**Construction of the Youth Connect Hub in Daru**
**Kailahun District**

**Bill of Quantities**

| Item No | Description | Units | Quantity | Unit Rate (Le) | Amount (Le) |
|---|---|---|---|---|---|
| 1.00 | **PRELIMINARIES** | | | | |
| 1.01 | **MOBILIZATION**<br>The contractor will mobilise and deliver to the site all relevant equipment, personel and materials necessary for the execution of the works | item | 1 | | |
| 1.02 | **SITE OFFICE/STORE**<br>Allow for providing suitable secure store for materials used for the project and also a Temporary secure office on site for the site Foreman-in -charge and other craftsmen, | item | 1 | | |
| 1.03 | **INSURANCE/LiCENSES**<br>Provide Insurance against injury to personnel Also make all arrangements for the issue of licenses, permit etc required by law for the executiuon of the contract | item | 1 | | |
| 1.04 | **PROGRESS PHOTOGRAPHS**<br>Progress photographs should be provided in intervals. Number and sizes of the photographs will be directed by the Supervising Engineer or his representative | item | 1 | | |
| 105 | **DEMOBILIZATION**<br>Allow for the demobilization of all plants equipment and personnel and left over materials on work completion. The surrounding within the building must be thoroughly cleared and cleaned befoe the final inspection and handling over the facilities to the Client. | item | 1 | | |
| | **Preliminaries carried to summary** | | | | |

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**Bill of Quantities**

| Item No | Description | Units | Quantity | Unit Rate (Le) | Amount (Le) |
|---|---|---|---|---|---|
| 2.00 | **SUBSTRUCTURE** | | | | |
| 2.10 | **SITE CLEARANCE** | | | | |
| 2.11 | Clear site of all vegetation (grass and trees) for the building site and its surrounding area 10 m from the proposed building | lump Sum | 1 | | |
| 2.20 | **EXCAVATION** | | | | |
| 2.21 | Excavate surface to remove top soil, starting at ground level and maximum depth not exceeding 450mm and deposite in spoil on site | $m^2$ | 1,600 | | |
| 2.22 | Excavate trenches to receive strip foundation not exceeding 1.0 m in depth and deposite on site for re-use | $m^3$ | 114 | | |
| 2.23 | Excavation for column and column bases with dimensions 600mm x 600mm and maximum depth not exceeding 1000mm | $m^3$ | 12 | | |
| 2.30 | **FILLING** | | | | |
| 2.31 | Filling to on the side of foundation blockwork of selected excavated material deposited and compacted in layers | $m^3$ | 76 | | |
| 2.32 | Ditto to make up levels below ground floor slab of selected excavated material | $m^3$ | 58 | | |
| 2.33 | Ditto; imported excavated material off site | $m^3$ | 38 | | |
| 2.34 | Ditto imported hardcore materials of laterite ballstones , 200mm thick | $m^3$ | 77 | | |
| 2.35 | Sand blinding average 50mm thick on hardcore filling | $m^3$ | 19 | | |
| | SUBSTRUCTURE summary on Page 1 B/D | | | | |

**Construction of the Youth Connect Hub in Daru**
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**Bill of Quantities**

| Item No | Description | Units | Quantity | Unit Rate (Le) | Amount (Le) |
|---|---|---|---|---|---|
| | SUBSTRUCTURE summary on page 1 B/F | | | | - |
| | **SUBSTRUCTURE Works continues** | | | | |
| 2.40 | **CONCRETE WORK IN FOUNDATION** | | | | |
| 2.41 | Plain in-situ concrete mix (1:4:8-19mm aggregate) as blinding to column bases | $m^3$ | 1 | | |
| 2.42 | Plain in-situ concrete mix (1:3:6 -19mm aggregate) in foundations poured against faces of excavation with thickness of 225 mm (strip foundation) | $m^3$ | 39 | | |
| 2.43 | Ditto: in 150mm thick ground floor slab and steps | $m^3$ | 53 | | |
| 2.44 | Reinforced in-situ in column bases and columns in foundations including reinforcement and formwork (1:2:4;mix ) | $m^3$ | 11 | | |
| 2.50 | **FORMWORK** | | | | |
| 2.51 | To edges of concrete floor slab, 150mm high. | $m^2$ | 15 | | |
| 2.60 | **DAMP PROOF MEMBRANE** | | | | |
| 2.61 | "Waterproof black plastic horizontal damp-proof membrane laid over sand blind hardcore with 600mm laps at all joint | $m^2$ | 383 | | |
| **2.70** | **BLOCKWORK IN FOUNDATION** | | | | |
| 2.71 | 150mm thick solid sandcrete block bedded and jointed in cement motar (1:6) in foundation | $m^2$ | 210 | | |
| 2.72 | 12mm thick cement and sand (1:6) rendering in foundation | $m^2$ | 210 | | |
| | **SUBSTRUCTURE CARRIED TO SUMMARY** | | | | |

**Construction of the Youth Connect Hub in Daru**
**Kailahun District**

**Bill of Quantities**

| Item No | Description | Units | Quantity | Unit Rate (Le) | Amount (Le) |
|---|---|---|---|---|---|
| 3.00 | **CONCRETE WORKS** | | | | |
| 3.10 | Reinforced in-situ concrete mix (1:2:4-19mm aggre) in rectangular columns including reinforcement and formwork | $m^3$ | 18 | | |
| 3.11 | Ditto in beams and lintels | $m^3$ | 30 | | |
| | **CONCRETE WORKS CARRIED TO SUMMARY** | | | | |
| 4.00 | **BLOCKWORK** | | | | |
| 4.10 | Precast sandcrete (1:6) solid blocks bedded and jointed in cement mortar (1:6) in 150mm thick walls | $m^2$ | 385 | | |
| | **BLOCKWORK CARRIED TO SUMMARY** | | | | |
| 5.00 | **REINFORCED CONCRETE BALLUSTER RAILING** | | | | |
| 5.10 | Provide and fix high-quality reinforced concrete ballusters with reinforced pre-routed top and bottom rails in the verandahs as shown on the architectural drawings provided by the Engineer. | m | 49 | | |
| | **BALLUSTER RAILING INSTALLATION CARRIED TO SUMMARY** | | | | |

**Bill of Quantities**

| Item No | Description | Units | Quantity | Unit Rate (Le) | Amount (Le) |
|---|---|---|---|---|---|
| 6.00 | **ROOF STRUCTURE** | | | | |
| | **Fabricated Steel Work** | | | | |
| | Steel roof trusses constructed with 50 x 50mm RHS as top chord steel lattice truss rafters and 25 x 25mm RHS verticals in lattice truss together with 40 x 40mm RHS as diagonal fabricated by wedding, housing, and fixing in position to concrete 3m above ground floor. The whole pre-painted with red anti-corrosive oxide | | | | |
| 6.11 | Duo-pitch roof trusses spanning between walls and concrete columns with 600mm overhang on both sides | | | | - |
| | 11.5m span x 2.8 m pitch | No | 10 | | |
| | **Purlins** | | | | |
| 6.12 | 75X50mm treated timber purline at 1.2m centres centres | m | 450 | | |
| | **Cross Bracings** | | | | |
| 6.13 | 50 x 50mm cross bracing to steel trusses | m | 250 | | |
| 6.14 | **Steel Gusset plates** on roof trusses as shown in the drawing | No | 130 | | |
| 6.15 | **Purline angle iron cleats** welded on steel rafters | No | 350 | | |
| 6.16 | Metal Facial Board as shown on the diagram | m | 98 | | |
| | **COVERING** | | | | |
| 6.17 | Corrugated coloured aluzinc sheets, 28 gauge x 2400mm long complete with all fixing accessories | $m^2$ | 420 | | |
| 6.18 | 600mm girth ridge/hip covering nailed to timber purlins to match roof covering | m | 187 | | |
| 6.19 | Cutting to ridges, hips, or vertical angle | m | 30 | | |
| | **ROOF STRUCTURE AND COVERING CARRIED TO SUMMARY** | | | | |

**Construction of the Youth Connect Hub in Daru**
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**Bill of Quantities**

| Item No | Description | Units | Quantity | Unit Rate (Le) | Amount (Le) |
|---|---|---|---|---|---|
| **7.00** | **WOODWORK** | | | | |
| | **DOORS** | | | | |
| 7.10 | 750mm wide x 2050mm high semi solid core plywood | | | | |
| 7.11 | faced flush door lipped all round with hardwood for all toilet doors | No | 4 | | |
| 7.12 | Timber panel door with dimensions 900mm wide x 2050mm high | No | 1 | | |
| 7.13 | Double leaves timber pannel door with dimensions 1500mm x 2050 mm high | No | 0 | | |
| | **Door frame** | | | | |
| 7.14 | 44mm thick x150mm wide wrought hardwood rebated frame fixed into wall with built -in lugs | m | 28 | | |
| | Ironmongery | | | | |
| 7.15 | 100 mm brass butt hinges screwed to timber frame and doors | pair | 10 | | |
| 7.16 | 3-lever mortice door lock:( EU quality) with accessories | No | 2 | | |
| 7.17 | Bathroom lockset of approved quality & locking accessories | No | 3 | | |
| 7.18 | 150mm brass flush bolts to back of doors | No | 3 | | |
| | **WOODWORKS CARRIED TO SUMMARY** | | | | |

**Construction of the Youth Connect Hub in Daru**
**Kailahun District**

**Bill of Quantities**

| Item No | Description | Units | Quantity | Unit Rate (Le) | Amount (Le) |
|---|---|---|---|---|---|
| 8.00 | **METAL WORK** | | | | |
| | **Door** | | | | |
| 8.1 | 1500mm wide x 2100 mm high solid heavy duty steel double-leaves flushed door complete with 4- turns lock and accessories for the main entrance | No | 2 | | |
| 8.11 | 900mm wide x 2100 mm high solid heavy duty single stell flushed door complete with 4- turns lock and accessories for the two side doors | No | 5 | | |
| | **Aluminium Windows** Aluminium sliding windows in bronzed anodised frame and tinted glazing complete with mosquito screen (glazing included) overall sizes, double tracks- double sliding leaves | | | | |
| 8.12 | 1800mm x 1200mm | No | 14 | | |
| 8.13 | 900mm x 1200mm | No | 6 | | |
| 8.14 | 600mm x 600mm | No | 3 | | |
| | **Guard Bars** Steel Guard bars constructed with 50mm x 25mm RHS as Horizontal & vertical members fabricated to Supervising Engineering's Design | | | | |
| 8.15 | 1800mm x 1200mm | No | 14 | | |
| 8.16 | 900mm x 1200mm | No | 6 | | |
| 8.17 | 600mm x 600mm | No | 3 | | |
| | **METAL WORKS CARRIED TO SUMMARY** | | | | |

**Construction of the Youth Connect Hub in Daru**
**Kailahun District**

**Bill of Quantities**

| Item No | Description | Units | Quantity | Unit Rate (Le) | Amount (Le) |
|---|---|---|---|---|---|
| 9.00 | **PLUMBING INSTALLATION** | | | | |
| | Plumbing and cold water installations in UPVC pipes and fittings including joints and support in the running length to the following | | | | |
| 9.10 | W C | No | 3 | | |
| 9.11 | Wash hand basin | No | 3 | | |
| 9.12 | Cold water storage tank | No | 3 | | |
| | **Applience by Approved manufacturer** | | | | |
| 9.13 | Vitreous China W.C suit complete with 9litre flushing cistern with float ball valve flexible connector ring seat and cover | No | 3 | | |
| 9.14 | 425m x 535m vitreous china wash hand basin complete with fixing brackets, 1Nr 12m pillar, tap plug, chain and stay with waste outlet | No | 3 | | |
| 9.15 | 150 x 150mm chromium plated soap holder plugged and screwed to blockwall | No | 3 | | |
| 9.14 | Toilet roll holder plugged and screwed to wall | No | 3 | | |
| 9.15 | Towel rail; chromium plated, 600mm end brackets, , plugged and screwed to blockwork | No | 3 | | |
| 9.16 | Stainless Floor drain, Toilet | No | 3 | | |
| | PLUMBING INSTALLATION CARRIED TO SUMMARY | | | | |

**Construction of the Youth Connect Hub in Daru**
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**Bill of Quantities**

| Item No | Description | Units | Quantity | Unit Rate (Le) | Amount (Le) |
|---|---|---|---|---|---|
| 10.00 | **ELECTRICAL INSTALLATION**<br><br>All electrical cables , wiring and fittings should be British or EU standard and should be approved by Supervising Engineer before installation<br><br>Motice walls to install completely electrical wiring conduits, metal boxes, inspection boxes and cables. All lighting conduits must use 1.5 mm2 twin PVC sheathed (insulated) cables in concealed 20mm diameter PVC conduits in circuit wiring complete from distribution Board to switch points then to outlet points | | | | |
| 10.10 | LIGHT AND SWITCH POINTS | | | | |
| 10.11 | Wall light point | No | 0 | | |
| 10.12 | 10 Amp light switch points | No | 12 | | |
| 10.13 | 13 amp double switched socket outlet points | No | 38 | | |
| 10.14 | ceiling light points | No | 12 | | |
| 10.15 | ceiling Fan Regurator point | No | 10 | | |
| 10.16 | 20 amp AC switch point | No | 2 | | |
| | FITTINGS AND ACCESSORIES | | | | |
| 10.17 | Ceiling Single florescent light and fittings: 1x36 watts (1200mm long and corrosion resistant) in court sitting hall | No | 27 | | |
| 10.18 | Ceiling: Double florescent light and fittings: 2x36watts (1200mm long and corrosion resistant in the office of Judge and the other offices in the main buildings | No | 0 | | |
| | ELECTRICAL INSTALLATION B/D | | | | |

**Bill of Quantities**

| Item No | Description | Units | Quantity | Unit Rate (Le) | Amount (Le) |
|---|---|---|---|---|---|
| | ELECTRICAL INSTALLATION B/F | | | | - |
| 10.19 | Ceiling light in toilets: 18Watt LED surface light | No | 3 | | |
| 10.20 | Wall Sockets: 10amp 1gang 2way switch | No | 9 | | |
| 10.21 | Wall Sockets: 10amp 1 gang 1 way switch | No | 2 | | |
| 10.22 | Wall Sockets: 10amp 2gang 2way switch | No | 1 | | |
| 10.23 | Wall Sockets: 20 amp AC switch | No | 2 | | |
| 10.24 | Wall Sockets: 13 amp switch 2 gang | No | 38 | | |
| 10.25 | Wall Ceiling fan Regulator | No | 10 | | |
| 10.26 | Provide and install 12 BTU tropicalized Air conditional, Model Samsung , Sharp or JSK | No | 2 | | |
| 10.27 | Provide and install 56 inhes ceiling fans | No | 10 | | |
| 10.27<br>10.27 | Supply and install the following board with approved light fittings mains switch gear fuse etc and including 25mm2 diamete rconcealed PVC conduits and wiring Proteus TYPE B or similar approved 415/240 C 50 HZ, | | | | |
| 10.28 | Amp 12-way TP & N distribution board | No | 1 | | |
| 10.29 | 63 Amp change over switch | No | 1 | | |
| 10.30 | EARTHING, LIGHTING AND PROTECTION SYSTEM<br>Allow a sum for installing all earthing, lighting and protection system complete with all earth pits, copper conductor cables including all excavations and earth works | item | 1 | | |
| | **ELECTRICAL INSTALLATION CARRIED TO SUMMARY** | | | | |
| | | | | | |

**Bill of Quantities**

| Item No | Description | Units | Quantity | Unit Rate (Le) | Amount (Le) |
|---|---|---|---|---|---|
| 11.00 | **FLOOR, WALL AND CEILING FINISHINGS** | | | | |
| 11.10 | 12mm thick cement and sand (1:4) rendering on walls (internally and Externally) | $m^2$ | 770 | | |
| 11.11 | Ditto revealing | $m^2$ | 69 | | |
| 11.12 | Floor bed | | | | |
| 11.13 | 31mm thick cement and sand (1:3) screeded bed laid level on concrete floor to receive ceramic floor tiles | $m^2$ | 383 | | |
| 11.14 | Tile Finishings<br>Non slip Porcelain floor tiles butt jointed straight on the the sides 450mm x 450 x 10mm thick laid level on cemrent and sand bedding | $m^2$ | 383 | | |
| 11.15 | 6mm thick glazed wall tiles fixed vertically on rendered backing to walls in toilets | $m^2$ | 27 | | |
| 11.16 | 100mm wide ceramic skirting fixed vertically to walls | m | 51 | | |
| 11.17 | 3/4mm Ceiling hard board nailed to and including first grade treated timber battens with clout nails in grids of 600 x 1200mm complete with cover strips and matching covings | $m^2$ | 383 | | |
| 11.18 | 50mm x 50mm treated hardwood noggins to receive 600mm x 600mm hardboard ceilings | m | 1080 | | |
| | **FLOOR, WALLS, AND CEILING FINISHINGS CARRIED TO SUMMARY** | | | | |

**Bill of Quantities**

| Item No | Description | Units | Quantity | Unit Rate (Le) | Amount (Le) |
|---|---|---|---|---|---|
| 12.00 | **PAINTING AND DECORATING** | | | | |
| 12.1 | Prepare and apply one coat sealer and two coats emulsion paint on rendered walls (Internally and Externally) | $m^2$ | 770 | | |
| 12.11 | Ditto to soffit of hardboard ceiling | $m^2$ | 383 | | |
| 12.12 | Prepare and apply one undercoat and two coats gloss paint on wood and metal doors and windows | $m^2$ | 66 | | |
| 12.13 | Ditto on frames not exceeding 300m grith | $m^2$ | 28 | | |
| | **PAINTING AND DECORATING CARRIED TO SUMMARY** | | | | |

**Bill of Quantities**

| Item No | Description | Units | Quantity | Unit Rate (Le) | Amount (Le) |
|---|---|---|---|---|---|
| 13.00 | **WATER SUPPLY** | | | | |
| | **CONSTRUCTION OF WATER WELL AND TOWER INCLUDING PIPE NETWORK FROM WELL TO CORRECTIONAL CENTRE USING SUBMERSIBLE PUMP AND 5KVA GENERATOR** | | | | |
| 13.10 | Provide lump sum for the construction of 9000mm deep concrete culvert lined well as shown on the drawings | Lump Sum | 1 | | |
| 13.11 | Provide and Install 10,000 liters tank on the water tower build | Lump Sum | 1 | | |
| 13.12 | Provide lump sum for high pressure water pipes and fittings as required to supply water to the milla tanks provided for onwards distribution of water into the cells | Lump Sum | 1 | | |
| 13.13 | Provide a lump sum for the construction of 2400 mm x 2400 mm by 6000mm high water tower inside the Correctional center far from the internal security perimeter fence wall for 10.000 liter milla tank | Lump Sum | 1 | | |
| 13.14 | Provide and install 3 HP electric submersible pump to supply to correctional center | Lump sum | 1 | | |
| 13.15 | Provide 5 KVA diesel electrical generator to be used with the submersible pump to send water to the correctional center | Lump Sum | 1 | | |
| | **WATER SUPPLY CARRIED TO SUMMARY** | | | | |

**Bill of Quantities**

| Item No | Description | Units | Quantity | Unit Rate (Le) | Amount (Le) |
|---|---|---|---|---|---|
| 14.00 | EXTERNAL WORKS | | | | |
| | **Aprons/Surface Water Drain** | | | | |
| 14.10 | Excavate surface to remove top soil staring at ground level and maximum depth not exceeding 750mm and deposit excavated materials in spoil heaps on site | $m^3$ | 37 | | |
| 14.11 | 150mm thick laterite hardcore material laid to slight falls to receive concrete aprons | $m^3$ | 7.5 | | |
| 14.12 | 75mm thick plain in-situ concrete mix (1:3:6 -37mm aggregate) in aprons complete with formwork to edges | $m^3$ | 9 | | |
| 14.13 | Construct concrete U-shaped drain right round the building as directed by the Engineer and provide reinforced concrete cover slabs on top of the drain (1:2:4 mix) at all the entrances to the halls and offices as showm on the drawings | m | 98 | | |
| | **Soil Drainage** | | | | |
| 14.14 | Septic Tank with size as showning on the drawings with manholes and all associated pipe works | lump Sum | 1 | | |
| 14.15 | Soakaway with dimension 3m dianeter and 2 m deep filled with laterite ballstones and covered with lean concrete | lump Sum | 1 | | |
| | **EXTERNAL TOILET** | | | | |
| 14.16 | Construct a two units of toilets , one for men and the other for women. The building should be constructed of sandcrete blocks, with a linto roof structure of corrugated iron sheets. Provide one WC and wash hand basin for each toilet unit. The building must be plastered, painted with the provision of two panel doors and locks. The external toilet must be about 10m from the building | item | 1 | | |
| | **EXTERNAL WORKS CARRIED TO SUMMARY** | | | | |

**Bill of Quantities**

| Item No | Description | Units | Quantity | Unit Rate (Le) | Amount (Le) |
|---|---|---|---|---|---|
| 15.00 | **SOLAR PANELS AND SOLAR BATTERIES FOR PROVIDING THE LIGHTING SYSTEM FOR THE BUILDING** | | | | |
| 15.10 | Supply and install six (6) Solar panels of Polycrystalline OSDA 250-275 Watt Solar module | No | 6 | | |
| 15.12 | Supply and instal fully configured solar INVERTER with maximum current output that should have provision for A.C input and output and D.C input The inverter shall give adequate power with an inrush current and should be designed to run the solar pump | No | 1 | | |
| 15.13 | Supply and install solar batteries 12V-200 Amps capable to run dual power source | No | 6 | | |
| 15.14 | Supply and install control Panel (48 volts) for the inverter, solar batteries and pump | NO | 1 | | |
| 15.15 | Provide all the necessary accessories including cables wiring. bulbs and installation | item | 1 | | |
| | **SOLAR PANELS AND SOLAR BATTERIES FOR LIGHTING SYSTEM CARRIED TO SUMMARY** | | | | |

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| Item No | Description | Units | Quantity | Unit Rate (Le) | Amount (Le) |
|---|---|---|---|---|---|
| | SUMMARY | | | | |
| 1.00 | PRELIIMINARIES | | | | |
| 2.00 | SUBSTRUCTURE | | | | |
| 3.00 | CONCRETE WORKS | | | | |
| 4.00 | BLOCKWORKS | | | | |
| 5.00 | BALLUSTER RAILINGS | | | | |
| 6.00 | ROOF STRUCTURE | | | | |
| 7.00 | WOODWORKS | | | | |
| 8.00 | METAL WORKS | | | | |
| 9.00 | PLUMBING INSTALLATION | | | | |
| 10.00 | ELECTRICAL INSTALLATION | | | | |
| 11.00 | FLOOR, WALLS, AND CEILING FINISHINGS | | | | |
| 12.00 | PAINTING AND DECORATION | | | | |
| 13.00 | WATER SUPPLY | | | | |
| 14.00 | EXTERNAL WORKS | | | | |
| 15.00 | SOLAR PANELS AND SOLAR BATTERIES FOR LIGHT SYSTEM | | | | |
| A | COST OF CONSTRUCTION | | | | |
| B | CONTINGENCY 5% | | | | |
| C | TOTAL COST OF THE BUILDING | | | | |