# PROPOSED CONSTRUCTION OF CLASSROOMS AND WASH INFRASTRUCTURE AT GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY AND CATHOLIC INTEGRATED PRIMARY SCHOOL IN WAJIR COUNTY

## TENDER NO. CFK/BBF/WJR/GRS/2026

Issued By:
The Procurement Committee,
ChildFund Kenya,
P.O. Box 14038-00800,
Nairobi.

To be Returned on or before Thursday 13th of August 2026, 10:00AM

**JULY 2026**

## DEFINITIONS

The following terms and expressions used in the contract document shall have the following meanings:

| | |
|---|---|
| The Employer: | ChildFund Kenya |
| Represented by: | The Country Director,<br>ChildFund Kenya,<br>P.O. Box 114038-00800,<br>NAIROBI. |
| Project Manager: | WASH & Construction Specialist<br>ChildFund Kenya,<br>P.O. Box 114038-00800,<br>NAIROBI |
| Contractor: | The firm appointed to carry out the constructions |
| Site: | Garissa School for the Deaf – Garissa County<br>Catholic Integrated Primary & Junior School – Wajir County. |

**SECTION I**

## INVITATION FOR TENDERS

**Tender reference No. CFK/BBF/WJR/GRS/2026**

**Tender Name. PROPOSED CONSTRUCTION OF CLASSROOMS AND WASH INFRASTRUCTURE AT GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY AND CATHOLIC INTEGRATED PRIMARY SCHOOL IN WAJIR COUNTY.**

1.1 **ChildFund,**invites tenders for the PROPOSED CONSTRUCTION OF CLASSROOMS AND WASH INFRASTRUCTURE AT GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY AND CATHOLIC INTEGRATED PRIMARY SCHOOL IN WAJIR COUNTY.

1.2 Prices quoted should be **NET INCLUSIVE OF ALL TAXES**, must be in Kenya shillings and shall remain valid for hundred and twenty (120) days from the closing date of tender.

1.5 Completed tender documents are to be submitted in soft to **KenyaProcurement@ChildFund.org** on or before **Thursday 13th of August 2026, 10:00AM**

_____

For *(Accounting Officer/ Procuring Entity*)

# FORM OF TENDER

TO: _____*[Name of Employer)* _____*[Date]*

_____ *[Name of Contract]*

Dear Sir,

1. In accordance with the Conditions of Contract, Specifications, Drawings and Bills of Quantities for the execution of the above named Works, we, the undersigned offer to construct, install and complete such Works and remedy any defects therein for the sum of Kshs._____*[Amount in figures]*Kenya Shillings_____ _____*[Amount in words]*

2. We undertake, if our tender is accepted, to commence the Works as soon as is reasonably possible after the receipt of the Project Manager's notice to commence, and to complete the whole of the Works comprised in the Contract within the time stated in the Appendix to Conditions of Contract.

3. We agree to abide by this tender until _____*[Insert date],* and it shall remain binding upon us and may be accepted at any time before that date.

4. Unless and until a formal Agreement is prepared and executed this tender together with your written acceptance thereof, shall constitute a binding Contract between us.
5. We understand that you are not bound to accept the lowest or any tender you may receive.

Dated this _____ day of _____20_____

Signature _____in the capacity of_____

duly authorized to sign tenders for and on behalf of _____*[Name of Employer]* of_____[*Address of Employer]*

Witness; Name_____

Address_____

Signature_____

Date_____

## TENDER QUESTIONNAIRE

Please fill in block letters.

1. Full names of tenderer

   .....

2. Full address of tenderer to which tender correspondence is to be sent (unless an agent has been appointed below)

   .....

3. Telephone number (s) of tenderer

   .....

4. Telex address of tenderer

   .....

5. Name of tenderer's representative to be contacted on matters of the tender during the tender period

   .....

6. Details of tenderer's nominated agent (if any) to receive tender notices. This is essential if the tenderer does not have his registered address in Kenya (name, address, telephone, telex)

   .....

   .....

_____
Signature of Tenderer

Make copy and deliver to:_____(*Name of Employer*)

## CONFIDENTIAL BUSINESS QUESTIONNAIRE

You are requested to give the particulars indicated in Part 1 and either Part 2 (a), 2 (b) or 2 (c) and 2 (d) whichever applies to your type of business.

You are advised that it is a serious offence to give false information on this Form.

*Part 1 – General*

Business Name ……

Location of business premises; Country/Town……

Plot No…… Street/Road ……

Postal Address…… Tel No……

Nature of Business……

Current Trade Licence No…… Expiring date……

Maximum value of business which you can handle at any time: K. pound……

Name of your bankers……

Branch……

*Part 2 (a) – Sole Proprietor*

Your name in full…… Age……

Nationality…… Country of Origin……

*Citizenship details ……

*Part 2 (b) – Partnership*

*Give details of partners as follows:*

| | *Name in full* | *Nationality* | *Citizenship Details* | *Shares* |
|---|---|---|---|---|
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |

***Part 2(c) – Registered Company:***

Private or public……

State the nominal and issued capital of the Company-

Nominal Kshs……

Issued Kshs……

Give details of all directors as follows:

Name in full. Nationality. Citizenship Details*. Shares.

1.
……

2.
……

3.
……

4.
……

***Part 2(d) – Interest in the Firm:***

Is there any person / persons in ……. ……(*Name of Employer)* who has interest in this firm? Yes/No……(*Delete as necessary*)

I certify that the information given above is correct.

…… …… ……
*(Title)* *(Signature)* *(Date)*

- Attach proof of citizenship

**TERMS OF REFERENCE (ToR)**

**PROPOSED CONSTRUCTION OF CLASSROOMS AND WASH INFRASTRUCTURE AT GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY AND CATHOLIC INTEGRATED PRIMARY SCHOOL IN WAJIR COUNTY**

## 1. Background

ChildFund Kenya is a child-focused international non-governmental organization committed to improving the lives of children and young people through sustainable interventions in education, health, livelihoods, humanitarian response, and Water, Sanitation and Hygiene (WASH).

ChildFund Kenya is implementing the **Building Brighter Futures: Enhancing Education and WASH Infrastructure in Selected Schools in Garissa and Wajir Counties Project**. The project seeks to improve learning environments for vulnerable children through the rehabilitation and construction of education and WASH infrastructure while strengthening digital learning opportunities through the establishment of ICT Centres.

As part of project implementation, ChildFund Kenya intends to engage qualified and experienced building contractors to undertake renovation and construction works at the following schools:

- **Garissa School for the Deaf – Garissa County**
- **Catholic Integrated Primary & Junior School – Wajir County**

## 2. Objective of the Assignment

The objective of this assignment is to engage competent contractors to execute high-quality construction and renovation works in accordance with the approved architectural and engineering designs, Bills of Quantities (BoQs), technical specifications, and contract conditions within the stipulated project timeline.

## 3. Scope of Works

The contractor shall undertake all works described in the attached Bills of Quantities and technical drawings.

## 4. Deliverables

The successful contractor shall deliver:

- Completed works in accordance with approved drawings and specifications.
- Quality workmanship meeting Kenyan construction standards.
- Defects rectified during the defects liability period.
- Operation and maintenance manuals for installed equipment (where applicable).

**5. Contract Duration**
The expected contract duration is **90 calendar days** from the date of site possession.
The contractor shall submit a detailed work programme indicating the sequencing of activities and expected completion dates.

**6. Contractor Responsibilities**
The contractor shall:
- Mobilize adequate personnel, plant and equipment.
- Execute works in accordance with the contract documents.
- Maintain quality assurance throughout implementation.
- Ensure continuous site supervision by qualified technical personnel.
- Provide all labour, materials, tools and equipment unless otherwise specified.
- Protect existing school infrastructure.
- Maintain a clean and safe working environment.
- Coordinate activities with the school administration.
- Submit bi-weekly progress reports.
- Attend site meetings convened by ChildFund Kenya.

**7. Health, Safety and Environmental Requirements**
The contractor shall comply with all applicable Occupational Safety and Health (OSH) legislation and shall:
- Provide appropriate Personal Protective Equipment (PPE) to all workers.
- Maintain safe working conditions.
- Secure the construction site to protect learners and school staff.
- Implement measures to minimize dust, noise and environmental impacts.
- Properly dispose of construction waste.
- Maintain adequate first aid facilities on site.

**8. Safeguarding Requirements**
As construction activities will take place within school environments, the contractor shall comply with ChildFund Kenya's Safeguarding Policy and Code of Conduct.
Specifically, the contractor shall:
- Ensure all workers sign ChildFund's Code of Conduct before commencing work.
- Prohibit child labour.
- Prevent Sexual Exploitation, Abuse and Harassment (PSEAH).
- Ensure respectful engagement with children, teachers and community members.
- Report any safeguarding concerns immediately to ChildFund Kenya.

Failure to comply with safeguarding requirements may result in immediate termination of the contract.

**9. Quality Standards**

All works shall comply with:

- The approved drawings.
- Bills of Quantities.
- Ministry of Education infrastructure guidelines.
- National Construction Authority (NCA) standards.
- Kenya Building Code.
- Relevant Kenya Bureau of Standards (KEBS) specifications.
- Good engineering practice.

ChildFund Kenya reserves the right to reject any work or materials that do not meet the required standards.

**10. Supervision and Contract Management**

The works shall be supervised by ChildFund Kenya's Construction and WASH Team.

The contractor shall cooperate fully with:

- ChildFund Kenya technical staff.
- Project consultants.
- Clerk of Works (where appointed).
- School management.

**11. Defects Notification Period**

The contractor shall provide a **six (6) months Defects Notification Period** commencing from the date of Practical Completion.

Any defects arising during this period shall be rectified at the contractor's own cost within the period specified by ChildFund Kenya.

**12. Payment Terms**

Payments shall be made based on certified work completed, in accordance with the contract payment schedule.

No advance payment shall be made unless expressly provided for in the Contract Agreement.

Applicable statutory deductions shall be made in accordance with Kenyan law.

**13. Confidentiality**

The contractor shall treat all project information, drawings, specifications and documents received from ChildFund Kenya as confidential and shall not disclose them to third parties without prior written approval.

**14. ChildFund Kenya's Rights**

ChildFund Kenya reserves the right to:

- Amend the scope of works where necessary.
- Conduct inspections at any stage of implementation.
- Reject substandard workmanship.

- Suspend or terminate the contract in accordance with the contract conditions.
- Award contracts in whole or in part.

## INSTRUCTIONS TO TENDERERS

### EVALUATION CRITERIA

Preliminary Evaluation (Knock Out Stage-Missing out a single requirement is outright disqualification).

a) Valid Certificate of Registration /Incorporation
b) Valid NCA 4 and above Certificate in building works
c) Valid NCA practicing License
d) Valid Single Business Permit
e) Valid VAT registration Certificate
f) Valid Tax Compliance Certificate
g) Company profile

**Technical Evaluation** – Out of 80, Passmark 50/80:

a) Cv of Key Personnel relevant to the tender (Attach evidence) (20mks)
   i. Holder of degree or diploma in relevant Building/engineering field 5yrs and Above (10),0-2yrs(5)
   ii. At least 2No. Certificate holder of key personnel in relevant engineering field (5mks)

   iii. 2No. Trade Test/Artisan – 5yrs and Above- (5),0-2yrs (2)

b) Proof of Ownership of Machinery & Equipment (20mks)
   i. Transport ,Atleast 2 no.(10mks)
   ii. Construction ( Atleast 3NO.(10mks)

c) Key experience
   i. Evidence of performing similar works in the last in the last five years for at least (5) reputable clients (copies of contract agreement or works completion certificates with their values must be attached. Each Completion certificate is 6marks. (30mks)
d) Financial statements (6 mks)
   i. Audited accounts for the last three years (2020-2022) (3 marks)
   ii. Certified bank statements for the last 6 months (3 marks)
e) Contractors proposed method statement and works program (4mks)

**Financial Evaluation -** Out of 20

Financial evaluation shall be based on the following formulae:

*The maximum score under this stage of evaluation is 20 points.*

*The below criteria will be used for financial evaluation.*
***Financial Score = 20 (LQA/BQA)***
***KEY:***
*LQA= Lowest Quoted Amount*
*BQA= Bidder Quoted Amount*

***Award Criteria***

The bidder with the highest Combined score for **technical and financial evaluation** shall be awarded the tender.

# BILL OF QUANTITIES

## NOTES ON BILLS OF QUANTITIES

- The Bills of Quantities form part of the contract documents and are to be read in conjunction with the contract drawings and general specifications of materials and works.

- The prices quoted shall be deemed to include for all obligations under the contract including but not limited to supply of materials, labour, delivery to site, and storage on site, installation, testing, commissioning and all taxes (including **16% VAT**).

- All prices omitted from any item, section or part of the Bills of Quantities shall be deemed to have been included to another item, section or part.

- The brief description of the items given in the Bills of Quantities are for the purpose of establishing a standard to which the Contractor shall adhere to. Otherwise alternative brands of **equal** and **approved** quality will be accepted.

- Should the Contractor install any material not specified here-in before receiving approval from the Services Engineer, the Contractor shall remove the material in question and, at his own cost, install the proper material.
- The grand total of prices in the price summary page must be carried forward to the **Form of Tender**

# CONSTRUCTION OF 4NO. CLASSROOMS AT CATHOLIC INTERGRATED PRIMARY SCHOOL IN WAJIR COUNTY

| ITEM | DESCRIPTION | UNIT | QTY | RATE | TOTAL |
|---|---|---|---|---|---|
| | **PROPOSED 4No. CLASSROOMS** | | | | |
| | **ELEMENT NO. 1** | | | | |
| | **SUBSTRUCTURE** | | | | |
| | **PRELIMINARIES** | | | | |
| A | Excavate oversite average 150mm deep to remove top vegetable soil and spread on site as directed | sm | 364 | | |
| B | Excavate trenches for wall foundation commencing from reduced level but not exceeding 1.5m deep. | cm | 150 | | |
| C | Extra over all excavations for excavating in rock | cm | 50 | | |
| | **Planking and strutting** | | | | |
| D | Allow for all necessary earthwork support to sides of foundation trenches | Lm | 333 | | |
| | **Keeping excavations free of water** | | | | |
| E | Allow for all keeping excavations free of water and mud by pumping,bailing or other approved means. | Item | 1 | | |
| | **Fillings /Disposal** | | | | |
| F | Return,fill and ram selected imported murram material around foundation. | cm | 142 | | |
| G | Load, wheel and deposite surplus excavated material where directed by architect on site not exceeding 50m away. | cm | 8 | | |
| | **Hardcore fillings** | | | | |
| H | 300mm thick under floors compacted in 150mm layers. | cm | 110 | | |
| J | 50mm thick quarry dust blinding to surfaces of hardcore | sm | 364 | | |
| | **Anti - termite treatment** | | | | |
| K | Chemical anti- termite treatment executed complete by an approved specialist under a ten (10) year guarantee to the surfaces of blinded hardcore. | sm | 364 | | |
| | **Damp proof membrane** | | | | |
| L | 1000 gauge polythene or other equal and approved damp proof membrane laid under surface bed with 300mm side and end laps (measured net-allow for laps). | sm | 364 | | |
| | **Three ply bituminous felt damp proof courses bedded in cement sand mortar (1:3) measured seperately.** | | | | |
| M | 200mm wide horizontal layer. | Lm | 166 | | |
| | **Insitu Plain Concrete mix 1:3:6 in:** | | | | |
| N | 50mm thick concrete blinding under strip foundations | cm | 5 | | |
| | **Insitu vibrated reinforced concrete mix 1:2:4 in** | | | | |
| O | 200mm thick strip foundations | cm | 20 | | |
| P | 150mm thick floor beds | cm | 55 | | |
| | **Carried to Collection** | | | | |

| ITEM | DESCRIPTION | UNIT | QTY | RATE | TOTAL |
|---|---|---|---|---|---|
| | **REINFORCEMENT** | | | | |
| | **Mesh fabric reinforcement to BS 4483 and and setting in concrete with 300mm side and end laps(measured net allow for laps)** | | | | |
| A | Fabric mesh ref: A142 weighing 0.54Kg per square metre in floor bed and ramps. | sm | 364 | | |
| | **High yield square twisted reinforcement including cutting to lengths,bending,twisting and fixing ,including all necessary tying wires and spacing blocks to B.S. 4461:-** | | | | |
| B | 8mm longitudinal bars in strip foundation | Kg | 287 | | |
| C | 10mm cross(main) bars in strip foundation | kg | 326 | | |
| | **Sawn Formwork to:** | | | | |
| D | Edges of ground floor slab over 75mm but not exceeding 150mm high. | lm | 150 | | |
| | **Sub-wall** | | | | |
| | **Walling in natural coursed stone obtained from an approved quarry,jointed and beded in cement sand mortar (1:3)** | | | | |
| E | 200mm walls | sm | 80 | | |
| | **Plinths** | | | | |
| | **12mm cement sand (1:4) render:Steel trowelled on concrete or stonework to:-** | | | | |
| F | Masonry wall plinths | sm | 30 | | |
| | **Prepare and apply two coats bituminous paint on render to:-** | | | | |
| G | Rendered concrete or stone surfaces | sm | 35 | | |
| | **Carried to collection below** | | | | |
| | **<u>Collection</u>** | | | | |
| | **Brought forward from page CIPS/CLSS/01** | | | | |
| | **Brought down from page CIPS/CLSS/02 (Above)** | | | | |
| | **TOTAL FOR ELEMENT NO.1 SUBSTRUCTURE WORKS CARRIED TO CLASSROOMS SUMMARY** | | | | |

| ITEM | DESCRIPTION | UNIT | QTY | RATE | TOTAL |
|---|---|---|---|---|---|
| | **ELEMENT NO. 2**<br>**VIBRATED REINFORCED SUPERSTRUCTURE**<br>**Insitu vibrated reinforced concrete mix 1:2:4 grade 20 as described in :-** | | | | |
| A | Beams 300x200mm | cm | 8 | | |
| | **High yield square twisted reinforcement including cutting to lengths,bending,twisting and fixing ,including all necessary tying wires and spacing blocks to B.S. 4461:-** | | | | |
| B | 12mm bars in beams | Kg | 459 | | |
| | **Mild steel reinforcement to BS 4449** | | | | |
| C | 8mm diameter bars in beams | Kg | 174 | | |
| | **Formwork** | | | | |
| | **Sawn softwood formwork to in-situ concrete as described:-** | | | | |
| D | Vertical sides and soffites of beams | sm | 75 | | |
| | **STEEL COLUMNS**<br>**Mild steel including grinding all welds smooth and painting with red oxide primer before delivery to site** | | | | |
| E | 75mm Diameter Circular Hollow Section (C.H.S)mild steel column 3000mm long; one end built into concrete base and the other welded onto mild steel U-shaped holder batts(m.s) | No | 14 | | |
| F | Extra Over above described for provision and welding of 100 x 75 mm U-shaped holder batt, twice drilled for 12 mm diameter bolt, to top end of CHS column to receive wall plate (m.s) | No | 14 | | |
| | **TOTAL ELEMENT NO.2 VIBRATED REINFORCED CONCRETE SUPERSTRUCTURES CARRIED TO CLASSROOMS SUMMARY** | | | | |

| ITEM | DESCRIPTION | UNIT | QTY | RATE | TOTAL |
|---|---|---|---|---|---|
| | **ELEMENT No.3**<br>**WALLING SUPERSTRUCTURE**<br>**Machine cut walling** | | | | |
| A | 200mm thick machine cut coral block walling bedded and jointed in cement and sand mortar mix 1:3 with 20mm wide hoop iron reinforcement at every alternate course | sm | 342 | | |
| | **Plinths**<br>**12mm cement sand (1:4) render:Steel trowelled on concrete or stonework to:-** | | | | |
| B | Masonry wall plinths | sm | 15 | | |
| | **TOTAL ELEMENT NO.3 WALLING SUPERSTRUCTURE CARRIED TO SUMMARY** | | | | |

| ITEM | DESCRIPTION | UNIT | QTY | RATE | TOTAL |
|---|---|---|---|---|---|
| | **ELEMENT NO. 4** | | | | |
| | **ROOFING** | | | | |
| | **Mild Steel Trusses including hoisting and fixing in position 3200mm above ground floor; Diagonal bracing in the roof plane using tension rods (Ø12 mm). Cross-bracing between trusses for lateral stability.** | | | | |
| | **Note: The rate should include painting the steel members with one primer coat and two finishing coats of gloss oil paint** | | | | |
| A | SHS 50x50x2mm mild steel ; External members Top & Bottom Chord(Rafters and Joists) | lm | 290 | | |
| B | SHS 40x40X2 mm; Internal members (Struts ,Ties & Purlins ) | lm | 563 | | |
| C | 30 x 30 x 2mm Thick SHS diagonal bracing in roof plane and/or vertical plane between trusses | lm | 168 | | |
| D | 12 mm diameter x175mm long J-bolt anchored into concrete | No | 112 | | |
| E | 100 x 50 mm wall plate to verandah secured with 100mm diameter steel CHS columns and including 12 mm diameter mild steel bolt 150 mm long. | lm | 38 | | |
| | **ROOF COVERING** | | | | |
| | **28 Gauge Prepainted IT5 box profile resincot roofing sheet fixed with and including nails, cups and washers on purlins (as MRM Ltd)** | | | | |
| G | 28gauge box profile prepainted blue roof covering nailed to Timber Purlins | sm | 450 | | |
| H | Matching ridge caps | lm | 39 | | |
| | **Eaves filling** | | | | |
| I | 200mm thick machine cut coral block eaves and gable filling | lm | 73 | | |
| | **WROT CYPRESS** | | | | |
| J | 225x25mm fascia and bardge board | lm | 112 | | |
| | **Painting** | | | | |
| K | Timber surfaces over 200 mm but not exceeding 300mm girth | lm | 112 | | |
| | **RAIN WATER GOODS** | | | | |
| L | 150mm Diameter uPVC gutter fixed to fascia board (m.s.) with heavy duty uPVC brackets at 1000 mm centers all to approval | lm | 78 | | |
| M | Extra over gutter for stopped ends. | No | 8 | | |
| N | Ditto for rainwater outlets with nozzle for 100mm rainwater down pipe outlet. | No | 8 | | |
| O | 100mm uPVC diameter rainwater down pipe connected to drop outlet and all necessary accessories. | lm | 25 | | |
| | **TOTAL ELEMENT NO.4 ROOFING WORKS CARRIED TO SUMMARY** | | | | |

| ITEM | DESCRIPTION | UNIT | QTY | RATE | TOTAL |
|---|---|---|---|---|---|
| | **ELEMENT No. 5**<br>**DOORS** | | | | |
| | **Mild steel panel doors; 75x50x3mm thick frame plugged to concrete or masonry block work with 100mm long fish tail 25x25x2mm thick angle section, angles cut, mitred and welded; 16 gauge plain sheet filling, one coat manufacturer's primer complete with all necessary iron mongery; all welds ground to smooth finish** | | | | |
| A | Double un-equal leaf door size 1200mm wide x 2100mm high overal (D1) | No | 4 | | |
| | **Glazing.** | | | | |
| B | 5mm thick clear sheet glass and glazing fixed with metal putty and silicone to metal doors | Sm | 2 | | |
| | **PAINTING AND DECORATION** | | | | |
| C | Prepare and apply three coats first quality super gloss oil paint | Sm | 10 | | |
| | **TOTAL FOR ELEMENT NO.5 DOORS CARRIED TO SUMMARY** | | | | |
| | **CIPS/CLSS/05** | | | | |

| ITEM | DESCRIPTION | UNIT | QTY | RATE | TOTAL |
|---|---|---|---|---|---|
| | **ELEMENT NO.6**<br>**WINDOWS** | | | | |
| | **Supply, assemble and fix the following purpose-made mild steel casement windows; standard metal section from approved manufacturer complete with frames, transomes, mullions and with and including permanent ventilators comprising "T" bar, gauze and 16 gauge sheet metal hood 50mm high x 50mm projection to full width of window, coupling mullions, approved ironmongery and one coat manufacturer's primer; all welding ground to smooth finish.** | | | | |
| A | Steel casement window size 1200x1500mm with 20 No. equal panels with 2No. Side hangs and inbuilt permanent ventilation | No | 20 | | |
| | **Glazing.** | | | | |
| B | 5mm thick clear sheet glass and glazing fixed with metal putty and silicone to steel windows with silicon and putty | Sm | 36 | | |
| | **Window cill**<br>**Precast or in situ concrete (1:2:4) complete with reinforcement, formwork, hoisting and bedding in cement sand mortar (1:3)** | | | | |
| C | Window cill; 250x50mm thick, weathered and throated; fairfaced | Lm | 152 | | |
| | **Painting**<br>**Prepare and apply three coats first quality super gloss oil paint to:-** | | | | |
| D | Surfaces of steel windows both sides measured | Sm | 36 | | |
| | **TOTAL FOR ELEMENT NO 6 WINDOWS CARRIED TO SUMMARY.** | | | | |

| ITEM | DESCRIPTION | UNIT | QTY | RATE | TOTAL |
|---|---|---|---|---|---|
| | **ELEMENT NO. 7**<br>**FINISHES**<br>**FLOOR FINISHES**<br>**Floors and Skirting.Note: Tilework involves adhesive,grout and spacers** | | | | |
| A | 40mm thick Cement Sand (1:3) to receive floor tiles (m/s) | sm | 364 | | |
| B | 330 X 330 X 8mm thick ceramic floor tiles | sm | 364 | | |
| C | Ditto 150mm skirting | lm | 130 | | |
| | **EXTERNAL WALL FINISHES**<br>**External walls** | | | | |
| D | Extra over dressed stone walling for neat recessed horizontal key in cement mortar (1:3) | sm | 242 | | |
| E | 12mm thick cement,sand render,with wood float finish to masonry walling and concrete surfaces | sm | 96 | | |
| | **Painting and decoration** | | | | |
| | **Prepare and apply one undercoat and two finishing coats of exterior quality plastic cream emulsion paint on :-** | | | | |
| F | Rendered masonry wall and concrete surfaces | sm | 96 | | |
| | **Touch up primer, prepare and apply one undercoat and Two finishing coats first quality black gloss oil pain to metalwork** | | | | |
| G | General surfaces of mild steel 75-150mmgirth(Circular hollow section column sand holder batts ) | lm | 64 | | |
| | **INTERNAL WALL FINISHES**<br>**Internal walls** | | | | |
| H | 12mm thick cement,sand and lime plaster,with steel trowelled finish. | sm | 448 | | |
| | **Painting and decoration** | | | | |
| J | Prepare and apply one undercoat and two finishing coats first quality soft white plastic emulsion paint ditto. | sm | 448 | | |
| | **Chalk board** | | | | |
| K | 40mm thick Cement sand mix 1:3 wiremesh reinforced Chalkboard size 1200mm high x 6000mm long with chalk rail placed at a height of 1000mm above floor slab finished with 3 coats of black paint | No | 4 | | |
| | **TOTAL ELEMENT No. 7 : FINISHES CARRIED TO SUMMARY** | | | | |

| ITEM | DESCRIPTION | UNIT | QTY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | **ELEMENT NO. 08: PRIME COST AND PROVISIONAL SUMS** | | | | |
| A | **ELECTRICAL INSTALLATIONS**<br>Allow for a provisional sum of One Hundred and fifty thousand shillings only for electrical installations | SUM | | | |
| | | | | | |

| ITEM | DESCRIPTION | PAGE No | AMOUNT |
|---|---|---|---|
| | **4NO. CLASSROOMS BLOCK SUMMARY** | | |
| 1 | SUBSTRUCTURE WORKS | CIPS/CLSS/02 | |
| 2 | VIBRATED REINFORCED CONCRETE SUPERSTRUCTURE | CIPS/CLSS/03 | |
| 3 | WALLING SUPERSTRUCTURE | CIPS/CLSS/03 | |
| 4 | ROOFING | CIPS/CLSS/04 | |
| 5 | DOORS | CIPS/CLSS/05 | |
| 6 | WINDOWS | CIPS/CLSS/06 | |
| 7 | FINISHES | CIPS/CLSS/07 | |
| 8 | PRIME COST AND PROVISIONAL SUMS | CIPS/CLSS/08 | |
| | **TOTAL FOR THE 4NO CLASSROOMS CARRIED TO MAIN SUMMARY** | | |

# CONSTRUCTION OF 10NO. PIT LATRINES (5NO FOR BOYS AND 5NO FOR GIRLS) AT CATHOLIC INTERGRATED PRIMARY SCHOOL IN WAJIR COUNTY

# PROPOSED PIT LATRINES AT CATHOLIC INTERGRATED PRIMARY SCHOOL IN WAJIR COUNTY

| ITEM | DESCRIPTION | UNIT | QTY | RATE | TOTAL |
|---|---|---|---|---|---|
| | **BILLS OF QUANTITIES FOR PROPOSED 1-DOOR PIT LATRINE BLOCK** | | | | |
| | **ELEMENT NO. 1** | | | | |
| | **SUBSTRUCTURE** | | | | |
| | **(ALL PROVISIONAL)** | | | | |
| | This element consists of all works upto and including the floor surface bed. | | | | |
| | **Site clearance** | | | | |
| A. | Clear site of shrubs,grass,small trees girth not exceeding 600mm and grub roots and remove from site as directed. | sm | 6 | | |
| | **Excavations and earth works** | | | | |
| B | Excavate vegetable soil,shrubs and undergrowth grub there roots and burn the uprising(average 200mm deep) | sm | 6 | | |
| C | Excavate for strip foundation starting from strip level depth not exceeding 1.5m deep. | cm | 3 | | |
| D | Excavation to pit latrine 1500mmx2500mm wide depth not exceeding 1.5m deep. | cm | 3 | | |
| E | Ditto but from 1.5m but not exceeding 3.0m deep. | cm | 3 | | |
| F | Ditto but from 3.0m but not exceeding 4.5m deep. | cm | 3 | | |
| G | Ditto but from 4.5m but not exceeding 6.0m deep. | cm | 3 | | |
| H | Return fill and rum selected excavated material. | cm | 8 | | |
| I | Cart away surplus excavated material on site not more than 20m away | cm | 11 | | |
| | **Planking and strutting** | | | | |
| J | Allow for plunking and strutting | item | | | |
| | **Disposal of water** | | | | |
| K | Allow for keeping excavations free from water. | item | | | |
| | **Hardcore fillings** | | | | |
| L | Approved hardcore fill 300mm thick ,well watered and compacted to receive murram blinding(m.s) | Cm | 1 | | |
| | **Quarry dust/murram blinding** | | | | |
| M | Approved 50mm thick murram blinding. | Sm | 2 | | |
| | **Anti - termite treatment** | | | | |
| N | Gladiator T.C.L or any other equal and approved chemical anti-termite treatment to sub soil or filling | sm | 3.5 | | |
| | **Insitu Plain Concrete mix 1:3:6 in:** | | | | |
| O | 50mm thick concrete blinding under strip foundations | sm | 3.5 | | |
| | **Insitu vibrated reinforced concrete mix 1:2:4 in** | | | | |
| P | 200mm thick strip foundations | cm | 0.25 | | |
| Q | 200mm x 200mm thick in floor beams | cm | 0.25 | | |
| R | 150mm thick in suspended floor beds | sm | 3.5 | | |
| | **Carried to Collection** | | | | |

| ITEM | DESCRIPTION | UNIT | QTY | RATE | TOTAL |
|---|---|---|---|---|---|
| | **substructure works continued:-** | | | | |
| | **High yield square twisted reinforcement including cutting to lengths,bending,twisting and fixing ,including all necessary tying wires and spacing blocks to B.S. 4461:-** | | | | |
| A | 8mm longitudinal bars in strip foundation | Kg | 5 | | |
| B | 10mm cross(main) bars ditto | Kg | 9 | | |
| C | 12mm bars as main bars in suspended floors and beams | Kg | 21 | | |
| D | 10mm bars as main bars in suspended floors | Kg | 11 | | |
| | **Mild steel reinforcement to BS 4449** | | | | |
| E | 8mm diameter bars as links to floor beams | Kg | 21 | | |
| | **Mesh fabric reinforcement to BS 4483:Square mesh reference A142:weighing 2.22kilogrammes per square metre** | | | | |
| F | In bebs 200mm laps | sm | 1 | | |
| | **Formwork to:** | | | | |
| G | Vertical sides of strip foundations | sm | 1.5 | | |
| H | Soffits and sides of floor beams and slabs exceeding 3.0m high | sm | 3.5 | | |
| I | Vertical edges of beds over 75mm but not exceeding 150mm wide. | lm | 5 | | |
| | **Hand cut natural stones beded in cement sand mortar (1:3) including hoop iron in every alternate course** | | | | |
| J | 200mm walls | sm | 6 | | |
| | **Bituminous felt damp proof courses bedded in cement sand mortar (1:4) :300mm laps:-** | | | | |
| K | 200mm wide horizontal | lm | 5.5 | | |
| | **12mm cement sand (1:4) render:Steel trowelled on concrete or stonework to** | | | | |
| L | Plinths | sm | 4 | | |
| | **Prepare and apply two coats bituminous paint on render to:-** | | | | |
| M | Plinth | sm | 4 | | |
| | **Carried to Collection below** | | | | |
| | **Collection** | | | | |
| | **Brought forward from page CIPS/PL/01** | | | | |
| | **Brought down from page CIPS/PL/02 (Above)** | | | | |
| | **TOTAL ELEMENT NO.1 SUB-STRUCTURES CARRIED TO SUMMARY** | | | | |

# PROPOSED PIT LATRINES AT CATHOLIC INTERGRATED PRIMARY SCHOOL IN WAJIR COUNTY

| ITEM | DESCRIPTION | UNIT | QTY | RATE | TOTAL |
|---|---|---|---|---|---|
| | **ELEMENT NO. 2**<br>**VIBRATED REINFORCED SUPERSTRUCTURE**<br>**Insitu vibrated reinforced concrete mix 1:2:4 grade 20 as described in :-** | | | | |
| A | Beams | cm | 0.5 | | |
| | **High yield square twisted reinforcement including cutting to lengths,bending,twisting and fixing ,including all necessary tying wires and spacing blocks to B.S. 4461:-** | | | | |
| B | 10mm bars in beams | Kg | 11.5 | | |
| | **Mild steel reinforcement to BS 4449** | | | | |
| C | 8mm diameter bars in beams | Kg | 9 | | |
| | **Formwork**<br>**Sawn softwood formwork to in-situ concrete as described:-** | | | | |
| D | Vertical sides and soffites of beams | sm | 9 | | |
| | **TOTAL ELEMENT NO.2 VIBRATED REINFORCED CONCRETE SUPERSTRUCTURES CARRIED TO SUMMARY** | | | | |

# PROPOSED PIT LATRINES AT CATHOLIC INTERGRATED PRIMARY SCHOOL IN WAJIR COUNTY

| ITEM | DESCRIPTION | UNIT | QTY | RATE | TOTAL |
|---|---|---|---|---|---|
| | **ELEMENT No.3**<br>**WALLING SUPERSTRUCTURE**<br>**Machine cut walling** | | | | |
| A | 150mm thick machine cut coral block walling bedded and jointed in cement and sand mortar mix 1:3 with 20mm wide hoop iron reinforcement at every alternate course | sm | 9.5 | | |
| B | 150mm thick precast concrete permanent vent block walling | sm | 0.5 | | |
| | **TOTAL ELEMENT NO.3 WALLING SUPERSTRUCTURE CARRIED TO SUMMARY** | | | | |

# PROPOSED PIT LATRINES AT CATHOLIC INTERGRATED PRIMARY SCHOOL IN WAJIR COUNTY

| ITEM | DESCRIPTION | UNIT | QTY | RATE | TOTAL |
|---|---|---|---|---|---|
| | **ELEMENT NO. 4** | | | | |
| | **ROOFING**<br>**The following in second grade celcured cypress and all the necessary for assembling and hoisting to position as per roofing details.** | | | | |
| A | 75x50mm rafters. | lm | 3 | | |
| B | 50x50mm Purlins. | lm | 7 | | |
| | **ROOF COVERING** | | | | |
| C | 28gauge Pre-painted blue box profile roof covering nailed to Timber Purlins | sm | 5.5 | | |
| | **Eaves filling** | | | | |
| D | 200mm thick machine cut coral block eaves and gable filling | lm | 4 | | |
| | **WROT CYPRESS** | | | | |
| E | 200x25mm fascia and bardge board | lm | 4 | | |
| | **Knot, prime,Stop and Prepare and apply three coats white brilliant gloss oil paint on-:** | | | | |
| F | Timber surfacs over 200 mm but not exceeding 300mm girth | lm | 4 | | |
| | **TOTAL ELEMENT NO.4 ROOFING WORKS CARRIED TO SUMMARY** | | | | |

# PROPOSED PIT LATRINES AT CATHOLIC INTERGRATED PRIMARY SCHOOL IN WAJIR COUNTY

| ITEM | DESCRIPTION | UNIT | QTY | RATE | TOTAL |
|---|---|---|---|---|---|
| | **ELEMENT No. 5** | | | | |
| | **DOORS** | | | | |
| | **The following in wrot graded cedar** | | | | |
| A | 100mm x 50mm frame with one labour and fixed to block wall with fish tailed metal (m.s) | lm | 9 | | |
| | **Shutter** | | | | |
| B | 45mm thick (finished) hardwood framed, ledged,braced and battened door comprising of 95 x 20mm (finished) braces,ledges and tongued and grooved matchboarding, V-jointed on one side and let flush on the other | No | 1 | | |
| | **Ironmongry** | | | | |
| | **Supply and fix the following ironmongery with screws to match.** | | | | |
| C | 100mm brass butt hinges with matching screws. | No | 3 | | |
| D | 25mm x 3mm fish tailed metal cramps one end screwed to 50mm timber frame while the other end fixed to block wall | No | 3 | | |
| E | 300mm long steel aldrop(Pad bolt ) | No | 1 | | |
| F | 150mm Brass tower bolt | No | 1 | | |
| | **PAINT WORK** | | | | |
| | **Prepare and apply 3 coats of first grade clear wood varnish** | | | | |
| G | Surfacess not exceeding 300mm | lm | 7 | | |
| H | General surfaces | sm | 7 | | |
| | **TOTAL FOR ELEMENT NO.5 DOORS CARRIED TO SUMMARY** | | | | |

# PROPOSED PIT LATRINES AT CATHOLIC INTERGRATED PRIMARY SCHOOL IN WAJIR COUNTY

| ITEM | DESCRIPTION | UNIT | QTY | RATE | TOTAL |
|---|---|---|---|---|---|
| | **ELEMENT NO. 6** | | | | |
| | **FINISHES** | | | | |
| | **Floor finishes** | | | | |
| A | 40mm thick Cement Sand (1:4) and screed | sm | 3.5 | | |
| | **EXTERNAL WALL FINISHES** | | | | |
| | **External walls** | | | | |
| B | Extra over dressed stone walling for neat recessed horizontal key in cement mortar (1:3) | sm | 7.5 | | |
| C | 12mm thick cement,sand render,with wood float finish | sm | 2.5 | | |
| D | Ditto rendered concrete surfaces | sm | 1 | | |
| | **Painting and decoration** | | | | |
| | **Prepare and apply one undercoat and two finishing coats of exterior quality plastic cream emulsion paint on :-** | | | | |
| E | Rendered wall surfaces | sm | 1.25 | | |
| F | Rendered concrete surfaces | sm | 0.5 | | |
| | **INTERNAL WALL FINISHES** | | | | |
| | **Internal walls** | | | | |
| G | 12mm thick cement,sand and lime plaster,with steel trowelled finish. | sm | 12 | | |
| | **Painting and decoration** | | | | |
| H | Prepare and apply one undercoat and two finishing coats first quality soft white plastic emulsion paint ditto. | sm | 12 | | |
| J | Prepare and apply one finishing coat first quality gloss cream paint to wall skirting. | sm | 3 | | |
| | **External works** | | | | |
| K | 50mm thick precast concrete (1:2:4) paving slab size 600 x 600mm jointed with (1:3) cement sand mortar on and including 50mm thick bed of sand | Sm | 3 | | |
| | **MISCELLEANOUS** | | | | |
| L | U.P.V.C golden brown vent pipe 100mm diameter | lm | 3.5 | | |
| M | U.P.V.C ballon guard(vent cap) 100mm diameter | lm | 0.5 | | |
| | **TOTAL ELEMENT No. 6: FINISHES CARRIED TO SUMMARY** | | | | |

# PROPOSED PIT LATRINES AT CATHOLIC INTERGRATED PRIMARY SCHOOL IN WAJIR COUNTY

| ITEM | DESCRIPTION | PAGE No | AMOUNT |
|---|---|---|---|
| | **SUMMARY FOR THE PIT LATRINE** | | |
| 1 | SUBSTRUCTURE WORKS | CIPS/PL/02 | |
| 2 | VIBRATED REINFORCED CONCRETE SUPER STRUCTURES | CIPS/PL/03 | |
| 3 | SUPERSTRUCTURE WALLING | CIPS/PL/04 | |
| 4 | ROOFING | CIPS/PL/05 | |
| 5 | DOORS | CIPS/PL/06 | |
| 7 | FINISHES | CIPS/PL/07 | |
| | **TOTAL FOR CONSTRUCTION OF 1-DOOR PIT LATRINE** | | |

| | |
|---|---|
| **TOTAL FOR CONSTRUCTION OF 10-DOOR PIT LATRINES CARRIED TO MAIN SUMMARY** | |

# CONSTRUCTION OF 20-TAP HAND WASHING STATION AT CATHOLIC INTERGRATED PRIMARY SCHOOL IN WAJIR COUNTY

# 20-POINT HAND WASHING STATION AT CATHOLIC INTERGRATED PRIMARY SCHOOL

| ITEM | DESCRIPTION | QTY | UNIT | RATE | KSHS. |
|---|---|---|---|---|---|
| | **All Provisional** | | | | |
| **1** | **Excavations** | | | | |
| A | Excavate top vegetable soil average depth150mm and depositon site as directed | 44 | SM | | |
| B | Exacavate foundation strip n.e 900mm deep and deposit on site as directed. | 14 | CM | | |
| C | Backfill foundation with selected excavated materials | 8 | CM | | |
| | **Fillings** | | | | |
| D | Approved hand-packed hardcore filling; deposited and compacted in 150 mm thick layers; 300 mm thick | 24 | CM | | |
| E | Stone dust blinding to surfaces of hardcore; 50 mm thick | 24 | SM | | |
| | **Surface treatment**<br>**Chemicalanti-termitetreatment,with"Termidor25EC"insecticide to the satisfaction of the Engineer** | | | | |
| F | To surfaces of hardcore blinding and wall tops | 44 | SM | | |
| | **in situ concrete**<br>**Mass concrete (C15/20)** | | | | |
| G | To strip foundations ; 150 mm thick | 18 | SM | | |
| H | 100 mm thick to strip foundation | 36 | SM | | |
| | **Walling**<br>**Natural stone wall; jointed and bedded in cement : sand(1:3) mortar** | | | | |
| J | 150 mm thick; foundation walling below floor slab (M. S.) | 16 | SM | | |
| K | 100 mm thick ground floor slab with wiremesh | 32 | SM | | |
| | | | | | |
| | ***SUB-TOTAL CARRIED TO COLLECTION*** | | | | |

# 20-POINT HAND WASHING STATION AT CATHOLIC INTERGRATED PRIMARY SCHOOL

| ITEM | DESCRIPTION | QTY | UNIT | RATE | KSHS. |
|---|---|---|---|---|---|
| | **Concrete work top** | | | | |
| L | 75 mm thick in situ concrete (class 20/20 mm) worktop; including 6mm diameter mild steel reinforcement bars at 150mm centers both ways, on 150mm thick walls | 18 | SM | | |
| M | Sawn formwork to ; horizontal soffits of worktop | 14 | SM | | |
| N | Sawn formwork to ; vertical edge of worktop over 75mm but not exceeding 150mm girth | 36 | LM | | |
| | **FINISHES** | | | | |
| | **25 mm thick two coats cement/sand (1:4) plaster to:** | | | | |
| O | Concrete and masonry work to receive ceramic tiles | 70 | SM | | |
| | **Ceramic wall tiles** | | | | |
| P | 250mm x 300mm ceramic wall tiles | 70 | SM | | |
| | **External wall plaster** | | | | |
| | **25 mm cement sand (1:3)render:Steel trowelled on concrete or stonework to:-** | | | | |
| Q | Concrete or masonry wall plinths | 70 | SM | | |
| | **Painting and Decorating** | | | | |
| | **Prepare and apply three coats plastic emulsion paint as described to:** | | | | |
| R | Plastered concrete and masonry walls; external | 24 | SM | | |
| | **Trench excavation** | | | | |
| S | Excavation for pipe trenches for 32mm pipes in any material other than rock with a maximum depth not exceeding 600mm | 16 | CM | | |
| | **Pipeline** | | | | |
| T | Supply,lay and joint 32mm HDPE pipe with associated accessories | 90 | LM | | |
| | **Soap dispenser** | | | | |
| U | Wall mounted soap dispenser with a capacity of about one litre press soap release action complete with fixing screws. Allow for initial soap supply. To be as Starmix or approved equivalent. | 20 | NO | | |
| | ***SUB-TOTAL CARRIED TO COLLECTION*** | | | | |

# 20-POINT HAND WASHING STATION AT CATHOLIC INTERGRATED PRIMARY SCHOOL

| ITEM | DESCRIPTION | QTY | UNIT | RATE | KSHS. |
|---|---|---|---|---|---|
| | **MECHANICAL WORKS CONTINUED** | | | | |
| | **Plumbing** | | | | |
| A | Supply and install tubing and fittings as described and shown on the drawings. Tenderers must allow for ipework, couplings etc necessary for the proper and satisfactory functioning of the system when pricing the following in PN 20 PPRC conforming to the current European standards for PPR installations and to the Engineer's approval, pipe jointing shall be by polyfusion or use of electric coupling Rates must allow for all the Metal/plastic threaded adaptors where required for the connection of sanitary fixtures, valves, sockets, sliding and fixed joints, support raceways, isolating sheaths, elastic materials, expansion arms and bends, crossovers etc | | | | |
| | **PPR Pipes** | | | | |
| B | 32mm dia pipe chased in walls/floors | 8 | LM | | |
| C | 25mm ditto | 14 | LM | | |
| | **Extra-over PPR pipework for the following:-** | | | | |
| | **Bends/elbows** | | | | |
| D | 25 x 20 mm female Elbow | 8 | NO | | |
| E | 25mm plain elbow | 8 | NO | | |
| F | 1/2" female Elbow | 2 | NO | | |
| G | 3/4" female elbow | 4 | NO | | |
| H | 1" female elbow | 8 | NO | | |
| J | 1,1/4" plain elbow | 4 | NO | | |
| K | 3/4" Male elbow | 4 | NO | | |
| | **Sockets** | | | | |
| L | 32mm male socket | 10 | NO | | |
| M | 32mm female socket | 10 | NO | | |
| N | 3/4" X 1/2" Reducer socket | 6 | NO | | |
| P | 1/2" Female socket | 4 | NO | | |
| Q | 1/2" Plain socket | 2 | NO | | |
| R | 1" socket | 9 | NO | | |
| S | 1" female socket | 8 | NO | | |
| T | 1,1/4" female socket | 4 | NO | | |
| U | 1" male socket | 8 | NO | | |
| V | 3/4" Plain socket | 8 | NO | | |
| W | 3/4" Male socket | 8 | NO | | |
| | **Tees** | | | | |
| X | 25x1/2" female threaded tee | 14 | NO | | |
| Y | 1/2" female threaded tee | 5 | NO | | |
| Z | 3/4" female threaded tee | 2 | NO | | |
| AA | 1/4" tee | 4 | NO | | |
| BB | 1" tee | 4 | NO | | |
| CC | 1" X 3/4" Female tee | 4 | NO | | |
| | **Gate valve** | | | | |
| DD | 1" Pegra gate valve | 4 | NO | | |
| | **G.I Nipples** | | | | |
| EE | 1/2" G.I nipple | 24 | NO | | |
| | **Waste pipe** | | | | |
| FF | 1,1/4" waste pipe | 4 | NO | | |
| | **waste tee** | | | | |
| GG | 1,1/4" waste tee | 12 | NO | | |
| HH | Inpection tee | 6 | NO | | |
| | **waste bends** | | | | |
| JJ | 1,1/4" waste bend | 4 | NO | | |
| | **Tap** | | | | |
| KK | Lockable 1/2" bibtap | 6 | NO | | |
| LL | Lockable 3/4" bibtap | 2 | NO | | |
| | **HWS PG-3 CARRIED TO COLLECTION** | | | | |

# 20-POINT HAND WASHING STATION AT CATHOLIC INTERGRATED PRIMARY SCHOOL

| ITEM | DESCRIPTION | PAGE NO. | AMOUNT |
|---|---|---|---|
| | **COLLECTION FOR THE 20-POINT HAND WASHING STATION** | | |
| 1 | TOTAL FROM HWS PG-1 | CIPS/HWS PG-1 | |
| 2 | TOTAL FROM HWS PG-2 | CIPS/HWS PG-2 | |
| 3 | TOTAL FROM HWS PG-3 | CIPS/HWS PG-3 | |
| **TOTAL FOR 20-POINT HAND WASHING STATION CARRIED TO CATHOLIC INTERGRATED PRIMARY SCHOOL MAIN SUMMARY** | | | |

# PIPELINE EXTENSIONS AT CATHOLIC INTERGRATED PRIMARY SCHOOL IN WAJIR COUNTY

# PIPELINE EXTENSIONS AT CATHOLIC INTERGRATED PRIMARY SCHOOL IN WAJIR COUNTY

**WATER DISTRIBUTION PIPELINES AND CONNECTIONS**

| ITEM | DESCRIPTION | UNIT | QUANTITY | RATE (KSh) | AMOUNT (KSh) |
|---|---|---|---|---|---|
| | **Site Clearance and stripping**<br><br>Provide for site clearance atleast 0.6m wide along the set-out pipeline route. Alsso provide for stripping of vegetation and top soil not exceeding 50mm depth | | | | |
| A | Site clearance and stripping | SM | 120.0 | | |
| | **Earthworks**<br>Provide for excavation of pipeline trench of not exceeding 600mm deep by 600mm wide. | | | | |
| B | Excavation and backfilling in normal soil | CM | 72.0 | | |
| | **Pipeline layng and backfilling**<br><br>Provide for pipeline laying and backfilling. Rtes to include labour and all necessary equpiment as well as wastes during fitting of the pipeline | | | | |
| C | 32mm PPR PN-16 pipe. | Rolls | 4.0 | | |
| D | Allow for a provisional sum of Kshs 50,000 for plumbing connections | Item | 1.0 | | |
| | **TOTAL FOR WATER DISTRIBUTION PIPELINES AND CONNECTIONS CARRIED TO MAIN SUMMARY** | | | | |

# RENOVATION AND EQUIPPING OF AN ICT CENTER AT CATHOLIC INTERGRATED PRIMARY SCHOOL IN WAJIR COUNTY

# RENOVATION AND EQUIPPING OF AN ICT CENTER AT CATHOLIC INTERGRATED PRIMARY SCHOOL

**BILLS OF QUANTITIES**

| ITEM | DESCRIPTION | UNIT | QTY | RATE (KShs) | AMOUNT (KShs) |
|---|---|---|---|---|---|
| **1** | **DEMOLITIONS, ALTERATIONS AND PREPARATIONS** | | | | |
| A | Carefully hack the existing floor and dispose of debris on site as directed by the project manager | Sm | 48 | | |
| B | Clean off the soffits of roof including eaves and make good dilapidated timber.Remove and replace all severely damaged timber roof members with new treated timber of similar size and profile, including proper jointing and fixing. Clean, treat, and repair all termite-damaged but salvageable timber elements | Ls | 1 | | |
| C | Carefully remove existing door leaf and frame, including cutting or hacking surrounding masonry as necessary, removing all fittings and debris, making good all disturbed surfaces, and preparing the opening to receive a new door. | No | 1 | | |
| D | Carefully rake out cracks in walls and floors to the required depth and width using hand tools, in preparation for repair works. Repair all vertical, horizontal, and floor cracks by anchoring with D8 mild steel bars, including cutting chase, placing and anchoring bars with approved non-shrink grout or epoxy resin, and making good all disturbed surfaces. | Lm | 21 | | |
| E | Scrape off all loose, flaking or peeling paint, and surface dust from internal and external walls using stiff wire brushes and scrapers, to expose a clean, sound surface suitable for new painting. (m/s) | Sm | 72 | | |
| F | Cart away demolition debris to approved dumping site | Item | 1 | | |
| | **SUB-TOTAL CARRIED FORWARD TO SUMMARY PAGE** | | | | |

# RENOVATION AND EQUIPPING OF AN ICT CENTER AT CATHOLIC INTERGRATED PRIMARY SCHOOL

| ITEM | DESCRIPTION | UNIT | QTY | RATE (KShs) | AMOUNT (KShs) |
|---|---|---|---|---|---|
| **2** | **PLASTERING AND WALL FINISHES** | | | | |
| A | Internal cement sand plaster 15mm thick to hacked walls | Sm | 72 | | |
| B | Apply primer coat to walls | Sm | 72 | | |
| C | Apply three coats emulsion paint to internal walls | Sm | 72 | | |
| **3** | **FLOOR FINISHES** | | | | |
| A | Cement: Sand (1:4) Screed: 40 mm thick cement: sand (1:4) screed; to receive tiles | Sm | 48 | | |
| B | Supply and lay 300 X 300 X 8mm thick Ceramic floor tiles of approved color and shade with grouting ; matching colored cement. | Sm | 48 | | |
| C | Skirting: Supply and fix matching skirting tiles (100 mm high) | Lm | 26 | | |
| 4 | **CEILING WORKS** | | | | |
| A | Timber brandering 50x50mm treated softwood fixed to roof structure | Sm | 48 | | |
| B | Supply and install gypsum ceiling boards including jointing and finishing | Sm | 48 | | |
| C | Cornice moulding to perimeter | Lm | 26 | | |
| D | Prepare and apply three coats ceiling paint | Sm | 48 | | |
| **5** | **WINDOWS** | | | | |
| A | Supply and install large aluminum framed windows with clear glass to new openings | Sm | 8 | | |
| B | Supply and install burlar proofing bars(grille) for security | Sm | 8 | | |
| | **Doors**<br>**Mild steel panel doors; 75x50x3mm thick frame plugged to concrete or masonry block work with 100mm long fish tail 25x25x2mm thick angle section, angles cut, mitred and welded; 16 gauge plain sheet filling, one coat manufacturer's primer complete with all necessary iron mongery; all welds ground to smooth finish** | | | | |
| C | Single leaf steel door size 1200mm wide x 2100mm high overal | No | 1 | | |
| | **SUB-TOTAL CARRIED FORWARD TO SUMMARY PAGE** | | | | |

# RENOVATION AND EQUIPPING OF AN ICT CENTER AT CATHOLIC INTERGRATED PRIMARY SCHOOL

| ITEM | DESCRIPTION | UNIT | QTY | RATE (KShs) | AMOUNT (KShs) |
|---|---|---|---|---|---|
| **6** | **COMPUTER EQUIPMENT** | | | | |
| A | Desktop computers (Core i7 or equivalent, 16GB RAM, 512GB SSD, 8th Generation, 3.7GHz, 6 Cores, 12 Threads, Full Set with 24-Inch Monitor, keyboard, mouse) Such as DELL or HP | No | 10 | | |
| B | HP ProBook 440 G11 Teacher/Administrator computer/ laptop | No | 1 | | |
| | **NETWORKING INFRASTRUCTURE** | | | | |
| C | Supply and installation of Airtel 5G router for wireless connection with necessary accessories | Item | 1 | | |
| | **POWER AND BACKUP** | | | | |
| D | UPS units (650–850VA) for computer stations | No | 10 | | |
| E | Electrical wiring and socket outlets for computer lab | Item | 1 | | |
| F | Power extension sockets and surge protectors | No | 10 | | |
| | **ICT LAB FURNITURE** | | | | |
| G | Customized Computer desks (double workstation desks) | No | 5 | | |
| H | Ergonomic student computer lab/library chairs | No | 10 | | |
| J | 1.2m MDF office desk feature a compact 120cm x 60cm layout, a scratch-resistant laminated finish, and integrated lockable storage. | No | 1 | | |
| K | Instructor High Back Office Chair | No | 1 | | |
| L | 4 drawer metallic storage cabinet with lock bar | No | 1 | | |
| | **SUB-TOTAL CARRIED FORWARD TO SUMMARY PAGE** | | | | |

# RENOVATION AND EQUIPPING OF AN ICT CENTER AT CATHOLIC INTERGRATED PRIMARY SCHOOL

| ITEM | DESCRIPTION | UNIT | QTY | RATE (KShs) | AMOUNT (KShs) |
|---|---|---|---|---|---|
| | **SUMMARY PAGE** | | | | |
| | **ICT CENTER RENOVATION** | | | **Page No** | |
| 1 | DEMOLITIONS, ALTERATIONS AND PREPARATIONS | | | CIPS/ICT/01 | |
| 2 | PLASTERING AND FINISHES | | | CIPS/ICT/02 | |
| 3 | FURNITURE AND FITTINGS | | | CIPS/ICT/03 | |
| | **TOTAL FOR 1NO. ICT CENTER CARRIED TO MAIN SUMMARY** | | | | |

# CONSTRUCTION OF AN ABLUTION BLOCK AT CATHOLIC INTERGRATED PRIMARY SCHOOL IN WAJIR COUNTY

# WAJIR CATHOLIC INTEGRATED PRIMARY ABLUTION BLOCK

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| **WAJIR CATHOLIC INTEGRATED PRIMARY ABLUTION BLOCK** | | | | | |
| **1** | **SUBSTRUCTURE (ALL PROVISIONAL)** | | | | |
| | **Site Clearance** | | | | |
| A | Clear site of grass, undergrowth, grub up roots; cart away | 69 | SM | | |
| | **Excavation and earthworks** **Including maintaining and supporting sides and keeping free from water, mud and fallen materials by baling or otherwise.** | | | | |
| B | Excavate top vegetable soil average depth 150 mm and deposit on site as directed | 64 | SM | | |
| C | Excavate foundation strips; not exceeding 1.5m deep from reduced level | 38 | CM | | |
| D | Backfill foundation with selected excavated materials | 20 | CM | | |
| E | Disposal of surplus excavated material on site | 6 | CM | | |
| | **Fillings** | | | | |
| F | Approved hand-packed hardcore filling; deposited and compacted in 150 mm thick layers; 300 mm thick | 64 | SM | | |
| G | Stone dust blinding to surfaces of hardcore; 50 mm thick | 64 | SM | | |
| | **Surface treatment** **Chemical anti-termite treatment, with "Termidor 25 EC" insecticide to the satisfaction of the Architect** | | | | |
| H | To surfaces of hardcore blinding and wall tops | 64 | SM | | |
| | **Carried to Collection** | | | | |

# WAJIR CATHOLIC INTEGRATED PRIMARY ABLUTION BLOCK

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| | **Waterproofing** | | | | |
| J | 1000 Gauge polythene damp-proof membrane 300 mm laps (measured nett with no allowance for overlaps) | 64 | SM | | |
| K | 200 mm wide three ply hessian based bituminous damp proof course; bedded on cement:sand (1:3) mortar: 150 mm laps | 64 | LM | | |
| | **In-situ concrete** | | | | |
| | **Mass concrete; 1:4:8** | | | | |
| L | To strip foundations ; 50 mm thick | 33 | SM | | |
| | **Vibrated reinforced concrete; class 20:20 (1:2:4) in** | | | | |
| M | Strip foundations | 7 | CM | | |
| N | 100 mm thick ground floor slab | 64 | SM | | |
| | **Reinforcement ( Provisional )** | | | | |
| | **Reinforcement including bends, tying wire, bends, hooks and spacers** | | | | |
| P | High yield steel bar reinforcement; square twisted; as per B.S.4461; for strip foundations | 157 | KG | | |
| Q | A142 Mesh in floor slab; weighing 2.22 per $m^2$; to BS 4483; laid with 150 mm laps (measured nett) | 64 | SM | | |
| | **Carried to Collection** | | | | |

# WAJIR CATHOLIC INTEGRATED PRIMARY ABLUTION BLOCK

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| | **Formwork to In-situ Concrete - Rough (sawn) finish** | | | | |
| R | Edges of ground floor slab 75-150 mm high | 17 | LM | | |
| | **Walling** | | | | |
| | **Natural stone wall; jointed and bedded in cement: sand (1:3) mortar** | | | | |
| S | 200 mm thick; foundation walling below floor slab (M. S.) | 62 | SM | | |
| | **Plinths** | | | | |
| | **12mm cement sand (1:4) render:Steel trowelled on concrete or stonework to:-** | | | | |
| T | Concrete or masonry wall plinths | 31 | SM | | |
| | **Prepare and apply two coats bituminous paint on render to:-** | | | | |
| U | Rendered concrete or stone surfaces | 31 | SM | | |
| | **Carried to Collection below** | | | | |
| | **COLLECTION FOR SUBSTRUCTURE WORKS** | | | | |
| | **Brought Forward from Page CIPS/AB/01** | | | | |
| | **Brought Forward from Page CIPS/AB/02** | | | | |
| | **Brought Forward from Page CIPS/AB/03 Above** | | | | |
| | **TOTAL FOR SUBSTRUCTURE; CARRIED TO SUMMARY** | | | | |

# WAJIR CATHOLIC INTEGRATED PRIMARY ABLUTION BLOCK

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| | **WAJIR CATHOLIC INTEGRATED PRIMARY ABLUTION BLOCK** | | | | |
| **2** | **REINFORCED CONCRETE SUPERSTRUCTURE**<br>**Vibrated reinforced concrete; class 20:20 (1:2:4) in** | | | | |
| A | Beams | 3 | CM | | |
| | **Reinforcement ( Provisional )**<br>**Reinforcement including bends, tying wire, bends, hooks and spacers** | | | | |
| B | Assorted steel bar reinforcement; high yield; as per B.S. 4461; to Ring beam | 299 | KG | | |
| | **Formwork to In-situ Concrete ; Fair finish** | | | | |
| C | Sides and soffites of beams | 33 | SM | | |
| | **TOTAL FOR REINFORCED CONCRETE SUPERSTRUCTURE; CARRIED TO SUMMARY** | | | | |

# WAJIR CATHOLIC INTEGRATED PRIMARY ABLUTION BLOCK

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| **WAJIR CATHOLIC INTEGRATED PRIMARY ABLUTION BLOCK** | | | | | |
| **3** | **WALLING**<br>**Machine cut stones; jointed and bedded in cement:sand (1:4) mortar; with and including, 20 x 4 mm mild steel strips every alternate course** | | | | |
| A | 150 mm thick ; external and Internal | 188 | SM | | |
| B | 150mm thick precast concrete permanent vent block walling | 45 | SM | | |
| | **TOTAL FOR WALLING; CARRIED TO SUMMARY** | | | | |

# WAJIR CATHOLIC INTEGRATED PRIMARY ABLUTION BLOCK

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| **WAJIR CATHOLIC INTEGRATED PRIMARY ABLUTION BLOCK** | | | | | |
| **5** | **DOORS** | | | | |
| | **The following in wrot graded cedar** | | | | |
| A | 100mm x 50mm frame with one labour and fixed to block wall with fish tailed metal (m.s) | 87 | LM | | |
| | **Shutter** | | | | |
| B | Solid core flush door; 800 x 2100 mm x 50 mm thick; hardwood lipping | 15 | NO | | |
| | **Ironmongery** | | | | |
| | **Supply and fix the following ironmongery with screws to match.** | | | | |
| C | 100mm brass butt hinges with matching screws. | 30 | No | | |
| D | 25mm x 3mm fish tailed metal cramps one end screwed to 50m | 30 | No | | |
| E | 300mm long steel aldrop(Pad bolt ) | 15 | No | | |
| G | 150mm Brass tower bolt | 15 | No | | |
| | **PAINT WORK** | | | | |
| | **Prepare and apply 3 coats of first grade clear wood varnish** | | | | |
| H | Surfacess not exceeding 300mm | 87 | LM | | |
| J | General surfaces | 29 | SM | | |
| | **TOTAL FOR DOORS; CARRIED TO SUMMARY** | | | | |

# WAJIR CATHOLIC INTEGRATED PRIMARY ABLUTION BLOCK

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| **WAJIR CATHOLIC INTEGRATED PRIMARY ABLUTION BLOCK** | | | | | |
| **6** | **ROOFING** | | | | |
| | **The following in second grade celcured cypress and all the necessary for assembling and hoisting to position as per roofing details.** | | | | |
| **A** | 75x50mm rafters. | 210 | LM | | |
| B | 50x50mm Purlins. | 80 | LM | | |
| | **ROOF COVERING** | | | | |
| C | 28gauge Pre-painted blue box profile roof covering nailed to Timber Purlins | 63 | SM | | |
| | **Eaves filling** | | | | |
| D | 200mm thick machine cut masonry block eaves and gable filling | 27 | LM | | |
| | **Wrot cypress** | | | | |
| E | 150x25mm fascia and bardge board | 23 | LM | | |
| | **Knot, prime,Stop and Prepare and apply three coats white brilliant gloss oil paint on-:** | | | | |
| F | Timber surfacs over 200 mm but not exceeding 300mm girth | 23 | LM | | |
| | **TOTAL FOR ROOFING; CARRIED TO SUMMARY** | | | | |

# WAJIR CATHOLIC INTEGRATED PRIMARY ABLUTION BLOCK

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| **WAJIR CATHOLIC INTEGRATED PRIMARY ABLUTION BLOCK** | | | | | |
| 7 | **FINISHES** | | | | |
| | **Floor finishes** | | | | |
| A | 40 mm thick cement:sand (1:4) screed; to receive non-slip ceramic floor tiles (m/s). | 32 | SM | | |
| B | 330 x 330 x 8 mm thick non-slip ceramic floor tiles approved by the project manager | 63 | SM | | |
| | **EXTERNAL WALL FINISHES** | | | | |
| C | Extra over dressed stone walling for neat recessed horizontal key in cement mortar (1:3) including black paint | 188 | SM | | |
| D | 12mm thick cement,sand render,with wood float finish | 8 | SM | | |
| E | Ditto rendered concrete surfaces | 2 | SM | | |
| | **Painting and decoration** | | | | |
| | **Prepare and apply one undercoat and two finishing coats of exterior quality plastic cream emulsion paint on :-** | | | | |
| F | Rendered wall surfaces | 3 | SM | | |
| G | Rendered concrete surfaces | 5 | SM | | |
| | **INTERNAL WALL FINISHES** | | | | |
| | **Internal walls** | | | | |
| H | 12mm thick cement,sand and lime plaster,with steel trowelled | 55 | SM | | |
| | **Painting and decoration** | | | | |
| J | Prepare and apply one undercoat and two finishing coats first quality soft white plastic emulsion paint ditto. | 38 | SM | | |
| K | Prepare and apply one finishing coat first quality gloss cream | 15 | SM | | |
| | **Wall tiles** | | | | |
| L | 150 x 150 x 6 mm coloured ceramic wall fixed to walls with and including cement:sand (1:4) backing finished with coloured cement at joints to match | 98 | SM | | |
| | **Copping stone** | | | | |
| M | Mass concrete copping stone mix (1:3) twice weathered and throated on top of screen wall | 16 | LM | | |
| | **TOTAL FOR FINISHES CARRIED TO SUMMARY** | | | | |

# WAJIR CATHOLIC INTEGRATED PRIMARY ABLUTION BLOCK

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| | **WAJIR CATHOLIC INTEGRATED PRIMARY ABLUTION BLOCK** | | | | |
| **8** | **PLUMBING AND DRAINAGE**<br>**Builders Work in Connection with Sanitary Fittings**<br><br>**Allow for cutting and leaving all necessary holes, notches, mortices, sinking's and chases both in the structure and its finishes and for all making good in connection with the following (All Provisional): -**<br><br>**WATER CLOSET (WC** | | | | |
| A | General purpose White vitreous china squatting type WC suite comprising of Floor plate in enamelled clay with integral foot treads complete with cistern and all accessories | 10 | NO | | |
| | **TOTAL FOR PLUMBING AND DRAINAGE; CARRIED TO SUMMARY** | | | | |

# WAJIR CATHOLIC INTEGRATED PRIMARY ABLUTION BLOCK

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| | **WAJIR CATHOLIC INTEGRATED PRIMARY ABLUTION BLOCK** | | | | |
| | **SUMMARY** | | PAGE | | |
| 1 | SUBSTRUCTURE | | **3** | | |
| 2 | REINFORCED CONCRETE SUPERSTRUCTURE | | **4** | | |
| 3 | WALLING | | **5** | | |
| 5 | DOORS | | **7** | | |
| 6 | ROOFING | | **8** | | |
| 7 | FINISHES | | **9** | | |
| 8 | PLUMBING AND DRAINAGE | | **10** | | |
| | **TOTAL FOR PROPOSED ABLUTION BLOCK AT GARISA AND CATHOLIC INTERGRATED PRIMARY SCHOOL; CARRIED TO GRAND SUMMARY** | | | | |

# PLUMBING INSTALLATIONS AT CATHOLIC INTERGRATED PRIMARY SCHOOL IN WAJIR COUNTY

**PLUMBING INSTALLATIONS**

| Item | Description | Qty | Unit | Rate (Kshs) | Cost (Kshs) |
|---|---|---|---|---|---|
| | **PLUMBING**<br>Supply, deliver, install, test and commission the following sanitary appliances complete with all the accessories including all connections to the services, waste, jointing to water supply overflows, supports and all plugging and screwing to walls and floors. | | | | |
| A | **Water Closet (WC)**<br>Squatting type WC pan in approved colour, complete with integral footrests and outlet connection (to BS 3402 or equivalent standards), provided with a suitable flushing system (flush valve or cistern), plastic flush bend, and inlet connection. To be as Duravit or equivalent approved make, suitable for squatting use. | 10 | No. | | |
| B | **WC Connector**<br>100mm diameter WC connector | 2 | No. | | |
| C | **Manhole**<br>Double sealed Access cover 600 x 450mm comprising: | 2 | No. | | |
| D | **Floor Traps**<br>100Ø, 100 x 50 x 40 mm diameter 4-way Light Grey floor trap complete with stainless steel grating and cover. | 2 | No. | | |
| E | **Gutter**<br>150mm Diameter uPVC gutter fixed to fascia board (m.s.) with heavy duty uPVC brackets at 1000 mm centers all to approval | 32 | Lm | | |
| F | Extra over gutter for stopped ends. | 4 | No. | | |
| G | Ditto for rainwater outlets with nozzle for 100mm | 4 | No. | | |
| H | 100mm uPVC diameter rainwater down pipe connected to water tank including all necessary accessories. | 12 | Lm | | |
| J | Supply, deliever and install vertical close end plastic moulded tank of capacity 10,000 litre size 2400 diameter x 2800mm high. The tank to be assembled complet with cover and having screwed connections for inlet, outlet and overflow, 32mm medium pressure ball valve, drain pipes and any other necessary item for its proper functioning. The tank shall be mounted on a flat platform slab and shall be as ROTO model or equal and approved. | 1 | No | | |
| | **Total Cost for plumbing installation Works Carried Forward to Summary Page** | | | | |

# DRAINAGE WORKS AT CATHOLIC INTERGRATED PRIMARY SCHOOL IN WAJIR COUNTY

## BILL OF QUANTITIES FOR DRAINAGE WORKS

| ITEM | DESCRIPTION | UNIT | QTY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | **EXTERNAL COMPONENTS** | | | | |
| | | | | | |
| | **Drainage External Channels** | | | | |
| A | Excavate trench average depth 750 mm to receive upvc , return fill and ram surplus material. | CM | 2.75 | | |
| B | 150 mm diameter heavy duty upvc pipe in ground. | Lm | 13.00 | | |
| C | Mass concrete class 15 (1:3:6) | CM | 0.50 | | |
| | | | | | |
| | **18m$^3$ Biodigester** | | | | |
| | (Works to be undertaken by a specialist personnel) | | | | |
| A | Oversite excavation to reduce levels not exceeding 250mm deep from existing ground level, spread on site as directed, and cart away surplus. | CM | 3.98 | | |
| B | Excavate foundation 2.125 metres deep commencing from reduced level. | CM | 33.80 | | |
| C | Excavate hard rock 2.0 metres deep | CM | 31.81 | | |
| D | Backfill excavated foundation with approved materials | CM | 26.35 | | |
| H | 50mm thick blinding to foundation class 15 (1:3:6) | CM | 0.78 | | |
| I | Reinforced concrete class 20/20 (1:2:4) to Base foundation | CM | 2.39 | | |
| J | Reinforced concrete class 20/20 (1:2:4) to Dome structure | CM | 0.59 | | |
| K | Reinforced concrete class 20/20 (1:2:4) to Manholes base | CM | 0.29 | | |
| L | Cypres sawn formwork to Dome structure | SM | 3.00 | | |
| M | D12mm bars to base | KG | 34.00 | | |
| N | D10mm bars to dome structure | KG | 32.00 | | |
| | Natural quarry stone walling in cement and sand (1:3) mortar reinforced with and including 25 x 3mm thick hoop iron in every alternate course | | | | |
| H | 200mm thick masonry walling | SM | 4.00 | | |
| | Machine cut stone walling in cement and sand (1:3) mortar reinforced with and including 25 x 3mm thick hoop iron in every alternate course | | | | |
| I | 150mm thick machine cut stones @ manholes | SM | 1.00 | | |
| | | | | | |
| | **Total carried to next page for drainage and biodigester** | | | | |

# DRAINAGE AND BIODIGESTER AT CATHOLIC INTERGRATED PRIMARY SCHOOL

| ITEM | DESCRIPTION | UNIT | QTY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | **Total carried from the previous page for drainage and biodigester** | | | | |
| | **CONT'D FOR BIODIGESTER** | | | | |
| | **PIPING SYSTEM** | | | | |
| | Make good and attend in all trades on the plumber installing the following points, including cutting all chases and holes, notching and boxing timber etc. making good all finishes and leave clean to satisfaction of the R.E | | | | |
| A | 6" uPVC waste pipe (heavy duty) | LM | 4.00 | | |
| B | 6" $90^{o}$ bend | NO | 1.00 | | |
| C | 4" uPVC waste pipe(heavy duty) | LM | 2.00 | | |
| D | 4" Upvc bend | NO | 1.00 | | |
| E | 6" Tee | NO | 2.00 | | |
| | Square C.I manhole cover & frame(H.D) | | | | |
| F | 600x600mm | NO | 1.00 | | |
| G | 450x450mm | NO | 1.00 | | |
| | **SOAK PIT (2m width x 10m Length x 2.5m h)** | | | | |
| C | Excavate 2.25 metres deep commencing from reduced level and cart away | CM | 11.00 | | |
| G | Fill 1250mm hardcore boulders as shown in the drawings | CM | 5.00 | | |
| H | Perforated 1000g DPM | SM | 4.00 | | |
| I | Fill 1250mm red soil as shown in the drawings | CM | 4.00 | | |
| | | | | | |
| | **Total Element Drainage and biodigester Biodigester carried to Main Summary** | | | | |

# ELECTRICAL INSTALLATIONS AT CATHOLIC INTERGRATED PRIMARY SCHOOL IN WAJIR COUNTY

## ELECTRICAL INSTALLATIONS FOR CLASSROOMS AT CATHOLIC INTEGRATED PRIMARY SCHOOL IN WAJIR COUNTY

| ITEM | DESCRIPTION | UNIT | QTY | RATE | TOTAL |
|---|---|---|---|---|---|
| | **ELECTRICAL INSTALLATIONS** | | | | |
| | **Supply,install,test and commission the following:-** | | | | |
| | **LIGHTING POINTS** | | | | |
| | **Lighting points wired with 3 x 1.5mm² single core PVCI copper cables drawn in concealed 20mm diameter HG PVCI conduit for:-** | | | | |
| A | a) One way switching | No | 36 | | |
| | **SWITCHES** | | | | |
| | **10Amps,moulded plate flush mounted switches with screw covers,as CLIPSAL,BG or approved equivalent being:-** | | | | |
| B | a) 1 gang 1 way | No | 4 | | |
| C | c) 2 gang 1 way | No | 2 | | |
| D | e) 3 gang 1 way | No | 4 | | |
| | **LIGHTING FITTINGS** | | | | |
| | **Lighting fittings complete with lamps and all other necessary accessories:-** | | | | |
| E | a) 1200, Standard LED T5 tube + fitting as METSEC or approved equivalent | No | 16 | | |
| F | b) 10W Flood light fitting LED | No | 9 | | |
| | **SUB-MAIN CIRCUIT** | | | | |
| G | Circuit comprising 5 x 6mm² SC PVCI copper cables drawn in concealed 25mm diameter HG PVC conduits from meter box to DB | lm | 11 | | |
| | **DISTRIBUTION BOARD** | | | | |
| H | 8-Ways ,100Amps , Flush mounted distribution board complete with 100Amps. Integral TPN isolator with hinged cover as MEM,CRABTREE or approved equivalent being:- | No | 1 | | |
| | **Mcbs for item 1.16 above being:-** | | | | |
| J | a)10Amps,SP | No | 4 | | |
| K | b)15Amps,SP | No | 1 | | |
| L | c)20Amps,SP | No | 1 | | |
| M | d)30Amps,SP | No | 1 | | |
| N | 80/6A TPN switch fuse (KMBG) as MEM or approved equivalent | No | 1 | | |
| O | Electrical Earthing comprising 6.0mm2 Single core copper cables drawn in H/G Conduits 1500mm by 15mm diameter copper electrode complete with clamp and pre - cast concrete inspection pit with cover | Item | | | |
| | **TOTAL FOR ELECTRICAL INSTALLATIONS CARRIED TO MAIN SUMMARY** | | | | |

# CONTIGENCIES FOR EDUCATIONAL AND WASH INFRASTRUCTURE AT CATHOLIC INTERGRATED PRIMARY SCHOOL IN WAJIR COUNTY

## CONTIGENCY AND PROVISIONAL SUMS

| ITEM | DESCRIPTION | UNIT | QTY | RATE | TOTAL |
|---|---|---|---|---|---|
| | **Anticipated Contigencies** | | | | |
| A | Price escalation: Variations in material costs (cement, steel, fuel) due to market fluctuations or inflation. | Item | 1 | 5,000.0 | 5,000.00 |
| | | | | | - |
| B | Quantity variations: Minor increases in quantities arising from site conditions or design refinements. | Item | 1 | 10,000.0 | 10,000.00 |
| | | | | | - |
| C | Design adjustments: Small modifications to drawings or specifications during implementation to address site realities. | Item | 1 | 30,000.0 | 30,000.00 |
| | | | | | - |
| D | Unforeseen ground conditions: Rock excavation, high water table, poor soils requiring stabilization, or additional foundation works. | Item | 1 | 5,000.0 | 5,000.00 |
| | | | | | - |
| | **PROVISIONAL SUMS** | | | | |
| A | Allow a provisional sum of kshs 100,000 for Installation of solar powered pumping system to the shallow well. | Item | 1 | 100,000.0 | 100,000.00 |
| | | | | | - |
| B | Allow a provisional sum of Kshs150,000 for Renovation of existing bathrooms and toilets in the dormitory for the visually impaired. | Item | 1 | 150,000.0 | 150,000.00 |
| | **TOTAL FOR CONTIGENCY COSTS AND PROVISIONAL SUMS** | | | | **300,000.00** |

# MAIN SUMMARY FOR CONSTRUCTION OF CLASSROOMS AND WASH INFRASTRUCTURE AT CATHOLIC INTERGRATED PRIMARY SCHOOL IN WAJIR COUNTY

**PROPOSED CONSTRUCTION OF CLASSROOMS AND WASH INFRASTRUCTURE AT CATHOLIC INTEGRATED PRIMARY & JUNIOR SCHOOL IN WAJIR COUNTY.**

## MAIN SUMMARY

| PAGE NO | | TOTALS (KES) |
|---|---|---|
| | | |
| CIPS/CLSS/09 | 4 NO. CLASSROOMS BLOCK | |
| | | |
| CIPS/PL/08 | 10 NO. PIT LATRINES BLOCK | |
| | | |
| CIPS/HWS/TOTAL | 20-POINT HAND WASHING STATIONS | |
| | | |
| CIPS/WDP | PIPELINE EXTENSIONS | |
| | | |
| CIPS/ICT/04 | RENOVATION AND EQUIPPING OF 1NO ICT CENTERS | |
| | | |
| CIPS/AB/10 | ABLUTION BLOCK | |
| | | |
| CIPS/PLM | PLUMBING | |
| | | |
| CIPS/DRNG/02 | DRAINAGE | |
| | | |
| CIPS/ELEC/TOTAL | ELECTRICAL INSTALLATIONS | |
| | | |
| CIPS/CONT | CONTIGENCIES AND PROVISIONAL SUMS | 300,000.00 |
| | | |
| | | |
| MAIN TOTAL FOR THE CATHOLIC INTERGRATED PRIMARY SCHOOL IN WAJIR COUNTY | | |

# CONSTRUCTION OF 4NO. CLASSROOMS AT GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY

**BILLS OF QUANTITIES FOR PROPOSED 4NO CLASSROOMS AT GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY**

| ITEM | DESCRIPTION | UNIT | QTY | RATE | TOTAL |
|---|---|---|---|---|---|
| | **PROPOSED 4No. CLASSROOMS** | | | | |
| | **ELEMENT NO. 1** | | | | |
| | **SUBSTRUCTURE** | | | | |
| | **PRELIMINARIES** | | | | |
| A | Excavate oversite average 150mm deep to remove top vegetable soil and spread on site as directed | sm | 364 | | |
| B | Excavate trenches for wall foundation commencing from reduced level but not exceeding 1.5m deep. | cm | 150 | | |
| C | Extra over all excavations for excavating in rock | cm | 50 | | |
| | **Planking and strutting** | | | | |
| D | Allow for all necessary earthwork support to sides of foundation trenches | Lm | 333 | | |
| | **Keeping excavations free of water** | | | | |
| E | Allow for all keeping excavations free of water and mud by pumping,bailing or other approved means. | Item | 1 | | |
| | **Fillings /Disposal** | | | | |
| F | Return,fill and ram selected imported murram material around foundation. | cm | 142 | | |
| G | Load, wheel and deposite surplus excavated material where directed by architect on site not exceeding 50m away. | cm | 8 | | |
| | **Hardcore fillings** | | | | |
| H | 300mm thick under floors compacted in 150mm layers. | cm | 110 | | |
| J | 50mm thick quarry dust blinding to surfaces of hardcore | sm | 364 | | |
| | **Anti - termite treatment** | | | | |
| K | Chemical anti- termite treatment executed complete by an approved specialist under a ten (10) year guarantee to the surfaces of blinded hardcore. | sm | 364 | | |
| | **Damp proof membrane** | | | | |
| L | 1000 gauge polythene or other equal and approved damp proof membrane laid under surface bed with 300mm side and end laps (measured net-allow for laps). | sm | 364 | | |
| | **Three ply bituminous felt damp proof courses bedded in cement sand mortar (1:3) measured seperately.** | | | | |
| M | 200mm wide horizontal layer. | Lm | 166 | | |
| | **Insitu Plain Concrete mix 1:3:6 in:** | | | | |
| N | 50mm thick concrete blinding under strip foundations | cm | 5 | | |
| | **Insitu vibrated reinforced concrete mix 1:2:4 in** | | | | |
| O | 200mm thick strip foundations | cm | 20 | | |
| P | 150mm thick floor beds | cm | 55 | | |
| | **Carried to Collection** | | | | |

**BILLS OF QUANTITIES FOR PROPOSED 4NO CLASSROOMS AT GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY**

| ITEM | DESCRIPTION | UNIT | QTY | RATE | TOTAL |
|---|---|---|---|---|---|
| | **REINFORCEMENT** | | | | |
| | **Mesh fabric reinforcement to BS 4483 and and setting in concrete with 300mm side and end laps(measured net allow for laps)** | | | | |
| A | Fabric mesh ref: A142 weighing 0.54Kg per square metre in floor bed and ramps. | sm | 364 | | |
| | **High yield square twisted reinforcement including cutting to lengths,bending,twisting and fixing ,including all necessary tying wires and spacing blocks to B.S. 4461:-** | | | | |
| B | 8mm longitudinal bars in strip foundation | Kg | 287 | | |
| C | 10mm cross(main) bars in strip foundation | kg | 326 | | |
| | **Sawn Formwork to:** | | | | |
| D | Edges of ground floor slab over 75mm but not exceeding 150mm high. | lm | 150 | | |
| | **Sub-wall** | | | | |
| | **Walling in natural coursed stone obtained from an approved quarry,jointed and beded in cement sand mortar (1:3)** | | | | |
| E | 200mm walls | sm | 80 | | |
| | **Plinths** | | | | |
| | **12mm cement sand (1:4) render:Steel trowelled on concrete or stonework to:-** | | | | |
| F | Masonry wall plinths | sm | 30 | | |
| | **Prepare and apply two coats bituminous paint on render to:-** | | | | |
| G | Rendered concrete or stone surfaces | sm | 35 | | |
| | Carried to collection below | | | | |
| | Collection | | | | |
| | **Brought forward from page 1** | | | | |
| | **Brought down from page 2 (Above)** | | | | |
| | **TOTAL FOR ELEMENT NO.1 SUBSTRUCTURE WORKS CARRIED TO CLASSROOMS SUMMARY** | | | | |

**BILLS OF QUANTITIES FOR PROPOSED 4NO CLASSROOMS AT GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY**

| ITEM | DESCRIPTION | UNIT | QTY | RATE | TOTAL |
|---|---|---|---|---|---|
| | **ELEMENT NO. 2**<br>**VIBRATED REINFORCED SUPERSTRUCTURE**<br>**Insitu vibrated reinforced concrete mix 1:2:4 grade 20 as described in :-** | | | | |
| A | Beams 300x200mm | cm | 8 | | |
| | **High yield square twisted reinforcement including cutting to lengths,bending,twisting and fixing ,including all necessary tying wires and spacing blocks to B.S. 4461:-** | | | | |
| B | 12mm bars in beams | Kg | 459 | | |
| | **Mild steel reinforcement to BS 4449** | | | | |
| C | 8mm diameter bars in beams | Kg | 174 | | |
| | **Formwork** | | | | |
| | **Sawn softwood formwork to in-situ concrete as described:-** | | | | |
| D | Vertical sides and soffites of beams | sm | 75 | | |
| | **STEEL COLUMNS**<br>**Mild steel including grinding all welds smooth and painting with red oxide primer before delivery to site** | | | | |
| E | 75mm Diameter Circular Hollow Section (C.H.S)mild steel column 3000mm long; one end built into concrete base and the other welded onto mild steel U-shaped holder batts(m.s) | No | 14 | | |
| F | Extra Over above described for provision and welding of 100 x 75 mm U-shaped holder batt, twice drilled for 12 mm diameter bolt, to top end of CHS column to receive wall plate (m.s) | No | 14 | | |
| | **TOTAL ELEMENT NO.2 VIBRATED REINFORCED CONCRETE SUPERSTRUCTURES CARRIED TO CLASSROOMS SUMMARY** | | | | |

| ITEM | DESCRIPTION | UNIT | QTY | RATE | TOTAL |
|---|---|---|---|---|---|
| | **ELEMENT No.3**<br>**WALLING SUPERSTRUCTURE**<br>**Machine cut walling** | | | | |
| A | 200mm thick machine cut coral block walling bedded and jointed in cement and sand mortar mix 1:3 with 20mm wide hoop iron reinforcement at every alternate course | sm | 342 | | |
| | **Plinths**<br>**12mm cement sand (1:4) render:Steel trowelled on concrete or stonework to:-** | | | | |
| B | Masonry wall plinths | sm | 15 | | |
| | **TOTAL ELEMENT NO.3 WALLING SUPERSTRUCTURE CARRIED TO SUMMARY** | | | | |
| | | | | | |

**BILLS OF QUANTITIES FOR PROPOSED 4NO CLASSROOMS AT GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY**

| ITEM | DESCRIPTION | UNIT | QTY | RATE | TOTAL |
|---|---|---|---|---|---|
| | **ELEMENT NO. 4** | | | | |
| | **ROOFING** | | | | |
| | **Mild Steel Trusses including hoisting and fixing in position 3200mm above ground floor; Diagonal bracing in the roof plane using tension rods (Ø12 mm). Cross-bracing between trusses for lateral stability.** | | | | |
| | **Note: The rate should include painting the steel members with one primer coat and two finishing coats of gloss oil paint** | | | | |
| A | SHS 50x50x2mm mild steel ; External members Top & Bottom Chord(Rafters and Joists) | lm | 290 | | |
| B | SHS 40x40X2 mm; Internal members (Struts ,Ties & Purlins ) | lm | 563 | | |
| C | 30 x 30 x 2mm Thick SHS diagonal bracing in roof plane and/or vertical plane between trusses | lm | 168 | | |
| D | 12 mm diameter x175mm long J-bolt anchored into concrete | No | 112 | | |
| E | 100 x 50 mm wall plate to verandah secured with 100mm diameter steel CHS columns and including 12 mm diameter mild steel bolt 150 mm long. | lm | 38 | | |
| | **ROOF COVERING** | | | | |
| | **28 Gauge Prepainted IT5 box profile resincot roofing sheet fixed with and including nails, cups and washers on purlins (as MRM Ltd)** | | | | |
| G | 28gauge box profile prepainted blue roof covering nailed to Timber Purlins | sm | 450 | | |
| H | Matching ridge caps | lm | 39 | | |
| | **Eaves filling** | | | | |
| I | 200mm thick machine cut coral block eaves and gable filling | lm | 73 | | |
| | **WROT CYPRESS** | | | | |
| J | 225x25mm fascia and bardge board | lm | 112 | | |
| | **Painting** | | | | |
| K | Timber surfaces over 200 mm but not exceeding 300mm girth | lm | 112 | | |
| | **RAIN WATER GOODS** | | | | |
| L | 150mm Diameter uPVC gutter fixed to fascia board (m.s.) with heavy duty uPVC brackets at 1000 mm centers all to approval | lm | 78 | | |
| M | Extra over gutter for stopped ends. | No | 8 | | |
| N | Ditto for rainwater outlets with nozzle for 100mm rainwater down pipe outlet. | No | 8 | | |
| O | 100mm uPVC diameter rainwater down pipe connected to drop outlet and all necessary accessories. | lm | 25 | | |
| | **TOTAL ELEMENT NO.4 ROOFING WORKS CARRIED TO SUMMARY** | | | | |

**BILLS OF QUANTITIES FOR PROPOSED 4NO CLASSROOMS AT GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY**

| ITEM | DESCRIPTION | UNIT | QTY | RATE | TOTAL |
|---|---|---|---|---|---|
| | **ELEMENT No. 5** | | | | |
| | **DOORS** | | | | |
| | **Mild steel panel doors; 75x50x3mm thick frame plugged to concrete or masonry block work with 100mm long fish tail 25x25x2mm thick angle section, angles cut, mitred and welded; 16 gauge plain sheet filling, one coat manufacturer's primer complete with all necessary iron mongery; all welds ground to smooth finish** | | | | |
| A | Double un-equal leaf door size 1200mm wide x 2100mm high overal (D1) | No | 4 | | |
| | **Glazing.** | | | | |
| B | 5mm thick clear sheet glass and glazing fixed with metal putty and silicone to metal doors | Sm | 2 | | |
| | **PAINTING AND DECORATION** | | | | |
| C | Prepare and apply three coats first quality super gloss oil paint | Sm | 10 | | |
| | **TOTAL FOR ELEMENT NO.5 DOORS CARRIED TO SUMMARY** | | | | |

**BILLS OF QUANTITIES FOR PROPOSED 4NO CLASSROOMS AT GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY**

| ITEM | DESCRIPTION | UNIT | QTY | RATE | TOTAL |
|---|---|---|---|---|---|
| | | | | | |
| | **ELEMENT NO.6** | | | | |
| | **WINDOWS** | | | | |
| | **Supply, assemble and fix the following purpose-made mild steel casement windows; standard metal section from approved manufacturer complete with frames, transomes, mullions and with and including permanent ventilators comprising "T" bar, gauze and 16 gauge sheet metal hood 50mm high x 50mm projection to full width of window, coupling mullions, approved ironmongery and one coat manufacturer's primer; all welding ground to smooth finish.** | | | | |
| A | Steel casement window size 1200x1500mm with 20 No. equal panels with 2No. Side hangs and inbuilt permanent ventilation | No | 20 | | |
| | **Glazing.** | | | | |
| B | 5mm thick clear sheet glass and glazing fixed with metal putty and silicone to steel windows with silicon and putty | Sm | 36 | | |
| | **Window cill**<br>**Precast or in situ concrete (1:2:4) complete with reinforcement, formwork, hoisting and bedding in cement sand mortar (1:3)** | | | | |
| C | Window cill; 250x50mm thick, weathered and throated; fairfaced | Lm | 152 | | |
| | **Painting**<br>**Prepare and apply three coats first quality super gloss oil paint to:-** | | | | |
| D | Surfaces of steel windows both sides measured | Sm | 36 | | |
| | **TOTAL FOR ELEMENT NO 6 WINDOWS CARRIED TO SUMMARY.** | | | | |

**BILLS OF QUANTITIES FOR PROPOSED 4NO CLASSROOMS AT GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY**

| ITEM | DESCRIPTION | UNIT | QTY | RATE | TOTAL |
|---|---|---|---|---|---|
| | **ELEMENT NO. 7** | | | | |
| | **FINISHES** | | | | |
| | **FLOOR FINISHES** | | | | |
| | **Floors and Skirting.Note: Tilework involves adhesive,grout and spacers** | | | | |
| A | 40mm thick Cement Sand (1:3) to receive floor tiles (m/s) | sm | 364 | | |
| B | 330 X 330 X 8mm thick ceramic floor tiles | sm | 364 | | |
| C | Ditto 150mm skirting | lm | 130 | | |
| | **EXTERNAL WALL FINISHES** | | | | |
| | **External walls** | | | | |
| D | Extra over dressed stone walling for neat recessed horizontal key in cement mortar (1:3) | sm | 242 | | |
| E | 12mm thick cement,sand render,with wood float finish to masonry walling and concrete surfaces | sm | 96 | | |
| | **Painting and decoration** | | | | |
| | **Prepare and apply one undercoat and two finishing coats of exterior quality plastic cream emulsion paint on :-** | | | | |
| F | Rendered masonry wall and concrete surfaces | sm | 96 | | |
| | **Touch up primer, prepare and apply one undercoat and Two finishing coats first quality black gloss oil pain to metalwork** | | | | |
| G | General surfaces of mild steel 75-150mmgirth(Circular hollow section column sand holder batts ) | lm | 64 | | |
| | **INTERNAL WALL FINISHES** | | | | |
| | **Internal walls** | | | | |
| H | 12mm thick cement,sand and lime plaster,with steel trowelled finish. | sm | 448 | | |
| | **Painting and decoration** | | | | |
| J | Prepare and apply one undercoat and two finishing coats first quality soft white plastic emulsion paint ditto. | sm | 448 | | |
| | **Chalk board** | | | | |
| K | 40mm thick Cement sand mix 1:3 wiremesh reinforced Chalkboard size 1200mm high x 6000mm long with chalk rail placed at a height of 1000mm above floor slab finished with 3 coats of black paint | No | 4 | | |
| | **TOTAL ELEMENT No. 7 : FINISHES CARRIED TO SUMMARY** | | | | |

**BILLS OF QUANTITIES FOR PROPOSED 4NO CLASSROOMS AT GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY**

| ITEM | DESCRIPTION | UNIT | QTY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | **ELEMENT NO. 08: PRIME COST AND PROVISIONAL SUMS** | | | | |
| A | **ELECTRICAL INSTALLATIONS**<br>Allow for a provisional sum of One Hundred and fifty thousand shillings only for electrical installations | SUM | | | |
| | | | | | |

**BILLS OF QUANTITIES FOR PROPOSED 4NO CLASSROOMS AT GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY**

| ITEM | DESCRIPTION | PAGE No | AMOUNT |
|---|---|---|---|
| | **4NO. CLASSROOMS BLOCK AT GARISSA SCHOOL FOR THE DEAF** | | |
| | **SUMMARY** | | |
| 1 | SUBSTRUCTURE WORKS | GSFD/CLSS-2 | |
| 2 | VIBRATED REINFORCED CONCRETE SUPERSTRUCTURE | GSFD/CLSS-3 | |
| 3 | WALLING SUPERSTRUCTURE | GSFD/CLSS-3 | |
| 4 | ROOFING | GSFD/CLSS-4 | |
| 5 | DOORS | GSFD/CLSS-5 | |
| 6 | WINDOWS | GSFD/CLSS-6 | |
| 7 | FINISHES | GSFD/CLSS-7 | |
| 8 | PRIME COST AND PROVISIONAL SUMS | GSFD/CLSS/PC-8 | |
| | **TOTAL FOR THE 4NO CLASSROOMS CARRIED TO GARISSA SCHOOL FOR THE DEAF MAIN SUMMARY** | | |

# RENOVATION AND EQUIPPING OF AN ICT CENTER AT GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY

# RENOVATION AND EQUIPPING OF AN ICT CENTER AT GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY

| ITEM | DESCRIPTION | UNIT | QTY | RATE (KShs) | AMOUNT (KShs) |
|---|---|---|---|---|---|
| **1** | **DEMOLITIONS, ALTERATIONS AND PREPARATIONS** | | | | |
| A | Carefully hack the existing floor and dispose of debris on site as directed by the project manager | Sm | 48 | | |
| B | Clean off the soffits of roof including eaves and make good dilapidated timber.Remove and replace all severely damaged timber roof members with new treated timber of similar size and profile, including proper jointing and fixing. Clean, treat, and repair all termite-damaged but salvageable timber elements using approved wood preservative and | Ls | 1 | | |
| C | Carefully remove existing door leaf and frame, including cutting or hacking surrounding masonry as necessary, removing all fittings and debris, making good all disturbed surfaces, and preparing the opening to receive a new door. | No | 1 | | |
| D | Carefully rake out cracks in walls and floors to the required depth and width using hand tools, in preparation for repair works. Repair all vertical, horizontal, and floor cracks by anchoring with D8 mild steel bars, including cutting chase, placing and anchoring bars with approved non-shrink grout or epoxy resin, and making good all disturbed surfaces. | Lm | 21 | | |
| E | Scrape off all loose, flaking or peeling paint, and surface dust from internal and external walls using stiff wire brushes and scrapers, to expose a clean, sound surface suitable for new painting. (m/s) | Sm | 72 | | |
| F | Cart away demolition debris to approved dumping site | Item | 1 | | |
| | **SUB-TOTAL CARRIED FORWARD TO SUMMARY PAGE** | | | | |

# RENOVATION AND EQUIPPING OF AN ICT CENTER AT GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY

| ITEM | DESCRIPTION | UNIT | QTY | RATE (KShs) | AMOUNT (KShs) |
|---|---|---|---|---|---|
| | **FINISHES** | | | | |
| **2** | **PLASTERING AND WALL FINISHES** | | | | |
| A | Internal cement sand plaster 15mm thick to hacked walls | Sm | 72 | | |
| B | Apply primer coat to walls | Sm | 72 | | |
| C | Apply three coats emulsion paint to internal walls | Sm | 72 | | |
| **3** | **FLOOR FINISHES** | | | | |
| A | Cement: Sand (1:4) Screed: 40 mm thick cement: sand (1:4) screed; to receive tiles | Sm | 48 | | |
| B | Supply and lay 300 X 300 X 8mm thick Ceramic floor tiles of approved color and shade with grouting ; matching colored cement. | Sm | 48 | | |
| C | Skirting: Supply and fix matching skirting tiles (100 mm high) | Lm | 26 | | |
| **4** | **CEILING WORKS** | | | | |
| A | Timber brandering 50x50mm treated softwood fixed to roof structure | Sm | 48 | | |
| B | Supply and install gypsum ceiling boards including jointing and finishing | Sm | 48 | | |
| C | Cornice moulding to perimeter | Lm | 26 | | |
| D | Prepare and apply three coats ceiling paint | Sm | 48 | | |
| **5** | **WINDOWS** | | | | |
| A | Supply and install large aluminum framed windows with clear glass to new openings | Sm | 8 | | |
| B | Supply and install burlar proofing bars(grille) for security | Sm | 8 | | |
| **6** | **Doors** | | | | |
| | **Mild steel panel doors; 75x50x3mm thick frame plugged to concrete or masonry block work with 100mm long fish tail 25x25x2mm thick angle section, angles cut, mitred and welded; 16 gauge plain sheet filling, one coat manufacturer's primer complete with all necessary iron mongery; all welds ground to smooth finish** | | | | |
| | Single leaf steel door size 1200mm wide x 2100mm high overal | No | 1 | | |
| | **SUB-TOTAL CARRIED FORWARD TO SUMMARY PAGE** | | | | |

# RENOVATION AND EQUIPPING OF AN ICT CENTER AT GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY

| ITEM | DESCRIPTION | UNIT | QTY | RATE (KShs) | AMOUNT (KShs) |
|---|---|---|---|---|---|
| **6** | **FURNITURE AND COMPUTER EQUIPMENT** | | | | |
| A | Desktop computers (Core i7 or equivalent, 16GB RAM, 512GB SSD, 8th Generation, 3.7GHz, 6 Cores, 12 Threads, Full Set with 24-Inch Monitor, keyboard, mouse) Such as DELL or HP | No | 10 | | |
| B | HP ProBook 440 G11 Teacher/Administrator computer/ laptop | No | 1 | | |
| | **NETWORKING INFRASTRUCTURE** | | | | |
| C | Supply and installation of Airtel 5G router for wireless connection with necessary accessories | Item | 1 | | |
| | **POWER AND BACKUP** | | | | |
| D | UPS units (650–850VA) for computer stations | No | 10 | | |
| E | Electrical wiring and socket outlets for computer lab | Item | 1 | | |
| F | Power extension sockets and surge protectors | No | 10 | | |
| | **ICT LAB FURNITURE** | | | | |
| G | Customized Computer desks (double workstation desks) | No | 5 | | |
| H | Ergonomic student computer lab/library chairs | No | 10 | | |
| J | 1.2m MDF office desk feature a compact 120cm x 60cm layout, a scratch-resistant laminated finish, and integrated lockable storage. | No | 1 | | |
| K | Instructor High Back Office Chair | No | 1 | | |
| L | 4 drawer metallic storage cabinet with lock bar | No | 1 | | |
| | **SUB-TOTAL CARRIED FORWARD TO SUMMARY PAGE** | | | | |

# RENOVATION AND EQUIPPING OF AN ICT CENTER AT GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY

| ITEM | DESCRIPTION | UNIT | QTY | RATE (KShs) | AMOUNT (KShs) |
|---|---|---|---|---|---|
| | **ICT CENTER RENOVATION SUMMARY PAGE** | | | | |
| 1 | DEMOLITIONS, ALTERATIONS AND PREPARATIONS | | | | |
| 2 | FINISHES | | | | |
| 3 | FURNITURE AND COMPUTER EQUIPMENT | | | | |
| | **TOTAL FOR THE RENOVATION AND EQUIPPING OF AN ICT CENTER CARRIED TO GARISSA SCHOOL FOR THE DEAF MAIN SUMMARY** | | | | |

# CONSTRUCTION OF A 6M-HIGH STEEL ELEVATED TANK TOWER AT GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY

# PROPOSED 6M HIGH ELEVATED STEEL TANK TOWER AT GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY

| ITEM | DESCRIPTION | QUANTITY | UNIT | RATE (KES) | AMOUNT (KES) |
|---|---|---|---|---|---|
| | | | | | |
| | **WATER TANK TOWER** | | | | |
| | | | | | |
| | **Substructure** | | | | |
| | *Excavation* | | | | |
| A | Clear the site of shrubs and all debris; remove from site as directed | 10 | $m^2$ | | |
| B | Excavate to remove loose top soil not exceeding 0.3 meters deep and cart away as directed | 3 | $m^3$ | | |
| C | Excavate for column bases starting from ground level not exceeding 1.50 meters deep and cart away as directed | 10 | $m^3$ | | |
| | | | | | |
| | *Backfilling* | | | | |
| D | Return, fill in and ram selected excavated material around foundations | 7 | $m^3$ | | |
| | *Disposal of Surplus spoils* | | | | |
| E | Load and cart away surplus material from site to an approved dumping site | 3 | $m^3$ | | |
| | *Concrete work in substructure* | | | | |
| | *Plain concrete class 15 (mix 1:3:6)* | | | | |
| F | 50mm Thick under column bases | 7 | $m^2$ | | |
| | *Insitu concrete class 25, vibrated and reinforced as described, in:-* | | | | |
| G | Ground beam | 0.5 | $m^3$ | | |
| | | | | | |
| H | Column bases | 2 | $m^3$ | | |
| | | | | | |
| J | Columns in foundations | 1 | $m^3$ | | |
| | | | | | |
| | *Mild steel bars to B.S. 4449 including cutting, bending and all necessary spacer blocks* | | | | |
| | | | | | |
| K | 6mm diameter bars | 11 | kg | | |
| | | | | | |
| | *High tensile steel reinforcement to B.S. 4461 in structural concrete work including cutting, bending, hoisting, fixing, tying wire and spacing blocks* | | | | |
| L | 8mm diameter bars | 142 | kg | | |
| | | | | | |
| M | 12mm diameter bars | 285 | kg | | |
| | | | | | |
| N | 16mm diameter bars | 44 | kg | | |
| | *Sawn formwork to:-* | | | | |
| P | Vertical sides of ground beam | 5 | $m^2$ | | |
| | | | | | |
| Q | Vertical sides of column bases | 7 | $m^2$ | | |
| | | | | | |
| R | Vertical sides of column in foundations | 8 | $m^2$ | | |
| | **Total carried forward to the next page** | | | | |

| ITEM | DESCRIPTION | QUANTITY | UNIT | RATE (KES) | AMOUNT (KES) |
|---|---|---|---|---|---|
| | **Total brought forward from previous page** | | | | |
| | **Frame** | | | | |
| | *Structural steelwork grade 4.3C (factory primed).* | | | | |
| | *Unframed mild steel including hoisting and fixing in position and including drilling holes, all necessary welding, bolts plates/gusset plates and other jointing whether or not specifically described herein or shown on the drawing and with one coat of red oxide primer after erection.(see the drawings)* | | | | |
| S | 100 x 100 x 3mm Square hollow section stanchions /columns fixed 600mm into concrete sub columns using 4.No 520mm long - bolts with washes ,nuts and lock nuts at every column base | 29 | m | | |
| T | 300x300x12mm Base plate comprising 4no.20mm diameter pre-drilled holes | 4 | Nr | | |
| U | 300x300x10mm Top plate comprising 4no.18mm diameter pre-drilled holes | 8 | Nr | | |
| V | 4/100x100x10mm Stiffener plate welded to base/top plates and column as per details. | 32 | Nr | | |
| W | 60x60x5mm Angle section bracings bolted to gusset plates(m.s.) and at each intersection; including necessary drilling holes welding/bolts and washers | 88 | m | | |
| X | 340x190x5mm Gusset plate welded to Square hollow section columns(m.s.) comprising of 6no. 14mm diameter holes to receive 6no.12mm diameter bolts | 16 | Nr | | |
| Y | 250x160x5mm Gusset plate ditto | 16 | Nr | | |
| Z | 100x100x5mm SHS main beams section fixed to top base plate including necessary drilling holes ,welding/bolts and washers | 7 | m | | |
| AA | 70x70x5mm SHS secondary beams at 600mm c/c section welded on top of main beam(m.s.) including necessary drilling holes ,welding/bolts and washers | 20 | m | | |
| BB | 4mm Thick chequered metal sheet welded on top of secondary beams | 11 | $m^2$ | | |
| | | | | | |
| | **Handrail/balustrading** | | | | |
| | *Structural steelwork grade 4.3C (factory primed) to be executed by an approved sub-contractor.* | | | | |
| | *Unframed mild steel including hoisting and fixing in position and including drilling holes, all necessary welding, bolts plates/gusset plates and other jointing whether or not specifically described herein or shown on the drawing and with one coat of red oxide primer after erection.(see the drawings)* | | | | |
| CC | 40mm Diameter class B pipes as top handrail and intermediate welded to steel balusters(m.s.) including drilling all holes and all bolts for connection included. | 13 | m | | |
| DD | 40mmDiameter class B pipes 900mm long as balusters at 600mm c/c including drilling all holes and all bolts for connection included. | 22 | m | | |
| | **Total carried forward to the next page** | | | | |

# PROPOSED 6M HIGH ELEVATED STEEL TANK TOWER AT GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY

| ITEM | DESCRIPTION | QUANTITY | UNIT | RATE (KES) | AMOUNT (KES) |
|---|---|---|---|---|---|
| | **Total brought forward from previous page** | | | | |
| | **Cat Ladder** | | | | |
| | *Structural steelwork grade 4.3C (factory primed) to be executed by an approved sub-contractor.* | | | | |
| | *Unframed mild steel including hoisting and fixing in position and including drilling holes, all necessary welding, bolts plates/gusset plates and other jointing whether or not specifically described herein or shown on the drawing and with one coat of red oxide primer after erection.(see the drawings)* | | | | |
| EE | 100mm thick mass concrete slab a described including all necessary formwork | 0.5 | $m^3$ | | |
| | | | | | |
| FF | Supply and install an access ladder comprising of 20 mm diameter rung, welded to 50x6mm flat stingers at 250mm centres; overall 6376 mm length, with 50x6mm thick galvanized mild steel flat to form spacer built into wall and welded to 50x50x4mmx75mm long angle bracket at 1000mm centres; the bottom part of the cart ladder is welded to 6mm thick galvanized mild steel plate which is M16 m.s. rawl bolted to concrete slab; steel work to be anodized and painted to withstand the prevailing climate; all other bolts and accessories to be included: all to details | 1 | Nr | | |
| GG | Supply and install safety cage comprising of 20 mm diameter horizontal straps at 250mm centres welded/bolted to 50x6mm m.s. flats stringers; 50x6mm vertical straps welded to horizontal straps, overall 6376mm high. Steel work to anodized and painted to withstand the prevailing climate ;all other bolts and accessories to be included. | 1 | Nr | | |
| | **Finishes** | | | | |
| | | | | | |
| | *Painting* | | | | |
| | | | | | |
| | *Prepare and apply red lead undercoat and three coats of gloss oil paint to: -* | | | | |
| | | | | | |
| HH | General metal surfaces | 5 | m2 | | |
| JJ | Supply and install a 10,000 litres water storage tank | 1 | Item | | |
| | **TOTAL FOR 1NO. 6M HIGH WATER TANK TOWER CARRIED TO GARISSA SCHOOL FOR THE DEAF MAIN SUMMARY** | | | | |

# CONSTRUCTION OF 2-DOOR PIT LATRINE BLOCK FOR TEACHERS AT GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY

# PROPOSED PIT LATRINES AT GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY

| ITEM | DESCRIPTION | UNIT | QTY | RATE | TOTAL |
|---|---|---|---|---|---|
| | **BILLS OF QUANTITIES FOR PROPOSED 1-DOOR PIT LATRINE BLOCK** | | | | |
| | **ELEMENT NO. 1** | | | | |
| | **SUBSTRUCTURE** | | | | |
| | **(ALL PROVISIONAL)** | | | | |
| | This element consists of all works upto and including the floor surface bed. | | | | |
| | **Site clearance** | | | | |
| A. | Clear site of shrubs,grass,small trees girth not exceeding 600mm and grub roots and remove from site as directed. | sm | 6 | | |
| | **Excavations and earth works** | | | | |
| B | Excavate vegetable soil,shrubs and undergrowth grub there roots and burn the uprising(average 200mm deep) | sm | 6 | | |
| C | Excavate for strip foundation starting from strip level depth not exceeding 1.5m deep. | cm | 3 | | |
| D | Excavation to pit latrine 1500mmx2500mm wide depth not exceeding 1.5m deep. | cm | 3 | | |
| E | Ditto but from 1.5m but not exceeding 3.0m deep. | cm | 3 | | |
| F | Ditto but from 3.0m but not exceeding 4.5m deep. | cm | 3 | | |
| G | Ditto but from 4.5m but not exceeding 6.0m deep. | cm | 3 | | |
| H | Return fill and rum selected excavated material. | cm | 8 | | |
| I | Cart away surplus excavated material on site not more than 20m away | cm | 11 | | |
| | **Planking and strutting** | | | | |
| J | Allow for plunking and strutting | item | | | |
| | **Disposal of water** | | | | |
| K | Allow for keeping excavations free from water. | item | | | |
| | **Hardcore fillings** | | | | |
| L | Approved hardcore fill 300mm thick ,well watered and compacted to receive murram blinding(m.s) | Cm | 1 | | |
| | **Quarry dust/murram blinding** | | | | |
| M | Approved 50mm thick murram blinding. | Sm | 2 | | |
| | **Anti - termite treatment** | | | | |
| N | Gladiator T.C.L or any other equal and approved chemical anti-termite treatment to sub soil or filling | sm | 3.5 | | |
| | **Insitu Plain Concrete mix 1:3:6 in:** | | | | |
| O | 50mm thick concrete blinding under strip foundations | sm | 3.5 | | |
| | **Insitu vibrated reinforced concrete mix 1:2:4 in** | | | | |
| P | 200mm thick strip foundations | cm | 0.25 | | |
| Q | 200mm x 200mm thick in floor beams | cm | 0.25 | | |
| R | 150mm thick in suspended floor beds | sm | 3.5 | | |
| | **Carried to Collection** | | | | |

| ITEM | DESCRIPTION | UNIT | QTY | RATE | TOTAL |
|---|---|---|---|---|---|
| | **substructure works continued:-** | | | | |
| | **High yield square twisted reinforcement including cutting to lengths,bending,twisting and fixing ,including all necessary tying wires and spacing blocks to B.S. 4461:-** | | | | |
| A | 8mm longitudinal bars in strip foundation | Kg | 5 | | |
| B | 10mm cross(main) bars ditto | Kg | 9 | | |
| C | 12mm bars as main bars in suspended floors and beams | Kg | 21 | | |
| D | 10mm bars as main bars in suspended floors | Kg | 11 | | |
| | **Mild steel reinforcement to BS 4449** | | | | |
| E | 8mm diameter bars as links to floor beams | Kg | 21 | | |
| | **Mesh fabric reinforcement to BS 4483:Square mesh reference A142:weighing 2.22kilogrammes per square metre** | | | | |
| F | In bebs 200mm laps | sm | 1 | | |
| | **Formwork to:** | | | | |
| G | Vertical sides of strip foundations | sm | 1.5 | | |
| H | Soffits and sides of floor beams and slabs exceeding 3.0m high | sm | 3.5 | | |
| I | Vertical edges of beds over 75mm but not exceeding 150mm wide. | lm | 5 | | |
| | **Hand cut natural stones beded in cement sand mortar (1:3) including hoop iron in every alternate course** | | | | |
| J | 200mm walls | sm | 6 | | |
| | **Bituminous felt damp proof courses bedded in cement sand mortar (1:4) :300mm laps:-** | | | | |
| K | 200mm wide horizontal | lm | 5.5 | | |
| | **12mm cement sand (1:4) render:Steel trowelled on concrete or stonework to** | | | | |
| L | Plinths | sm | 4 | | |
| | **Prepare and apply two coats bituminous paint on render to:-** | | | | |
| M | Plinth | sm | 4 | | |
| | **Carried to Collection below** | | | | |
| | **Collection** | | | | |
| | **Brought forward from page 1** | | | | |
| | **Brought down from page 2 (Above)** | | | | |
| | **TOTAL ELEMENT NO.1 SUB-STRUCTURES CARRIED TO SUMMARY** | | | | |

| ITEM | DESCRIPTION | UNIT | QTY | RATE | TOTAL |
|---|---|---|---|---|---|
| | **ELEMENT NO. 2**<br>**VIBRATED REINFORCED SUPERSTRUCTURE**<br>**Insitu vibrated reinforced concrete mix 1:2:4 grade 20 as described in :-** | | | | |
| A | Beams | cm | 0.5 | | |
| | **High yield square twisted reinforcement including cutting to lengths,bending,twisting and fixing ,including all necessary tying wires and spacing blocks to B.S. 4461:-** | | | | |
| B | 10mm bars in beams | Kg | 11.5 | | |
| | **Mild steel reinforcement to BS 4449** | | | | |
| C | 8mm diameter bars in beams | Kg | 9 | | |
| | **Formwork**<br>**Sawn softwood formwork to in-situ concrete as described:-** | | | | |
| D | Vertical sides and soffites of beams | sm | 9 | | |
| | **TOTAL ELEMENT NO.2 VIBRATED REINFORCED CONCRETE SUPERSTRUCTURES CARRIED TO SUMMARY** | | | | |

| ITEM | DESCRIPTION | UNIT | QTY | RATE | TOTAL |
|---|---|---|---|---|---|
| | **ELEMENT No.3**<br>**WALLING SUPERSTRUCTURE**<br>**Machine cut walling** | | | | |
| A | 150mm thick machine cut coral block walling bedded and jointed in cement and sand mortar mix 1:3 with 20mm wide hoop iron reinforcement at every alternate course | sm | 9.5 | | |
| B | 150mm thick precast concrete permanent vent block walling | sm | 0.5 | | |
| | **TOTAL ELEMENT NO.3 WALLING SUPERSTRUCTURE CARRIED TO SUMMARY** | | | | |

| ITEM | DESCRIPTION | UNIT | QTY | RATE | TOTAL |
|---|---|---|---|---|---|
| | **ELEMENT NO. 4** | | | | |
| | **ROOFING**<br>**The following in second grade celcured cypress and all the necessary for assembling and hoisting to position as per roofing details.** | | | | |
| A | 75x50mm rafters. | lm | 3 | | |
| B | 50x50mm Purlins. | lm | 7 | | |
| | **ROOF COVERING** | | | | |
| C | 28gauge Pre-painted blue box profile roof covering nailed to Timber Purlins | sm | 5.5 | | |
| | **Eaves filling** | | | | |
| D | 200mm thick machine cut coral block eaves and gable filling | lm | 4 | | |
| | **WROT CYPRESS** | | | | |
| E | 200x25mm fascia and bardge board | lm | 4 | | |
| | **Knot, prime,Stop and Prepare and apply three coats white brilliant gloss oil paint on-:** | | | | |
| F | Timber surfacs over 200 mm but not exceeding 300mm girth | lm | 4 | | |
| | **TOTAL ELEMENT NO.4 ROOFING WORKS CARRIED TO SUMMARY** | | | | |

| ITEM | DESCRIPTION | UNIT | QTY | RATE | TOTAL |
|---|---|---|---|---|---|
| | **ELEMENT No. 5** | | | | |
| | **DOORS** | | | | |
| | **The following in wrot graded cedar** | | | | |
| A | 100mm x 50mm frame with one labour and fixed to block wall with fish tailed metal (m.s) | lm | 9 | | |
| | **Shutter** | | | | |
| B | 45mm thick (finished) hardwood framed, ledged,braced and battened door comprising of 95 x 20mm (finished) braces,ledges and tongued and grooved matchboarding, V-jointed on one side and let flush on the other | No | 1 | | |
| | **Ironmongry** | | | | |
| | **Supply and fix the following ironmongery with screws to match.** | | | | |
| C | 100mm brass butt hinges with matching screws. | No | 3 | | |
| D | 25mm x 3mm fish tailed metal cramps one end screwed to 50mm timber frame while the other end fixed to block wall | No | 3 | | |
| E | 300mm long steel aldrop(Pad bolt ) | No | 1 | | |
| F | 150mm Brass tower bolt | No | 1 | | |
| | **PAINT WORK** | | | | |
| | **Prepare and apply 3 coats of first grade clear wood varnish** | | | | |
| G | Surfacess not exceeding 300mm | lm | 7 | | |
| H | General surfaces | sm | 7 | | |
| | **TOTAL FOR ELEMENT NO.5 DOORS CARRIED TO SUMMARY** | | | | |

| ITEM | DESCRIPTION | UNIT | QTY | RATE | TOTAL |
|---|---|---|---|---|---|
| | **ELEMENT NO. 6** | | | | |
| | **FINISHES** | | | | |
| | **Floor finishes** | | | | |
| A | 40mm thick Cement Sand (1:4) and screed | sm | 3.5 | | |
| | **EXTERNAL WALL FINISHES** | | | | |
| | **External walls** | | | | |
| B | Extra over dressed stone walling for neat recessed horizontal key in cement mortar (1:3) | sm | 7.5 | | |
| C | 12mm thick cement,sand render,with wood float finish | sm | 2.5 | | |
| D | Ditto rendered concrete surfaces | sm | 1 | | |
| | **Painting and decoration** | | | | |
| | **Prepare and apply one undercoat and two finishing coats of exterior quality plastic cream emulsion paint on :-** | | | | |
| E | Rendered wall surfaces | sm | 1.25 | | |
| F | Rendered concrete surfaces | sm | 0.5 | | |
| | **INTERNAL WALL FINISHES** | | | | |
| | **Internal walls** | | | | |
| G | 12mm thick cement,sand and lime plaster,with steel trowelled finish. | sm | 12 | | |
| | **Painting and decoration** | | | | |
| H | Prepare and apply one undercoat and two finishing coats first quality soft white plastic emulsion paint ditto. | sm | 12 | | |
| J | Prepare and apply one finishing coat first quality gloss cream paint to wall skirting. | sm | 3 | | |
| | **External works** | | | | |
| K | 50mm thick precast concrete (1:2:4) paving slab size 600 x 600mm jointed with (1:3) cement sand mortar on and including 50mm thick bed of sand | Sm | 3 | | |
| | **MISCELLEANOUS** | | | | |
| L | U.P.V.C golden brown vent pipe 100mm diameter | lm | 3.5 | | |
| M | U.P.V.C ballon guard(vent cap) 100mm diameter | lm | 0.5 | | |
| | **TOTAL ELEMENT No. 6: FINISHES CARRIED TO SUMMARY** | | | | |

# PROPOSED PIT LATRINES AT GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY

| ITEM | DESCRIPTION | PAGE No | AMOUNT |
|---|---|---|---|
| | **TEACHERS PIT LATRINE SUMMARY** | | |
| 1 | SUBSTRUCTURE WORKS | GSFD/PIT/L/02 | |
| 2 | VIBRATED REINFORCED CONCRETE SUPER STRUCTURES | GSFD/PIT/L/03 | |
| 3 | SUPERSTRUCTURE WALLING | GSFD/PIT/L/04 | |
| 4 | ROOFING | GSFD/PIT/L/05 | |
| 5 | DOORS | GSFD/PIT/L/06 | |
| 7 | FINISHES | GSFD/PIT/L/07 | |
| | **TOTAL FOR CONSTRUCTION OF 1-DOOR PIT LATRINE** | | |

Multiply by 2

| | |
|---|---|
| **TOTAL FOR CONSTRUCTION OF 2-DOOR PIT LATRINETOTAL CARRIED TO GARISSA SCHOOL FOR THE DEAF MAIN SUMMARY** | |

**GSFD/PIT/L/TOTAL**

# CONSTRUCTION OF 20-POINT HAND WASHING STATION AT GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY

# 20-POINT HAND WASHING STATION AT GARISSA SCHOOL FOR THE DEAF

| ITEM | DESCRIPTION | QTY | UNIT | RATE | KSHS. |
|---|---|---|---|---|---|
| | **All Provisional** | | | | |
| **1** | **Excavations** | | | | |
| A | Excavate top vegetable soil average depth150mm and depositon site as directed | 44 | SM | | |
| B | Exacavate foundation strip n.e 900mm deep and deposit on site as directed. | 14 | CM | | |
| C | Backfill foundation with selected excavated materials | 8 | CM | | |
| | **Fillings** | | | | |
| D | Approved hand-packed hardcore filling; deposited and compacted in 150 mm thick layers; 300 mm thick | 24 | CM | | |
| E | Stone dust blinding to surfaces of hardcore; 50 mm thick | 24 | SM | | |
| | **Surface treatment**<br>**Chemicalanti-termitetreatment,with"Termidor25EC"insecticide to the satisfaction of the Engineer** | | | | |
| F | To surfaces of hardcore blinding and wall tops | 44 | SM | | |
| | **in situ concrete**<br>**Mass concrete (C15/20)** | | | | |
| G | To strip foundations ; 150 mm thick | 18 | SM | | |
| H | 100 mm thick to strip foundation | 36 | SM | | |
| | **Walling**<br>**Natural stone wall; jointed and bedded in cement : sand(1:3) mortar** | | | | |
| J | 150 mm thick; foundation walling below floor slab (M. S.) | 16 | SM | | |
| K | 100 mm thick ground floor slab with wiremesh | 32 | SM | | |
| | | | | | |
| | ***SUB-TOTAL CARRIED TO COLLECTION*** | | | | |

# 20-POINT HAND WASHING STATION AT GARISSA SCHOOL FOR THE DEAF

| ITEM | DESCRIPTION | QTY | UNIT | RATE | KSHS. |
|---|---|---|---|---|---|
| | **Concrete work top** | | | | |
| L | 75 mm thick in situ concrete (class 20/20 mm) worktop; including 6mm diameter mild steel reinforcement bars at 150mm centers both ways, on 150mm thick walls | 18 | SM | | |
| M | Sawn formwork to ; horizontal soffits of worktop | 14 | SM | | |
| N | Sawn formwork to ; vertical edge of worktop over 75mm but not exceeding 150mm girth | 36 | LM | | |
| | **FINISHES** | | | | |
| | **25 mm thick two coats cement/sand (1:4) plaster to:** | | | | |
| O | Concrete and masonry work to receive ceramic tiles | 70 | SM | | |
| | **Ceramic wall tiles** | | | | |
| P | 250mm x 300mm ceramic wall tiles | 70 | SM | | |
| | **External wall plaster** | | | | |
| | **25 mm cement sand (1:3)render:Steel trowelled on concrete or stonework to:-** | | | | |
| Q | Concrete or masonry wall plinths | 70 | SM | | |
| | **Painting and Decorating**<br>**Prepare and apply three coats plastic emulsion paint as described to:** | | | | |
| R | Plastered concrete and masonry walls; external | 24 | SM | | |
| | **Trench excavation** | | | | |
| S | Excavation for pipe trenches for 32mm pipes in any material other than rock with a maximum depth not exceeding 600mm | 16 | CM | | |
| | **Pipeline** | | | | |
| T | Supply,lay and joint 32mm HDPE pipe with associated accessories | 90 | LM | | |
| | **Soap dispenser** | | | | |
| U | Wall mounted soap dispenser with a capacity of about one litre press soap release action complete with fixing screws. Allow for initial soap supply. To be as Starmix or approved equivalent. | 20 | NO | | |
| | ***SUB-TOTAL CARRIED TO COLLECTION*** | | | | |

# 20-POINT HAND WASHING STATION AT GARISSA SCHOOL FOR THE DEAF

| ITEM | DESCRIPTION | QTY | UNIT | RATE | KSHS. |
|---|---|---|---|---|---|
| | **MECHANICAL WORKS CONTINUED** | | | | |
| | **Plumbing** | | | | |
| A | Supply and install tubing and fittings as described and shown on the drawings. Tenderers must allow for ipework, couplings etc necessary for the proper and satisfactory functioning of the system when pricing the following in PN 20 PPRC conforming to the current European standards for PPR installations and to the Engineer's approval, pipe jointing shall be by polyfusion or use of electric coupling Rates must allow for all the Metal/plastic threaded adaptors where required for the connection of sanitary fixtures, valves, sockets, sliding and fixed joints, support raceways, isolating sheaths, elastic materials, expansion arms and bends, crossovers etc | | | | |
| | **PPR Pipes** | | | | |
| B | 32mm dia pipe chased in walls/floors | 8 | LM | | |
| C | 25mm ditto | 14 | LM | | |
| | **Extra-over PPR pipework for the following:-** | | | | |
| | **Bends/elbows** | | | | |
| D | 25 x 20 mm female Elbow | 8 | NO | | |
| E | 25mm plain elbow | 8 | NO | | |
| F | 1/2" female Elbow | 2 | NO | | |
| G | 3/4" female elbow | 4 | NO | | |
| H | 1" female elbow | 8 | NO | | |
| J | 1,1/4" plain elbow | 4 | NO | | |
| K | 3/4" Male elbow | 4 | NO | | |
| | **Sockets** | | | | |
| L | 32mm male socket | 10 | NO | | |
| M | 32mm female socket | 10 | NO | | |
| N | 3/4" X 1/2" Reducer socket | 6 | NO | | |
| P | 1/2" Female socket | 4 | NO | | |
| Q | 1/2" Plain socket | 2 | NO | | |
| R | 1" socket | 9 | NO | | |
| S | 1" female socket | 8 | NO | | |
| T | 1,1/4" female socket | 4 | NO | | |
| U | 1" male socket | 8 | NO | | |
| V | 3/4" Plain socket | 8 | NO | | |
| W | 3/4" Male socket | 8 | NO | | |
| | **Tees** | | | | |
| X | 25x1/2" female threaded tee | 14 | NO | | |
| Y | 1/2" female threaded tee | 5 | NO | | |
| Z | 3/4" female threaded tee | 2 | NO | | |
| AA | 1/4" tee | 4 | NO | | |
| BB | 1" tee | 4 | NO | | |
| CC | 1" X 3/4" Female tee | 4 | NO | | |
| | **Gate valve** | | | | |
| DD | 1" Pegra gate valve | 4 | NO | | |
| | **G.I Nipples** | | | | |
| EE | 1/2" G.I nipple | 24 | NO | | |
| | **Waste pipe** | | | | |
| FF | 1,1/4" waste pipe | 4 | NO | | |
| | **waste tee** | | | | |
| GG | 1,1/4" waste tee | 12 | NO | | |
| HH | Inpection tee | 6 | NO | | |
| | **waste bends** | | | | |
| JJ | 1,1/4" waste bend | 4 | NO | | |
| | **Tap** | | | | |
| KK | Lockable 1/2" bibtap | 6 | NO | | |
| LL | Lockable 3/4" bibtap | 2 | NO | | |
| | **HWS PG-3 CARRIED TO COLLECTION** | | | | |

# 20-POINT HAND WASHING STATION AT GARISSA SCHOOL FOR THE DEAF

| ITEM | DESCRIPTION | PAGE NO. | AMOUNT |
|---|---|---|---|
| | **COLLECTION FOR THE 20-POINT HAND WASHING STATION** | | |
| 1 | TOTAL FROM GSFD/HWS PG-1 | GSFD/HWS PG-1 | |
| 2 | TOTAL FROM GSFD/HWS PG-2 | GSFD/HWS PG-2 | |
| 3 | TOTAL FROM GSFD/HWS PG-3 | GSFD/HWS PG-3 | |
| **TOTAL FOR 20-POINT HAND WASHING STATION CARRIED TO GARISSA SCHOOL FOR THE DEAF MAIN SUMMARY** | | | |

# CONSTRUCTION OF WATER DISTRIBUTION PIPELINES AND CONNECTIONS AT GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY

**WATER DISTRIBUTION PIPELINES AND CONNECTIONS TO VARIOUS STRUCTURES AT GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY**

| ITEM | DESCRIPTION | UNIT | QUANTITY | RATE (KSh) | AMOUNT (KSh) |
|---|---|---|---|---|---|
| | **Site Clearance and stripping**<br><br>Provide for site clearance atleast 0.6m wide along the set-out pipeline route. Alsso provide for stripping of vegetation and top soil not exceeding 50mm depth | | | | |
| A | Site clearance and stripping | SM | 120.0 | | |
| | **Earthworks**<br>Provide for excavation of pipeline trench of not exceeding 600mm deep by 600mm wide. | | | | |
| B | Excavation and backfilling in normal soil | CM | 72.0 | | |
| | **Pipeline layng and backfilling**<br><br>Provide for pipeline laying and backfilling. Rtes to include labour and all necessary equpiment as well as wastes during fitting of the pipeline | | | | |
| C | 32mm PPR PN-16 pipe. | Rolls | 4.0 | | |
| D | Allow for a provisional sum of Kshs 50,000 for plumbing connections | Item | 1.0 | | |
| | **TOTAL FOR WATER DISTRIBUTION PIPELINES AND CONNECTIONS CARRIED TO GARISSA SCHOOL FOR THE DEAF MAIN SUMMARY** | | | | |

# CONSTRUCTION OF AN ABLUTION BLOCK AT GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| 1 | **SUBSTRUCTURE (ALL PROVISIONAL)** | | | | |
| | **Site Clearance** | | | | |
| A | Clear site of grass, undergrowth, grub up roots; cart away | 65 | SM | | |
| | **Excavation and earthworks** **Including maintaining and supporting sides and keeping free from water, mud and fallen materials by baling or otherwise.** | | | | |
| B | Excavate top vegetable soil average depth 150 mm and deposit on site as directed | 61 | SM | | |
| C | Excavate foundation strips; not exceeding 1.5m deep from reduced level | 36 | CM | | |
| D | Backfill foundation with selected excavated materials | 19 | CM | | |
| E | Disposal of surplus excavated material on site | 5 | CM | | |
| | **Fillings** | | | | |
| F | Approved hand-packed hardcore filling; deposited and compacted in 150 mm thick layers; 300 mm thick | 61 | SM | | |
| G | Stone dust blinding to surfaces of hardcore; 50 mm thick | 61 | SM | | |
| | **Surface treatment** **Chemical anti-termite treatment, with "Termidor 25 EC" insecticide to the satisfaction of the Architect** | | | | |
| H | To surfaces of hardcore blinding and wall tops | 61 | SM | | |
| | **Waterproofing** | | | | |
| J | 1000 Gauge polythene damp-proof membrane 300 mm laps (measured nett with no allowance for overlaps) | 61 | SM | | |
| K | 200 mm wide three ply hessian based bituminous damp proof course; bedded on cement:sand (1:3) mortar: 150 mm laps | 61 | LM | | |
| | **In-situ concrete** **Mass concrete; 1:4:8** | | | | |
| L | To strip foundations ; 50 mm thick | 32 | SM | | |
| | **Vibrated reinforced concrete; class 20:20 (1:2:4) in** | | | | |
| M | Strip foundations | 7 | CM | | |
| N | 100 mm thick ground floor slab | 61 | SM | | |
| | **Reinforcement ( Provisional )** **Reinforcement including bends, tying wire, bends, hooks and spacers** | | | | |
| P | High yield steel bar reinforcement; square twisted; as per B.S.4461; for strip foundations | 150 | KG | | |
| Q | A142 Mesh in floor slab; weighing 2.22 per $m^2$; to BS 4483; laid with 150 mm laps (measured nett) | 61 | SM | | |
| | **Sub total Carried to Collection** | | | | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| | **Formwork to In-situ Concrete - Rough (sawn) finish** | | | | |
| R | Edges of ground floor slab 75-150 mm high | 16 | LM | | |
| | **Walling** | | | | |
| | **Natural stone wall; jointed and bedded in cement: sand (1:3) mortar** | | | | |
| S | 200 mm thick; foundation walling below floor slab (M. S.) | 59 | SM | | |
| | **Plinths**<br>**12mm cement sand (1:4) render:Steel trowelled on concrete or stonework to:-** | | | | |
| T | Concrete or masonry wall plinths | 29 | SM | | |
| | **Prepare and apply two coats bituminous paint on render to:-** | | | | |
| U | Rendered concrete or stone surfaces | 29 | SM | | |
| | **Carried to Collection below** | | | | |
| | **COLLECTION FOR SUBSTRUCTURE WORKS**<br>**Brought Forward from GSFD/AB/01**<br>**Brought Forward from GSFD/AB/02 Above** | | | | |
| | **TOTAL FOR SUBSTRUCTURE; CARRIED TO ABLUTION BLOCK SUMMARY** | | | | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| **2** | **REINFORCED CONCRETE SUPERSTRUCTURE**<br>**Vibrated reinforced concrete; class 20:20 (1:2:4) in** | | | | |
| A | Beams | 3 | CM | | |
| | **Reinforcement ( Provisional )**<br>**Reinforcement including bends, tying wire, bends, hooks and spacers** | | | | |
| B | Assorted steel bar reinforcement; high yield; as per B.S. 4461; to<br>Ring beam | 284 | KG | | |
| | **Formwork to In-situ Concrete ; Fair finish** | | | | |
| C | Sides and soffites of beams | 32 | SM | | |
| | **TOTAL FOR REINFORCED CONCRETE SUPERSTRUCTURE; CARRIED TO ABLUTION BLOCK SUMMARY** | | | | |
| **3** | **WALLING**<br>**Machine cut stones; jointed and bedded in cement:sand (1:4) mortar; with and including, 20 x 4 mm mild steel strips every alternate course** | | | | |
| A | 150 mm thick ; external and Internal | 179 | SM | | |
| B | 150mm thick precast concrete permanent vent block walling | 37 | SM | | |
| | **TOTAL FOR WALLING; CARRIED TO GARISSA SCHOOL FOR THE DEAF MAIN SUMMARY** | | | | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| **4** | **DOORS** | | | | |
| | **The following in wrot graded cedar** | | | | |
| A | 100mm x 50mm frame with one labour and fixed to block wall with fish tailed metal (m.s) | 83 | LM | | |
| | **Shutter** | | | | |
| B | Solid core flush door; 800 x 2100 mm x 50 mm thick; hardwood lipping | 14 | NO | | |
| | **Ironmongery**<br>**Supply and fix the following ironmongery with screws to match.** | | | | |
| C | 100mm brass butt hinges with matching screws. | 29 | No | | |
| D | 25mm x 3mm fish tailed metal cramps one end screwed to 50mm | 29 | No | | |
| E | 300mm long steel aldrop(Pad bolt ) | 14 | No | | |
| G | 150mm Brass tower bolt | 14 | No | | |
| | **PAINT WORK**<br>**Prepare and apply 3 coats of first grade clear wood varnish** | | | | |
| H | Surfacess not exceeding 300mm | 83 | LM | | |
| J | General surfaces | 28 | SM | | |
| | **TOTAL FOR DOORS; CARRIED TO ABLUTION BLOCK SUMMARY** | | | | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| **5** | **ROOFING** | | | | |
| | **The following in second grade celcured cypress and all the necessary for assembling and hoisting to position as per roofing details.** | | | | |
| A | 75x50mm rafters. | 204 | LM | | |
| B | 50x50mm Purlins. | 77 | LM | | |
| | **ROOF COVERING** | | | | |
| C | 28gauge Pre-painted blue box profile roof covering nailed to Timber Purlins | 64 | SM | | |
| | **Eaves filling** | | | | |
| D | 200mm thick machine cut masonry block eaves and gable filling | 26 | LM | | |
| | **Wrot cypress** | | | | |
| E | 150x25mm fascia and bardge board | 22 | LM | | |
| | **Knot, prime,Stop and Prepare and apply three coats white brilliant gloss oil paint on-:** | | | | |
| F | Timber surfacs over 200 mm but not exceeding 300mm girth | 22 | LM | | |
| | **TOTAL FOR ROOFING; CARRIED TO ABLUTION BLOCK SUMMARY** | | | | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| **6** | **FINISHES** | | | | |
| | **Floor finishes** | | | | |
| A | 40 mm thick cement:sand (1:4) screed; to receive non-slip ceramic floor tiles (m/s). | 61 | SM | | |
| B | 330 x 330 x 8 mm thick non-slip ceramic floor tiles approved by the project manager | 61 | SM | | |
| | **EXTERNAL WALL FINISHES** | | | | |
| C | Extra over dressed stone walling for neat recessed horizontal key in cement mortar (1:3) including black paint | 82 | SM | | |
| D | 12mm thick cement,sand render,with wood float finish | 7 | SM | | |
| E | Ditto rendered concrete surfaces | 2 | SM | | |
| | **Painting and decoration** | | | | |
| | **Prepare and apply one undercoat and two finishing coats of exterior quality plastic cream emulsion paint on :-** | | | | |
| F | Rendered wall surfaces | 3 | SM | | |
| G | Rendered concrete surfaces | 5 | SM | | |
| | **INTERNAL WALL FINISHES** | | | | |
| | **Internal walls** | | | | |
| H | 12mm thick cement,sand and lime plaster,with steel trowelled | 53 | SM | | |
| | **Painting and decoration** | | | | |
| J | Prepare and apply one undercoat and two finishing coats first quality soft white plastic emulsion paint ditto. | 38 | SM | | |
| K | Prepare and apply one finishing coat first quality gloss cream | 14 | SM | | |
| | **Wall tiles** | | | | |
| L | 150 x 150 x 6 mm coloured ceramic wall fixed to walls with and including cement:sand (1:4) backing finished with coloured cement at joints to match | 92 | SM | | |
| | **Copping stone** | | | | |
| M | Mass concrete copping stone mix (1:3) twice weathered and throated on top of screen wall | 17 | LM | | |
| | **TOTAL FOR FINISHES CARRIED TO ABLUTION BLOCK SUMMARY** | | | | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| 7 | **PLUMBING AND DRAINAGE**<br>**Builders Work in Connection with Sanitary Fittings**<br><br>**Allow for cutting and leaving all necessary holes, notches, mortices, sinking's and chases both in the structure and its finishes and for all making good in connection with the following (All Provisional): -**<br>**WATER CLOSET (WC** | | | | |
| A | General purpose White vitreous china squatting type WC suite comprising of Floor plate in enamelled clay with integral foot treads complete with cistern and all accessories | 7 | NO | | |
| | **TOTAL FOR PLUMBING AND DRAINAGE; CARRIED TO ABLUTION BLOCK SUMMARY** | | | | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---|---|---|---|---|---|
| | **GARISSA SCHOOL FOR THE DEAF**<br>**ABLUTION BLOCK SUMMARY** | | PAGE | | |
| 1 | SUBSTRUCTURE | | **GSFD/AB/02** | | |
| 2 | REINFORCED CONCRETE SUPERSTRUCTURE | | **GSFD/AB/03** | | |
| 3 | WALLING | | **GSFD/AB/03** | | |
| 5 | DOORS | | **GSFD/AB/04** | | |
| 6 | ROOFING | | **GSFD/AB/05** | | |
| 7 | FINISHES | | **GSFD/AB/06** | | |
| 8 | PLUMBING AND DRAINAGE | | **GSFD/AB/07** | | |
| | **TOTAL FOR PROPOSED ABLUTION BLOCK AT GARISA SCHOOL FOR THE DEAF; CARRIED TO MAIN SUMMARY** | | | | |

# PLUMBING INSTALLATIONS AT GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY

**PLUMBING INSTALLATIONS**

| Item | Description | Qty | Unit | Rate (Kshs) | Cost (Kshs) |
|---|---|---|---|---|---|
| | **PLUMBING**<br>Supply, deliver, install, test and commission the following sanitary appliances complete with all the accessories including all connections to the services, waste, jointing to water supply overflows, supports and all plugging and screwing to walls and floors. | | | | |
| A | **Water Closet (WC)**<br>Squatting type WC pan in approved colour, complete with integral footrests and outlet connection (to BS 3402 or equivalent standards), provided with a suitable flushing system (flush valve or cistern), plastic flush bend, and inlet connection. To be as Duravit or equivalent approved make, suitable for squatting use. | 2 | No. | | |
| B | **WC Connector**<br>100mm diameter WC connector | 1 | No. | | |
| C | **Manhole**<br>Double sealed Access cover 600 x 450mm comprising: | 1 | No. | | |
| D | **Floor Traps**<br>100Ø, 100 x 50 x 40 mm diameter 4-way Light Grey floor trap complete with stainless steel grating and cover. | 1 | No. | | |
| E | **Gutter**<br>150mm Diameter uPVC gutter fixed to fascia board (m.s.) with heavy duty uPVC brackets at 1000 mm centers all to approval | 32 | Lm | | |
| F | Extra over gutter for stopped ends. | 2 | No. | | |
| G | Ditto for rainwater outlets with nozzle for 100mm | 4 | No. | | |
| H | 100mm uPVC diameter rainwater down pipe connected to water tank including all necessary accessories. | 12 | Lm | | |
| J | Supply, deliever and install vertical close end plastic moulded tank of capacity 10,000 litre size 2400 diameter x 2800mm high. The tank to be assembled complet with cover and having screwed connections for inlet, outlet and overflow, 32mm medium pressure ball valve, drain pipes and any other necessary item for its proper functioning. The tank shall be mounted on a flat platform slab and shall be as ROTO model or equal and approved. | 1 | No | | |
| | **TOTAL FOR PLUMBING INSTALLATIONS CARRIED TO GARISSA SCHOOL FOR THE DEAF MAIN SUMMARY** | | | | |

# DRAINAGE AND BIODIGESTER AT GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY

## BILL OF QUANTITIES FOR DRAINAGE WORKS

| ITEM | DESCRIPTION | UNIT | QTY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | **EXTERNAL COMPONENTS** | | | | |
| | **Drainage External Channels** | | | | |
| A | Excavate trench average depth 750 mm to receive upvc , return fill and ram surplus material. | CM | 2.75 | | |
| B | 150 mm diameter heavy duty upvc pipe in ground. | Lm | 13.00 | | |
| C | Mass concrete class 15 (1:3:6) | CM | 0.50 | | |
| | **18m$^3$ Biodigester** | | | | |
| | (Works to be undertaken by a specialist personnel) | | | | |
| A | Oversite excavation to reduce levels not exceeding 250mm deep from existing ground level, spread on site as directed, and cart away surplus. | CM | 3.98 | | |
| B | Excavate foundation 2.125 metres deep commencing from reduced level. | CM | 33.80 | | |
| C | Excavate hard rock 2.0 metres deep | CM | 31.81 | | |
| D | Backfill excavated foundation with approved materials | CM | 26.35 | | |
| H | 50mm thick blinding to foundation class 15 (1:3:6) | CM | 0.78 | | |
| I | Reinforced concrete class 20/20 (1:2:4) to Base foundation | CM | 2.39 | | |
| J | Reinforced concrete class 20/20 (1:2:4) to Dome structure | CM | 0.59 | | |
| K | Reinforced concrete class 20/20 (1:2:4) to Manholes base | CM | 0.29 | | |
| L | Cypres sawn formwork to Dome structure | SM | 3.00 | | |
| M | D12mm bars to base | KG | 34.00 | | |
| N | D10mm bars to dome structure | KG | 32.00 | | |
| | **Total carried to next page for biodigester** | | | | |

| ITEM | DESCRIPTION | UNIT | QTY | RATE | AMOUNT |
|---|---|---|---|---|---|
| | **CONT'D FOR BIODIGESTER** | | | | |
| | **Total carried from the previous page for drainage and biodigester** | | | | |
| | Natural quarry stone walling in cement and sand (1:3) mortar reinforced with and including 25 x 3mm thick hoop iron in every alternate course | | | | |
| H | 200mm thick masonry walling | SM | 4.00 | | |
| | Machine cut stone walling in cement and sand (1:3) mortar reinforced with and including 25 x 3mm thick hoop iron in every alternate course | | | | |
| I | 150mm thick machine cut stones @ manholes | SM | 1.00 | | |
| | **PIPING SYSTEM** Make good and attend in all trades on the plumber installing the following points, including cutting all chases and holes, notching and boxing timber etc. making good all finishes and leave clean to satisfaction of the R.E | | | | |
| A | 6" uPVC waste pipe (heavy duty) | LM | 4.00 | | |
| B | 6" 90$^{o}$ bend | NO | 1.00 | | |
| C | 4" uPVC waste pipe(heavy duty) | LM | 2.00 | | |
| D | 4" Upvc bend | NO | 1.00 | | |
| E | 6" Tee | NO | 2.00 | | |
| | Square C.I manhole cover & frame(H.D) | | | | |
| F | 600x600mm | NO | 1.00 | | |
| G | 450x450mm | NO | 1.00 | | |
| | **SOAK PIT (2m width x 10m Length x 2.5m h)** | | | | |
| C | Excavate 2.25 metres deep commencing from reduced level and cart away | CM | 11.00 | | |
| G | Fill 1250mm hardcore boulders as shown in the drawings | CM | 5.00 | | |
| H | Perforated 1000g DPM | SM | 4.00 | | |
| I | Fill 1250mm red soil as shown in the drawings | CM | 4.00 | | |
| | **TOTAL FOR DRAINAGE AND BIODIGESTER CARRIED TO GARISSA SCHOOL FOR THE DEAF MAIN SUMMARY** | | | | |

# ELECTRICAL INSTALLATIONS AT GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY

## ELECTRICAL INSTALLATIONS FOR CLASSROOMS AT GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY

| ITEM | DESCRIPTION | UNIT | QTY | RATE | TOTAL |
|---|---|---|---|---|---|
| | **Supply,install,test and commission the following:-** | | | | |
| | **LIGHTING POINTS** | | | | |
| | **Lighting points wired with 3 x 1.5mm² single core PVCI copper cables drawn in concealed 20mm diameter HG PVCI conduit for:-** | | | | |
| A | a) One way switching | No | 36 | | |
| | **SWITCHES** | | | | |
| | **10Amps,moulded plate flush mounted switches with screw covers,as CLIPSAL,BG or approved equivalent being:-** | | | | |
| B | a) 1 gang 1 way | No | 4 | | |
| C | c) 2 gang 1 way | No | 2 | | |
| D | e) 3 gang 1 way | No | 4 | | |
| | **LIGHTING FITTINGS** | | | | |
| | **Lighting fittings complete with lamps and all other necessary accessories:-** | | | | |
| E | a) 1200, Standard LED T5 tube + fitting as METSEC or approved equivalent | No | 16 | | |
| F | b) 10W Flood light fitting LED | No | 9 | | |
| | **SUB-MAIN CIRCUIT** | | | | |
| G | Circuit comprising 5 x 6mm² SC PVCI copper cables drawn in concealed 25mm diameter HG PVC conduits from meter box to DB | lm | 11 | | |
| | **DISTRIBUTION BOARD** | | | | |
| H | 8-Ways ,100Amps , Flush mounted distribution board complete with 100Amps. Integral TPN isolator with hinged cover as MEM,CRABTREE or approved equivalent being:- | No | 1 | | |
| | **Mcbs for item 1.16 above being:-** | | | | |
| J | a)10Amps,SP | No | 4 | | |
| K | b)15Amps,SP | No | 1 | | |
| L | c)20Amps,SP | No | 1 | | |
| M | d)30Amps,SP | No | 1 | | |
| N | 80/6A TPN switch fuse (KMBG) as MEM or approved equivalent | No | 1 | | |
| O | Electrical Earthing comprising 6.0mm2 Single core copper cables drawn in H/G Conduits 1500mm by 15mm diameter copper electrode complete with clamp and pre - cast concrete inspection pit with cover | Item | | | |
| | **TOTAL FOR ELECTRICAL INSTALLATIONS CARRIED TO GARISSA SCHOOL FOR THE DEAF MAIN SUMMARY** | | | | |

# CONTIGENCIES AT GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY

## CONTIGENCY COSTS

| ITEM | DESCRIPTION | UNIT | QTY | RATE | TOTAL |
|---|---|---|---|---|---|
| | **Anticipated Contigencies** | | | | |
| A | Price escalation: Variations in material costs (cement, steel, fuel) due to market fluctuations or inflation. | Item | 1 | 5,000.0 | 5,000.00 |
| B | Quantity variations: Minor increases in quantities arising from site conditions or design refinements. | Item | 1 | 10,000.0 | 10,000.00 |
| C | Design adjustments: Small modifications to drawings or specifications during implementation to address site realities. | Item | 1 | 30,000.0 | 30,000.00 |
| D | Unforeseen ground conditions: Rock excavation, high water table, poor soils requiring stabilization, or additional foundation works. | Item | 1 | 5,000.0 | 5,000.00 |
| | **TOTAL FOR CONTIGENCY COSTS** | | | | **50,000.00** |

# MAIN SUMMARY FOR CONSTRUCTION OF CLASSROOMS AND WASH INFRASTRUCTURE AT GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY

**PROPOSED EDUCATIONAL AND WASH INFRASTRUCTURE AT GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY**

**MAIN SUMMARY**

| ITEM | DESCRIPTION | PAGE NO | TOTALS (KES) |
|---|---|---|---|
| | | | |
| Bill No. 01 | 4 NO. CLASSROOMS BLOCK | GSFD/CLSS/TOTAL | |
| | | | |
| BILL NO.2 | RENOVATION & EQUIPPING OF 1 NO ICT CENTER | GSFD/ICT/TOTAL | |
| | | | |
| BILL NO.3 | ELEVATED WATER TANK TOWER | WTT/TOTAL | |
| | | | |
| BILL NO.4 | 2 NO. PIT LATRINES BLOCK | PIT/L/TOTAL | |
| | | | |
| BILL NO.5 | 20-POINT HAND WASHING STATIONS | HWS/20 Point | |
| | | | |
| BILL NO.6 | PIPELINE EXTENSIONS | WP&C TOTAL | |
| | | | |
| BILL NO.7 | ABLUTION BLOCK | GSFD/AB/03 | |
| | | | |
| BILL NO.8 | PLUMBING | GSFD/PI/TOTAL | |
| | | | |
| BILL NO.9 | DRAINAGE | D&BD/TOTAL | |
| | | | |
| BILL NO.10 | ELECTRICAL INSTALLATIONS | GSFD/EE/TOTAL | |
| | | | |
| BILL NO.11 | CONTIGENCIES | GSFD/CT/TOTAL | 50,000.00 |
| | | | |
| | MAIN TOTAL FOR GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY | | |

**PROPOSED CONSTRUCTION OF CLASSROOMS AND WASH INFRASTRUCTURE AT GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY AND CATHOLIC INTEGRATED PRIMARY SCHOOL IN WAJIR COUNTY**

**GRAND SUMMARY**

| ITEM | DESCRIPTION | PAGE NO | TOTALS (KES) |
|---|---|---|---|
| | | | |
| ITEM NO. 01 | MAIN TOTAL FOR CATHOLIC INTERGRATED PRIMARY SCHOOL IN WAJIR COUNTY | MN/TOTAL/CIPS | |
| | | | |
| | | | |
| ITEM NO.02 | MAIN TOTAL FOR GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY | MN/TOTAL/GSFD | |
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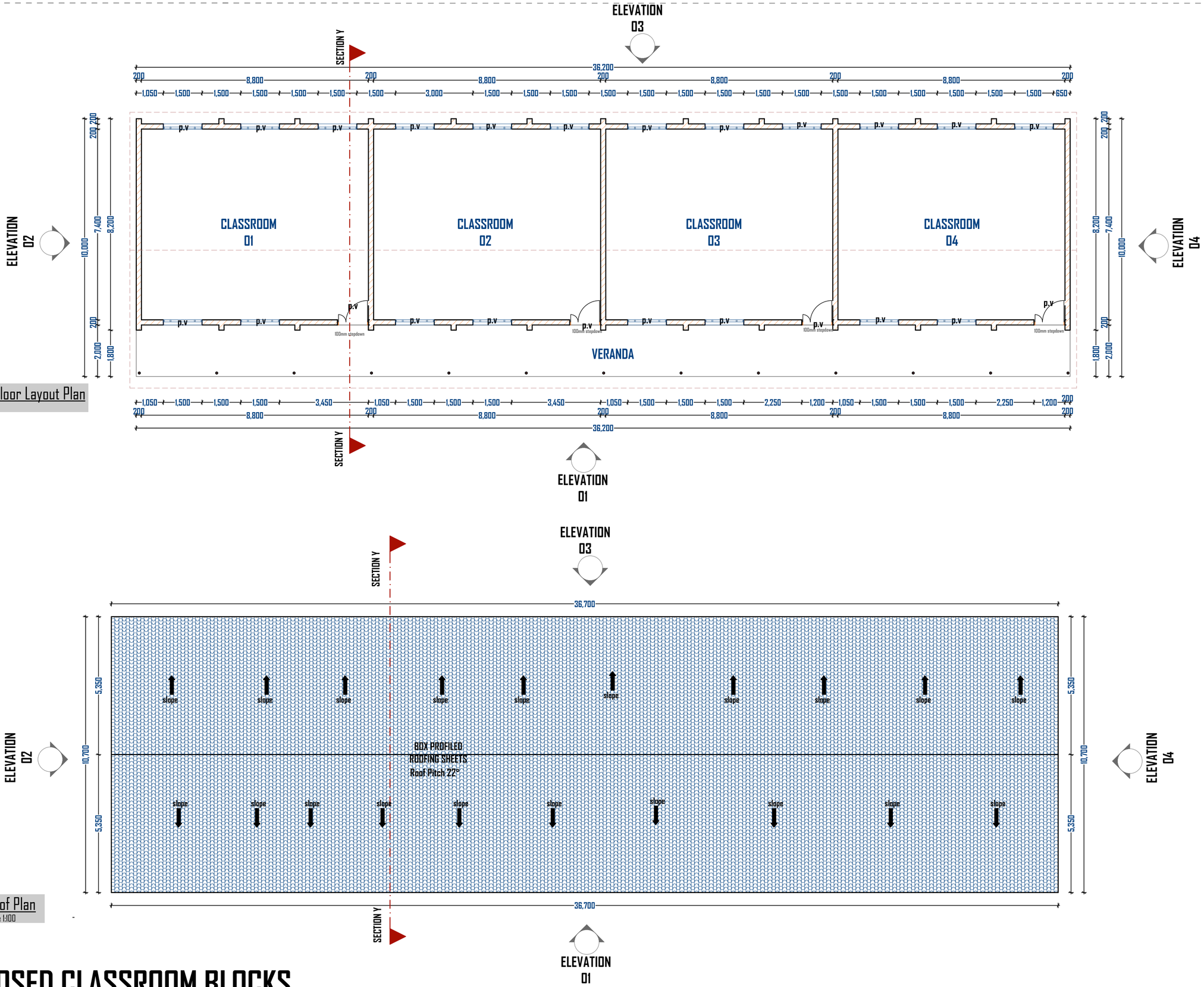
| | GRAND TOTAL FOR CONSTRUCTION OF CLASSROOMS AND WASH INFRASTRUCTURE AT GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY AND CATHOLIC INTEGRATED PRIMARY SCHOOL IN WAJIR COUNTY CARRIED TO FORM OF TENDER | | |




# PROPOSED CLASSROOM BLOCKS

GENERAL NOTES

1. DIMENSIONS TO BE CHECKED ON SITE. WRITTEN DIMENSIONS RULES OVERSCALED DRAWINGS. ANY DISCREPANCY IN DIMENSIONS TO BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING.
2. DEPTH AT FOUNDATION TO BE DETERMINED ON SITE, ALL FOUNDATIONS R.C. COLUMNS AND R.C. WORKS TO STRUCTURAL ENGINEERS' DETAIL.
3. HEAVY DUTY POLYTHENE SHEETING AND TERMITE TREATMENT TO BE PROVIDED UNDER BASEMENT FLOOR SLAB. DPC TO BE THREE PLY BITUMINOUS FELT LAID UNDER ALL WALLS.
4. P.V. DENOTES PERMANENT VENTILATION.
5. ALL WALLS TO BE REINFORCED WITH HOOP IRON AT EVERY ALTERNATIVE COURSE.
6. PLUMBING AND DRAINAGE WORK TO COMPLY WITH MOH REQUIREMENTS. S & V P's TO BE CAST IRON DEEP SEAL OR ANTI VAC TRAPS TO ALL FITTINGS CONNECTED TO S V P's OR WASTE PIPES. ALL BENDS AND JUNCTIONS TO HAVE INSPECTION PLATES.

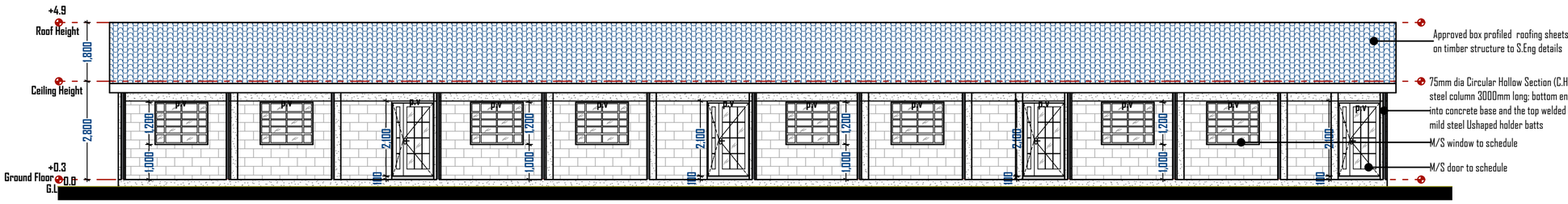
For and on behalf of:
Developer:

Client
ChildFund

Project:
PROPOSED CLASSROOM DESIGN

| | |
|---|---|
| Plot No. | Road |
| County | Town |
| Project Manager | |
| Drawing Title: **Ground & Roof Plans** | Scale: **1:100** |
| Drawing No: **CFK03** | Project No: Rev. No: |
| Drawn By: **Nathan.M** | Checked By: **Nathan.M** |
| PC MAC | CADD. File: |
| Date: **JULY 2021** | Layout: **A2** LANDSCAPE |

## Elevation 01
scale 1:100

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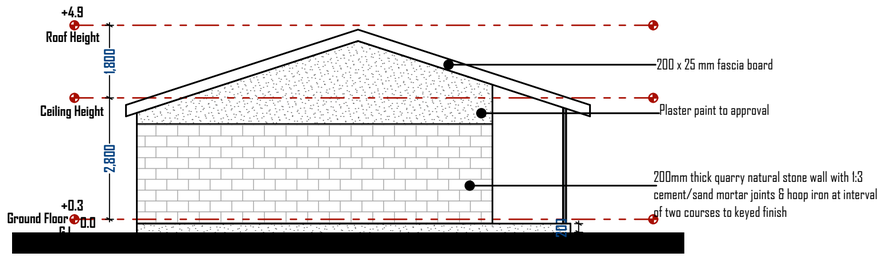


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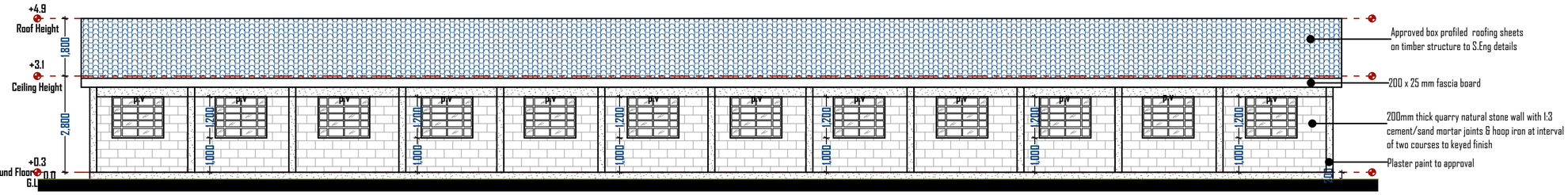


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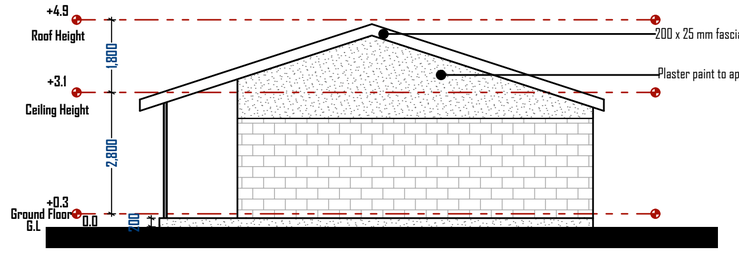


## Section Y-Y
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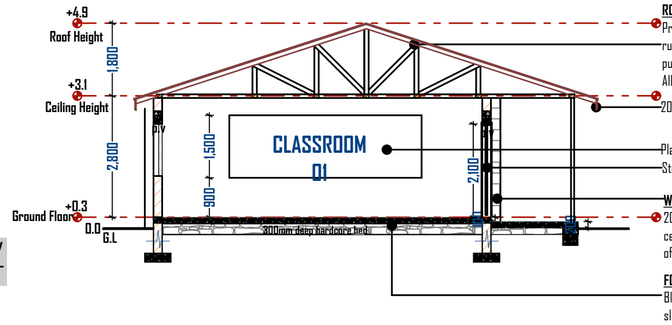



**ROOF DETAILS**
Pre-painted galsheets 30gauge 100x50mm trussed rafters with 75x50mm internal members 75x50mm purlins 100x50mm tie beam and 100x50mm wall plate. All to S.E details. Roof slope 22°
200 x 25 mm fascia board
Plaster paint to approval
Steel door to schedule

**WALL DETAILS**
200mm thick quarry natural stone wall with 1:3 cement/sand mortar joints & hoop iron at interval of two courses to keyed finish

**FOUNDATION DETAILS**
Blinding 1:4:8 100mmthick slab 1:3:6 floor slab 1:2:4 class 20/20 aggregate in strip foundation.BI-Y12. B2y3 r8@200c/c. A142 B.R.C Mesh. 100gauge dpm. 150mm thick approved natural stone in cen/sand morter 1:3.

# PROPOSED CLASSROOM BLOCKS

**GENERAL NOTES**

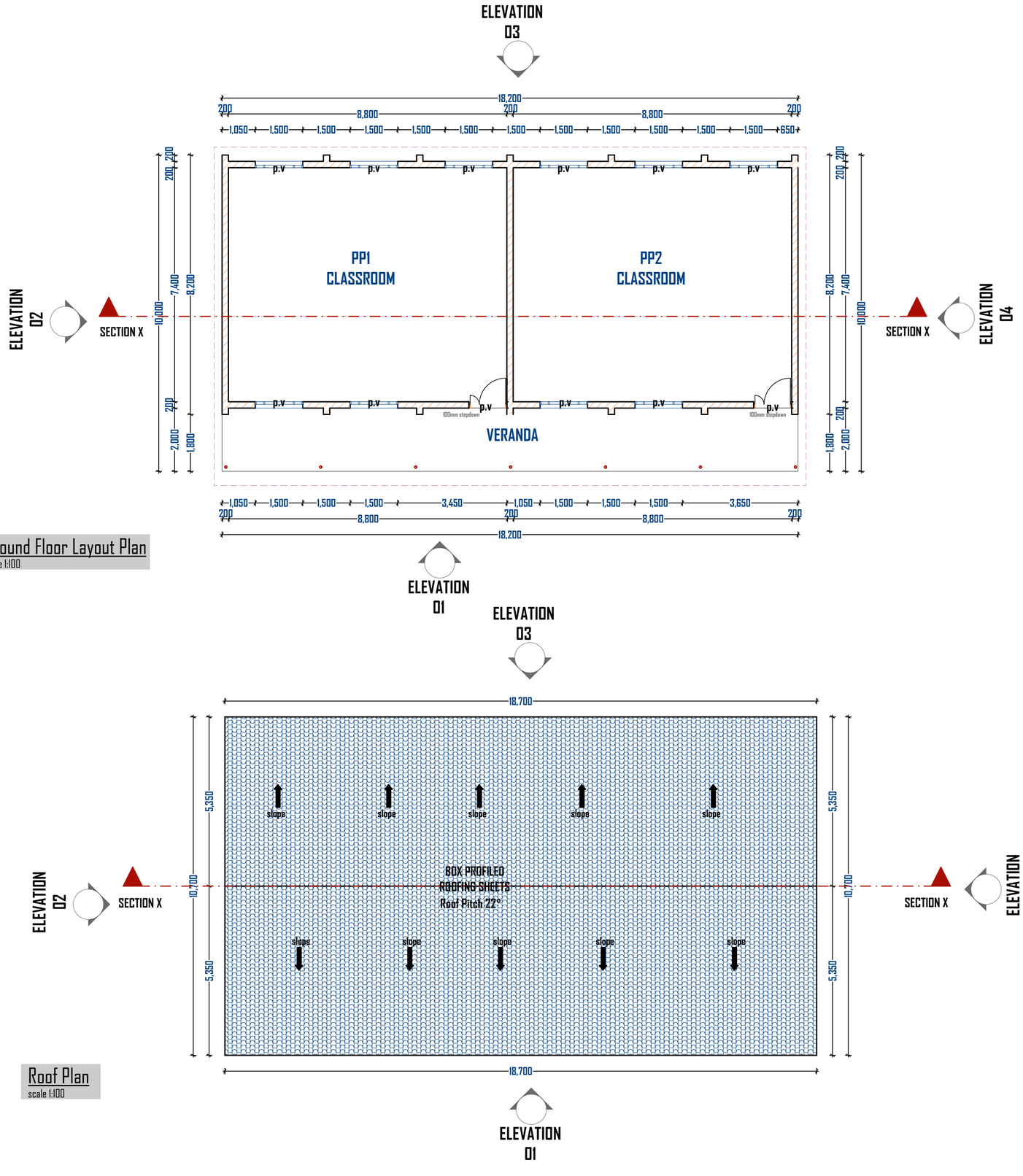
1. DIMENSIONS TO BE CHECKED ON SITE. WRITTEN DIMENSIONS RULES OVERSCALED DRAWINGS. ANY DISCREPANCY IN DIMENSIONS TO BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING.
2. DEPTH AT FOUNDATION TO BE DETERMINED ON SITE, ALL FOUNDATIONS R.C. COLUMNS AND R.C. WORKS TO STRUCTURAL ENGINEERS' DETAIL.
3. HEAVY DUTY POLYTHENE SHEETING AND TERMITE TREATMENT TO BE PROVIDED UNDER BASEMENT FLOOR SLAB. DPC TO BE THREE PLY BITUMINOUS FELT LAID UNDER ALL WALLS.
4. P.V. DENOTES PERMANENT VENTILATION.
5. ALL WALLS TO BE REINFORCED WITH HOOP IRON AT EVERY ALTERNATIVE COURSE.
6. PLUMBING AND DRAINAGE WORK TO COMPLY WITH MOH REQUIREMENTS. S & V P's TO BE CAST IRON DEEP SEAL OR ANTI VAC TRAPS TO ALL FITTINGS CONNECTED TO S V P's OR WASTE PIPES. ALL BENDS AND JUNCTIONS TO HAVE INSPECTION PLATES.

For and on behalf of:
Developer:

Client
ChildFund

Project:
**PROPOSED CLASSROOM DESIGN**

| | |
|---|---|
| Plot No. | Road |
| County | Town |
| Project Manager | |
| Drawing Title: **Elevations & Section** | Scale: **1:100** |
| Drawing No: **CFK04** | Project No: |
| Rev. No: | |
| Drawn By: **Nathan.M** | Checked By: **Nathan.M** |
| CADD. File: PC MAC | |
| Date: **JULY 2021** | Layout: **A2** LANDSCAPE |




Ground Floor Layout Plan
scale 1:100

Roof Plan
scale 1:100

# PROPOSED ECD CLASSROOM BLOCK

GENERAL NOTES

1. DIMENSIONS TO BE CHECKED ON SITE. WRITTEN DIMENSIONS RULES OVERSCALED DRAWINGS. ANY DISCREPANCY IN DIMENSIONS TO BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING.
2. DEPTH AT FOUNDATION TO BE DETERMINED ON SITE, ALL FOUNDATIONS R.C. COLUMNS AND R.C. WORKS TO STRUCTURAL ENGINEERS' DETAIL.
3. HEAVY DUTY POLYTHENE SHEETING AND TERMITE TREATMENT TO BE PROVIDED UNDER BASEMENT FLOOR SLAB. DPC TO BE THREE PLY BITUMINOUS FELT LAID UNDER ALL WALLS.
4. P.V. DENOTES PERMANENT VENTILATION.
5. ALL WALLS TO BE REINFORCED WITH HOOP IRON AT EVERY ALTERNATIVE COURSE.
6. PLUMBING AND DRAINAGE WORK TO COMPLY WITH MOH REQUIREMENTS. S & V P's TO BE CAST IRON DEEP SEAL OR ANTI VAC TRAPS TO ALL FITTINGS CONNECTED TO S V P's OR WASTE PIPES. ALL BENDS AND JUNCTIONS TO HAVE INSPECTION PLATES.

For and on behalf of:

Developer:

Client

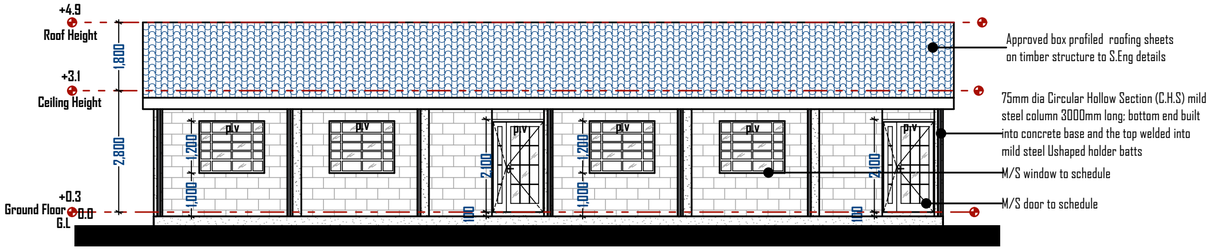
ChildFund

Project:
PROPOSED CLASSROOM DESIGN

| | |
|---|---|
| Plot No. | Road |
| County | Town |

Project Manager

| | |
|---|---|
| Drawing Title: **Ground & Roof Plan** | Scale: **1:100** |
| Drawing No: **CFK05** | Project No: Rev. No: |
| Drawn By: **Nathan.M** | Checked By: **Nathan.M** |
| PC MAC | CADD. File: |
| Date: **JULY 2021** | Layout: **A2** LANDSCAPE |

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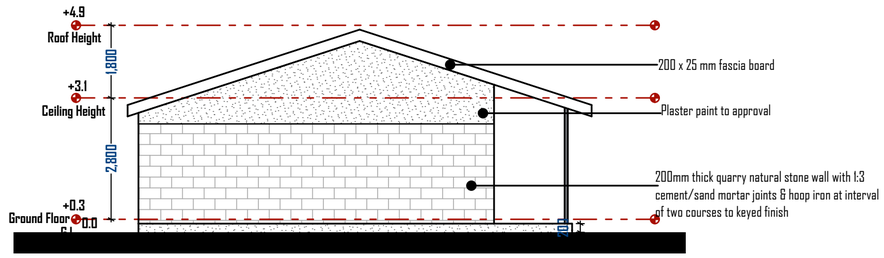


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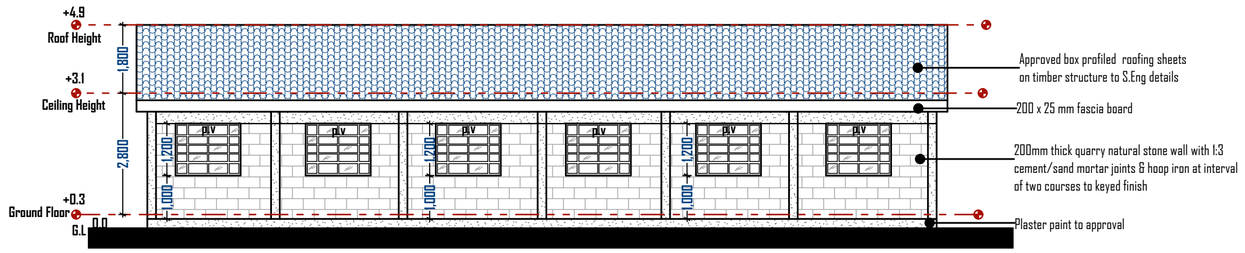
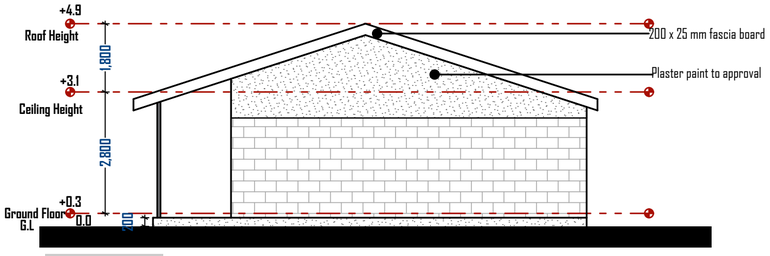
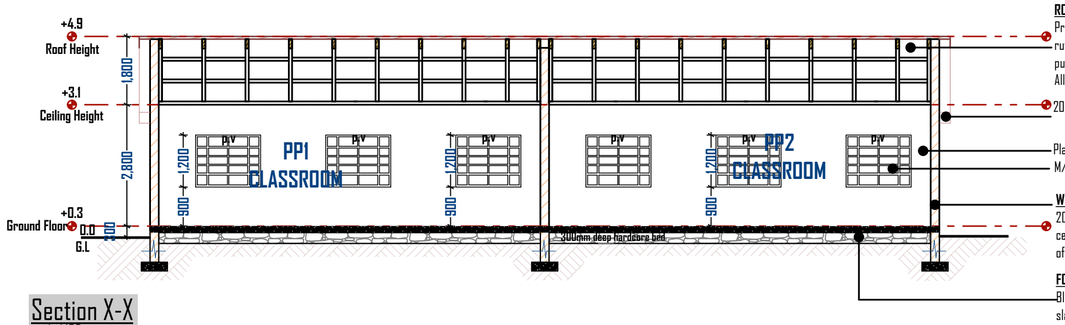



## Elevation 03
scale 1:100




## Elevation 04
scale 1:100




## Section X-X
scale 1:100

**ROOF DETAILS**
Pre-painted galsheets 30gauge 100x50mm trussed rafters with 75x50mm internal members 75x50mm purlins 100x50mm tie beam and 100x50mm wall plate. All to S.E details. Roof slope 22°

200 x 25 mm fascia board

Plaster paint to approval
M/S window to schedule

**WALL DETAILS**
200mm thick quarry natural stone wall with 1:3 cement/sand mortar joints & hoop iron at interval of two courses to keyed finish

**FOUNDATION DETAILS**
Blinding 1:4:8 100mmthick slab 1:3:6 floor slab 1:2:4 class 20/20 aggregate in strip foundation.B1-Y12. B2y3 r8@200c/c. A142 B.R.C Mesh. 100gauge dpm. 150mm thick approved natural stone in cen/sand morter 1:3.

# PROPOSED ECD CLASSROOM BLOCK

**GENERAL NOTES**

1. DIMENSIONS TO BE CHECKED ON SITE. WRITTEN DIMENSIONS RULES OVERSCALED DRAWINGS. ANY DISCREPANCY IN DIMENSIONS TO BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING.
2. DEPTH AT FOUNDATION TO BE DETERMINED ON SITE, ALL FOUNDATIONS R.C. COLUMNS AND R.C. WORKS TO STRUCTURAL ENGINEERS' DETAIL.
3. HEAVY DUTY POLYTHENE SHEETING AND TERMITE TREATMENT TO BE PROVIDED UNDER BASEMENT FLOOR SLAB. DPC TO BE THREE PLY BITUMINOUS FELT LAID UNDER ALL WALLS.
4. P.V. DENOTES PERMANENT VENTILATION.
5. ALL WALLS TO BE REINFORCED WITH HOOP IRON AT EVERY ALTERNATIVE COURSE.
6. PLUMBING AND DRAINAGE WORK TO COMPLY WITH MOH REQUIREMENTS. S & V P's TO BE CAST IRON DEEP SEAL OR ANTI VAC TRAPS TO ALL FITTINGS CONNECTED TO S V P's OR WASTE PIPES. ALL BENDS AND JUNCTIONS TO HAVE INSPECTION PLATES.

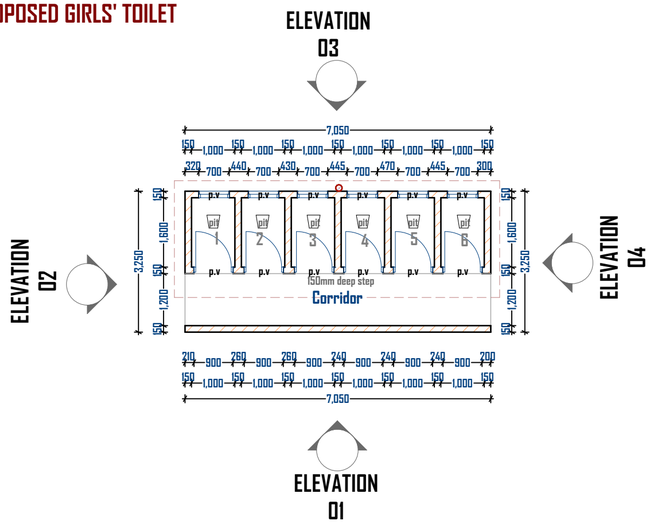
For and on behalf of:
Developer:

Client
ChildFund

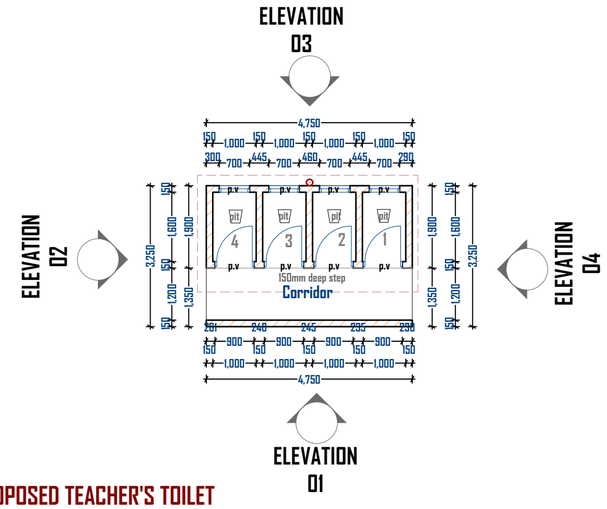
Project:
PROPOSED ECD CENTER DESIGNS

| | |
|---|---|
| Plot No. | Road |
| County | Town |
| Project Manager | |
| Drawing Title: Elevations & Section | Scale: 1:100 |
| Drawing No: CFK06 | Project No: / Rev. No: |
| Drawn By: Nathan.M | Checked By: Nathan.M |
| PC MAC CADD. File: | |
| Date: JULY 2021 | Layout: A2 LANDSCAPE |

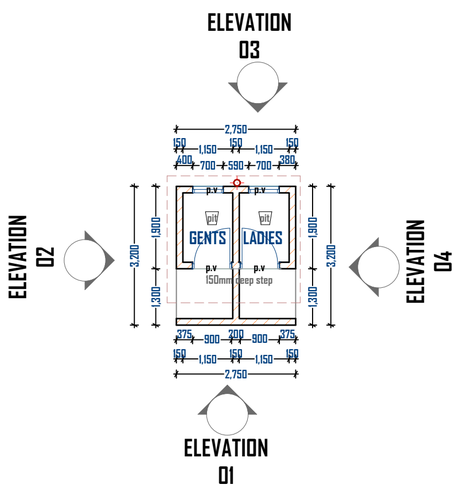
## PROPOSED GIRLS' TOILET

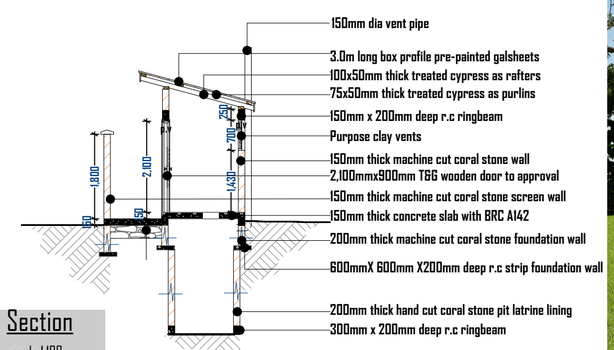



## PROPOSED ECD GIRL'S TOILET



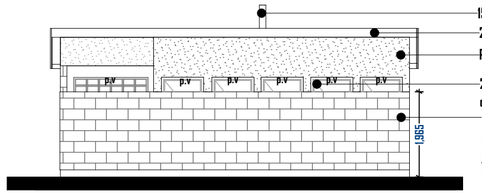

## PROPOSED TEACHER'S TOILET



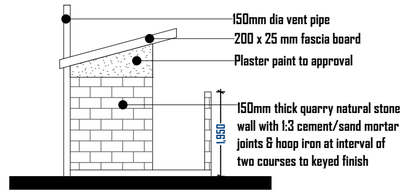




Section
scale 1:100

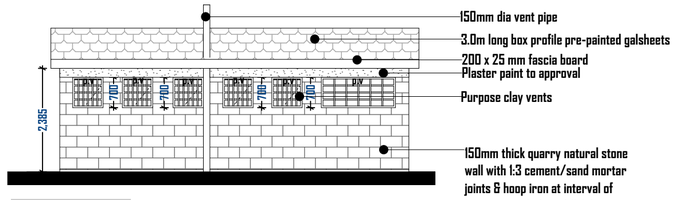
# PROPOSED TOILET BLOCKS



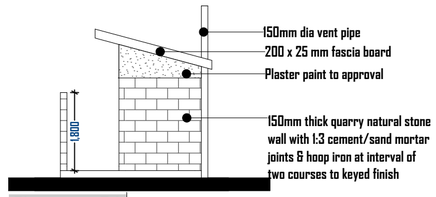

Elevation 01
scale 1:100




Elevation 02
scale 1:100




Elevation 03
scale 1:100




Elevation 04
scale 1:100

GENERAL NOTES

1. DIMENSIONS TO BE CHECKED ON SITE. WRITTEN DIMENSIONS RULES OVERSCALED DRAWINGS. ANY DISCREPANCY IN DIMENSIONS TO BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING.

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For and on behalf of:
Developer:

Client
ChildFund

Project:
PROPOSED PIT LATRINES DESIGNS

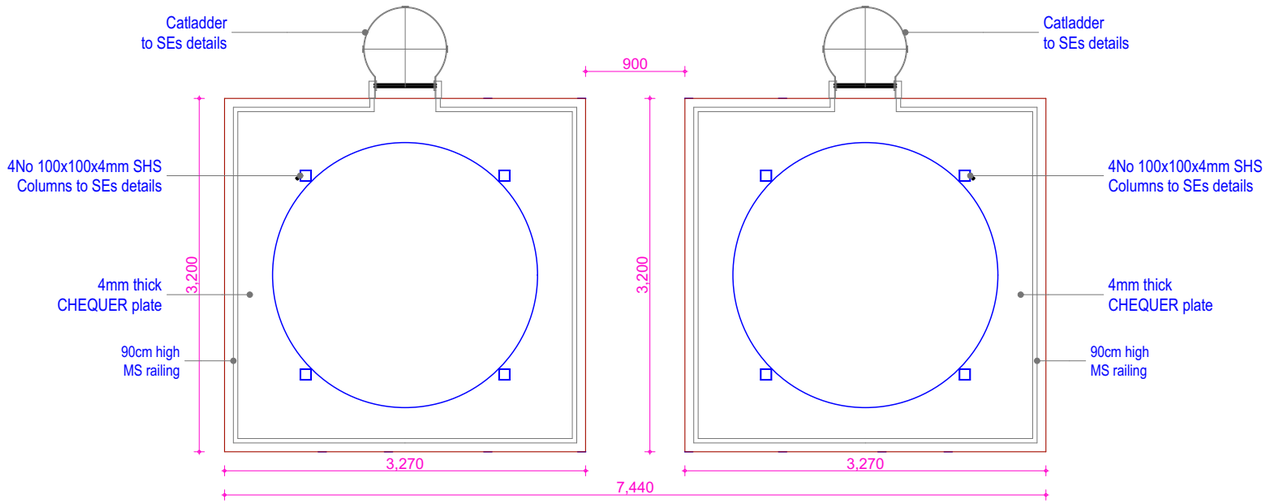
| | |
|---|---|
| Plot No. | Road |
| County | Town |

Project Manager

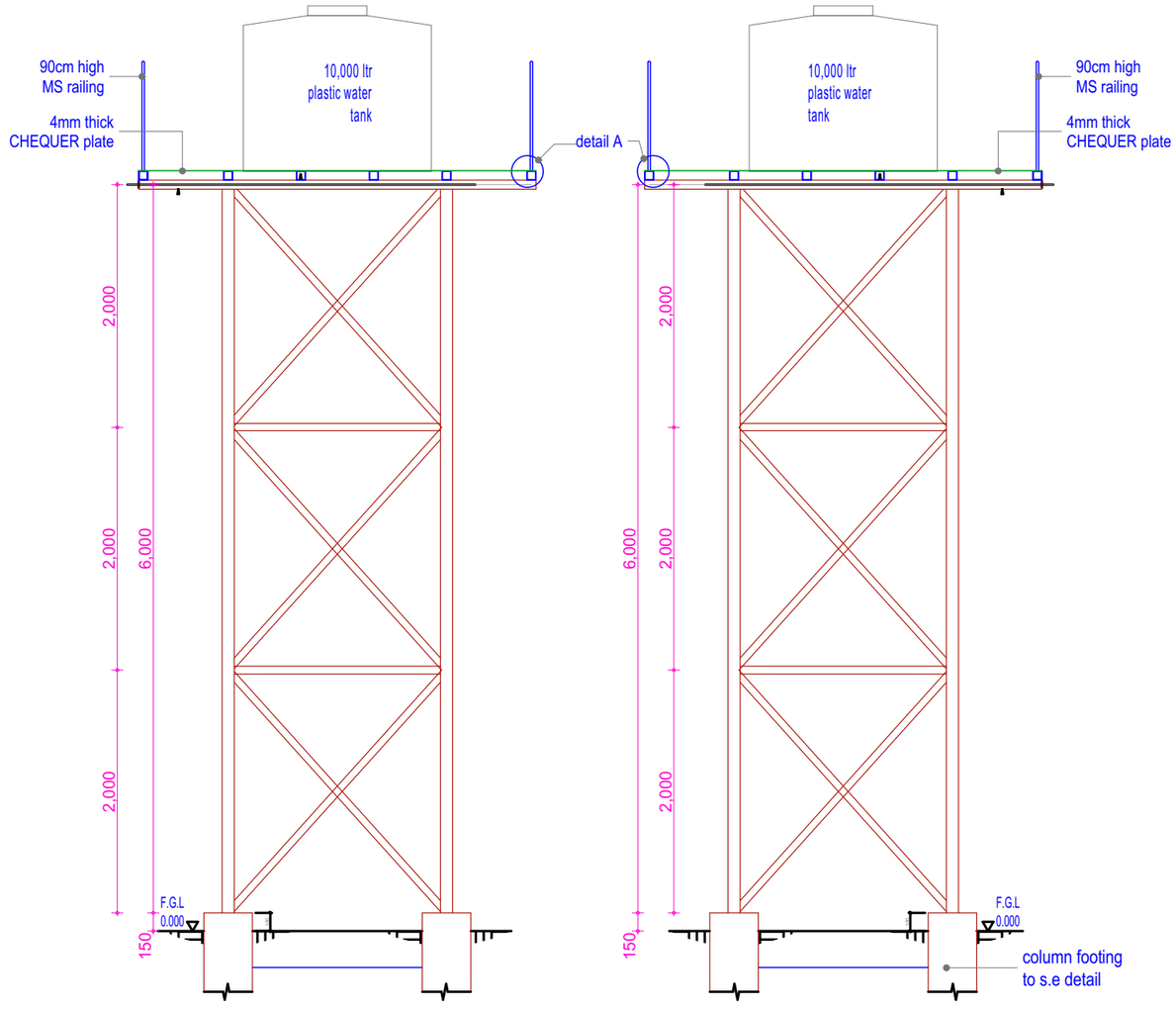
| | |
|---|---|
| Drawing Title: Plans, Elevations & Section | Scale: 1:100 |
| Drawing No: CFK07 | Project No: |
| Rev. No: | |
| Drawn By: Nathan.M | Checked By: Nathan.M |

CADD. File:
PC MAC

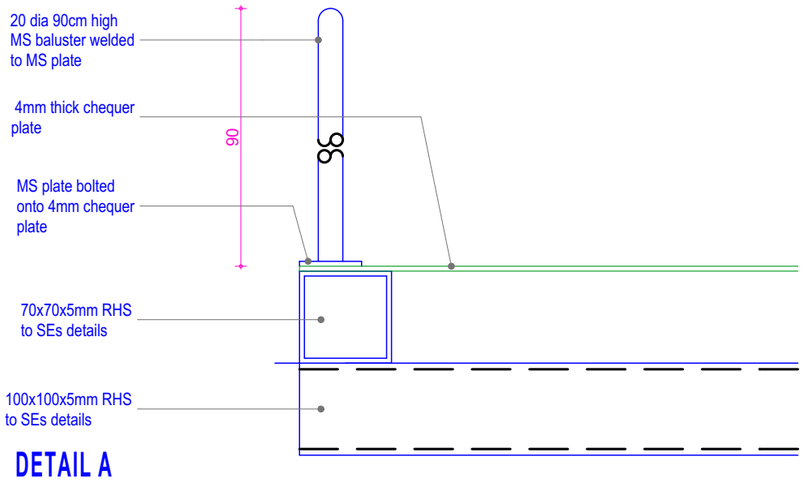
Date: JULY 2021
Layout: A2 LANDSCAPE




## WATER TANK PLAN scale 1:50




## WATER ELEVATION PLAN scale 1:50




## DETAIL A

1:5

## GENERAL NOTES

1. All dimensions are in centimetres, unless otherwise stated.

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3. Written dimensions overrides scaled dimensions,thus all dimensions are to be read and not at any time scaled from the drawing.

4. Any discrepancy to be reported to the Engineer promptly before proceeding.

| NO. | REVISION | DATE | APPR. |
|---|---|---|---|
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CLIENT

CHILDFUND

PROJECT

PROPOSED 6M HIGH ELEVATED WATER TANK TOWER AT GARISSA SCHOOL FOR THE DEAF IN GARISSA COUNTY.

DRAWING TITLE

6M HIGH WATER TANK TOWER

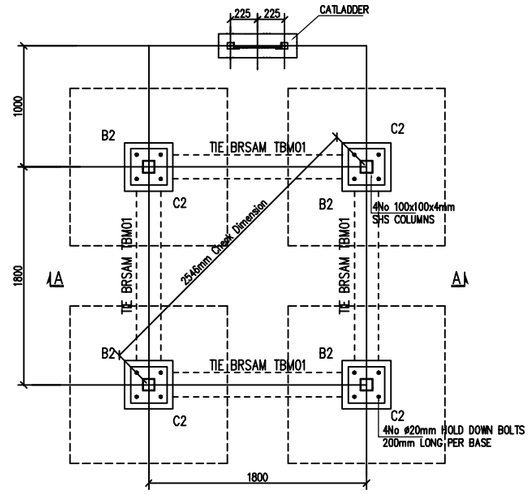
| | | |
|---|---|---|
| DRAWN BY | NM | |
| CHECKED BY | NM | |
| APPROVED BY | NM | |
| DATE | JULY 2026 | |

PROJECT NUMBER:

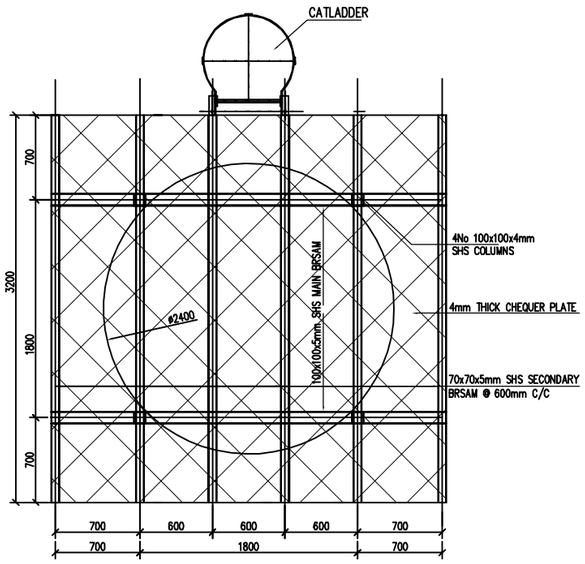
DRAWING NUMBER:

TENDER DRAWINGS

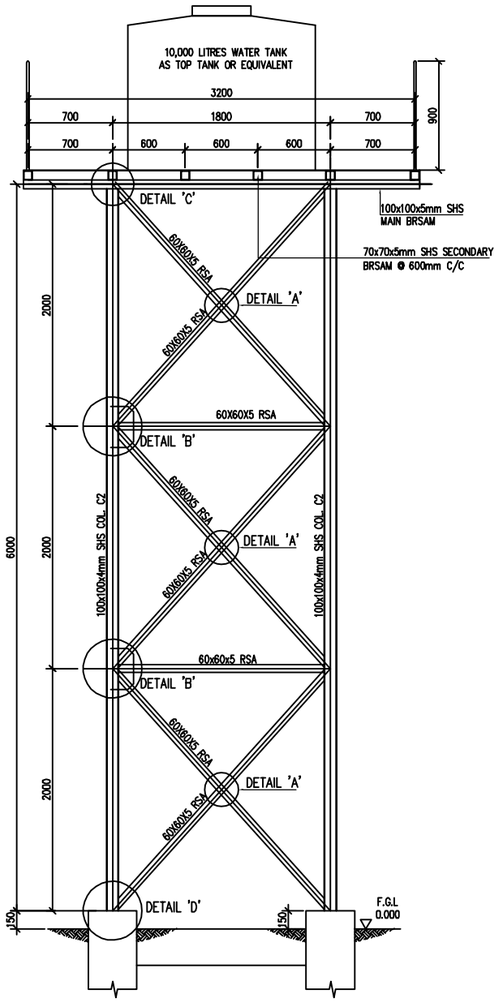
ChildFund®



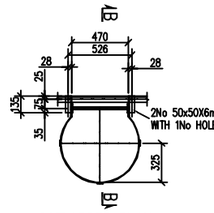

FOUNDATION PLAN
SCALE 1:25



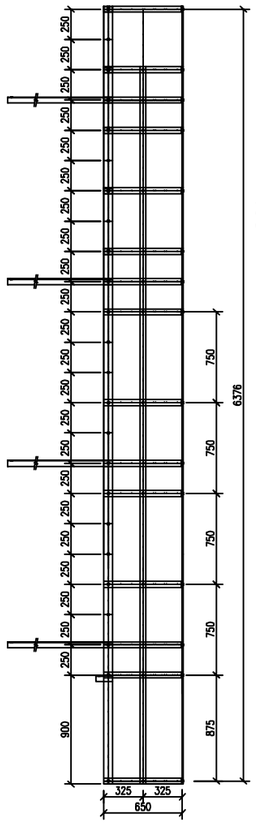

TOP PLAN
SCALE 1:25



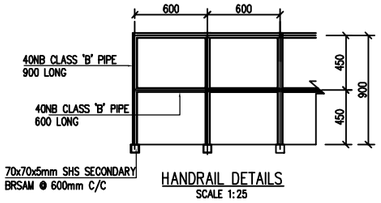

SECTION A-A
TANK TOWER ELEVATION
SCALE 1:25



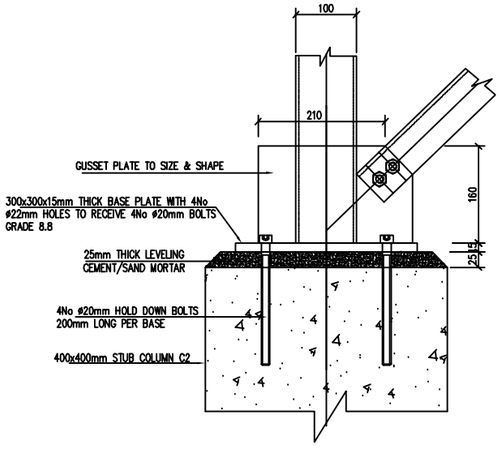

CATLADDER PLAN
SCALE 1:25



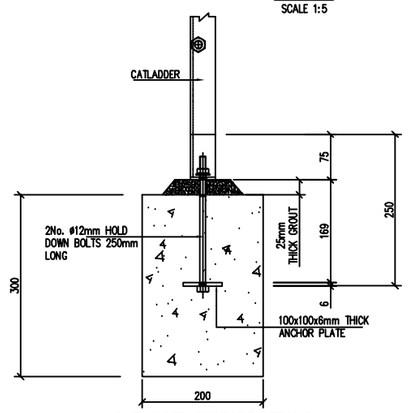

SECTION B-B
CATLADDER ELEVATION
(NOTE. ALL HOLES ARE 14DIA FOR ø12 BOLTS)
SCALE 1:25



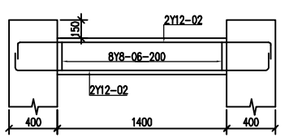

HANDRAIL DETAILS
SCALE 1:25



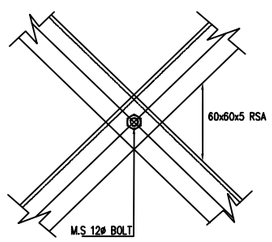

DETAIL D
SCALE 1:5



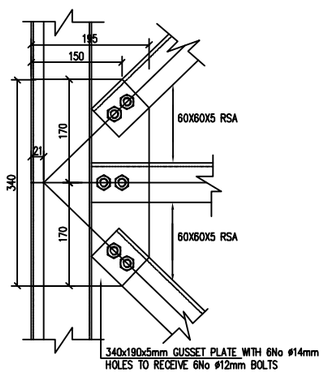

CATLADDER SUPPORT DETAILS
SCALE 1:5



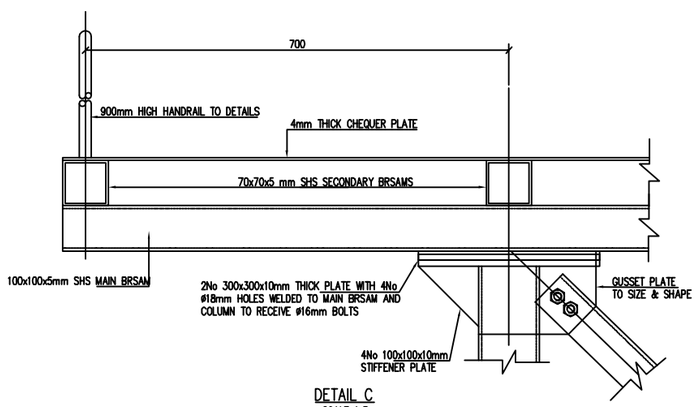

300x200 TIE BRSAM TBM01(4No)
SCALE 1:25




DETAIL A
SCALE 1:5




DETAIL B
SCALE 1:5




DETAIL C
SCALE 1:5

## GENERAL NOTES

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| NO. | REVISION | DATE | APPR. |
|---|---|---|---|
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CLIENT

**CHILDFUND**

PROJECT

PROPOSED 6M HIGH ELEVATED WATER TANK AT GARISSA SCHOOL FOR THE DEAF

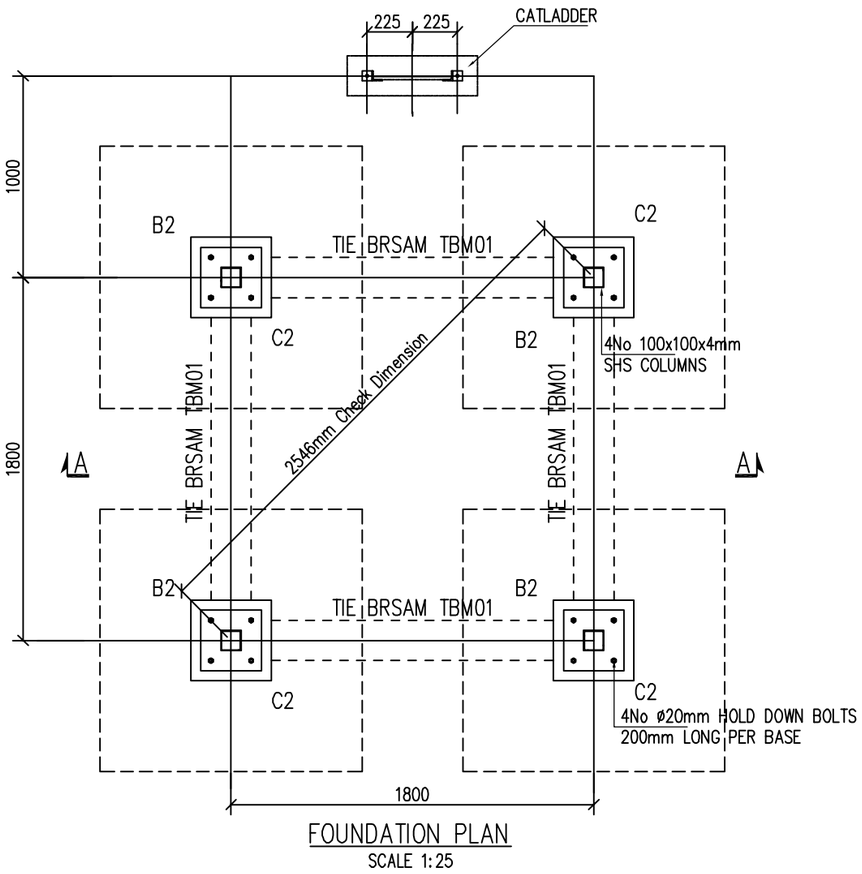
DRAWING TITLE

WATER TANK TOWER DETAILS

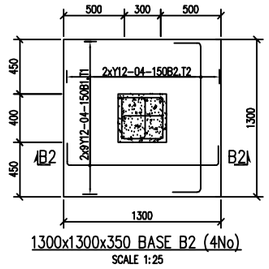
| | | |
|---|---|---|
| DRAWN BY | NM. | |
| CHECKED BY | NM. | |
| APPROVED BY | NM. | |
| DATE | JULY 2026 | |
| PROJECT NUMBER: | | |
| DRAWING NUMBER: | | |

**TENDER DRAWINGS**

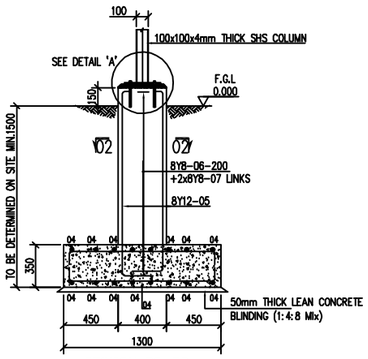
ChildFund®



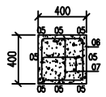

FOUNDATION PLAN
SCALE 1:25



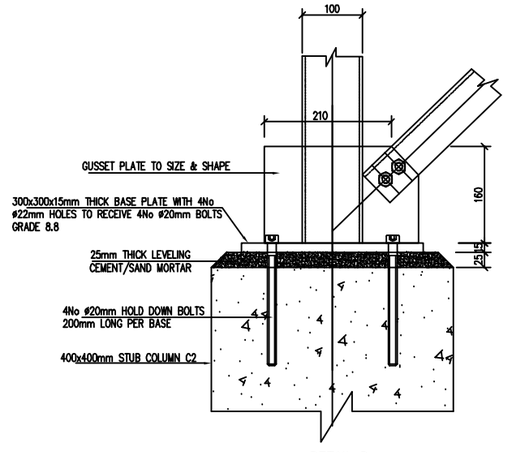

1300x1300x350 BASE B2 (4No)
SCALE 1:25



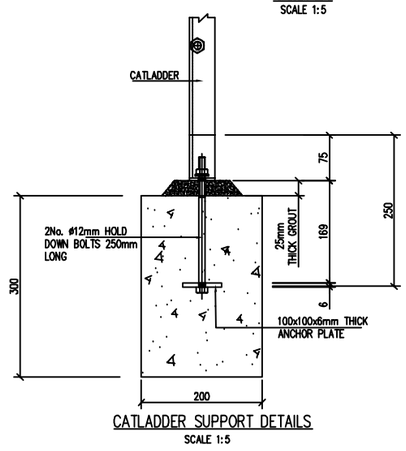

SECTION B2-B2
400x400 COLUMNS C2 (4No)
SCALE 1:25




SECTION 02-02
SCALE 1:25




DETAIL D
SCALE 1:5




CATLADDER SUPPORT DETAILS
SCALE 1:5

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| NO. | REVISION | DATE | APPR. |
|---|---|---|---|
| | | | |
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CLIENT

**CHILDFUND**

PROJECT

PROPOSED 6M HIGH ELEVATED WATER TOWER AT GARISSA SCHOOL FOR THE DEAF

DRAWING TITLE

WATER TANK TOWER FOUNDATION DETAILS

| | | |
|---|---|---|
| DRAWN BY | NM. | |
| CHECKED BY | NM. | |
| APPROVED BY | NM. | |
| DATE | JULY 2026 | |
| PROJECT NUMBER: | | |
| DRAWING NUMBER: | | |

**TENDER DRAWINGS**

ChildFund®