

REPUBLIC OF KENYA



**NATIONAL GOVERNMENT CONSTITUENCY DEVELOPMENT FUND
CHANGAMWE CONSTITUENCY**

**BILL OF QUANTITIES
FOR**

**PROPOSED CONSTRUCTION OF DORMITORY AT PORTREITZ INTEGRATED
SECONDARY SCHOOL**

MOMBASA

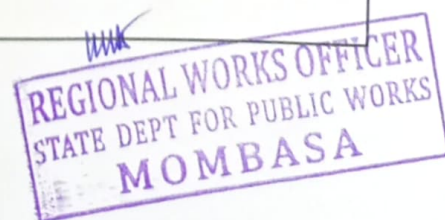
FINANCIER:

NG- CDF CHANGAMWE CONSTITUENCY

PREPARED BY:

**STATE DEPARTMENT FOR PUBLIC WORKS
P. O. BOX 90350-80100
MOMBASA.**

NOVEMBER, 2024

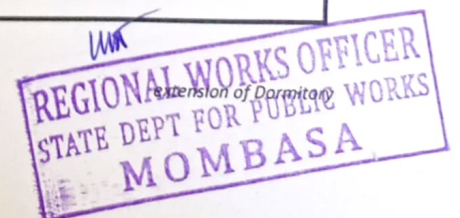


PROPOSED CONSTRUCTION OF DORMITORY, TWO NUMBER STAIRS AND WASHROOMS AT PORTREITZ
INTEGRATED SECONDARY SCHOOL, OCTOBER 2024

PROPOSED CONSTRUCTION DORMITORY AT PORTREITZ INTEGRATED SECONDARY
SCHOOL

GROUND FLOOR.

BW/1



**PROPOSED CONSTRUCTION OF DORMITORY, TWO NUMBER STAIRS AND WASHROOMS AT PORTREITZ
INTEGRATED SECONDARY SCHOOL, OCTOBER 2024**

| Item | Description | Qty | Unit | Rate | Amount |
|------|--|-----|------|-------|--------------|
| | GROUND FLOOR | | | | |
| | SUBSTRUCTURES(All Provisional) | | | | |
| | SITE PREPARATION | | | | |
| | Site clearance | | | | |
| A | Cut down small trees, shrubs including grubbing up roots and dispose at dumping site | 680 | SM | 200 | 136,000.00 |
| | Excavations | | | | |
| B | Excavate oversite to remove vegetable soil and make up levels 200mm average depth, load, wheel and deposit where directed away from site | 340 | SM | 300 | 102,000.00 |
| | <i>(Medium size excavator is recommended)</i> | | | | |
| C | Bulk excavations average depth 500mm from reduced levels, load and cart away to approved county dumping site | 340 | CM | 2000 | 680,000.00 |
| D | Excavate for foundation trenches not exceeding 1.50m deep from stripped level. | 55 | CM | 600 | 33,000.00 |
| D | Excavate for column pit not exceeding 1.50m from stripped level | 75 | CM | 600 | 45,000.00 |
| E | Extra over excavation for excavating in rock. | 88 | CM | 2000 | 176,000.00 |
| F | keep all excavations free from all water | 1 | ITEM | 20000 | 20,000.00 |
| G | Allow for strutting and plunking | 1 | ITEM | 20000 | 20,000.00 |
| | Disposal | | | | |
| H | Return, fill and ram extra excavation materials around foundation | 220 | CM | 250 | 55,000.00 |
| J | Cart away surplus excavated materials | 10 | CM | 600 | 6,000.00 |
| | Total carried to collection | | | | 1,273,000.00 |

**PROPOSED CONSTRUCTION OF DORMITORY, TWO NUMBER STAIRS AND WASHROOMS AT PORTREITZ
INTEGRATED SECONDARY SCHOOL, OCTOBER 2024**

| Item | Description | Qty | Unit | Rate | Amount |
|------|---|------|------|-------|---------------------|
| | <u>Filling(imported murram)</u> | | | | |
| A | Murram filling well watered and compacted in layers of 150mm to make up levels | 108 | CM | 500 | 54,000.00 |
| B | Average 300mm thick harcdcore bed well watered leveled and compacted | 108 | CM | 1500 | 162,000.00 |
| C | 50m thick murram blinding on hardcore surface | 320 | SM | 250 | 80,000.00 |
| | <u>Insecticide treatment</u> | | | | |
| D | Treat surface of hardcore filing with gladiator TC or other equal approved insecticide according to the manufacture instructions. | 360 | SM | 180 | 64,800.00 |
| | <u>Concrete Works</u> | | | | |
| | <u>Plain concrete class P (1:4:8) in:-</u> | | | | |
| E | 50mm thick blinding under foundations and bases | 154 | SM | 500 | 77,000.00 |
| | <u>Reinforced concrete class 25/20 in:-</u> | | | | |
| F | Foundation strip | 21 | CM | 14500 | 304,500.00 |
| G | Columns and bases | 35 | CM | 14500 | 507,500.00 |
| H | Ground beam | 15 | CM | 14500 | 217,500.00 |
| I | 150mm thick floor slab | 360 | SM | 2175 | 783,000.00 |
| | <u>Reinforcement</u> | | | | |
| | <u>Mild steel bar reinforcement to B.S.4449 as described</u> | | | | |
| J | 8mm diameter bars | 620 | KG | 240 | 148,800.00 |
| | <u>High tensile square twisted bar reinforcement to B.S.4461 including cutting, beinding and tying wire</u> | | | | |
| K | 8mm diameter bars | 385 | KG | 240 | 92,400.00 |
| L | 10mm ditto | 450 | KG | 240 | 108,000.00 |
| M | 12mm diameter bars | 250 | KG | 240 | 60,000.00 |
| N | 16mm diameter bars | 1350 | KG | 240 | 324,000.00 |
| O | 20mm diameter bars | 1305 | KG | 240 | 313,200.00 |
| | Total carried to collection | | | | 3,296,700.00 |

**PROPOSED CONSTRUCTION OF DORMITORY, TWO NUMBER STAIRS AND WASHROOMS AT PORTEITZ
INTEGRATED SECONDARY SCHOOL, OCTOBER 2024**

| Item | Description | Qty | Unit | Rate | Amount |
|------|---|----------------|------|------|--|
| A | <u>B.R.C. Mesh</u> B.R.C. Mesh reinforcement No. A142 | 360 | SM | 600 | 216,000.00 |
| B | <u>Sawn formwork(marine boards recommended)</u> Vertical foundation sides | 33 | SM | 600 | 19,800.00 |
| C | Ditto to Column sides and bases etc | 108 | SM | 600 | 64,800.00 |
| D | Edges of beds exceeding 75mm but not exceeding 150mm high | 89 | LM | 200 | 17,800.00 |
| E | Ground beam | 84 | SM | 600 | 50,400.00 |
| F | <u>Walling</u> <u>Solid machine cut coral block walling bedded and jointed in cement and sand mortar 1:4 in:-</u> 200mm thick walling | 217 | SM | 2000 | 434,000.00 |
| G | <u>Damp proofing</u> 200mm wide approved bituminous base felt damp proof course bedded in cement sand mortar 1:4 | 219 | LM | 200 | 43,800.00 |
| H | 500 gauge polythene sheet underlay | 360 | SM | 120 | 43,200.00 |
| J | 15mm thick cement and sand plaster on plinth | 30 | SM | 300 | 9,000.00 |
| K | Prepare and apply 3 coats bituminous oil paint to plinty | 30 | SM | 300 | 9,000.00 |
| | Total carried to collection | | | | 907,800.00 |
| | <u>Collection</u> Brought forward from page Brough forward from page Brought forward from above | BW/12 BW/13 | | | 1,273,000.00 3,296,700.00 907,800.00 |
| | TOTAL FOR SUBSTRUCTURE CARRIED TO SUMMARY | | | | 5,477,500.00 |

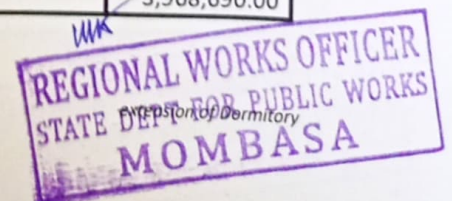
BW/4

REGIONAL WORKS OFFICER
STATE DEPT FOR PUBLIC WORKS
MOMBASA

**PROPOSED CONSTRUCTION OF DORMITORY, TWO NUMBER STAIRS AND WASHROOMS AT PORTREITZ
INTEGRATED SECONDARY SCHOOL, OCTOBER 2024**

| Item | Description | Qty | Unit | Rate | Amount |
|------|---|------|------|-------|--------------|
| | <u>REINFORCED CONCRETE SUPERSTRUCTURE</u> | | | | |
| | <u>Vibrated reinforced concrete clas 25/20 in:-</u> | | | | |
| A | Beams | 24 | CM | 14500 | 348,000.00 |
| B | Columns | 11 | CM | 14500 | 159,500.00 |
| C | Steps and staircase | 6 | CM | 14500 | 87,000.00 |
| | <u>Ditto in:-</u> | | | | |
| D | 150mm thick suspended slab | 354 | SM | 2175 | 769,950.00 |
| E | 150mm thick landing slab | 4 | SM | 2175 | 8,700.00 |
| F | 100mm thick window canopy | 30 | SM | 1350 | 40,500.00 |
| | <u>High Tensile twisted reinforcement bars B.S 4461 as described</u> | | | | |
| H | 8mm diameter bars | 2400 | KG | 240 | 576,000.00 |
| I | 10mm diameter bars | 2690 | KG | 240 | 645,600.00 |
| J | 12mm diameter bars | 385 | KG | 240 | 92,400.00 |
| K | 16mm diameter bars | 365 | KG | 240 | 87,600.00 |
| L | 20mm Ditto | 4806 | KG | 240 | 1,153,440.00 |
| | Total carried to collection | | | | 3,968,690.00 |

BW/5



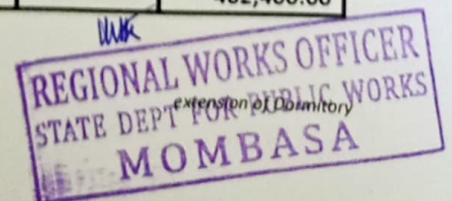
**PROPOSED CONSTRUCTION OF DORMITORY, TWO NUMBER STAIRS AND WASHROOMS AT PORTREITZ
INTEGRATED SECONDARY SCHOOL, OCTOBER 2024**

| Item | Description | Qty | Unit | Rate | Amount |
|------|---|-----|------|------|----------------------------------|
| | <u>Sawn formwork to:-</u> (marine boards to be used or custom made steel plates) | | | | |
| A | Soffits of floors and landing but not exceeding 3.00m high | 340 | SM | 600 | 204,000.00 |
| B | Vertical columns sides | 125 | SM | 600 | 75,000.00 |
| C | Sides and soffits of horizontal beams | 254 | SM | 600 | 152,400.00 |
| D | Sloping soffits of staircases | 8 | SM | 600 | 4,800.00 |
| E | Soffits of window canopies | 30 | SM | 600 | 18,000.00 |
| F | Ditto to edges of suspended floor and landing exceeding 75mm but not exceeding 150mm high | 110 | LM | 200 | 22,000.00 |
| G | Ditto to edges of staircase steps and waist | 32 | LM | 200 | 6,400.00 |
| G | Ditto to edges of window canopies | 59 | LM | 200 | 11,800.00 |
| | <u>WALLING</u> <u>Solid coral block walling bedded and jointed in cement and sand mortar 1:4</u> | | | | |
| H | 200mm thick walling | 374 | SM | 2000 | 748,000.00 |
| I | 150mm thick walling | 26 | SM | 1350 | 35,100.00 |
| | Total carried to collection | | | | 1,277,500.00 |
| | <u>Collection</u> Brough forward from page BW/5 Brought forward from above | | | | 3,968,690.00 1,277,500.00 |
| | Total for Reinforced concrete superstructure carried to summary | | | | 5,246,190.00 |

**PROPOSED CONSTRUCTION OF DORMITORY, TWO NUMBER STAIRS AND WASHROOMS AT PORTREITZ
INTEGRATED SECONDARY SCHOOL, OCTOBER 2024**

| Item | Description | Qty | Unit | Rate | Amount |
|------|---|-----|------|-------|-------------------|
| | <u>DOORS</u> | | | | |
| | <u>Steel doors</u> | | | | |
| A | Steel door comprising 40x50x2mm thick RHS main framing, 25x20x2mm main vertical and horizontal divisions, 20x20x2mm SHS, 1.5mm thick panels, 4mm clear glass panels, custom made locking hasps, heavy duty hinges, tower bolts all as per architects detail Size 1500x2400mm high | 3 | NO. | 40000 | 120,000.00 |
| B | Ditto but double leaf door size 1200x2400mm high ditto | 1 | NO | 30000 | 30,000.00 |
| C | 45mm thick framed, braced matchboard cypress door | 8 | NO. | 15000 | 120,000.00 |
| | <u>Frames</u> | | | | |
| | <u>Wrot Mahogany or equal</u> | | | | |
| D | 150 x 50mm frame | 56 | LM | 1500 | 84,000.00 |
| E | Ditto for transome | 10 | LM | 1500 | 15,000.00 |
| F | 40 x 15 moulded architrave | 56 | LM | 400 | 22,400.00 |
| G | 15 x 15mm quardrant beading | 56 | LM | 400 | 22,400.00 |
| | <u>Iron Mongery</u> | | | | |
| H | 150mm steel door barrel bolts approved | 8 | NO | 1,200 | 9,600.00 |
| I | 100mm brass butt hinges | 12 | PRS. | 400 | 4,800.00 |
| J | Rubber door stop fixed to floor with rawl bolt | 12 | NO. | 400 | 4,800.00 |
| | <u>Prepare and apply one undercoat primer and two finishing first quality emulsion paint to:</u> | | | | |
| K | Surface of woodwork generally | 35 | SM | 400 | 14,000.00 |
| L | Ditto not exceeding 150mm girth | 28 | LM | 150 | 4,200.00 |
| | <u>One undercoat Two coats first grade marine paint to steel surfaces</u> | | | | |
| M | General surface of steel works | 28 | SM | 400 | 11,200.00 |
| | TOTAL for Doors carried to summary | | | | 462,400.00 |

BW/7



PROPOSED CONSTRUCTION OF DORMITORY, TWO NUMBER STAIRS AND WASHROOMS AT PORTREITZ
INTEGRATED SECONDARY SCHOOL, OCTOBER 2024

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PROPOSED CONSTRUCTION OF DORMITORY, TWO NUMBER STAIRS AND WASHROOMS AT PORTEITZ
INTEGRATED SECONDARY SCHOOL, OCTOBER 2024

| Item | Description | Qty | Unit | Rate | Amount |
|--|--|-----|------|------|------------|
| | BALUSTRADE | | | | |
| | <u>Mild steel with welding ground smooth to blockwork and concrete surface</u> | | | | |
| A | 30 x 30x 2mm thick square Hollow section balusters and drilled in concrete treads (MS) | 67 | LM | 1500 | 100,500.00 |
| B | 40 x 6mm bar welded to balusters counter sunk and screwed to hardwood hand rail | 18 | LM | 1200 | 21,600.00 |
| | <u>Joinery</u> | | | | |
| | <u>Wrot Mvule</u> | | | | |
| C | 100mm wide handrail moulded,grooved and rounded to receive 40 x 6mm bar (M.S) | 9 | LM | 1500 | 13,500.00 |
| D | Prepare and apply one coat of approved lead primer, one undercoat and one goss finishing coat on metal work genral surfaces. | 15 | SM | 350 | 5,250.00 |
| E | Knot, prime stop and apply three coats clear varnish to surfaces of wood work not exceediing 150mm girth | 9 | LM | 200 | 1,800.00 |
| TOTAL FOR BALUSTRADE CARRIED TO SUMMARY | | | | | 142,650.00 |

142,650.00

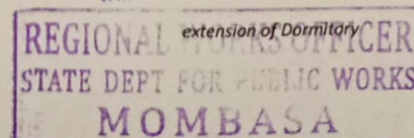
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REGIONAL WORKS OFFICER
STATE DEPT FOR PUBLIC WORKS
extension of dormitory
MOMBASA

**PROPOSED CONSTRUCTION OF DORMITORY, TWO NUMBER STAIRS AND WASHROOMS AT PORTREITZ
INTEGRATED SECONDARY SCHOOL, OCTOBER 2024**

| Item | Description | Qty | Unit | Rate | Amount |
|------|--|-----|------|-------|--------------|
| | <u>FINISHES</u> | | | | |
| | <u>Floors</u> | | | | |
| A | 40mm thick terrazzo(25mm cement screed,15mm thick terrazzo) ground smooth and polished. | 360 | SM | 2,000 | 720,000.00 |
| B | Ditto 100mm high skirting | 247 | LM | 250 | 61,750.00 |
| | <u>Wall Finish</u> | | | | |
| C | 12mm cement,sand (1:3) render to external wall with wood float finish | 263 | SM | 400 | 105,200.00 |
| D | Prepare and apply one undercoat and two finishing coats long lasting,weather proof paint to rendered surfaces externally | 263 | SM | 450 | 118,350.00 |
| E | 12mm cement,sand (1:3) plaster to internal walls, sides and soffites of concrete surfaces(column and beams) | 560 | SM | 400 | 224,000.00 |
| F | Prepare and apply one undercoat and two finishing coats plastic emulsion paint to plastered surfaces | 560 | SM | 400 | 224,000.00 |
| G | 32 mm thick cement and sand screed prepared to receive ceramic wall tiles | 52 | SM | 350 | 18,200.00 |
| J | 200x 300 x 6mm thick glazed ceramic tiles to walls | 52 | SM | 1,800 | 93,600.00 |
| | <u>Ceiling</u> | | | | |
| H | 12mm thick cement lime sand 1:2:9 plaster horizontal suspended concrete soffites, beams,window canopies | 470 | SM | 400 | 188,000.00 |
| | <u>Prepare and apply one undercoat and two finishing coats plastic emulsion paint to:-</u> | | | | |
| I | Plastered surfaces | 470 | SM | 400 | 188,000.00 |
| | <u>Waterproofing roof top slab</u> | | | | |
| J | 30mm thick cement,sand (1:3) waterproof screed to roof surface, laid to fall and cross falls,trowelled hard and smooth. | 390 | SM | 450 | 175,500.00 |
| | TOTAL FOR FINISHES CARRIED TO SUMMARY | | | | 2,116,600.00 |

BW/10



PROPOSED CONSTRUCTION OF DORMITORY, TWO NUMBER STAIRS AND WASHROOMS AT PORTEITZ
INTEGRATED SECONDARY SCHOOL, OCTOBER 2024

| Item | Description | Qty | Unit | Rate | Amount |
|------|--|-----|------|------|---------------|
| | SUMMARY | | | | |
| | SUBSTRUCTURES | | | | 5,477,500.00 |
| | REINFORCED CONCRETE SUPERSTRUCTURES | | | | 5,246,190.00 |
| | DOORS | | | | 462,400.00 |
| | WINDOWS | | | | 800,600.00 |
| | BALUSTRADE | | | | 142,650.00 |
| | FINISHES | | | | 2,116,600.00 |
| | TOTAL FOR BUILDERS WORKS DORMITORY CARRIED TO MAIN SUMMARY | | | | 14,245,940.00 |

REGIONAL WORKS OFFICER
STATE DEPT FOR PUBLIC WORKS
MOMBASA

**PROPOSED CONSTRUCTION OF DORMITORY, TWO NUMBER STAIRS AND WASHROOMS AT PORTREITZ
INTEGRATED SECONDARY SCHOOL, OCTOBER 2024**

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|------|---|-----|------|-------|-------------------|
| | MECHANICAL WORKS <u>PLUMBING, DRAINAGE AND FIRE FIGHTING FOR PROPOSED DORMITORY</u> | | | | |
| | SANITARY FITTINGS Supply, deliver, install and fix the following sanitary fittings including all materials and jointing to supply wastes/soil and overflow pipes. Twyfords Ltd products are specified only as an indication of quality. Equal and approved appliances may be supplied .Where trade names are mentioned the Ref.No.is intended only as a guide to the type and quality of fittings | | | | |
| | <u>Water Closet (WC) Suite</u> | | | | |
| A | Water closet suite (S or P trap) in approved colour complete with horizontal outlet to BS 3402 with 7.5 litres valveless close coupled ceramic cistern and fittings including siphone,15 mm diameter side inlet ball valve,20mm diameter side overflow, plastic flush bend, inlet connections, chrome plated lever and heavy plastic set and cover with metal top fixed (CP) hinges. All to be as TWYFORDS Classic water closet or equal approved | 2 | NO. | 25000 | 50,000.00 |
| B | Ditto but for the physically challenged persons complete with grab rails and all accessories | 3 | NO. | 85000 | 255,000.00 |
| | <u>Dhobi Sink</u> | | | | |
| C | 450mmx550 dhobi sinks complete with 20mm diameter bib tap and connected to wastes and services | 6 | NO. | 7000 | 42,000.00 |
| | TOTAL CARRIED TO COLLECTION | | | | 347,000.00 |

**PROPOSED CONSTRUCTION OF DORMITORY, TWO NUMBER STAIRS AND WASHROOMS AT PORTREITZ
INTEGRATED SECONDARY SCHOOL, OCTOBER 2024**

| ITEM NO. | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|------------------------------------|--|-----|------|-------|------------------|
| | mechanical cont.... | | | | |
| | <u>Toilet Roll Holder</u> | | | | |
| A | Toilet roll holder in vitreous china or BS3402 in white colour of size 165x165mm and recessed into wall. all as TWYFORDS or equal and approved | 5 | NO | 3000 | 15,000.00 |
| | <u>Robe Hook</u> | | | | |
| B | Robe hook in Satin Aluminium to be mounted by concealed screws to wall wedges. To be as TWYFORDS SPECTRUM 2000 accessories or equal approved | 5 | NO | 500 | 2,500.00 |
| | <u>Mirrors</u> | | | | |
| C | 6mm thick polished plate glass, silver backed mirror with beveled edges, size 600x500mm plugged and screwed to wall with 4 No. chrome plated dome capped screws and 5mm foam back nest | 5 | NO | 1000 | 5,000.00 |
| | <u>Towel Rail</u> | | | | |
| D | Chrome plated towel rail 650mm long with the rail and brackets as one piece , all as TWYFORDS or equal and approved | 5 | NO | 2000 | 10,000.00 |
| | <u>Shower Fitting</u> | | | | |
| E | Concealed shower fitting consisting of 15mm chrome plated riser pipe to connect the concealed shower mixer for hot and cold water to the swivel/adjustable shower rose and chrome plated handles and stop corks. All to be as Bricon/Aztec or equal approved | 5 | NO | 15000 | 75,000.00 |
| | <u>Instantaneous Shower Heater</u> | | | | |
| TOTAL CARRIED TO COLLECTION | | | | | 22,500.00 |

**PROPOSED CONSTRUCTION OF DORMITORY, TWO NUMBER STAIRS AND WASHROOMS AT PORTREITZ
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| ITEM NO. | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|----------|--|-----|------|-------|------------------|
| | mechanical cont... | | | | |
| | INTERNAL PLUMBING | | | | |
| | Supply, deliver and install polypropylene random (PPR) PN-25 Oxy stable pipe work to DIN 8077. Pipe jointing shall be by polyfusion or use of electric coupling. Tenderer must allow for jointing, clippings, couplings, metal/plastic threaded adaptor where required for the connection of sanitary fixtures, valves, sockets, sliding and fixed joints, support raceways, isolating sheaths, elastic materials, expansion arms and bends, cross overs etc. where pipe work is not chased proper anchoring using approved fixtures shall be done. No pipe work shall be left exposed to the sun. | | | | |
| | PPR PIPE | | | | |
| A | 15mm diameter PPR pipe | 15 | LM | 120 | 1,800.00 |
| B | 20mm diameter PPR pipe | 25 | LM | 140 | 3,500.00 |
| C | 25 mm Ditto | 4 | LM | 180 | 720.00 |
| | Extra over PPR pipework | | | | |
| | Bend | | | | |
| D | 20mm dia PPR | 4 | NO | 50 | 200.00 |
| E | 25mm dia. Ditto | 2 | NO | 100 | 200.00 |
| | Unequal Tees | | | | |
| F | 20x15mm | 16 | NO | 100 | 1,600.00 |
| G | 25x20mm | 2 | NO | 150 | 300.00 |
| | Adaptors | | | | |
| H | 20mm Dia male | 4 | NO | 120 | 480.00 |
| | Gate valves | | | | |
| | Approved medium pressure screw down full way non-rising stem wedge gate valve to BS 1952 with wheel and head joints to tubing. To be as PEGLAR or equal approved | | | | |
| I | 25mm dia. | 2 | NO | 2500 | 5,000.00 |
| J | 20mm dia | 4 | NO | 2000 | 8,000.00 |
| K | 15mm dia.x300mm long flexible tubing | 5 | NO | 500 | 2,500.00 |
| L | Allow for flushing and sterilization of the system | 1 | ITEM | 10000 | 10,000.00 |
| | TOTAL CARRIED TO COLLECTION | | | | 34,300.00 |

**PROPOSED CONSTRUCTION OF DORMITORY, TWO NUMBER STAIRS AND WASHROOMS AT PORTEITZ
INTEGRATED SECONDARY SCHOOL, OCTOBER 2024**

| ITEM NO. | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|----------|--|-----|------|-------|-------------------|
| | mechanical cont... | | | | |
| | INTERNAL DRAINAGE | | | | |
| | Supply and fix uPVC soil system to BS4660 and BS4515 and muPVC waste systems to BS5255 with screwed and socketed joints to BS21. Solvent welded joints shall be as per the systems manufacturers written instructions. Tenderers must allow in their pipe work prices for all the couplings, connectors, joints etc as required in the running lengths of the pipe work and where necessary for fixing clips, holder bats plugged and screwed . all drainage pipes to be as Key Terrain or equal approved. uPVC and muPVC pipework | | | | |
| A | 100mm heavy duty golden brown pipe class D | 50 | LM | 600 | 30,000.00 |
| B | 100mm heavy duty grey pipe class D | 20 | LM | 600 | 12,000.00 |
| C | 40mm heavy duty grey pipe class D | 24 | LM | 300 | 7,200.00 |
| | Extra over Upvc and muPVC pipework | | | | |
| | Bends | | | | |
| D | 100mm dia. Long radius bend | 5 | NO | 600 | 3,000.00 |
| E | 100mm dia inspection twin branch | 5 | NO | 700 | 3,500.00 |
| F | 40mm dia. | 5 | NO | 150 | 750.00 |
| | Tees | | | | |
| G | 40mm dia. Sweep Tee | 11 | NO | 150 | 1,650.00 |
| | Access cap | | | | |
| H | 100mm dia. | 5 | NO | 200 | 1,000.00 |
| I | 40mm dia | 5 | NO | 100 | 500.00 |
| | Boss connectors | | | | |
| J | 100mm x 50mm | 5 | NO | 500 | 2,500.00 |
| J | 100mm WC connector | 5 | NO | 500 | 2,500.00 |
| | Man holes | | | | |
| K | 1000x750x1500mm deep manhole complete with cast iron medium duty covers | 10 | NO | 10000 | 100,000.00 |
| | Floor Traps | | | | |
| L | 100x50mm floor trap and grating | 5 | NO | 2500 | 12,500.00 |
| M | 300x300mm masonry gully trap c/w m.s cover | 5 | NO | 3000 | 15,000.00 |
| | TOTAL CARRIED TO COLLECTION | | | | 192,100.00 |

PROPOSED CONSTRUCTION OF DORMITORY, TWO NUMBER STAIRS AND WASHROOMS AT PORTREITZ
INTEGRATED SECONDARY SCHOOL, OCTOBER 2024

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMT |
|------|---|-----|------|------|------------|
| | <u>Collection for Mechanical Works</u> | | | | |
| | Brought forward from page MW/12 | | | | 347,000.00 |
| | Brought forward from page MW/13 | | | | 22,500.00 |
| | Brought forward from page MW/14 | | | | 34,300.00 |
| | Brought forward from page MW/15 | | | | 192,100.00 |
| | TOTAL CARRIED TO SUMMARY MECHANICAL WORKS | | | | 595,900.00 |

PROPOSED CONSTRUCTION OF DORMITORY, TWO NUMBER STAIRS AND WASHROOMS AT PORTEITZ
INTEGRATED SECONDARY SCHOOL, OCTOBER 2024

| ITEM NO. | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|----------|---|-----|------|-------|------------|
| | <u>Portable fire protection equipment.</u> | | | | |
| | Supply delivery and installation of portable fire protection equipment: | | | | |
| | Carbon dioxide gas fire extinguisher | | | | |
| A | 4.5kg carbon dioxide gas portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets | 2 | NO | 20000 | 40,000.00 |
| | Dry comical powder | | | | |
| B | 4.5kg dry chemical powder portable extinguisher complete with initial charge and mounting brackets | 2 | NO | 20000 | 40,000.00 |
| | Water/carbon dioxide gas fire extinguisher | | | | |
| C | 9 litres water/carbon dioxide gas portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets | 4 | NO | 14000 | 56,000.00 |
| | <u>Alarm bell</u> | | | | |
| D | 225mm diameter gong manual alarm bell | 2 | NO | 3000 | 6,000.00 |
| E | 1200x1200mm Fire blanket | 2 | NO | 3000 | 6,000.00 |
| | TOTAL CARRIED TO SUMMARY | | | | 148,000.00 |

**PROPOSED CONSTRUCTION OF DORMITORY, TWO NUMBER STAIRS AND WASHROOMS AT PORTREITZ
INTEGRATED SECONDARY SCHOOL, OCTOBER 2024**

| ITEM NO. | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|----------|--|-----|------|------|-------------------|
| | Water Reticulation | | | | |
| | Supply and fix PVC high pressure pipes and tubing class E with screwed and socketed joints to BS143 and 1250 of approved manufacturer. All pipe work lengths are provisional and shall be subject to final re-measurements. Tenderers must allow in their pipe work prices for all flanges, couplings, unions, connector joints, reducers etc as required in the running lengths of pipe, all fixing clips and holder bats plugged and screwed. The pipes will be laid on a compacted ground free from any sharp objects and to Engineers approval. the trenches will then be filled back using fine sifted soil and compacted to Engineers approval | | | | |
| | Excavation | | | | |
| A | Excavate trench in soil/murram for pipes not exceeding 1000mm deep and average 750mm wide. part return in, fill and surplus cart away | 100 | LM | 200 | 20,000.00 |
| B | Allow for keeping the excavated trenches free of water either by bailing or pumping | 1 | ITEM | 5000 | 5,000.00 |
| | High Pressure Pipework. | | | | |
| C | 50mm dia. | 100 | LM | 700 | 70,000.00 |
| D | 25mm ditto | 7 | LM | 300 | 2,100.00 |
| | Extra over PVC pressure pipework | | | | |
| | Tees | | | | |
| E | 50mm | 4 | NO | 300 | 1,200.00 |
| | Bends | | | | |
| F | 50mm dia. | 4 | NO | 300 | 1,200.00 |
| G | 25mm ditto | 4 | NO | 150 | 600.00 |
| | Reducers | | | | |
| H | 50x25mm | 4 | NO | 300 | 1,200.00 |
| | TOTAL CARRIED TO COLLECTION | | | | 101,300.00 |

**PROPOSED CONSTRUCTION OF DORMITORY, TWO NUMBER STAIRS AND WASHROOMS AT PORTREITZ
INTEGRATED SECONDARY SCHOOL, OCTOBER 2024**

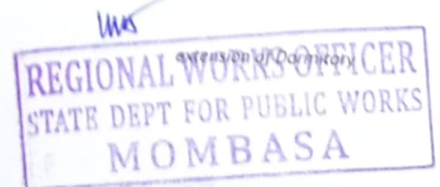
| ITEM NO. | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|----------|--|-----|------|-------|-------------------|
| | Valves | | | | |
| A | 50mm dia gate valve | 1 | NO | 4000 | 4,000.00 |
| B | 25mm ditto | 1 | NO | 2500 | 2,500.00 |
| | Valve chamber | | | | |
| C | Valve chamber size 750x750x600mm deep with 100mm (1:3:6) base, 100mm block sides rendered all round in cement and sand (1:4) and with approved hinged and flanged cast iron cover and frame including all necessary excavation, disposal and form work | 2 | NO | 10000 | 20,000.00 |
| | Indicator plates | | | | |
| D | Standard precast concrete sluice valve maker post marked SV, set in concrete (1:3:6) base, including form work, excavations, backfilling and disposal. the plate to be painted with blue gloss paint | 2 | NO | 1000 | 2,000.00 |
| | Water line markers | | | | |
| E | Standard precast concrete water line markers, post marked WL set in concrete (1:3:6) base, including formwork, excavations, backfilling and disposal. the plate to be painted with blue gloss oil paint. The post shall also indicate the pipe size. | 2 | NO | 200 | 400.00 |
| | | | | | 28,900.00 |
| | <u>Collection</u> | | | | |
| | Brought forward from page BW/18 | | | | 101,300.00 |
| | Brought forward from above | | | | 28,900.00 |
| | TOTAL CARRIED TO SUMMARY | | | | 130,200.00 |

PROPOSED CONSTRUCTION OF DORMITORY, TWO NUMBER STAIRS AND WASHROOMS AT PORTEITZ
INTEGRATED SECONDARY SCHOOL, OCTOBER 2024

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PROPOSED CONSTRUCTION OF DORMITORY, TWO NUMBER STAIRS AND WASHROOMS AT PORTEITZ
INTEGRATED SECONDARY SCHOOL, OCTOBER 2024

| ITEM NO. | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|----------|---|-----|------|------|------------|
| | SUMMARY MECHANICAL WORKS | | | | |
| A | Total brought from page BW/16 | | | | 595,900.00 |
| B | Total Fire extinguishers brought from pageBW/17 | | | | 148,000.00 |
| C | Total Water reticulation from page BW/19 | | | | 130,200.00 |
| D | Roof total from page BW/20 | | | | 88,000.00 |
| | TOTAL FOR MECHANICAL WORKS CARRIED TO GRAND SUMMARY | | | | 962,100.00 |



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WWT
REGIONAL WORKS OFFICER
STATE DEPT FOR PUBLIC WORKS
MOMBASA
extension of Dormitory

**PROPOSED CONSTRUCTION OF DORMITORY, TWO NUMBER STAIRS AND WASHROOMS AT PORTEITZ
INTEGRATED SECONDARY SCHOOL, OCTOBER 2024**

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|--------------------------------------|--|-----|------|------|------------------|
| | <u>Power Circuit</u> | | | | |
| A | 13Amp socket outlet power points drawn in concealed 20mm diameter PVC heavy gauge conduit comprising of 3x2.5mm ² PVC/SC Cu cables | 4 | No. | 3500 | 14,000.00 |
| B | Ceiling fan power points drawn in concealed 20mm diameter PVC heavy gauge conduit comprising of 3x1.5mm ² PVC/SC Cu cables | 6 | No. | 2000 | 12,000.00 |
| C | Fire alarm power points drawn in concealed 20mm diameter PVC heavy gauge conduit comprising of 3x4.0mm ² PVC/SC Cu cables | 2 | No. | 5000 | 10,000.00 |
| | <u>Power Circuit Fittings</u> | | | | |
| D | White moulded ivory flush mounting twin switched 13 Amp DP socket outlet as MK/ CRABTEE/ HAVELLS/ MEM or equal and approved equivalent. | 4 | No. | 1500 | 6,000.00 |
| E | 1400mm 3 blade ceiling fan as ORIENT/CROMPTON complete with regulators or equal and approved equivalent. | 6 | No. | 6500 | 39,000.00 |
| F | 5Amp white moulded ivory 3 plate ceiling rose complete with 3-core 0.75mm ² flex cable and biscuit ring as MK/CRABTREE/ MEM/ HAVELLS to approval. | 6 | No. | 700 | 4,200.00 |
| Carried Forward To Collection | | | | | 85,200.00 |

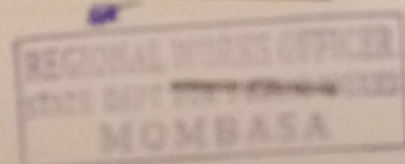
PROPOSED CONSTRUCTION OF DORMITORY, TWO NUMBER STAIRS AND WASHROOMS AT PORTREITZ
INTEGRATED SECONDARY SCHOOL, OCTOBER 2024

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PROPOSED CONSTRUCTION OF DORMITORY, TWO NUMBER STAIRS AND WASHROOMS AT PORTEITZ
INTEGRATED SECONDARY SCHOOL, OCTOBER 2024

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|------|--|-----|------|-------|-------------------|
| | Earthing | | | | |
| | To IEE/KPLC requirements | | | | |
| A | 10.0mm2 pvc/sc Cu cables insulated green (ecc) earth wire as East African cables or equal and approved equivalent drawn in concealed 25mm diameter PVC heavy gauge conduit (Approx. Mtrs | 70 | Lm. | 250 | 17,500.00 |
| B | Final connection of earth continuity conductor to distribution board main earthing terminal and associated earthing terminals to approval. | 1 | Item | 15000 | 15,000.00 |
| | Testing and Commissioning | | | | |
| C | Testing and Commissioning as required (respective installation tests) on completion before connection to supply. | 1 | Item | 5000 | 5,000.00 |
| | | | | | 37,500.00 |
| | <u>Collection</u> | | | | |
| | Brought forward from page BW/22 | | | | 105,100.00 |
| | Brought forward from page BW/23 | | | | 85,200.00 |
| | Brought forward from page BW/24 | | | | 87,500.00 |
| | Brought forward from above | | | | 37,500.00 |
| | TOTAL FOR ELECTRICAL WORKS CARRIED TO GRAND SUMMARY | | | | 315,300.00 |

PROPOSED CONSTRUCTION OF DOMESTIC FARM NUMBER STAKE AND MINORWORKS AT PORTFOLIO INTEGRATED SECONDARY SCHOOL, OCTOBER 2026

[illegible]

**PROPOSED CONSTRUCTION OF DORMITORY, TWO NUMBER STAIRS AND WASHROOMS AT PORTEITZ
INTEGRATED SECONDARY SCHOOL, OCTOBER 2024**

| | Description | | Contractors use | official use |
|--|--|--|-----------------|----------------------|
| | <u>GRAND SUMMARY</u> | | | |
| A | TOTAL FOR GENERAL PRELIMINARIES | | | 300,000.00 |
| B | TOTAL FOR PARTICULAR PRELIMINARIES | | | 200,000.00 |
| C | TOTAL FOR BUILDERS WORK FROM PAGE BW/22 | | | 14,245,940.00 |
| D | TOTAL FOR MECHANICAL WORKS FROM PAGE MS/20 | | | 962,100.00 |
| E | TOTAL FOR ELECTRICAL WORKS FROM PAGE E/6 | | | 315,300.00 |
| F | TOTAL FOR PC AND PROVISIONAL SUMS | | | 550,000.00 |
| TOTAL FOR OFFICE BLOCK CARRIED TO FORM OF TENDER | | | | 16,573,340.00 |
| <p>Amount in words.....</p> <p>NAME OF CONTRACTOR:.....</p> <p>ADDRESS:.....</p> <p>SIGNATURE:.....</p> <p>DATE:.....</p> <p>WITNESS NAME.....</p> <p>ADDRESS:.....</p> <p>SIGNATURE:.....</p> <p>DATE:.....</p> | | | | |
| GS/1 | | | | |

BW/27

