

PROPOSED ESTIMATE FOR CONSTRUCTION AND COMPLETION OF DORMITORY BLOCK AT  
EKENYORO TECHNICAL SENIOR SCHOOL . BILL OF QUANTITIES

**REPUBLIC OF KENYA**



**MINISTRY OF PUBLIC WORKS**

**PROPOSED ESTIMATE FOR CONSTRUCTION  
AND COMPLETION OF DORMITORY BLOCK**

**UNSTABLE SOIL**

**AT**

**EKENYORO TECHNICAL SENIOR SCHOOL**

**BILLS OF QUANTITIES**

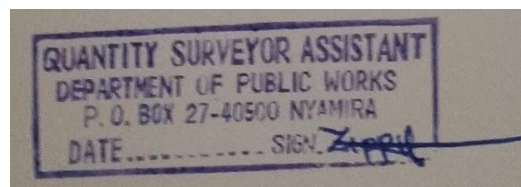
**PREPARED BY:**

QUANTITY SURVEYOR ASSISTANT,

DEPT OF TR & PUBLIC WORKS

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NYAMIRA.



PROPOSED ESTIMATE FOR CONSTRUCTION AND COMPLETION OF DORMITORY BLOCK AT  
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| ITEM | DESCRIPTION                                                                                                                                                                                                                 | QTY | UNIT | RATE | KSHS |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|------|------|
|      | <b><u>BILL NO.1 :BUILDING WORKS</u></b><br><b><u>ELEMENT NO.1</u></b><br><b><u>SUBSTRUCTURES</u></b><br><b><u>(ALL PROVISIONAL)</u></b><br><b>is up to and including the floor slab but</b><br><b><u>Site clearance</u></b> |     |      |      |      |
| A    | Clear the site off all bush scrub undergrowth and small trees grub up roots and cart away or burn all arising (Appox.area 236 sq.sm)                                                                                        | 324 | S.M  |      |      |
|      | <b><u>Excavation and earthwork</u></b>                                                                                                                                                                                      |     |      |      |      |
| B    | Excavation oversite average 200mm deep to remove vegetable soil , load,wheel and deposit as directed later spread on site as directed                                                                                       | 236 | S.M  |      |      |
| C    | Excavate for strip foundation starting from reduced level not exceeding 1.50 meters deep commencing from reduced level                                                                                                      | 106 | CM   |      |      |
| D    | Excavate pit for column bases in normal n.e. 1.5 m deep starting from reduced level.                                                                                                                                        | 54  | CM   |      |      |
| E    | Allow for keeping excavations free from mud and all water including spring and running water by pailing or other approved means.                                                                                            | 1   | ITEM |      |      |
| F    | Allow for planking and strutting to sides of excavations                                                                                                                                                                    | 1   | ITEM |      |      |
|      | <b><u>Disposal</u></b>                                                                                                                                                                                                      |     |      |      |      |
| G    | Load surplus excavated material and cart away                                                                                                                                                                               | 95  | CM   |      |      |
|      | <b><u>Filling</u></b>                                                                                                                                                                                                       |     |      |      |      |
| H    | Return, fill in and ram selected excavated material around foundations                                                                                                                                                      | 65  | CM   |      |      |
|      | <b><u>Hardcore as described</u></b>                                                                                                                                                                                         |     |      |      |      |
| I    | 250mm thick layer of imported hardcore filling including levelling and consolidating in 150mm layers                                                                                                                        | 236 | SM   |      |      |
|      | <b><u>Blinding</u></b>                                                                                                                                                                                                      |     |      |      |      |
| J    | 50mm Thick quarry dust blinding to the surface of hardcore rolled smooth to receive polythene sheeting (s.m)                                                                                                                | 236 | SM   |      |      |
|      | <b><u>Insecticide treatment</u></b>                                                                                                                                                                                         |     |      |      |      |
| K    | TERMINOL or other equal and approved insecticide treatment prepared and applied according to the manufacture's printed instructions.                                                                                        | 236 | SM   |      |      |
|      | <b><i>Carried to collection.</i></b>                                                                                                                                                                                        |     |      |      |      |

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| ITEM     | DESCRIPTION                                                                                                                                      | QTY | UNIT | RATE | KSHS |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|------|------|
|          | <b><u>SUBSTRUCTURES ( CONT'D)</u></b>                                                                                                            |     |      |      |      |
|          | <b><u>Damp proof membrane</u></b>                                                                                                                |     |      |      |      |
| <b>A</b> | 500mm gauge Polythene or other equal and approved plastic sheet damp proof membrane laid over blinding (measured nett-allow for laps)            | 236 | SM   |      |      |
|          | <b><u>In-situ concrete work</u></b>                                                                                                              |     |      |      |      |
|          | <b><u>Mass concrete (1:3:6/38-38mm aggregate)</u></b>                                                                                            |     |      |      |      |
| <b>B</b> | 50mm Thick blinding under foundations                                                                                                            | 54  | SM   |      |      |
| <b>C</b> | Columns                                                                                                                                          | 36  | SM   |      |      |
|          | <b><u>Vibrated reinforced concrete (1:2.4/20-20mm aggregate) as described in:</u></b>                                                            |     |      |      |      |
| <b>D</b> | Strip foundations                                                                                                                                | 10  | CM   |      |      |
| <b>E</b> | 150mm thick floor slab                                                                                                                           | 236 | SM   |      |      |
| <b>F</b> | Column bases and Columns                                                                                                                         | 11  | CM   |      |      |
| <b>G</b> | Ground beam                                                                                                                                      | 5   | CM   |      |      |
|          | <b><u>Steel Reinforcement</u></b>                                                                                                                |     |      |      |      |
|          | <b><u>Supply and fix bars reinforcement including bending ,hooks tyingwire ,cutting spacers and supporting all in position as described.</u></b> |     |      |      |      |
|          | <b><u>High tensile square twisted bars to B.S 4461</u></b>                                                                                       |     |      |      |      |
| <b>I</b> | 12mm Diameter                                                                                                                                    | 523 | KG   |      |      |
| <b>J</b> | 10mm Diameter                                                                                                                                    | 325 | KG   |      |      |
| <b>K</b> | 8mm Diameter                                                                                                                                     | 285 | KG   |      |      |
|          | <b><u>Mesh reinforcement</u></b>                                                                                                                 |     |      |      |      |
|          | <b><u>Fabric; B.S.4483</u></b>                                                                                                                   |     |      |      |      |
| <b>L</b> | Fabric mesh reinforcement to B.S 4483 ref:A142 including laps tyingwire and spacer blocks complete(measured nett-for laps)                       | 236 | SM   |      |      |
|          | <b><u>Sawn formwork as described to:-</u></b>                                                                                                    |     |      |      |      |
| <b>M</b> | Vertical sides of columns and ground beam                                                                                                        | 78  | SM   |      |      |
| <b>N</b> | Edges of floor slab;75 to150mm high                                                                                                              | 79  | LM   |      |      |
|          | <b><i>Carried to collection.</i></b>                                                                                                             |     |      |      |      |

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| ITEM     | DESCRIPTION                                                                                                                                                                                                          | QTY | UNIT | RATE | KSHS |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|------|------|
|          | <b><u>SUBSTRUCTURES ( CONT'D)</u></b>                                                                                                                                                                                |     |      |      |      |
|          | <b><u>Foundation Walling</u></b>                                                                                                                                                                                     |     |      |      |      |
| <b>A</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 20swgx25mm wide hoopiron in every alternate course | 71  | SM   |      |      |
|          | <b><u>Plint area finishes</u></b>                                                                                                                                                                                    |     |      |      |      |
| <b>B</b> | 12mm thick cement and sand (1;3)wood float render to plinth area.                                                                                                                                                    | 22  | SM   |      |      |
| <b>C</b> | Prepare and apply three coats black bituminous paint to rendered area                                                                                                                                                | 22  | SM   |      |      |
|          | <b><u>Paving slab</u></b>                                                                                                                                                                                            |     |      |      |      |
| <b>D</b> | Supply and lay precast concrete slabs size 600 x600 mm laid on and including 50mm thick consolidated sand and 100mm thick murrum sub- base to fall and all necessary excavation                                      | 38  | SM   |      |      |
|          | <b><i>Carried to collection.</i></b>                                                                                                                                                                                 |     |      |      |      |
|          | <b><u>COLLECTION</u></b>                                                                                                                                                                                             |     |      |      |      |
|          | <b>Brought forward from page No. 1</b>                                                                                                                                                                               | 1   |      |      |      |
|          | <b>Brought forward from page No. 2</b>                                                                                                                                                                               | 2   |      |      |      |
|          | <b>Brought down above</b>                                                                                                                                                                                            |     |      |      |      |
|          | <b>TOTAL FOR ELEMENT NO.1 SUBSTRUCTURES CARRIED TO SUMMARY</b>                                                                                                                                                       |     |      |      |      |

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| ITEM | DESCRIPTION                                                                                                                                      | QTY | UNIT | RATE | KSHS |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|------|------|
|      | <b>ELEMENT NO. 02</b>                                                                                                                            |     |      |      |      |
|      | <b>REINFORCED CONCRETE FRAME</b>                                                                                                                 |     |      |      |      |
|      | <b><u>Vibrated reinforced concrete (1:2:4) class 20/ 20 aggregates as described in:-</u></b>                                                     |     |      |      |      |
| A    | Beams                                                                                                                                            | 5   | C.M  |      |      |
| B    | Columns                                                                                                                                          | 6   | C.M  |      |      |
|      | <b><u>Sawn Formwork as described to:-</u></b>                                                                                                    |     |      |      |      |
| C    | Sides and soffities of ringbeam                                                                                                                  | 58  | S.M  |      |      |
| D    | Columns                                                                                                                                          | 78  | S.M  |      |      |
|      | <b><u>Steel Reinforcement</u></b>                                                                                                                |     |      |      |      |
|      | <b><u>Supply and fix bars reinforcement including bending ,hooks tyingwire ,cutting spacers and supporting all in position as described.</u></b> |     |      |      |      |
|      | <b><u>High tensile square twisted bars to B.S 4461</u></b>                                                                                       |     |      |      |      |
| E    | 12mm diameter                                                                                                                                    | 581 | KGS  |      |      |
| F    | 8mm diameter                                                                                                                                     | 351 | KGS  |      |      |
|      | <b>TOTAL FOR ELEMENT NO.2</b>                                                                                                                    |     |      |      |      |
|      | <b>R.C SUPERSTRUCTURE</b>                                                                                                                        |     |      |      |      |
|      | <b>CARRIED TO SUMMARY</b>                                                                                                                        |     |      |      | -    |

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|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|------|------|
|          | <b><u>ELEMENT NO .3</u></b>                                                                                                                                                                                                                    |     |      |      |      |
|          | <b><u>EXTERNAL WALLING</u></b>                                                                                                                                                                                                                 |     |      |      |      |
|          | Machine cut stone walling with a minimum of 7.0N/mm <sup>2</sup> average compressive strength to B.S 5390;bedded and jointed in cement and sand (1:4) mortar to Architect's approval; reinforced with 20 gauge hoop iron at alternate sections |     |      |      |      |
| <b>A</b> | 200mm Thick walling External                                                                                                                                                                                                                   | 225 | SM   |      |      |
|          | <b><u>Horizontal damp proof course : one laver of -ply bituminous felt or other equal and appraved (measured nett-allow for laps)</u></b>                                                                                                      |     |      |      |      |
| <b>B</b> | 200mm wide levelled and bedded in cement and sand(1:3) mortar under walls.                                                                                                                                                                     | 81  | LM   |      |      |
|          | <b>TOTAL FOR ELEMENT NO.3</b>                                                                                                                                                                                                                  |     |      |      |      |
|          | <b>EXTERNAL WALLING</b>                                                                                                                                                                                                                        |     |      |      |      |
|          | <b>CARRIED TO SUMMARY</b>                                                                                                                                                                                                                      |     |      |      |      |

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|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|------|------|
|      | <b>ELEMENT NO.4</b>                                                                                                                                                                                                                                                                                                                                                                                                               |     |      |      |      |
|      | <b>ROOFING AND AND COVERING</b>                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |      |
|      | <u>The following in structural timber; sawn (second grade) celcured cypress pressure impregnated; primed before fixing; in 9 No. trusses (T1) spanning 1500mm, raised to a height of 4500mm above ground level; prefabricated from timber of GS grade to KS 02-771-1991 seasoned to an equilibrium moisture content of 10-15% treated</u>                                                                                         |     |      |      |      |
| A    | 150x50mm rafters @ 1500mm c/c                                                                                                                                                                                                                                                                                                                                                                                                     | 96  | LM   |      |      |
| B    | 150x50mm tie beam/joist                                                                                                                                                                                                                                                                                                                                                                                                           | 27  | LM   |      |      |
| C    | 150x50mm King post, struts & ties                                                                                                                                                                                                                                                                                                                                                                                                 | 365 | LM   |      |      |
|      | <u>The following in celcured sawn cypress treated timber</u>                                                                                                                                                                                                                                                                                                                                                                      |     |      |      |      |
| D    | 150x50mm wall plate bolted to concrete block/brick walls with 12mm diameter steel rug or rawl bolts (m.s.) at 1000 mm c/c c/w forming mortice in block/brick work and grouting in cement and sand (1:2) mortar                                                                                                                                                                                                                    | 74  | LM   |      |      |
| E    | 75 x 50mm purling (nailed to rafters)                                                                                                                                                                                                                                                                                                                                                                                             | 780 | LM   |      |      |
| F    | <b>Roof Covering</b><br>Supply and fix as per manufacturer's printed instructions corrugated sheets gauge 30 prepainted GI and Aluzinc roofing sheets (Effective 762mm wide cover) as MRM Ltd. Or other approved laid or and nailed to timber purlins with roofing nails and including rubber leak seal caps and with 150 -200 mm long end laps and 2 No. corrugations or troughs side laps (measured net; no allowance for laps) | 296 | SM   |      |      |
| G    | 320mm x gauge 30 matching ridge caps (prepainted GI/Aluzinc) with and including 300mm long and laps.<br><u>Wrot cypress, prime grade</u>                                                                                                                                                                                                                                                                                          | 46  | LM   |      |      |
| H    | 200x25mm thick fascia board to ends of rafters(m.s)<br><b>Painting and Decorating</b><br><u>Knot prime stop and prepare and apply one under coat and two finishing coats of gross oil paint to:</u>                                                                                                                                                                                                                               | 51  | LM   |      |      |
| I    | General surfaces of wood 200-300mm girth                                                                                                                                                                                                                                                                                                                                                                                          | 51  | LM   |      |      |
|      | <b>ELEMENT NO.5</b>                                                                                                                                                                                                                                                                                                                                                                                                               |     |      |      |      |
|      | <b>ROOF CONSTRUCTION AND COVERING</b>                                                                                                                                                                                                                                                                                                                                                                                             |     |      |      |      |
|      | <b>CARRIED TO SUMMARY</b>                                                                                                                                                                                                                                                                                                                                                                                                         |     |      |      |      |

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| ITEM | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | QTY | UNIT | RATE | KSHS |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|------|------|
|      | <b>ELEMENT NO.5</b><br><b>WINDOWS</b><br><br><u>Supply and fix the following exshop standard welded mild steel casement windows comprising standard z-section framing; complete with aluminium fastners, stays glazing and all other necessary ironmongery; including 75x3mm perforated mild steel permanent vent and hood at the top infilled with mosquito wire guaze and all primed in one coat red oxide primer before delivery to site and all welds ground smooth including fixing lugs to masonry and/or beams bedded in cement and sand (1:3)mortar and pointing all around with mastic</u><br><br><b>NOTE:-</b><br><b>All references to ideal casement catalogue but the tenderer may supply any other equal and approved to the satisfaction of the Project Manager</b> |     |      |      |      |
| A    | Window overall size 1500x1500mm high                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 16  | NO   |      |      |
|      | <b><u>4mm thick one way sheet glass and glazing to metal putty</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |      |      |      |
| B    | In panes not exceeding 0.10 square metres                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 36  | S.M  |      |      |
|      | <b><u>Sills</u></b><br>125x20mm Thick quarry tile sill with one curved edge including bedding and pointing in cement and sand (1:3) mortar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 29  | LM   |      |      |
|      | <b>prepare and apply two undercoats and one finishing coat gloss paint on metal work</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |      |      |      |
| D    | General surfaces of mild steel windows ( both sides)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 72  | SM   |      |      |
|      | <b>ELEMENT NO.5</b><br><b>WINDOWS</b><br><b>CARRIED TO SUMMARY</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |      |      |      |

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|----------|-----------------------------------------------------------------------------------------------------|-----|------|------|------|
|          | <b>ELEMENT NO.6</b><br><b>DOORS</b><br><b>Steel door</b>                                            |     |      |      |      |
| <b>A</b> | Door size 1800 x2400mm high mild steel double door complete with lock and all other accessories     | 2   | NO   |      |      |
| <b>B</b> | Glasses with approved metal putty: casement doors                                                   | 3   | S.M  |      |      |
| <b>C</b> | General surfaces of casement doors                                                                  | 17  | S.M  |      |      |
| <b>D</b> | 50mm thick pannel door of overall size 900 2400mm complete with frame and all necessary ironmongery | 1   | NO   |      |      |
|          | <b>ELEMENT NO.6</b><br><b>DOORS</b><br><b>CARRIED TO SUMMARY</b>                                    |     |      |      |      |

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|          | <b><u>ELEMENT NO.7</u></b>                                                                                                                            |     |      |      |      |
|          | <b><u>EXTERNAL WALL FINISHES</u></b>                                                                                                                  |     |      |      |      |
|          | <b><u>External wall finishes</u></b><br><b><u>12mm thick cement, sand render, with wood</u></b><br><b><u>float finish, as described to:-</u></b>      |     |      |      |      |
| <b>A</b> | Concrete surfaces of Walls ,columns and beams                                                                                                         | 318 | SM   |      |      |
|          | <b><u>Painting and decorations</u></b>                                                                                                                |     |      |      |      |
|          | <b><u>Prepares and apply one undercoat and two</u></b><br><b><u>finishing first grade weather resistant gloss oil</u></b><br><b><u>paint on:-</u></b> |     |      |      |      |
| <b>B</b> | Fair faced surfaces of walls, beams and columns                                                                                                       | 318 | SM   |      |      |
|          | <b>TOTAL FOR ELEMENT NO .7</b>                                                                                                                        |     |      |      |      |
|          | <b>EXTERNAL WALL FINISHES</b>                                                                                                                         |     |      |      |      |
|          | <b>CARRIED TO SUMMARY</b>                                                                                                                             |     |      |      |      |

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|----------|---------------------------------------------------------------------------------------------------------------------------------------|-----|------|------|------|
|          | <b><u>ELEMENT NO.8</u></b>                                                                                                            |     |      |      |      |
|          | <b><u>INTERNAL WALL FINISHES</u></b>                                                                                                  |     |      |      |      |
| <b>A</b> | Hack out joints and apply 12mm thick gauged lime plaster(1:2:9) in two coats finished with steel trowel on walling ,beams and columns | 356 | SM   |      |      |
|          | <b><u>Painting and decorations</u></b>                                                                                                |     |      |      |      |
|          | <b><u>Prepare and apply three coats of first quality plastic emulsion paint to:-</u></b>                                              |     |      |      |      |
| <b>B</b> | Plastered walls , beams and columns                                                                                                   | 356 | SM   |      |      |
|          | <b>TOTAL FOR ELEMENT NO. 8</b>                                                                                                        |     |      |      |      |
|          | <b>INTERNAL WALL FINISHES</b>                                                                                                         |     |      |      |      |
|          | <b>CARRIED TO SUMMARY</b>                                                                                                             |     |      |      |      |

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[illegible]

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[illegible]

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| ITEM | DESCRIPTION                                         | PAGE  | OFFICIAL USE | TENDERER'S USE |
|------|-----------------------------------------------------|-------|--------------|----------------|
|      |                                                     |       | Kshs         | Kshs           |
| 1    | BUILDING WORKS                                      | PG 14 |              |                |
| 2    | PROVISIONAL SUMS                                    | PG 15 |              |                |
| 3    | TOTAL                                               |       |              |                |
| 4    | ADD 16% V.A.T                                       |       |              |                |
|      | ADD 5% P.MC                                         |       |              |                |
|      | ADD PPRA LEVY @ 0.03%                               |       |              |                |
|      | TOTAL AMOUNT FOR CONSTRUCTION OF<br>DORMITORY BLOCK |       |              |                |

NAME OF TENDERER .....

ADDRESS.....

SIGNATURE.....STATUS.....

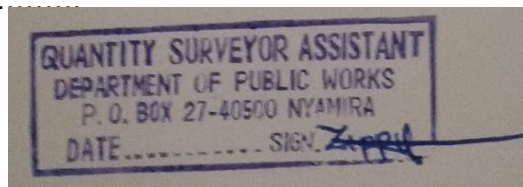
DATE.....

NAME OF WITNESS.....

ADDRESS.....

SIGNATURE.....

GS/1 DATE.....



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