10 or equal and approved. | 1 | 10 | | |
| | Robe Hook | | | | |
| D | Double-ended bathroom robe hook, made of AISI 304 stainless steel black finish AS DALI OR APPROVED EQUIVALENT | 1 | No | | |
| | Wash hand basin (WHB)-Pedestal | | | | |
| E | Pedestal wash hand basin size 560 x 440mm with one tap hole, 32mm diameter chrome plated chain waste, chain stay hole, chrome plated non-conculsive time delay press action pillar tap as Cobra model and chrome plated bottle trap (32mm 'P' trap) with 75mm seal. To be of IDEAL STANDARD Model-Plan Above Counter 109.003.38 countertops washhand basin or equal and approved. | 1 | No | | |
| | Wash hand basin tap | | | | |
| F | Free Counter standing pillar tap with Self-closing cartridge, hydraulically controlled, piston-free design, self-closing, stepless adjustment of flow duration AS NEMSI OR APPROVED EQUIVALENT | 1 | No | | |
| | Flexible Tubing | | | | |
| G | 15mm diameter x 300mm long flexible connectors complete with integral chrome plated angle valve as NEMSI or equal and approved. | 1 | No. | | |
| Total carried to collection page for Ladies Washroom | | | | | |

| Item | Description | Qty | Unit | Rate (Kshs) | Amount (Kshs) |
|---|---|-----|------|-------------|---------------|
| Total carried from previous page | | | | | |
| A | <p>Soap Dispenser</p> <p>Wall mounted soap dispenser with a capacity of about one litre having a press action soap release mechanism complete with fixing screws. Allow for initial soap supply. To be as NEMSI soap dispenser or approved equivalent.</p> | 1 | No. | | |
| B | <p>Hand Driers</p> <p>Automatic hand drier in white colour, operating on an infra-red automatic sensing system with heating element safety cut-out complete with a 30 seconds safety timer, plastic rawl plugs and fixing screws. The hand drier to have a heating capacity of 2.1kw and performance flow rate of 135cfm (3.82m³/min) and to be of size 270x264x143mm deep It shall have a noise level below 72.5 dBA at 1.5m. It shall be as Medclinic or approved equivalent.</p> | 1 | No. | | |
| C | <p>Mirror</p> <p>6mm thick polished plate glass silver backed mirror with bevelled edges, size 610 x 610mm, Plugged and screwed to wall with 4No. chrome plated dome capped screws. The mirror shall rest against a layer of 5mm thick foam AS IMPALA GLASS OR APPROVED EQUIVALENT</p> | 1 | No | | |
| Total carried to collection page for Ladies Washroom | | | | | |

| Item | Description | Qty | Unit | Rate (Kshs) | Amount (Kshs) |
|---|---|-----|------|-------------|---------------|
| Total carried from previous page | | | | | |
| | KITCHEN | | | | |
| | Kitchen sink | | | | |
| A | Double Bowl Single Drain Kitchen sink made of Stainless steel material of Size 1000 x 490 x 220mm includes Waste & Bottle Trap.The sink consists of ,kitchen basket,two bowls and one drain on the side AS FRENCIA OR APPROVED EQUIVALENT | 1 | No | | |
| | Kitchen sink Tap | | | | |
| B | Kitchen sink Tap Swivel Spout AS NEMSI OR APPROVED EQUIVALENT | 1 | No | | |
| | Flexible Tubing | | | | |
| C | 15mm diameter x 300mm long flexible connectors complete with integral chrome plated angle valve as NEMSI or equal and approved. | 1 | No. | | |
| | CLEANERS | | | | |
| | Cleaners Sink | | | | |
| D | Heavy duty stainless steel sink of size 675 x 485 x 300mm deep in 16 SWG as manufactured by ASL 131 or approved equivalent suitable for mounting on counter, complete | 1 | No. | | |
| | Cleaners Sink Tap | | | | |
| E | 15mm diameter chrome plated back inlet bib tap Cobra ref 107EC CP, 40mm diameter chrome plated bottle trap and chain waste fitting and plug. | 1 | No. | | |
| Total carried to collection page | | | | | |

| Item | Description | Qty | Unit | Rate (Kshs) | Amount (Kshs) |
|---|--|-----|------|-------------|---------------|
| Total carried from previous page | | | | | |
| | PPR Pipework | | | | |
| A | 20mm diameter pipework | 1 | Lm | | |
| B | 25mm diameter pipework | 150 | Lm | | |
| C | 50mm diameter pipework | 100 | Lm | | |
| | Bends | | | | |
| D | 25mm diameter bend | 24 | No. | | |
| E | 50mm diameter bend | 20 | No. | | |
| | Tees | | | | |
| F | 25mm equal tee | 30 | No. | | |
| G | 50mm equal tee | 5 | No. | | |
| | Reducing Bushes | | | | |
| H | 25 x 20mm diameter reducer | 10 | No. | | |
| I | 50 x 25mm diameter reducer | 3 | No. | | |
| | Male/Female Adapters (CPVC threaded) | | | | |
| J | 20mm threaded adapter | 1 | No. | | |
| K | 25mm threaded adapter | 8 | No. | | |
| | Valves | | | | |
| L | 25mm diameter gate valve | 4 | No. | | |
| M | 50mm diameter gate valve | 1 | No. | | |
| | Unions | | | | |
| N | 25mm diameter pipe union | 4 | No. | | |
| O | 50mm diameter pipe union | 1 | No. | | |
| | Pipe Sleeves | | | | |
| P | 100mm diameter heavy duty PVC pipe sleeves for crossing over columns and beams. | 2 | Lm | | |
| | Pressure Testing | | | | |
| Q | Allow for all costs for pressure testing for plumbing piping and issuance of pressure testing certificates | 1 | No. | | |
| Total carried to collection page | | | | | |

| Item | Description | Qty | Unit | Rate (Kshs) | Amount (Kshs) |
|---|---|-----|------|-------------|---------------|
| Total carried from previous page | | | | | |
| FOUL WATER INTERNAL DRAINAGE | | | | | |
| A | 100mm diameter heavy gauge golden brown UPVC pipe | 90 | Lm | | |
| B | 100mm diameter heavy gauge grey mUPVC pipe | 8 | Lm | | |
| C | 50mm diameter waste pipe | 90 | Lm | | |
| D | 40mm diameter waste pipe | 60 | Lm | | |
| E | 32mm diameter waste pipe | 50 | Lm | | |
| Bends | | | | | |
| F | 100mm diameter long radius bend | 8 | No. | | |
| G | 100mm diameter short radius bend | 8 | No. | | |
| H | 100mm diameter bend with access | 1 | No. | | |
| I | 100mm diameter sweep bend | 1 | No. | | |
| J | 50mm diameter sweep bend | 4 | No. | | |
| K | 40mm diameter sweep bend | 1 | No. | | |
| L | 32mm diameter sweep bend | 4 | No. | | |
| Tees | | | | | |
| M | 100mm diameter sweep tee | 6 | No. | | |
| N | 50mm diameter sweep tee | 6 | No. | | |
| O | 40mm diameter sweep tee | 6 | No. | | |
| P | 32mm diameter sweep tee | 6 | No. | | |
| Access Caps | | | | | |
| Q | 100mm diameter access cap | 6 | No. | | |
| R | 50mm diameter access cap | 2 | No. | | |
| S | 40mm diameter access cap | 4 | No. | | |
| T | 32mm diameter access cap | 4 | No. | | |
| WC Connectors | | | | | |
| U | 100mm diameter WC connector | 7 | No. | | |
| Total carried to collection page | | | | | |

| Item | Description | Qty | Unit | Rate (Kshs) | Amount (Kshs) |
|---|--|-----|------|-------------|---------------|
| Total carried from previous page | | | | | |
| | Traps | | | | |
| A | 100 x 50mm diameter floor trap and grating | 7 | No. | | |
| B | 300 x 300mm Gulley trap and heavy duty gulley trap cover | 4 | No. | | |
| C | 600 x 450mm manhole with heavy duty cover. Manual depth to be determined on site but to a minimum of 600mm | 10 | No. | | |
| D | 150mm diameter heavy gauge golden brown UPVC pipe for interconnecting the septic tank or sewer | 50 | Lm | | |
| Total cost for Plumbing and Drainage Works | | | | | |

BILL NO. 4 FIRE FIGHTING

| Item | Description | Qty | Unit | Rate (Kshs) | Amount (Kshs) |
|------|---|-----|------|-------------|---------------|
| | Portable Fire Extinguishers Supply, deliver, install, test and commission the following portable fire extinguishers and conforming to BS EN 3 / BS 1449. | | | | |
| A | Water/Carbon Dioxide Gas Fire Extinguisher 9 litres water/carbon dioxide gas portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets. | 2 | No | | |
| B | Carbon Dioxide Gas Fire Extinguisher 5 Kg carbon dioxide gas portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets. | 2 | No | | |
| C | Dry Chemical Powder Fire Extinguisher 6kg dry chemical powder portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets. | 2 | No | | |
| D | Manual Alarm Bell 9" (225mm) manual operated alarm bell (Gong) | 2 | No | | |
| E | Fire Notices Allow for fire signage for the hose reel system, fire exits and fire instructions as directed by the Project Engineer. | 2 | No | | |
| | Total | | | | |

BILL NO. 5 WATER TANKS & PUMPS

| Item | Description | Qty | Unit | Rate (Kshs) | Amount (Kshs) |
|---|--|-----|------|-------------|---------------|
| A | Water Pumpset Automatic electrically driven twin booster pump by with automatic changeover, capable of delivering 2 cubic metres per hour against a head of 10 meters.The pumpset to have with inbuilt pressure controller and mounting skid.The Pumpset to be AS PEDROLLO OR APPROVED EQUIVALENT | 1 | Item | | |
| B | Pressure control system for the above pump as from dayliff or eqiovalent | 1 | Item | | |
| C | Pump Cage 1m long x 1m wide x 1m high steel pump cage with lockable access and concrete base | 1 | Item | | |
| D | Ground Water tanks Supply, deliver and install vertical close end plastic moulded tank of capacity 10,000 litres and diameter 1830 mm and of height 2020 mm. The tank to be assembled complete with cover and having screwed connections for inlet, outlet, overflow, drain pipes and any other necessary item for its proper functioning. | 1 | No. | | |
| E | Ground Water tank Plinth Construct a tank plinth of diameter 2500mm raised 300mm above ground level.Allow for all costs associated with excavation,hardcore and concrete including 14mm thick 2no. coatwork cement sand (1:3) render; | 1 | Item | | |
| F | Excavations Excavate trench in soil/murram 400mm wide and depth not exceeding 1000mm deep and average 750mm deep, prepare bed with red soil/marram of particle size not more than 20 mm to a depth of 500mm. | 20 | Lm | | |
| H | 25mm diameter pipework | 20 | Lm | | |
| I | 25mm diameter bend | 6 | No. | | |
| J | 25mm equal tee | 6 | No. | | |
| K | 25mm diameter gate valve | 1 | No. | | |
| L | 25mm diameter pipe union | 1 | No. | | |
| Total carried to collection page | | | | | |

BILL NO. 6 WATER TANKS AND ASSOCIATED INSTALLATION WORKS

| Item | Description | Qty | Unit | Rate (Kshs) | Amount (Kshs) |
|--|--|-----|------|-------------|---------------|
| A | Roof Water tanks Supply, deliver and install vertical close end plastic moulded tank of capacity 1000 litres (130X79). The tank to be assembled complete with cover and having screwed connections for inlet, outlet, overflow, drain pipes and any other necessary item for its proper functioning. The tank shall be mounted on a flat slab and shall be as TOPTANK : OR APPROVED EQUIVALENT | 2 | No. | | |
| B | PPR Pipework 25mm diameter pipework | 100 | Lm | | |
| C | Bends 25mm diameter bend | 15 | No. | | |
| D | Tees 25mm equal tee | 3 | No. | | |
| E | Valves 25mm diameter gate valve | 2 | No. | | |
| F | Unions 25mm diameter pipe union | 2 | No. | | |
| G | Excavations Excavate trench in soil/murram 400mm wide and depth not exceeding 1000mm deep and average 750mm deep, prepare bed with red soil/marram of particle size not more than 20 mm to a depth of 500mm. | 30 | Lm | | |
| Total Carried Forward to summary Page | | | | | |

CIVIL WORK AND ASSOCIATED INSTALLATION WORKS

| Item | Description | Qty | Unit | Rate (Kshs) | Amount (Kshs) |
|--|---|-----|------|-------------|---------------|
| A | <p>Biodigester unit</p> <p>Supply and install biodigester waste treatment system complete to the satisfaction of the Engineer. The system is expected to treat approximately waste for 50 persons daily or of size 2m³ whichever is higher. Include biochemical treatment, warranty and training of client on use and maintenance</p> | 1 | Unit | | |
| B | <p>Soakpit</p> <p>Construct 1 no soak pit overall size 1500mm diameter x 4500mm deep. Allow for excavation, backfill, hardcore, lining, reinforcement, top cover concrete to rendered finish with 600x450 manhole cover to engineers satisfaction</p> | 1 | unit | | |
| C | <p>Excavations</p> <p>Excavate trench in soil/murram 400mm wide and depth not exceeding 1000mm deep and average 750mm deep, prepare bed with red soil/murram of particle size not more than 20 mm to a depth of 500mm.</p> | 50 | Lm | | |
| D | 600 x 450mm manhole with heavy duty cover. Manual depth to be determined on site but to a minimum of 600mm | 15 | No. | | |
| E | 150mm diameter heavy gauge golden brown UPVC pipe for interconnecting the septic tank or sewer | 50 | Lm | | |
| F | Testing and commissioning of the system to the satisfaction of the engineer | 1 | Item | | |
| Total Carried Forward to summary Page | | | | | |

SUMMARY PAGE

| Item | Description | Amount (Kshs) |
|-------------|---|----------------------|
| 1 | Total carried forward for sanitary and piping | |
| 2 | Total carried forward for fire protection systems | |
| 3 | Total carried forward for Ground water tanks and pumps | |
| 4 | Total carried forward for for roof water tanks | |
| 5 | Total carried forward for for Civil works | |
| | Total for Plumbing and Drainage Installation Works carried to Grand Summary Page | |

ELECTRICAL INSTALLATIONS

| BILL NO. 8 ELECTRICAL INSTALLATION WORKS | | | | | |
|--|---|-----|------|-------------|--------|
| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
| 1 | <p><u>Supply ,install,test and commission the following:</u></p> <p>Lighting points wired in 3x1.5mm² PVC SC Copper Cables drawn in concealed 20mm Diameter HG PVC conduits complete with all necessary accessories but excluding switches for:-</p> <p>(a) One Way Switching.</p> <p>(b) 'Ditto' but 2 way</p> | 38 | No. | | |
| 2 | <p>10A moulded ivory switch plates as MK, Clipsal, BG, Crabtree or approved equivalent as follows:</p> <p>(a) 1 gang1 way Switch</p> <p>(b) 3 gang 2 way Switch</p> <p>(c) 2 gang 1 way switch</p> <p>(d) 1 gang 2 way switch</p> | 15 | No | | |
| 3 | <p><u>LIGHTING FITTINGS</u></p> <p>Lighting fittings complete with all accessories including lamps of appropriate wattage and colour rendering and fixing materials as follows:</p> <p>a) 600mmX 600mm X40watts panel ceiling mounted LED light fitting as thorn or approved equivalent</p> <p>b)1200mm x1x36 watts bare floresent fitting complete with electronic ballast,as thorn or approved equivalent</p> <p>c) Bulkhead IP65 lighting fitting with metallic base complete with 15 watts LED lamp</p> <p>d) 20 Watts circular ceiling mounted LED daylight lighting fitting as philips Robus or approved equivalent</p> <p>e) 15 Watts dust proof circular ceiling mounted LED daylight lighting fitting as philips Robus or approved equivalent</p> | 24 | No | | |
| | | 2 | No | | |
| | | 8 | No | | |
| | | 10 | No | | |
| | | 9 | No | | |
| | Sub-total c/f to the next page | | | Kshs | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|------|--|----------|----------|-------------|--------|
| | Brought Forward from previous page | | | | |
| 4 | Emergency lighting points wired in 3x1.5 mm ² single core PVC cables drawn in 20mm heavy gauge conduits concealed in walls and floors, 1-way switched but excluding the light fitting itself | 10 | No | | |
| 5 | Emergency lighting fitting complete with lamp and backup battery | 10 | No | | |
| | POWER POINTS | | | | |
| | Non-Maintained | | | | |
| 6 | 13A ring mains socket outlets comprising wiring in 3x2.5mm sq. single core PVC insulated copper cables drawn in concealed 25 mm diameter Heavy Gauge PVC conduits complete with all the necessary accessories. a) Mounted on walls | 10 | No | | |
| | b) mounted on metal trunking surface | 20 | No | | |
| 7 | Hand drier power points comprising wiring in 3 x 2.5 mm ² PVC/SC CU cables drawn in 25mm \varnothing concealed HG PVC conduits/trunking including all conduit accessories but excluding plates:- a) 20A DP switch c/w with neon indicator | 80 3 | M No | | |
| 8 | Cooker control unit Power point wired using 3x6.0mm ² single core cables drawn in 25mm heavy gauge pvc conduits concealed in walls and floors but excluding the cooker itself on wall | 15 | LM | | |
| 9 | 13A cooker socket outlet as MK or approved equal. | 1 | No | | |
| | Maintained | | | | |
| 10 | 13A ring mains socket outlets comprising wiring in 3x2.5mm sq. single core PVC insulated copper cables drawn in concealed 25 mm diameter Heavy Gauge PVC conduits complete with all the necessary accessories. a) mounted on metal trunking surface | 18 | No | | |
| 11 | 13A switched white moulded case socket outlet plates as MK Clipsal, BG, Crabtree or an approved equivalent. a) Twin outlet. b) Twin outlet red color | 30 18 | No No | | |
| | Sub-total c/f to the next page | | | Kshs | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|------|---|-----|------|-------------|--------|
| | Brought Forward from previous page | | | | |
| 12 | 50 x150mm x2 compartment powder coated metal trunking | 50 | LM | | |
| 13 | Socket outlet frame mounting on Metallic Trunking | 20 | No | | |
| 14 | 4 Way TPN Distribution board complete with all MCB s as havells or approved equivalent | 1 | No | | |
| | i)10A MCB as make of DB | 4 | No | | |
| | ii)32A MCB as make of DB | 4 | No | | |
| | iii)Blank covers | 6 | No | | |
| 15 | 8 Way SPN Consumers Unit for maintained loads havells or approved equivalent | 1 | No | | |
| | i)10A MCB | 4 | No | | |
| | ii)32A MCB | 3 | No | | |
| | iii)Blank covers | 6 | No | | |
| 16 | 16.0mm sq x3 core PVC submain Cu cables | 15 | LM | | |
| 17 | Earthing comprising the following ; | | | | |
| | (i) 1500mmx15mm diameter pure copper earth electrode complete with clamp | 1 | No | | |
| | (ii) 10.0mm ² single core green/yellow earthing lead | 5 | M | | |
| | (iii) Precast earthing inspection pit complete with cover | 1 | No | | |
| | <u>FIRE ALARM SYSTEM</u> | | | | |
| 18 | Fire alarm manual call point wiring done using 2x1.5mm ² PVC fire resistant copper cables drawn in 25 mm dia PVC heavy gauge conduits but excluding the manual call point. | 3 | No | | |
| | a)As ditto but for fire alarm bell point | 3 | No | | |
| | b)As ditto but for beacon light outlet | 3 | No | | |
| | c)As ditto but for smoke detector | 12 | No | | |
| | d)As ditto but for heat detector | 2 | No | | |
| 21 | Smoke detector as MENVIER or equal and approved equivalent with all accessories | 12 | No | | |
| 22 | Heat detector as MENVIER or equal and approved equivalent with all accessories | 1 | No | | |
| 23 | 4-zone fire alarm control panel complete with inbuilt 72 hour battery as MENVIER approved equivalent. | 1 | No | | |
| 25 | Fire alarm adapter boxes | 4 | No | | |
| | Sub-total c/f to the next page | | | Kshs | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|------|---|-----|------|-------------|--------|
| | Brought Forward from previous page | | | | |
| | <u>ABLUTION BLOCK</u> | | | | |
| | <u>Supply ,install,test and commission the following:</u> | | | | |
| 1A | Lighting points wired in 3x1.5mm ² PVC SC Copper Cables drawn in concealed 20mm Diameter HG PVC conduits complete with all necessary accessories but excluding switches for:- (a) One Way Switching. | 13 | No. | | |
| 2A | 10A moulded ivory switch plates as MK, Clipsal, BG, Crabtree or approved equivalent as follows: (a) 1 gang1 way Switch | 2 | No | | |
| | (b) 4 gang 2 way Switch | 1 | No | | |
| | <u>LIGHTING FITTINGS</u> | | | | |
| 3A | Lighting fittings complete with all accessories including lamps of appropriate wattage and colour rendering and fixing materials as follows: a) 15 Watts dust proof circular ceiling mounted LED daylight lighting fitting as philips Robus or approved equivalent | 9 | No | | |
| | b) Bulkhead IP65 lighting fitting with metallic base complete with 15 watts LED lamp | 4 | No | | |
| 4A | 6.0mm ² x2core CU/XPPE/SWA/PVC Copper Armoured cabled from Main building to Ablution Block | 30 | m | | |
| 5A | Trenching, cable laying, hatari tiling and backfilling to the approval of electrical engineer | 25 | m | | |
| 6A | Standard cable loopin box complete with 32A Cut-outs | 2 | No | | |
| 7A | 4 Way SPN Consumers Unit as havells or approved equivalent | 1 | No | | |
| | i)10A MCB | 2 | No | | |
| | ii)Blank covers | 2 | No | | |
| 8A | Earthing comprising the following ; (i) 1500mm×15mm diameter pure copper earth electrode complete with clamp | 1 | No | | |
| | (ii) 10.0mm ² single core green/yellow earthing lead | 5 | M | | |
| | (iii) Precast earthing inspection pit complete with cover | 1 | No | | |
| | Sub-total c/f to the next page | | | Kshs | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|------|--|-------------|---------------|-------------|--------|
| | Brought Forward from previous page | | | | |
| | <u>GATE HOUSE</u> | | | | |
| | <u>Supply ,install,test and commission the following:</u> | | | | |
| 1G | Lighting points wired in 3x1.5mm ² PVC SC Copper Cables drawn in concealed 20mm Diameter HG PVC conduits complete with all necessary accessories but excluding switches for:- (a) One Way Switching. | 5 | No. | | |
| 2G | 10A moulded ivory switch plates as MK, Clipsal, BG, Crabtree or approved equivalent as follows: (a) 1 gang1 way Switch (b) 2 gang 2 way Switch | 1 1 | No No | | |
| | <u>LIGHTING FITTINGS</u> | | | | |
| 3G | Lighting fittings complete with all accessories including lamps of appropriate wattage and colour rendering and fixing materials as follows: a) 600mmX 600mm X40watts panel ceiling mounted LED light fitting as thorn or approved equivalent b) Bulkhead IP65 lighting fitting with metallic base complete with 15 watts LED lamp | 1 4 | No No | | |
| 4G | 6.0mm ² x2core CU/XPLE/SWA/PVC Copper Armoured cabled from Main building to Ablution Block | 40 | m | | |
| 5G | Trenching, cable laying, hatari tiling and backfilling to the approval of electrical engineer | 30 | m | | |
| 6G | Standard cable loopin box complete with 32A Cut-outs | 2 | No | | |
| 7G | 4 Way SPN Consumers Unit as havells or approved equivalent | 1 | No | | |
| | i)10A MCB | 1 | No | | |
| | ii)32A MCB | 1 | No | | |
| | iii)Blank covers | 2 | No | | |
| 8G | Earthing comprising the following ; (i) 1500mmx15mm diameter pure copper earth electrode complete with clamp (ii) 10.0mm ² single core green/yellow earthing lead (iii) Precast earthing inspection pit complete with cover | 1 5 1 | No M No | | |
| | Sub-Total Electrical Installation Works carried to summary page | | | Kshs | |

**BILL NO. 9 SOLAR INSTALLATION PROVISIONS
SUPPLY, INSTALLATION TESTING OF HYBRID SOLAR POWER SYSTEMS**

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT (Kshs) |
|------|---|-----|------|------|---------------|
| | <u>Supply ,install,test and commission the following:</u> | | | | |
| 1 | Solar panels of 24V /580 Watts. The Panels should be able to charge the batteries from 40% to 100% within 8 hours and also it should be monolithic and have manufacturers warranty of 20-25 years | 6 | NO | | |
| 2 | 3kW single phase Hybrid Transformer based inverter as Rio-sun2 or approved equivalent | 1 | No | | |
| 3 | 200Ah Batteries as index nxt or approved equivalent | 2 | No | | |
| 4 | Solar installation accessories including the following | | | | |
| | i) Solar MA RailH47 4800mm | 16 | No | | |
| | ii) Solar L Feet kit | 20 | No | | |
| | iii) Inter clamp kit 35 | 20 | No | | |
| | iv)MA Rail H47 splicekit | 12 | No | | |
| 5 | D.C Cabling-inverter charger and battery bank | | | | |
| | i) 2 single core 70sqmm red and black welding/battery cable from inverter charger to battery fuse combiner box complete cable lugs and glands | 10 | LM | | |
| | ii) 2 single core 70sqmm red and black pvc/swa/pvc from the battery fuse combiner box to battery bank complete cable lugs and glands | 10 | LM | | |
| | iii) 160A 1000v battery fuse combiner box complete with the following fuses | 1 | No | | |
| | iv) 160A 48V dc fuse | 4 | No | | |
| 6 | Ac Cabling | | | | |
| | a) 2 core 10.0sqmm pvc/swap/pvc copper cable between the string inverter and AC output D.B | 15 | LM | | |
| | Sub-Total Carried to the next page | | | | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT (Kshs) |
|--|--|-----|------|------|---------------|
| | Sub-total carried forward from the previous page | | | | |
| | b) 63A SPN three position metal clad manual by pass as schneider/ABB ar approved equiverllent | 1 | NO | | |
| | c) 63A SPN moulded case isolator between the cluster box and inverter charger/ change over switch as schneider /ABB or an approved aquivalent. | 1 | NO | | |
| 7 | Battery rack to carry 2 Batteries | 1 | item | | |
| 8 | Cable tray and trunking | | | | |
| | i)250x25mm galvanised cable tray complete with mounting brackets tobe installed at 1 M interval | 10 | LM | | |
| | ii)250X50mm stove anamelle ,oven baked 3 compartment rectangular powder coated metallic trunking . Colour to architect's/ client approval | 10 | LM | | |
| | iii)cable ties and all necessary accessories | 1 | item | | |
| 9 | Earthing and bonding | | | | |
| | Complete earthing of DC equipment and AC as to be instructed by the Electrical Engineer | 1 | ITEM | | |
| TOTAL COST FOR SOLAR INSTALLATION WORKS c/f to summary page | | | | | |

SUMMARY PAGE

| Item | Description | Amount (Kshs) |
|--|---|------------------|
| A | Sub-total from Electrical installation works brought forward from page E/4 | |
| B | Sub-total from Solar installation works brought forward from page E/6 | |
| C | Allow a Provisional Sum of Kshs. 150,000/- for Kenya Power Service Line application charges to be used at the discretion of the Project Manager | 150,000 |
| D | Allow a Provisional Sum of Kshs. 1,000,000/- for CCTV, STRUCTURED CABLING AND INTERNET INSTALLATION | 1,000,000 |
| D | Allow for testing and commissioning the works to the Project Manager approval | 50,000 |
| Total for Electrical Installation Works c/f Grand Summary | | |

REGIONAL OFFICE SUMMARY

| PROPOSED CONSTRUCTION OF REGIONAL OFFICES MAIN BUILDING WORKS NG-CDF BOARD MAIN SUMMARY | | | |
|--|---|----------|--------------|
| Bill No. | Description | Page No. | Amount (Ksh) |
| 1 | REGIONAL OFFICE BLOCK BUILDER'S WORK | 2/17 | |
| 2 | PLUMBING, DRAINAGE & MECHANICAL INSTALLATIONS | | |
| 3 | ELECTRICAL INSTALLATIONS | | |
| TOTAL TENDER SUM TO FORM OF TENDER | | | |
| AMOUNT IN WORDS (Amount inclusive of 16% VAT and withholding Tax) | | | |
| Contractors Signature & Official Rubber Stamp | | | |
| Date | | | |
| Name & Signature of Witness | | | |
| Address of Witness | | | |
| Date | | | |

| Item | Description | Unit | Qty | Rate | Amount |
|------|--|------|-----|------|--------|
| | <u>SECTION NO. 3: PROPOSED SENTRY/GATE HOUSE</u> | | | | |
| | <u>MAIN BUILDING</u> | | | | |
| | <u>ELEMENT NO 1</u> | | | | |
| | <u>SUBSTRUCTURES (ALL PROVISIONAL)</u> | | | | |
| | <u>Site Preparation</u> | | | | |
| | <u>Site Clearance</u> | | | | |
| A | Clear site of bushes, scrub, undergrowth and cut down small trees not exceeding 600mm girth and grub up roots; uproot tree stumps of various diameters including grubbing up roots; load and remove from site and transport to approved county tip/disposal point. | SM | 9 | | |
| | <u>Excavations</u> | | | | |
| | <u>General excavations to include excavating in loam, clay, black cotton soil, red soil or any soil which does not require ripping or use of compressor tools</u> | | | | |
| B | Excavate average 200mm deep to remove top soil : cart away arising to approved county tip. | SM | 9 | | |
| C | Excavate to formation levels in final trimming and levelling: commencing from stripped levels; not exceeding 1.5 meters deep | CM | 3 | | |
| C | Excavate trenches for wall foundations : commencing from reduced level : not exceeding 1.5 metres deep. | CM | 9 | | |
| | <u>Disposal of excavated materials</u> | | | | |
| E | Surplus excavated materials : remove, load and cart away from site to an approved county tip. | CM | 7 | | |
| F | Backfill and compact in layers : selected excavated material around foundations : placed in 200mm thick layers : well watered and compacted to 95% MDD; allow for re-excavation and wheeling from temporary spoil heaps. | CM | 5 | | |
| | <u>Disposal of water</u> | | | | |
| G | Keep excavations free from all water by baling, pumping or otherwise | ITEM | 1 | | |
| | <u>Planking and strutting</u> | | | | |
| H | Planking and strutting to sides of all excavations : keep excavations free form all fallen materials | ITEM | 1 | | |
| | Carried to Collection | | | | |

| Item | Description | Unit | Qty | Rate | Amount |
|------|--|------|-----|------|--------|
| A | <u>Imported hardcore</u> Approved quarry stone hardcore filling : 300mm thick (overall) : deposit, handpack, level and compact in layers not exceeding 150mm thick : to receive 100mm slab (m/s) | SM | 6 | | |
| B | <u>Murram blinding</u> 50mm Murram blinding to surface of hardcore fill | SM | 6 | | |
| C | <u>Antitermite Treatment</u> Chemical antitermite treatment to murram filling ; Dragnet 30% EC or equal and approved : provide ten year guarantee | SM | 6 | | |
| D | <u>In situ concrete : class 15/25mm</u> 50mm Blinding layer : under wall foundations | SM | 6 | | |
| E | <u>In situ concrete : Class 20: vibrated : reinforced</u> Foundation in trenches | CM | 1 | | |
| F | 75mm Thick Surface bed | SM | 8 | | |
| G | <u>Ribbed: Mild steel bar reinforcement to BS 4449 and High tensile steel bar reinforcement to BS 4461 (Provisional)</u> Assorted bars | Kg | 90 | | |
| H | <u>Mesh fabric reinforcement reference A142 to BS 4483 : weighing 2.22Kg per square metre : 200mm laps Minimum.</u> In surface beds | SM | 8 | | |
| I | Vertical sides: wall foundations | SM | 4 | | |
| J | Vertical edge of bed : over 75 but not exceeding 150mm high | LM | 12 | | |
| K | <u>Approved quality local stone; minimum load bearing (7N/mm²) block walling: medium chisel dressed : in regular courses : in cement and sand (1:3) mortar; with and including 20 gauge hoop iron wall ties 25mm wide cast into concrete and built into walling.</u> 200mm Walling | SM | 16 | | |
| | Carried to Collection | | | | |

| Item | Description | Unit | Qty | Rate | Amount |
|------|---|------|-----|------|--------|
| A | <u>Labours and sundries</u> One Layer 1000 gauge polythene sheet damp proof membrane : under bed : 300mm laps | SM | 8 | | |
| B | <u>Plinths</u> 12mm Cement and sand (1:4) render with woodfloat finish : to exposed plinth walls Plinth | SM | 3 | | |
| C | Prepare and apply two coats bituminous paint to rendered plinths | SM | 3 | | |
| | Carried to Collection | | | | |

| Item | Description | Unit | Qty | Rate | Amount |
|------|--|------|---------|------|--------|
| | <u>COLLECTION</u> | | | | |
| | | | Page No | | Amount |
| | Total Brought Forward from Page No. | | GH/1 | | |
| | | | | | |
| | " | | GH/2 | | |
| | | | | | |
| | " | | GH/3 | | |
| | | | | | |
| | Substructure Total Carried Forward to Summary | | | | |

| Item | Description | Unit | Qty | Rate | Amount |
|------|---|------|-----|------|--------|
| | <u>ELEMENT No.2</u> <u>REINFORCED CONCRETE SUPERSTRUCTURE</u> | | | | |
| | <u>In situ concrete : Class 20/20 mm : vibrated : reinforced</u> | | | | |
| A | Beams | CM | 1 | | |
| | <u>Ribbed Mild steel bar reinforcement to BS 4449 and High tensile steel bar reinforcement to BS 4461 (Provisional)</u> | | | | |
| B | Assorted bars | Kg | 100 | | |
| | <u>Sawn formwork : to</u> | | | | |
| C | Sides and soffits : beams | SM | 6 | | |
| | Total For Reinforced Concrete Superstructure Carried to Summary | | | | |

| Item | Description | Unit | Qty | Rate | Amount |
|------|---|------|-----|------|--------|
| | <u>ELEMENT NO 3</u> | | | | |
| | <u>ROOFING (Provisional)</u> | | | | |
| | <u>TIMBER STRUCTURE & COVERING</u> | | | | |
| | <u>Prepainted galvanized sheets gauge 28 (or other equal and approved) laid on purlins to main roof level; as described to:-</u> | | | | |
| A | Coverings to 25degrees slopping timber framed roof : nailed every third course. | SM | 18 | | |
| | <u>Roofing accessories to match roofing tiles as described to:</u> | | | | |
| B | Standard ridge capping | m | 4 | | |
| C | Standard ridge end piece | No | 2 | | |
| | <u>Unplasticised PVC panel boards</u> | | | | |
| D | 8mm thick heavy gauge UPVC panel to eaves boarding on and including 50 x 50mm brandering | m2 | 5 | | |
| E | 25 x 250mm Fascia or barge board | m | 17 | | |
| | <u>Prepare and knot coated surfaces : prime and apply three coats polyurethane clar varnish : on wood</u> | | | | |
| F | General surfaces : eaves boarding | m2 | 5 | | |
| | <u>Prepare and knot coated surfaces : prime and apply two undercoats and one finishing coat gloss paint : on wood</u> | | | | |
| G | Fascia : over 200 but not exceeding 300mm girth | m | 17 | | |
| | Carried to Collection | | | | |

| Item | Description | Unit | Qty | Rate | Amount |
|------|--|------|-----|------|--------|
| | <u>Roof Structure (Provisional)</u> | | | | |
| | <u>Structural timbers : sawn cypress : pressure impregnated . Rate to including all bolting, nailing and fixing into place with and including gms diameter bolts with nuts and washers; gusset plates with holes; drilling of holes in timber for bolts; sizes of bolts, plates and holes to approval to:</u> | | | | |
| A | 50 x 75mm Purlins spaced at 400mm centres for hanging and nailing roofing tile (m/s) | m | 20 | | |
| B | 50 x 100mm Wall plate : fixed with and including 12mm diameter mild steel ragbolt 150mm long at 900mm centres ; cast in ring beams. | m | 11 | | |
| C | 50 x 100mm Common rafters. | m | 18 | | |
| D | 50 x 200mm Ridge board. | m | 5 | | |
| | <u>The following in 3No truss (Truss T1) spanning 4000mm and 935mm high : hoisting and fixing at 2800mm above ground level</u> | | | | |
| E | 100 x 50mm King post | m | 3 | | |
| F | 150 x 50mm Ceiling joists | m | 12 | | |
| G | 100 x 50mm Struts and ties | m | 10 | | |
| | <u>Rainwater Disposal (provisional)</u> | | | | |
| | <u>Unplasticised PVC rainwater pipes and fittings : solvent welded joints</u> | | | | |
| H | 100mm Diameter rainwater pipe ; fixed to wall with approved holder brackets. | LM | 12 | | |
| I | Extra over downpipe for bend | No. | 4 | | |
| J | Extra over for rainwater shoe | No. | 4 | | |
| | Carried to Collection | | | | |

| Item | Description | Unit | Qty | Rate | Amount |
|------|---|------|---|------|----------------------|
| | <p><u>COLLECTION</u></p> <p>Total Brought Forward from Page No.</p> | | <p><u>Page No</u></p> <p>GH/6</p> <p>GH/7</p> | | <p><u>Amount</u></p> |
| | Roofing Works Total Carried to Summary | | | | |

| Item | Description | Unit | Qty | Rate | Amount |
|------|--|------|-----|------|--------|
| | <p><u>ELEMENT No.4</u> <u>WALLING</u> <u>External Walling</u></p> <p><u>Selected and approved quality local stone blocks : regular coursed walling of uniform colour : 200mm course heights : medium chisel dressed finish to one face : horizontal recessed joints ; flush vertical joints bedded and jointed in cement and sand (1:3); reinforced with 20 gauge 25mm hoop iron strips laid horizontally every alternate course</u></p> | | | | |
| A | 150mm Thick Walling | SM | 26 | | |
| B | Ditto Gable walls | SM | 4 | | |
| | <p><u>Damp proof courses : bituminous felt : bedded in cement mortar (1:4) : 300mm laps</u></p> | | | | |
| C | Horizontal : 150mm wide | LM | 13 | | |
| | Carried Forward to Summary | | | | |

| Item | Description | Unit | Qty | Rate | Amount |
|------|---|------|-----|------|--------|
| | <p><u>ELEMENT No.6</u> <u>WINDOWS (PROVISIONAL)</u> <u>Precast concrete units : class 20/20 : reinforced as necessary for handling ; fair face finished on all exposed faces</u></p> | | | | |
| A | 250 x 75mm Cill :once weathered and throated : bedded in cement mortar 1:4) | LM | 2 | | |
| | <p><u>METAL WORK</u> <u>Purpose made steel casement windows manufactured from standard metric W20 sections : supplied with hinges and polished brass handles and stays : permanent vents to top edge ; fixed with lugs built into concrete or stone walls ; pointed externally with silicone: welded onto in mastic and finished with one shop coat primer; all to Architect's approval and as per the issued Window Schedule.</u></p> | | | | |
| B | Window overall size 900 x 900mm high: W1 | No. | 3 | | |
| | <u>5mm Clear sheet glass : fixed with putty on metal frames</u> | | | | |
| C | In panes over 0.5 but not exceeding 1.0 square metres each | SM | 2 | | |
| | <u>Prepare touch up primer and apply two undercoats and one finishing coat gloss paint ; on metal</u> | | | | |
| D | Steel casement windows (both sides) | SM | 4 | | |
| E | Burglar proofing (ditto) | SM | 4 | | |
| | Windows Total Carried Forward to Summary | | | | |

| Item | Description | Unit | Qty | Rate | Amount |
|------|--|------|-----|------|--------|
| | <p><u>ELEMENT No.7</u> <u>DOORS</u> <u>Metal Doors</u></p> <p><u>Supply and fix the following purpose -made steel doors, including fixing lugs, once shop primed with one coat red oxide primer before delivery to site, welding to steel stanchions complete with frames and including all iron-mongery, all pointed round in cement sand (1:3) mortar to Architect approval and as per Door Schedule:</u></p> | | | | |
| A | <p>Single leaf, double swing mild steel panel door overal size 900 x 2500mm high : comprising 50 x 50 x 3mm RHS stiles, top, bottom and middle rails ; the open panels welded over with 1.5mm thick mild steel plate : 50 x 50x 6mm lock plate to each leaf welded ot frame and drilled with 6mm diameter hole for padlock : hanging door to and including 100 x 75 x 6mm angle frame: Door D1</p> | No. | 2 | | |
| E | <p><u>4mm Clear sheet glass : glazing to wood with beads (measured separately)</u> In panes over 0.1 but not exceeding 0.5 square metres each</p> | SM | 2 | | |
| I | <p><u>Prepare touch up primer and apply two undercoats and one finishing coat gloss paint : on metal</u> General surfaces : steel doors : (both sides measured flat overall)</p> | SM | 9 | | |
| | Carried to Summary | | | | |

| Item | Description | Unit | Qty | Rate | Amount |
|------|---|------|-----|-------|--------|
| | ELEMENT No.10 | | | | |
| | INTERNAL FINISHES | | | | |
| | Render, Plasterwork and Screeds | | | | |
| | <u>Prepare and apply 12mm (minimum) thick backing cement and sand (1:4): steel trowelled finish: on concrete blockwork or stonework : to</u> | | | | |
| A | Walls to receive tiles. | 11 | SM | | |
| | <u>Prepare and apply 12mm (minimum) thick backing cement and sand (1:4): steel trowelled finish: on concrete blockwork or stonework : to</u> | | | | |
| B | Walls to receive paint. | 15 | SM | | |
| | <u>Cement and sand (1:4) trowelled screeds : on concrete : to</u> | | | | |
| C | 32mm Floors : finished to receive ceramic tile flooring | 5 | SM | | |
| | Wall Paint | | | | |
| | <u>Prepare and apply three coats of premium quality silk vinyl emulsion paint as approved to:-</u> | | | | |
| D | Walls; internal | 15 | SM | | |
| | <u>Provide a prime cost sum as indicated for supply of:</u> | | | | |
| E | 200 x 300mm ceramic wall tiles | 11 | SM | 1,200 | |
| | <u>Take delivery & fix coloured glazed ceramic wall tiles as approved by the Architect : on and including cement and sand backing ; fixed with approved quality adhesive : grouted, jointed and pointed in matching colour cement mortar : on</u> | | | | |
| F | 200 x 300 x 8mm non-slip ceramic tiles to plastered surfaces | 11 | SM | | |
| | Floor finishes | | | | |
| | <u>Provide a prime cost sum as indicated for supply of:</u> | | | | |
| G | 400 x 400mm ceramic floor tiles | 5 | SM | 1,500 | |
| | <u>Take delivery & fix coloured glazed non-slip ceramic floor tiles: as selected by the Architect : on screeded bed (m/s) jointed, pointed and grouted in matching colour cement mortar</u> | | | | |
| H | 400 x 400mm ceramic floor tiles | 5 | SM | | |
| | Carried to Collection | | | | |

| Item | Description | Unit | Qty | Rate | Amount |
|------|---|------|-----|------|--------|
| | Ceiling finishes | | | | |
| A | Supply & fix 9mm thick gypsum board on steel studwork complete with metal edge and ceiling trims in accordance with Architect's details. | 5 | SM | | |
| B | 75 x 12mm cornice with two labours plugged | 10 | LM | | |
| C | Prepare and apply three coats of plastic emulsion paint to general surfaces of gypsum(Brilliant white) including skimming sand and leave smooth surfaces | 5 | SM | | |
| D | Ditto girth 100-200mm | 10 | LM | | |
| E | Extra over for gypsum ceiling trap door size 600x600mm with wrot cypress framing 50x50mm with miltre joints | 1 | NO | | |
| | Carried to Collection | | | | |

| Item | Description | Unit | Qty | Rate | Amount |
|------|---|------|---|------|----------------------|
| | <p><u>COLLECTION</u></p> <p>Total Brought Forward from Page No.</p> | | <p><u>Page No</u></p> <p>GH/12</p> <p>GH/13</p> | | <p><u>Amount</u></p> |
| | <p>Internal Finishes Total Carried to Summary</p> | | | | |

| Item | Description | Unit | Qty | Rate | Amount |
|------|---|------|-----|------|--------|
| | <u>ELEMENT No.9</u> <u>EXTERNAL FINISHES</u> <u>WALL FINISHES</u> <u>12mm Thick Cement and sand (1:3) plaster to external concrete surfaces.</u> | | | | |
| A | Concrete and masonry surfaces surfaces generally | SM | 15 | | |
| | <u>Prepare and apply three coats of exterior quality emulsion permacote paint with Teflon as "Crown Paints" or equal and approved equivalent; to rendered surfaces to :</u> | | | | |
| B | Rendered walls, beams and columns | SM | 15 | | |
| | <u>PAVEMENT</u> | | | | |
| C | 200mm Hardcore bed ; deposited, spread levelled and compacted : to receive sand bed | SM | 15 | | |
| D | 50mm Sand bed : levelled and compacted to receive paving | SM | 15 | | |
| E | 50 x 600 x 600mm Precast concrete (class 20) paving slabs ; laid on sand bed (m/s) jointed and pointed in cement mortar (1:4). | SM | 15 | | |
| | Total For External Finishes Carried Forward to Summary | | | | |

| Item | Description | Unit | Qty | Rate | Amount |
|------|---|------|------|--------|-----------|
| | <u>ELEMENT No.12</u> <u>ELECTRICAL INSTALLATIONS</u> | | | | |
| A | Allow a Provisional Sum of Ksh Ten Thousand Only (Ksh 10,000.00) for Electrical Installations | ITEM | 1.00 | 10,000 | 10,000.00 |
| | <u>Builders work in connection with Electrical installations</u> <u>Cut away for electrical points, fittings and equipment : make good after the electrician : concealed type system (provisional)</u> | | | | |
| B | Allow a Provisional Sum of Ksh Ten Thousand Only (Ksh 10,000.00) for Builders work in connection with Electrical Installations | ITEM | 1.00 | 10,000 | 10,000.00 |
| | Carried Forward to Summary | | | | 20,000.00 |

| Item | Description | Unit | Qty | Rate | Amount |
|------|---|------|--------------------|------|----------------------|
| | <u>SECTION NO. 3: PROPOSED SENTRY/GATE HOUSE</u> | | | | |
| | <u>SECTION SUMMARY - MAIN HOUSE</u> | | <u>Page</u> | | <u>Amount</u> |
| | | | | | |
| 1 | SUBSTRUCTURES | | GH/4 | | |
| | | | | | |
| 2 | REINFORCED CONCRETE SUPERSTRUCTURE | | GH/5 | | |
| | | | | | |
| 4 | ROOFING | | GH/8 | | |
| | | | | | |
| 5 | WALLING | | GH/9 | | |
| | | | | | |
| 6 | WINDOWS | | GH/18 | | |
| | | | | | |
| 7 | DOORS | | GH/11 | | |
| | | | | | |
| 9 | INTERNAL FINISHES | | GH/12 | | |
| | | | | | |
| 10 | EXTERNAL FINISHES | | GH/13 | | |
| | | | | | |
| 11 | ELECTRICAL INSTALLATIONS - BUILDERS WORKS | | GH/15 | | |
| | | | | | |
| | | | | | |
| | Total For Sentry Works Carried to Final Summary | | | | |

SANITARY FITTING& INTERNAL PIPING

| Item | Description | Qty | Unit | Rate (Kshs) | Amount (Kshs) |
|---|--|-----|------|-------------|---------------|
| A | <p>Asian Toilet</p> <p>Squatting Type Toilet in Stainless Steel AISI 304, 1 mm thick, Polished finish, Floor mounted, Ø 102mm water output, Water input, dimensions of 595x625x150 mm. All to be as 'TAPIS S9112' or approved equivalent.</p> | 1 | No. | | |
| B | <p>Toilet Roll Holder</p> <p>Fully recessed toilet roll holder in vitreous china of size 165 x 165mm in approved colour as Ideal Standard Model Cassara Cat No. 109.000.10 or equal and approved.</p> | 1 | No | | |
| D | <p>Signage</p> <p>Signage made of stainless steel, 0.5 mm thick and the subject is embossed in black on the stainless steel. The signs to be circular and have a diameter of 116 mm and they are fixed to the wall by means of a double side tape</p> | 1 | No | | |
| E | <p>Wash hand basin (WHB)-Counter top</p> <p>Countertop wash hand basin size 560 x 440mm with one tap hole, 32mm diameter chrome plated chain waste, chain stay hole and chrome plated bottle trap (32mm 'P' trap) with 75mm seal. To be of FRENCIA Model-Plan Above countertops washhand basin or equal and approved.</p> | 0 | No | | |
| Total carried to collection page | | | | | |

| Item | Description | Qty | Unit | Rate (Kshs) | Amount (Kshs) |
|---|--|-----|------|-------------|---------------|
| Total carried from previous page | | | | | |
| A | <p>Wash hand basin (WHB)-Pedestal Pedestal wash hand basin size 560 x 440mm with one tap hole, 32mm diameter chrome plated chain waste, chain stay hole, chrome plated non-conculsive time delay press action pillar tap as Cobra model and chrome plated bottle trap (32mm 'P' trap) with 75mm seal. To be of IDEAL STANDARD Model-Plan Above Counter 109.003.38 countertops washhand basin or equal and approved.</p> <p>Wash hand basin tap</p> <p>Free Counter standing pillar tap with Self-closing cartridge, hydraulically controlled, piston-free design, self-closing, stepless adjustment of flow duration AS NEMSI OR APPROVED EQUIVALENT</p> <p>Flexible Tubing</p> <p>15mm diameter x 300mm long flexible connectors complete with integral chrome plated angle valve as NEMSI or equal and approved.</p> | 1 | No | | |
| B | | 1 | No | | |
| C | | 1 | No. | | |
| Total carried to collection page | | | | | |

| Item | Description | Qty | Unit | Rate (Kshs) | Amount (Kshs) |
|---|--|-----|------|-------------|---------------|
| Total carried from previous page | | | | | |
| A | <p>Mirror</p> <p>6mm thick polished plate glass silver backed mirror with bevelled edges, size1800 x 610mm, Plugged and screwed to wall with 4No. chrome plated dome capped screws. The mirror shall rest against a layer of 5mm thick foam AS IMPALA GLASS OR APPROVED EQUIVALENT</p> | 1 | No | | |
| Total carried to collection page | | | | | |

| Item | Description | Qty | Unit | Rate (Kshs) | Amount (Kshs) |
|---|--|-----|------|-------------|---------------|
| Total carried from previous page | | | | | |
| | PPR Pipework | | | | |
| A | 20mm diameter pipework | 1 | Lm | | |
| B | 25mm diameter pipework | 3 | Lm | | |
| C | 32mm diameter pipework | 5 | Lm | | |
| | Bends | | | | |
| D | 25mm diameter bend | 3 | No. | | |
| E | 32mm diameter bend | 2 | No. | | |
| | Tees | | | | |
| F | 25mm equal tee | 4 | No. | | |
| | Reducing Bushes | | | | |
| H | 25 x 20mm diameter reducer | 1 | No. | | |
| I | 32 x 25mm diameter reducer | 2 | No. | | |
| | Male/Female Adapters (CPVC threaded) | | | | |
| J | 20mm threaded adapter | 1 | No. | | |
| K | 25mm threaded adapter | 1 | No. | | |
| | Valves | | | | |
| L | 25mm diameter gate valve | 1 | No. | | |
| | Unions | | | | |
| N | 25mm diameter pipe union | 1 | No. | | |
| | Pressure Testing | | | | |
| Q | Allow for all costs for pressure testing for plumbing piping and issuance of pressure testing certificates | 1 | No. | | |
| Total carried to collection page | | | | | |

| Item | Description | Qty | Unit | Rate (Kshs) | Amount (Kshs) |
|---|---|-----|------|-------------|---------------|
| Total carried from previous page | | | | | |
| | FOUL WATER INTERNAL DRAINAGE | | | | |
| A | 100mm diameter heavy gauge golden brown UPVC pipe | 6 | Lm | | |
| B | 100mm diameter heavy gauge grey mUPVC pipe | 6 | Lm | | |
| D | 40mm diameter waste pipe | 5 | Lm | | |
| E | 32mm diameter waste pipe | 5 | Lm | | |
| | Bends | | | | |
| H | 100mm diameter bend with access | 1 | No. | | |
| I | 100mm diameter sweep bend | 1 | No. | | |
| L | 32mm diameter sweep bend | 1 | No. | | |
| | Tees | | | | |
| M | 100mm diameter sweep tee | 1 | No. | | |
| P | 32mm diameter sweep tee | 1 | No. | | |
| | Access Caps | | | | |
| Q | 100mm diameter access cap | 1 | No. | | |
| T | 32mm diameter access cap | 1 | No. | | |
| | WC Connectors | | | | |
| U | 100mm diameter WC connector | 1 | No. | | |
| Total carried to collection page | | | | | |

| Item | Description | Qty | Unit | Rate (Kshs) | Amount (Kshs) |
|---|--|-----|------|-------------|---------------|
| Total carried from previous page | | | | | |
| | Traps | | | | |
| A | 100 x 50mm diameter floor trap and grating | 1 | No. | | |
| B | 300 x 300mm Gulley trap and heavy duty gulley trap cover | 1 | No. | | |
| C | 600 x 450mm manhole with heavy duty cover. Manual depth to be determined on site but to a minimum of 600mm | 1 | No. | | |
| D | 100mm diameter heavy gauge golden brown UPVC pipe for interconnecting the septic tank or sewer | 10 | Lm | | |
| Total cost for Plumbing and Drainage Works | | | | | |

PRIME COST & PROVISIONAL SUMS

| ITEM | DESCRIPTION | UNIT | AMOUNT |
|------|---|------|------------------|
| | <p><u>BILL NO. 10</u> <u>PRIME COST AND PROVISIONAL SUMS</u> <u>EXPENDITURE FOR ITEMS HERE BELOW SHALL BE APPROVED BY NG-CDF BOARD</u></p> <p><u>The following sums shall be expended upon Architect's instructions and may be omitted in whole</u></p> | | |
| A | Allow a Provisional sum of Kenya shillings Two Hundred and Fifty thousand only (Kshs 250,000/-) only for Project Documentation. | SUM | 250,000 |
| B | Allow a Provisional sum of Kenya shillings Two hundred and Fifty thousand only (Kshs 250,000/-) only for Project Management. | SUM | 250,000 |
| C | Allow a Provisional sum of Kenya shillings Three million shillings only (Kshs 3,000,000/-) only for Erection of masonry boundary walling along the perimeter. | SUM | 3,000,000 |
| D | Allow a Provisional sum of Kenya shillings Two hundred thousand only (Kshs 200,000/-) only for soft landscaping. | SUM | 200,000 |
| E | Allow a Provisional sum of Kenya shillings Three hundred thousand only (Kshs 300,000/-) only for Project Contingency. | SUM | 300,000 |
| F | <p><u>GATE (PROVISIONAL)</u> Allow for installation of mild steel framed sliding gate average size 5500 x 2500mm high including all associated works, necessary accessories and one shop coat primer before delivery to site.</p> | SUM | 100,000 |
| | TOTAL FOR PRIME COST AND PROVISIONAL SUMS | | |

| PROPOSED CONSTRUCTION OF REGIONAL OFFICES NG-CDF BOARD MAIN SUMMARY | | | |
|--|-----------------------|----------|--------------|
| Bill No. | Description | Page No. | Amount (Ksh) |
| 1 | PRELIMINARIES | | |
| 2 | REGIONAL OFFICE | M/S 1 | |
| 3 | GATE HOUSE | GH/15 | |
| 4 | PC & PROVISIONAL SUMS | | |
| TOTAL TENDER SUM TO FORM OF TENDER | | | |
| AMOUNT IN WORDS (Amount inclusive of 16% VAT and withholding Tax) | | | |
| Contractors Signature & Official Rubber Stamp | | | |
| Date | | | |
| Name & Signature of Witness | | | |
| Address of Witness | | | |
| Date | | | |