

Bill of Quantity for Two Classrooms and one office construction

| Description | | | | | |
|---|---|----------------|------------|------------------|-------------------|
| 1 | EXCAVATIONS AND EARTH WORK | Unit | Qty | Unit Cost | Total Cost |
| 1.1 | Excavate for Strip foundation 60x80cm including dressing the sides & levelling the bed of the foundation to the required width & required depth , (the depth should be measured from the lowest point of the construction site), for classrooms as per drawings & specifications, dug soil and debris to be discharged and removed away from the site to the area determined by the local authorities. | ML | 65 | | |
| 1.2 | Provide and lay granular fill of approved type for compaction purposes free from debris and organic materials, to be applied in layers not exceeding 20cm thick each and flattered, Total thickness 20cm , well watered and compacted mechanically as specified for as per drawings & specifications. | M ³ | 6.24 | | |
| Summary of excavation & earth movement | | | | | |
| 2 | CONCRETE WORK | Unit | Qty | Unit Cost | Total Cost |
| 2.1 | Provide, cast & lay plain concrete mix (1:3:6) cement: sand: gravel C15 , 10 cm layer thickness for floors as per specifications & drawings, water curing to be applied for 7days (seven) minimum, | M ³ | 11.25 | | |
| 2.2 | Provide and cast reinforcement concrete grade beams (1 : 2 : 4) C/S/G C25 mix in 35 cm width x30 cm height , reinforced with 6 steel bars ø16 mm (3 @ top & 3 @ bottom) 15cm c/c using steel stirrups of steel bars ø8 20cm c/c , steel bars bending at ends should be done with 15 cm leg , steel cover should be 2 - 2.5 cm , mechanical mixing and vibrator to be strictly applied for casting , curing for minimum 7 consequent days using straw sacks covering and watering three times per day, no construction work over the grade beam is allowed before the curing duration is completed perfectly. The price should include all materials tools workmanship , shuttering ,etc to complete the job as per specifications and drawings and engineer acceptance | ML | 65 | | |
| 2.3 | Provide and cast reinforcement concrete Tie beams (1 : 2 : 4) C/S/G C25 mix in 35 cm width x22 cm height , reinforced with 6 steel bars ø12 mm (3 @ top & 3 @ bottom) 15cm c/c using steel stirrups ø8 20cm c/c , steel bars bending at ends should be done with 15 cm leg , steel cover should be 2 - 2.5 cm , mechanical mixing vibrator to be strictly applied for casting , curing for minimum 7 consequent days using straw sacks covering and watering three times per day, no construction work over the beam is allowed before the curing duration is completed perfectly. The price should include all materials tools workmanship , shuttering ,etc to complete the job as per specifications and drawings and engineer acceptance | ML | 65 | | |
| Summary of concrete work | | | | | |

| 3 | BRICK WORK | Unit | Qty | Unit Cost | Total Cost |
|----------------------------------|---|----------------|-------|-----------|------------|
| 3.1 | Provide and build stone walls with spec.60cm width , 80cm minimum of granite stone wall in 1:6 c/s cement sand mortar, stone material should be from well degraded aggregates with different sizes, underground up to ground level as per specifications & drawings. | ML | 65 | | |
| 3.2 | Provide and build brick wall of two bricks width grade wall in 1:6 c/s cement /sand mortar (gassa)under grade beam level, 20cm height, .The top of the wall should be truly levelled with cement /sand with rendering as per specifications & drawings | M ² | 13 | | |
| 3.3 | Provide and build wall of 1½ (one and half) of brick wall in cement sand mortar(1:8) for walls, the walls should be totally vertical using for that level ruler and Plumb bob, as per specifications & drawings. | M ² | 260 | | |
| 3.4 | Provide and build one brick wall in 1:6 c/s cement sand mortar for parapet, the walls should be totally vertical using for that level ruler and Plumb bob, as per specifications & drawings. | M ² | 13.00 | | |
| Summary of Brick work | | | | | |
| 4 | ROOF WORK | Unit | Qty | Unit Cost | Total Cost |
| 4.1 | Manufacture, supply and install trusses 6m length. The steel truss frame consist of steel pipes 4cmx8cm x 1.4mm . truss spacing 2.25m c/c. fixed to the walls with concrete blocks and positioned on concrete pillows, coated with two layers of antirust and painted with two layers of oil paint, for the roof of classrooms and office as per drawings & specifications. | No | 13 | | |
| 4.2 | Provide & fix steel purlin from rectangular steel pipe 3x6cm x 1.4 mm each 70cm c/c minimum, coated with two layers of antirust and painted with two layers of oil paint, for roofs, as per specifications and drawing | ML | 225 | | |
| 4.3 | Supply and install Galvanized iron corrugated sheets 20 feet length of thickness 0.35 mm 100 cm breadth. to be fixed to the roof purlins using self drilled screw bolt with bonded rubber washer, overlapping of sheets should not be less than two corrugated pitched. | M ² | 135 | | |
| Summary of Roof work | | | | | |
| 5 | FINISHING WORK | Unit | Qty | Unit Cost | Total Cost |
| 5.1 | Provide and apply plaster external and internal of cement /sand mortar with clean and fine sand 1:6 (3 coats: render, setting & floating coat to give a total thickness of 2cm) for walls as per specifications & drawings | M ² | 550 | | |
| 5.2 | Supply & apply external and internal painting, 3 coats of emulsion paint of approved brand and manufacturer, including priming coat to give an even shade, thoroughly brushing the surface free from mortar. Colour should be determined by the site engineer | M ² | 520 | | |
| Summary of finishing work | | | | | |

| 6 | Electrical Work and equipment | Unit | Qty | Unit Cost | Total Cost |
|---|--|------|-----|-----------|------------|
| 6.1 | Provision and fixing of ceiling fan size 56" (from best quality) including the wiring, electrical conduits, fixing elements, etc. | No | 7 | | |
| 6.2 | Provision and fixing of wall mounted 4 inch LED lamps with conduits, wiring, fixing elements, etc, including one gang switch | No | 4 | | |
| 6.3 | Provision and fixing of wall mounted 4 inch LED lamps with conduits, wiring, fixing elements, etc, including one gang switch | No | 25 | | |
| 6.4 | Provision and fixing of main switch including piping imbedded in the walls , wiring 4mm , electrical conduits, PVC box, etc. To control the electrical supply for the whole building and latrines . Complete job. | No | 1 | | |
| 6.5 | Provision and fixing of four gang circuit breaker including the PVC box, imbedded pipes in the walls, electrical wiring with 2.5 mm brass wires, conduits, fixing elements, etc. Complete job | No | 1 | | |
| 6.6 | provision and fixing of two gang switch with socket, including ,imbedded pipes in the walls, electrical wiring with 2.5 mm brass wires, conduits, fixing elements, etc. Complete job | No | 5 | | |
| 6.7 | Extending electrical conduits to the latrine block from the main distribution board(main switch) including laying of electrical wires underground into buried polyethene pipes , fixing of the electrical conduits into the walls, wiring, etc. complete job | No | 1 | | |
| Summary of Electrical Work and equipment | | | | | |
| 7 | DOORS AND WINDOWS | Unit | Qty | Unit Cost | Total Cost |
| | Provide, manufacture, assemble & fix metal steel doors & windows as per drawings & below specifications; <ul style="list-style-type: none"> • Main frame from rec. steel pipe (4x8) • Leaf from rec. steel pipe (4x8) filled with (2x4) steel pipe complete with paint covered by steel sheets from inside., • 6 mm plain glass for fanlight. • Brass hinges. • Horizontal mortise lock (Turkey) with int. & ext. handles for doors. • Sample of steel must be approved by ZOA Engineer. | | | | |
| 7.1 | Provide and fix two leaves (100+20)steel door 120 x 220 cm for classrooms and office | No | 3 | | |
| 7.2 | Provide and fix two leaves steel window 100 x 120 cm for classrooms and office | No | 13 | | |
| Summary of Doors & Windows | | | | | |

Summary of constructing Two Classrooms and one office

| No | Item Description | |
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| 1 | Summary of excavation & earth movement | |
| 2 | Summary of concrete work | |
| 3 | Summary of Brick work | |
| 4 | Summary of Roof work | |
| 5 | Summary of finishing work | |
| 6 | Summary of Electrical Work and equipment | |
| 7 | Summary of Doors & Windows | |
| | Sub Total | |
| | VAT 17% | |
| | Total Amount | |

| | |
|----------------------|--|
| Delivery Time | |
|----------------------|--|