

REPUBLIC OF KENYA



MINISTRY OF ROADS, TRANSPORT & PUBLIC WORKS  
DEPARTMENT OF PUBLIC WORKS

**PROPOSED  
CONSTRUCTION OF NG-CDF OFFICE BLOCK**

**AT**

**RHAMU NG-CDF OFFICE**  
MANDERA NORTH CONSTITUENCY

**TENDER DOCUMENTS**

**Prepared: -**

Sub-County Works Officer,  
Department of Public Works  
P.O. Box 49-70300,  
MANDERA

**Issued: -**

Fund Account Manager,  
NG-CDF Mandera North Constituency,  
P.O. Box 255-70300  
MANDERA

**OCTOBER, 2020**

**BILL No. 1**  
**PRELIMINARIES**

**BILLS OF QUANTITIES FOR THE PROPOSED CONSTRUCTION OF NG- CDF**  
**OFFICE BLOCK AT RHAMU TOWN IN MANDERA NORTH CONSTITUENCY**

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**BILLS OF QUANTITIES FOR THE PROPOSED CONSTRUCTION OF NG- CDF OFFICE BLOCK AT RHAMU TOWN IN MANDERA NORTH CONSTITUENCY**

**Supplied As Part of the Contract for the Proposed Construction of NG- CDF Office Block at Rhamu Town in Mandera North Constituency**

Issued by: -

**Fund Account Manager,  
NG-Constituency Development Fund,  
Mandera North Constituency,  
P. O. Box 255-70300,  
MANDERA**

The contract for the above-mentioned works entered into this ..... day of ..... 2020 by undersigned refers to these Bills of Quantities and the Department of Public works General Specification dated March, 1976 (together with any amendments issued thereto) shall be read and construed as part of the said contract.

.....  
**CONTRACTOR**

.....  
**FUND ACCOUNT MANAGER**

Date: .....

Date: .....

**SPECIAL NOTES**

The contractor is required to check the numbers of the pages of these Bills of Quantities and should he find any missing or in duplicate or figures indistinct he must inform the SCWO, Department of Public Works at once and have the same rectified.

Should the contractor be in doubt about the precise meaning of any item or figure for any reason whatsoever, he must inform the SCWO, Department of Public Works in order that the correct meaning may be decided before the date for submission of tenders.

No liability will be admitted nor claim allowed in respect of errors in the Contractor's Tender due to mistakes in the specifications, which should have been rectified in the manner, described above.

**SIGNATURE PAGE AND NOTES**

# **FORM OF CONTRACT**

The form of contract shall be as stipulated in the Republic of Kenya's Standard Tendering Document for procurement of Building and associated Civil Engineering works (December 2009 Edition).

The tenderer is advised to first read and understand this document especially the first two sections i.e. instructions to tenderers and the conditions of contract before pricing these Bills.

A copy of the document is available at the Department of Public Works, P.O. Box 49-70300, MANDERA

ACC/01

## **APPENDIX TO CONDITIONS OF CONTRACT**

**THE EMPLOYER IS:-**

Name: **NG CDF- MANDERA NORTH CONSTITUENCY**

Address: **P.O. BOX 255-70300, MANDERA.**

Name of Authorized Representative: **ACCOUNT FUND MANAGER –  
Mandera North Constituency,  
P.O Box 255-70300, Mandera**

E-mail: [cdfmanderanorth@ngcdf.go.ke](mailto:cdfmanderanorth@ngcdf.go.ke)

Fax/Tel : .....

The Project Manager is: **SCWO – Mandera North Sub County**  
Address: **P.O. BOX 49-70300, Mandera**

Telephone: .....

E-mail: [mdrpublicworks@gmail.com](mailto:mdrpublicworks@gmail.com)

Tender responsiveness minimum criteria will be based on the following requirements.

**Mandatory requirements**

- a) Provide Copy of Business Registration/Incorporation;
- b) Provide PIN/VAT registration certificate
- c) Provide Copy of current and valid Tax Compliance Certificate;
- d) Must provide a bid bond of Kshs.80,000 which must remain valid for 120 days (after the expiry of tender validity period) in form of a bank guarantee from a reputable bank or approved insurance by public procurement regulatory authority.

**Technical requirements**

- a) Proof of adequate Equipment holding for the specified type of job
- b) Key technical Personnel to be engaged.
- c) Valid CR12 from registrar of companies
- d) Business permit
- e) Provide valid National Construction Authority certificate (NCA 6 & above) and active practicing license
- f) Dully filled, signed and stamped form of tender
- g) Dully filled, signed and stamped confidential business questionnaire
- h) Proof of Similar works for the equivalent works and value for the last three years
- i) The last Three years authenticated audited accounts
- j) The last six months bank statements in the name of the company.
- k) Litigation history of the company (both court and arbitration cases)
- l) Evidence of sound financial standing and access to bank credit line
- m) Copy of MR. Receipt.

The name (and identification number) of the Contract is:- **PROPOSED CONSTRUCTION OF MANDERA NORTH NG- CDF OFFICE BLOCK AT RHAMU TOWN .**

The works consist of: **Construction of Administration offices, ablutions and related civil works.**

The Start Date shall be **AGREED WITH THE PROJECT MANAGER**

The Intended Completion Date for the whole of the Works shall be **(20) weeks from the commencement date as agreed with the Project Manager-----**

The following documents also form part of the Contract:  
**AS LISTED IN CLAUSE 2.3 OF CONDITIONS OF CONTRACT**

The Contractor shall submit a revised program for the Works within **SEVEN (7) days** of delivery of the Letter of Acceptance.

The Site Possession Date shall be **AGREED WITH THE PROJECT MANAGER**

The Site is located at **Rhamu Town – Mandera North Constituency.**

The Defects Liability period is **180 days**

*ACC/02*

The minimum insurance covers shall be; **“ALL RISKS INSURANCE”**

The following events shall also be Compensation Events:

1. **NONE (ONLY AS LISTED IN CLAUSE 24 OF THE CONDITIONS OF CONTRACT**

- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_

The period between Program updates is **30** days.

The amount to be withheld for late submission of an updated Program is **FULL CERTIFICATE**

The proportion of payments retained is **10%** percent.

The Price Adjustment Clause **SHALL NOT** apply

The liquidated damages for the whole of the Works is Kshs..... (per week)

The Performance Security shall be for the following minimum amounts equivalent as a percentage of the Contract Price **5 percent (%)**

The Completion Period for the Works is **(20) Weeks.**

The rate of exchange for calculation of foreign currency payments is **not applicable**

The schedule of basic rates used in pricing by the Contractor is as attached [*Contractor to attach*].

Advance Payment **SHALL NOT be** granted.

Prices for **V.A.T should be** included in the Contractor's Rates in the Bills of Quantities where applicable.

The Bidder should submit **ONLY ONE (1 NO.) ORIGINAL COPY** of the Bills of Quantities and not two (2No.) as indicated in Clause 4.1 of the Instruction to Tenderers.

# **STANDARD FORMS**

- (i) Form of Tender
- (ii) Form of Agreement
- (iii) Form of Tender Security
- (iv) Performance Bank Guarantee
- (v) Qualification Information
- (vi) Tender Questionnaire
- (vii) Confidential Business Questionnaire
- (viii) Details of Sub-Contractors



**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 Contractor]

of \_\_\_\_\_ [Address of Contractor]

Witness; Name \_\_\_\_\_

Address \_\_\_\_\_

Signature \_\_\_\_\_

Date \_\_\_\_\_

SF/02

## FORM OF AGREEMENT

**THIS AGREEMENT**, made the \_\_\_\_\_ day of \_\_\_\_\_ 20 \_\_\_\_\_

Between \_\_\_\_\_ of [or whose registered office is situated at] \_\_\_\_\_ (hereinafter called "**the Employer**") of the one part **AND**

\_\_\_\_\_ of [or whose registered office is situated at] \_\_\_\_\_ (hereinafter called "**the Contractor**") of the other part.

WHEREAS THE Employer is desirous that the Contractor executes

\_\_\_\_\_ (*Name and identification number of Contract*) (Hereinafter called "the Works") located at \_\_\_\_\_ [*Place/location of the Works*] and

the Employer has accepted the tender submitted by the Contractor for the execution and completion of such Works and the remedying of any defects therein for the Contract Price of Kshs \_\_\_\_\_ [*Amount in figures*], Kenya Shillings \_\_\_\_\_ [*Amount in words*].

NOW THIS AGREEMENT WITNESSETH as follows:

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents shall be deemed to form and shall be read and construed as part of this Agreement i.e.
  - (i) Letter of Acceptance
  - (ii) Form of Tender
  - (iii) Conditions of Contract Part I
  - (iv) Conditions of Contract Part II and Appendix to Conditions of Contract
  - (v) Specifications
  - (vi) Drawings
  - (vii) Priced Bills of Quantities

SF/03

3. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy any defects therein in conformity in all respects with the provisions of the Contract.
4. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties thereto have caused this Agreement to be executed the day and year first before written.

The common Seal of \_\_\_\_\_

Was hereunto affixed in the presence of \_\_\_\_\_

Signed Sealed, and Delivered by the said \_\_\_\_\_

Binding Signature of Employer \_\_\_\_\_

Binding Signature of Contractor \_\_\_\_\_

In the presence of:-

(i) Name \_\_\_\_\_

Address \_\_\_\_\_

Signature \_\_\_\_\_

[ii] Name \_\_\_\_\_

Address \_\_\_\_\_

Signature \_\_\_\_\_

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**FORM OF TENDER SECURITY**

WHEREAS .....  
(Hereinafter called "the Tenderer") has submitted his tender dated ..... for the  
construction of.....  
(Name of Contract)

KNOW ALL PEOPLE by these presents that WE .....  
having our registered office at .....  
(hereinafter called "the Bank"), are bound unto.....  
(hereinafter called "the Employer") in the sum of Kshs... .....  
for which payment well and truly to be made to the said Employer, the Bank binds itself,  
its successors and assigns by these presents sealed with the Common Seal of the said  
Bank this .....Day of .....20.....

**THE CONDITIONS** of this obligation are:

- 1. If after tender opening the tenderer withdraws his tender during the period of tender validity specified in the instructions to tenderers  
Or
- 2. If the tenderer, having been notified of the acceptance of his tender by the Employer during the period of tender validity:
  - (a) fails or refuses to execute the form of Agreement in accordance with the Instructions to Tenderers, if required; or
  - (b) fails or refuses to furnish the Performance Security, in accordance with the Instructions to Tenderers;

We undertake to pay to the Employer up to the above amount upon receipt of his first written demand, without the Employer having to substantiate his demand, provided that in his demand the Employer will note that the amount claimed by him is due to him, owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including thirty (30) days after the period of tender validity, and any demand in respect thereof should reach the Bank not later than the said date.

\_\_\_\_\_  
*[Date]*

\_\_\_\_\_  
*[signature Of Bank]*

\_\_\_\_\_  
*[Witness]*

\_\_\_\_\_  
*[Seal]*

**PERFORMANCE BANK GUARANTEE**

To: \_\_\_\_\_ (Name of Employer)  
\_\_\_\_\_ (Date) \_\_\_\_\_ (Address of Employer)

Dear Sir,

WHEREAS \_\_\_\_\_ (hereinafter called "the Contractor") has undertaken, in pursuance of Contract No. \_\_\_\_\_ dated \_\_\_\_\_ to execute \_\_\_\_\_ (hereinafter called "the works')

AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with his obligations in accordance with the Contract;

AND WHEREAS we have agreed to give the Contractor such a Bank Guarantee:

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Contractor, up to a total of Kshs. \_\_\_\_\_ (amount of Guarantee in figures) in \_\_\_\_\_ Kenya Shillings \_\_\_\_\_ (amount of Guarantee in words), and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of Kenya Shillings \_\_\_\_\_ (amount of Guarantee in words) as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Contractor before presenting us with the demand.

We further agree that no change, addition or other modification of the terms of the Contract the Works to be performed there under or of any of the Contract documents which may be made between you and the Contractor shall in any way release us from any liability under this Guarantee, and we hereby waive notice of any change, addition, or modification.

This guarantee shall be valid until the date of issue of the Certificate of Completion.

SIGNATURE AND SEAL OF THE GUARANTOR \_\_\_\_\_

Name of Bank \_\_\_\_\_

Address \_\_\_\_\_

Date \_\_\_\_\_

SF/ 06

## QUALIFICATION INFORMATION

### 1. Individual Tenderers or Individual Members of Joint Ventures

1.1 Constitution or legal status of tenderer (attach copy or Incorporation Certificate)

Place of registration: \_\_\_\_\_

Principal place of business \_\_\_\_\_

Power of attorney of signatory of tender \_\_\_\_\_

1.2 Total annual volume of construction work performed in the last five years

Year	Volume	
	Currency	Value

1.3 Work performed as Main Contractor on works of a similar nature and volume over the last five years. Also list details of work under way or committed, including expected completion date.

Project name	Name of client and contact person	Type of work performed and year of completion	Value of Contract

1.4 Major items of Contractor's Equipment proposed for carrying out the Works. List all information requested below. Refer also to Clause 1.7 (c) of the Instructions to Tenderers.

Item of Equipment	Description, Make and age (years)	Condition (new, good, poor) and number available	Owned, leased (from whom?), or to be purchased (from whom?)

- 1.5 Qualifications and experience of key personnel proposed for administration and execution of the Contract. Attach biographical data. Refer also to clause 1.5 (e) of the Instructions to Tenderers and Clause 9.1 of the Conditions of Contract.

Position	Name	Years of experience (general)	Years of experience in proposed position

- 1.6 Proposed subcontracts and firms involved. Refer to Clause 7.1 of the Conditions of Contract.

Sections of the Works	Value of Subcontract	Subcontractor (name and address)	Experience in similar work

SF/08

1.7 Financial reports for the last five years: balance sheets, profit and loss statements, auditor's reports, etc. List below and attach copies.

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1.8 Evidence of access to financial resources to meet the qualification requirements: cash in hand, lines of credit, etc. List below and attach copies of supportive documents.

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1.9 Name, address and telephone, telex and facsimile numbers of banks that may provide reference if contacted by the Employer.

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1.10 Statement of compliance with the requirements of Clause 1.2 of the Instructions to Tenderers.

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## 2 Joint Ventures

- 2.4 The information listed in 1.1 – 1.10 above shall be provided for each partner of the joint venture.
- 2.5 Attach the power of attorney of the signatory(ies) of the tender authorizing signature of the tender on behalf of the joint venture
- 2.6 Attach the Agreement among all partners of the joint venture (and which is legally binding on all partners), which shows that:
  - a) all partners shall be jointly and severally liable for the execution of the Contract in accordance with the Contract terms;
  - b) one of the partners will be nominated as being in charge, authorized to incur liabilities and receive instructions for and on behalf of any and all partners of the joint venture; and
  - c) the execution of the entire Contract, including payment, shall be done exclusively with the partner in charge.

**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 License No..... Expiring date.....

Maximum value of business which you can handle at any time: Kenya

Shillings.....

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 the 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 above information is correct.

.....

(Title) (Signature) (Date)

- Attach proof of citizenship

**DETAILS OF SUB-CONTRACTORS**

If the Tenderer wishes to sublet any portions of the Works under any heading, he must give below details of the sub-contractors he intends to employ for each portion.

Failure to comply with this requirement may invalidate the tender.

(1) Portion of Works to be sublet.....

[i) Full name of Sub-contractor  
and address of head office: .....

.....

(ii) Sub-contractor's experience  
of similar works carried out .....  
in the last 3 years with .....  
Contract value.....

(2) Portion of Works to sublet: .....

(i) Full name of sub-contractor  
and address of head office: .....

.....

.....

(ii) Sub-contractor's experience  
of similar works carried out .....  
in the last 3 years with .....  
contract value: .....

\_\_\_\_\_  
[Signature of Tenderer)

\_\_\_\_\_  
Date

SF/14

## **PREAMBLES AND PRICING NOTES**

### **A. GENERALLY**

All work to be carried out in accordance with the Ministry of Public Works General Specifications for Building Works issued in 1976 or as qualified or amended.

### **B. MANUFACTURERS' NAMES**

Where manufacturers' names and catalogue references are given for guidance to quality and standard only, alternative manufacturer of equal quality will be accepted at the discretion of the Project Manager.

### **C. WALLING**

All precast concrete blocks shall be manufactured by the methods and to the sizes specified in the Ministry of Public Works "Specification for Metric Sized Concrete Blocks for Building (1972)"

Walling of 100 mm thickness or under shall be reinforced with hoop iron every alternate course.

Prices for walling must allow for all costs in preparing, packing and sending sample blocks for testing as and when required by the Project Manager.

### **D. CARPENTRY**

The grading rules for cypress shall be the same as for podocarpus and all timber used for structural work shall be select (second grade).

All structural timber must conform to the minimum requirements for moisture content and preservative treatment and timber prices must allow for preparing, packing and sending samples for testing when required.

Prices must also include for all nails and fasteners.

## **A. JOINERY**

Cypress for joinery shall be second grade in accordance with the latest grading rules of the Kenya Government.

Where Mahogany is specified, this refers to prime grade only. The Contractor may with the approval of the Project Manager, use either Msharagi or Mvuli in lieu of Mahogany but such approval will be given only in the case of shortages of the hardwoods specified.

Plugging shall be carried out by drilling walling or concrete with masonry drill and filling with propriety plugs of the correct sizes. Cutting with hammer and chisel will not be allowed.

Prices for joinery must include for pencil rounded arises, protection against damage, nails, screws, framing and bedding in cement mortar as required.

Sizes given for joinery items are nominal sizes and exact dimensions of doors, etc, must be ascertained on site.

## **B. IRONMONGERY**

Ironmongery shall be as specified in the Bills of Quantities or equal and approved.

Prices must include for removing and re-fixing during and after painting, labeling all keys, and for fixing to hardwood, softwood, concrete or block work.

Catalogue references given for ironmongery are for purposes of indicating quality and size of item(s). Should the Contractor wish to substitute the specified item(s) with others of equal quality, he must inform the Project Manager and obtain approval in writing.

## **C. STRUCTURAL STEELWORK**

All structural steelwork shall comply with the Ministry of Public Works "Structural Steelwork Specification (1973) and shall be executed by an approved Sub-contractor.

## **PLASTERWORK AND OTHER FINISHES**

All finishing shall be as described in the general specifications and in these Bills of Quantities.

Prices for paving are to include for brushing concrete clean, wetting and coating with cement and sand grout 1:1.

Rates for glazed wall tiling are to include for a 12 mm cement and sand (1:4) backing screed specified in these Bills of Quantities.

## **GLAZING**

Where polished plate glass is specified, this refers to general glazing quality.

Prices for glazing shall include for priming of rebates before placing putty.

The Contractor will be responsible for replacing any broken or scratched glass and handing over in perfect condition.

## **PAINTING**

All paint shall be 1<sup>st</sup> quality "Crown" or other equal and approved

Painting shall be applied in accordance with the manufacturers' instructions.

Prices for painting are to include for scaffolding, preparatory work, priming coats, protection of other works and for cleaning up on completion. Prices for painting on galvanized metal are to include for mordant solution as necessary.



**BILL NO 1: PRELIMINARIES**  
**PARTICULAR PRELIMINARIES**

ITEM	DESCRIPTION	Kshs.
A	<p><b>PRICING ITEMS OF PRELIMINARIES</b></p> <p>Prices <b>SHALL BE INSERTED</b> against items of “preliminaries” in the tenderer’s priced Bills of Quantities. <b>The contractor is advised to read and understand all the necessary preliminary items.</b></p>	
B	<p><b>DESCRIPTION OF THE WORKS:</b></p> <p>The works comprises:- <b>Construction of Office Block, Ablution blocks, Civil and related works</b></p>	
C	<p><b>MEASUREMENTS</b></p> <p>In the event of any discrepancies arising between the Bills of Quantities and the actual works, the site measurements shall generally take precedence. However, such discrepancies between any contract documents shall immediately be referred to the PROJECT MANAGER in accordance with Clause 22 of the Conditions of Contract. The discrepancies shall then be treated as a variation and be dealt with in accordance with Clause 22 of the said Conditions.</p>	
D	<p><b>LOCATION OF SITE</b></p> <p><b>The site is located at Rhamu Town. The Contractor is advised to visit the site, to familiarize with the nature and position of the site. No claims arising from the Contractor’s failure to do so will be entertained.</b></p>	
E	<p><b>P.C. AND PROVISIONAL SUM</b></p> <p>The allowances given for the above is for full contract.</p>	
	<p><b>Carried to Collection</b></p>	

ITEM	DESCRIPTION	Kshs.
A	<p><b>CLEARING AWAY</b></p> <p>The Contractor shall remove all temporary works, rubbish, debris and surplus materials from the site as they accumulate and upon completion of the works, remove and clear away all plant, equipment, rubbish, unused materials and stains and leave in a clean and tidy state to the reasonable satisfaction of the Project Manager.</p> <p><b>The whole of the works shall be delivered up clean, complete and in perfect condition in every respect to the satisfaction of the Project Manager.</b></p>	
B	<p><b><u>CLAIMS</u></b></p> <p>It shall be a condition of this contract that upon it becoming reasonably apparent to the Contractor that he has incurred losses and/or expenses due to any of the contract conditions, or by any other reason whatsoever, he shall present such claim or intent to claim notice to the PROJECTMANAGER within the contract period. No claims shall be entertained upon the expiry of the said contract period.</p>	
C	<p><b>PREVENTION OF ACCIDENT, DAMAGE OR LOSS</b></p> <p>The Contractor is notified that these works are to be carried out on a restricted site where the office is going on with its normal activities. The Contractor is instructed to take reasonable care in the execution of the works as to prevent accidents, damage or loss and disruption of normal activities being carried out by the client. The Contractor shall allow in his rates any expense he deems necessary by taking such care within the site. Noise should be minimized and any other kind of disruptions.</p>	
D.	<p><b><u>TAXES</u></b></p> <p><b>The tenderers shall include in their rates any taxes that they may be required to pay after execution of and payment for the works. It shall be the sole responsibility of the contractor to remit such payments directly to the right authorities.</b></p>	
	<b>Carried to Collection</b>	
<i>Item</i>	<i>DESCRIPTION</i>	<b>Kshs.</b>

<p>A</p> <p>B</p> <p>C</p> <p>D</p> <p>E</p> <p>F</p>	<p><b>WORKING CONDITIONS</b></p> <p>The Contractor shall allow in his rates for any interference that he may encounter in the course of execution of the works.</p> <p><b>SIGNBOARD</b></p> <p>Allow for providing, erecting, maintaining throughout the course of the Contract and afterwards clearing away a signboard as designed, specified and approved by the Project Manager.</p> <p><b>LABOUR CAMPS</b></p> <p>The Contractor shall not be allowed to house labour on site. Allow for transporting workers to and from the site during the tenure of the contract.</p> <p><b>MATERIALS FROM DEMOLITIONS</b></p> <p>Any materials arising from demolitions and not re-used shall become the property of the Client. The Contractor shall allow in his rates the cost of transporting the demolished materials as directed by the PROJECT MANAGER.</p> <p><b>PRICING RATES</b></p> <p>The tenderer shall include for all costs in executing the whole of the works, including transport from stores, fixing, all to comply with the said Conditions of Contract. A tender which plus or minus 10% shall be considered as non-responsive.</p> <p><b>TENDER SECURITY</b></p> <p>The tender must be accompanied by a tender security or else the tender shall be disqualified.</p>	
	<p><b>Carried to Collection</b></p>	

<i>Item</i>	<i>DESCRIPTION</i>	<b>Kshs.</b>
A	<p><b>SECURITY</b></p> <p>The Contractor shall allow for providing adequate security for the works and the workers in the course of execution of this contract. No claim will be entertained from the Contractor for not maintaining adequate security for both the works and workers.</p>	
B	<p><b>URGENCY OF THE WORKS</b></p> <p>The Contractor is notified that these “works are urgent” and should be completed within the period stated in these Particular Preliminaries.</p> <p>The Contractor shall allow in his rates for any costs he deems that he/she may incur by having to complete the works within the stipulated contract period.</p>	
C	<p><b>EXISTING SERVICES</b></p> <p>Prior to the commencement of any work, the Contractor is to ascertain from the relevant authority the exact position, depth and level of all existing services in the area and he/she shall make whatever provisions may be required by the authorities concerned for the support, maintenance and protection of such services.</p>	
D	<p><b><u>TRANSPORT</u></b></p> <p>The contractor shall provide when required for site trips only a vehicle to comfortably seat at least four (4) persons including maintained License.</p>	
F	<p><b><u>FIRM PRICE CONTRACT</u></b></p> <p>This is a firm (fixed) price contract. The contractor must allow for price changes during the contract period.</p>	
	<p><b><u>Carried to Collection</u></b> <b>PP/4</b></p>	

<i>ITEM</i>	<i>DESCRIPTION</i>	<b>Kshs.</b>
A	<p><b>PERFORMANCE BOND</b></p> <p>A bond of 5% of the contract sum will be required in accordance with clause 6.00 on award of contract of the Instructions to Tenderer's. No payment on account for the works executed will be made to the contractor until he has submitted the Performance Bond to the Project Manager duly signed, sealed and stamped from an approved Bank.</p>	
B	<p><b><u>TENDER DOCUMENTS</u></b></p> <p>Tender documents are as listed in Clause 2.1 of the Instruction to Tenderer's Page STD/8</p>	
C	<p><b><u>DELIVERY OF TENDER</u></b></p> <p>Tenders and all documents in connection therewith, as specified above must be delivered in the addressed envelope which should be properly sealed and deposited at the offices as specified in the letter accompanying these documents.</p> <p>Tenders will be opened at the time specified in the letter accompanying these Tender Documents or as indicated in the advertisement. Tenders delivered /received later than the above time will not be opened.</p>	
D	<p><b>VALUE ADDED TAX</b></p> <p>The Contractor's attention is drawn to the Legal Notice in the Finance Act part 3 Section 21(b) operative from 1<sup>st</sup> September, 1993 which requires payment of VAT on all contracts. However the contractor shall make provision for this in the individual rates as it will not be separately provided for in this document.</p>	
	<b>Total Carried to Collection</b>	
<i>Item</i>	<i>DESCRIPTION</i> <span style="float: right;"><i>PP/5</i></span>	<b>Kshs.</b>

**PARTICULARS OF INSERTIONS TO BE MADE  
IN APPENDIX TO CONTRACT AGREEMENT**

The following are the insertions to be made in the appendix to the Contract Agreement: -

A	<b>Period of Final Measurement</b>	3 Months from Practical completion
B	<b>Defects Liability Period</b>	6 Months from practical completion
C	<b>Date for Possession</b>	To be agreed with the Project Manager
D	<b>Date for Completion</b>	To be agreed with the Project Manager
E	<b>Liquidated and Ascertained</b>	At the rate of <b>Kshs.....</b> per week or part thereof
F	<b>Prime cost sums for which the Contractor desires to tender</b>	..... ..... .....
G	<b>Period of Interim Certificates</b>	Monthly
H	<b>Period of Honouring Certificates</b>	30 days
J	<b>Percentage of Certified Value Retained</b>	10%
K	<b>Limit of Retention Fund</b>	10 %

**Carried to Collection**

ITEM	DESCRIPTION	AMOUNT
<b><u>SUMMARY OF PARTICULAR PRELIMINARIES</u></b>		
A	Total from page PP/1	
B	Total from page PP/2	
C	Total from page PP/3	
D	Total from page PP/4	
E	Total from page PP/5	
F	Total from page PP/6	
<b>TOTAL CARRIED TO COLLECTION PG GP/13</b>		

PP/7

## 02: GENERAL PRELIMINARIES

Item	Description	Kshs.
	<p><b>GENERAL PRELIMINARIES</b></p> <p>A. <b>PRICING OF ITEMS OF PRELIMINARIES AND PREAMBLES</b></p> <p>Prices shall be inserted against items of Preliminaries in the Contractor's priced bills of Quantities and Specification but not in the unit rates</p> <p>B. <b><u>ABBREVIATIONS</u></b></p> <p>Throughout the Bills, unites of measurement and terms are abbreviated and shall be interpreted as follows: -</p> <p>C.M.            Shall mean cubic metre</p> <p>S.M             Shall mean square metre</p> <p>L.M.            Shall mean linear metre</p> <p>M.M            Shall mean Millimetre</p> <p>Kg.             Shall mean Kilogramme</p> <p>No.             Shall mean Number</p> <p>Prs.            Shall mean Pairs</p> <p>B.S.            Shall mean the British Standard Specification Published by the British Standards Institution, 2 Park Street, London W.I., England.</p> <p>Ditto           Shall mean the whole of the preceding description except as qualified in the description in which it occurs.</p> <p>m.s.            Shall mean measured separately.</p> <p>a.b.d           Shall mean as before described.</p>	
	<b>Carried to collection</b>	



Item	Description	Kshs.
A.	<p><b>EXCEPTION TO THE STANDARD METHOD OF MEASUREMENT</b>  Attendance; Clause B19(a) of the Standard Method of Measurement is deleted and the following clause is substituted: -  Attendance on nominated Sub-Contractors shall be given as an item in each case shall be deemed to include: allowing use of standard scaffolding, mess rooms, sanitary accommodation and welfare facilities; provision of special scaffolding where necessary; providing space for office accommodation and for storage of plant and materials; providing light and water for their work; clearing away rubbish; unloading checking and hoisting; providing electric power and removing and replacing duct covers, pipe casings and the like necessary for the execution and testing of Sub-Contractor’s work and being responsible for the accuracy of the same.</p>	
B.	<p><b>Fix Only: -</b>  “Fix Only” shall mean take delivery at nearest railway station (Unless otherwise stated), pay all demurrage charges, load and transport to site where necessary, unload, store, unpack, assemble as necessary, distribute to position, hoist and fix only.</p>	
C.	<p><b>EMPLOYER</b>  <b>The “Employer” is:- MANDERA NORTH NG-CDF</b>  The term “Employer” and “Client” wherever used in the contract document shall be synonymous</p>	
D.	<p><b>PROJECT MANAGER</b>  The term “P.M.” wherever used in these Bills of Quantities shall be deemed to imply the Project Manager as defined in Condition 1 of the Conditions of Contract or such person or persons as may be duly authorized to represent him on behalf of the Client.</p>	
E.	<p><b>ARCHITECT</b>  The term “Architect” shall be deemed to mean “The P.M” as defined above whose address unless otherwise notified is Department of Public Works, P.O. Box 49, MANDERA</p>	
F.	<p><b>QUANTITY SURVEYOR</b>  The term “Quantity Surveyor” shall be deemed to mean “The P.M.” as defined above whose address unless otherwise notified is Department of Public Works, P.O. Box 49, MANDERA.</p>	
	<p><b>Carried to collection</b></p>	

Item	Description	Kshs.
A.	<p><b>ELECTRICAL ENGINEER</b></p> <p>The term “Electrical engineer” shall be deemed to mean “The P.M.” as defined above whose address unless otherwise notified is Department of Public Works.</p>	
B.	<p><b>MECHANICAL ENGINEER</b></p> <p>The term “Mechanical Engineer” shall be deemed to mean “The P.M.” as defined above whose address unless otherwise notified is Department of Public Works.</p>	
C.	<p><b>STRUCTURAL ENGINEER</b></p> <p>The term “Structural Engineer” shall be deemed to mean “The P.M.” as defined above whose address unless otherwise notified is Department of Public Works.</p>	
D.	<p><b>FORM OF CONTRACT</b></p> <p>The Form of Contract shall be as stipulated in the Republic of Kenya’s Standard Tender Document for Procurement of Building Works (2000 Edition). A copy of which is available at the Department of Public Works – MANDERA.</p>	
E.	<p><b>CONDITIONS OF CONTRACT</b></p> <p>These are numbered from 1 – 37 and are contained in the above named document. Particulars of insertions to be made in the Appendix to the Contract Agreement will be found in the Particular Preliminaries part of these Bills of quantities.</p>	
F.	<p><b>BOND</b></p> <p>The Contractor shall find and submit an <b>approved bank</b> and who will be willing to be bound to the client in an amount equal to five percent (5%) of the Contract amount for the due performances of the Contract up to the date of completion as certified by the PROJECT MANAGER and who will when and if called upon, sign and Bond to that effect on the relevant standard form included herein. (Without the addition of any limitations) on the same day as the contract Agreement is signed, by the Government, the Contractor shall furnish within seven days another Surety to the approval of the Government.</p>	
	<p><b>Carried to collection</b></p>	

Item	Description	Kshs.
A.	<p><b>PLANTS, TOOLS AND VEHICLES</b></p> <p>Allow for providing all scaffolding, plant, tools and vehicles required for the works except in so far as may be stated otherwise herein and except for such items specifically and only required for the use of nominated Sub-Contractors as described herein. No timber used for scaffolding, formwork or temporary works of any kind shall be used afterwards in the permanent work.</p>	
B.	<p><b>TRANSPORT</b></p> <p>Allow for transport of workmen, materials from stores, etc. to and from the site at such hours and by such routes as may be permitted by the competent authorities.</p>	
C.	<p><b>MATERIALS AND WORKMANSHIP</b></p> <p>All materials and workmanship used in the execution of the work shall be of the best quality and description unless otherwise stated. The Contractor shall order all materials to be obtained from overseas immediately after the Contract is signed and shall also order materials to be obtained from local sources as early as necessary to ensure that they are onsite when required for use in the works. The Bills of Quantities shall not be used for the purpose of ordering materials.</p>	
D.	<p><b>SIGN FOR MATERIALS SUPPLIED</b></p> <p>The Contractor will be required to sign a receipt for all articles and materials supplied by the PROJECT MANAGER at the time of taking deliver thereof, as having received them in good order and condition, and will thereafter be responsible for any loss or damage and for replacements of any such loss or damage with articles and /or materials which will be supplied by the PROJECT MANAGER at the current market prices including Customs Duty and V.A.T., all at the Contractor's own cost and expense, to the satisfaction of the PROJECT MANAGER.</p>	
E.	<p><b>STORAGE OF MATERIALS</b></p> <p>The Contractor shall provide at his own risk and cost where directed on the site weather proof lock-up sheds and make good damaged or disturbed surfaces upon completion to the satisfaction of the PROJECT MANAGER Nominated Sub-contractors are to be made liable for the cost of any storage accommodation provided especially for their use.</p>	
	<p><b>Carried to collection</b></p>	

Item	Description	Kshs.
<p>A.</p> <p><b>SAMPLES</b></p> <p>The Contractor shall furnish at his own cost any samples of materials or workmanship including concrete test cubes required for the works that may be called for by the PROJECT MANAGER for his approval until such samples are approved by the PROJECT MANAGER and the PROJECT MANAGER, may reject any materials or workmanship not in his opinion to be up to approved samples. The PROJECT MANAGER shall arrange for the testing of such materials as he may at his discretion deem desirable, but the testing shall be made at the expense of the Contractor and not at the expenses of the PROJECT MANAGER. The Contractor shall pay for the testing in accordance with the current scale of testing charges laid down by the Ministry of Public Works.</p> <p>The procedure for submitting samples or materials for testing and the method of making for identification shall be as laid down by the PROJECT MANAGER. The Contractor shall allow in his tender for such samples and tests except those in connection with nominated sub-contractor's work.</p> <p>B.</p> <p><b>GOVERNMENT ACTS REGARDING WORK PEOPLE ETC.</b></p> <p>Allow for complying with all Government Acts, Orders and Regulations in connection with the employment of Labour and other matters related to the execution of the works. In particular the Contractor's attention is drawn to the provisions of the Factory Act 1950 and his tender must include for all costs arising or resulting from compliance with any Act, Order or Regulation relating to Insurances, pensions and holidays for workpeople or so the safety, health and welfare of the workpeople.</p> <p>The Contractor must make himself fully acquainted with current Acts and Regulations, including Police Regulations regarding the movement, housing, security and control of labour, labour camps, passes for transport, etc. It is most important that the Contractor, before tendering, shall obtain form the relevant Authority the fullest information regarding all such regulations and/or restrictions which may affect the organisation of the works, supply and control of labour, etc., and allow accordingly in his tender. No claim in respect of want of knowledge in this connection will be entertained.</p> <p>C.</p> <p><b>SECURITY OF WORKS ETC.</b></p> <p>The Contractor shall be entirely responsible for the security of all the works stores, materials, plant, personnel, etc., both his own and sub-contractors and must provide all necessary watching, lighting and other precautions as necessary to ensure security against theft, loss or damage and protection of the public.</p>		
	<p><b>Carried to collection</b></p>	

Item	Description	Kshs.
A.	<p><b>PUBLIC AND PRIVATE ROADS</b></p> <p>Maintain as required throughout the execution of the works and make good any damage to public or private roads arising from the consequent upon the execution of the works to the satisfaction of the local and other competent authority and the PROJECT MANAGER.</p>	
B.	<p><b>EXISTING PROPERTY</b></p> <p>The Contractor shall take every precaution to avoid damage to all existing property including roads, cables, drains and other services and he will be held responsible for and shall make good all such damage arising from the execution of this contract at his own expenses to the satisfaction of the PROJECT MANAGER.</p>	
C.	<p><b>VISIT SITE AND EXAMINE DRAWINGS</b></p> <p>The Contractor is recommended to examine the drawings and visit the site the location of which is described in the Particular Preliminaries hereof. He shall be deemed to have acquainted himself therewith as to its nature, position, means of access or any other matter which may affect his tender. No claim arising from his failure to comply with this recommendation will be considered.</p>	
D.	<p><b>ACCESS TO SITE AND TEMPORARY ROADS</b></p> <p>Means of access to the Site shall be agreed with the PROJECT MANAGER prior to commencement of the work and Contractor must allow for building any necessary temporary access roads.</p>	
E.	<p><b>AREA TO BE OCCUPIED BY THE CONTRACTOR</b></p> <p>The area of the site which may be occupied by the Contractor for use of storage and for the purpose of erecting workshops, etc., shall be defined on site by the PROJECT MANAGER.</p>	
	<b>Carried to collection</b>	

Item	Description	Kshs.
A.	<p><b>OFFICE, ETC. FOR THE PROJECT MANAGER</b></p> <p>The Contractor shall provide, erect and maintain where direct on site and afterwards dismantle the site office of the type noted in the Particular Preliminaries, complete the Furniture. He shall also provide a strong metal trunk complete with strong hasp and staple fastening and tow keys. He shall provide, erect and maintain a lock-up type water or bucket closet for the sole use of the PROJECT MANAGER including making temporary connections to the drain where applicable to the satisfaction of Government and Medical Officer of Health and shall provide services of cleaner and pay all conservancy charges and keep both office and closet in a clean and sanitary condition from commencement to the completion of the works and dismantle and make good disturbed surfaces. The office and closet shall be completed before the Contractor is permitted to commence the works.</p>	
B.	<p><b>WATER AND ELECTRICITY SUPPLY FOR THE WORKS</b></p> <p>The Contractor shall provide t his own risk and cost all necessary water, electric light and power required for use in the works. The Contractor must make his own arrangements for connection to the nearest suitable water main and for metering the water used. He must also provide temporary tanks and meters as required at his won cost and clear away when no longer required and make good on completion to the entire satisfaction of the PROJECT MANAGER. The Contractor shall pay all charges in connection herewith. No guarantee is given or implied that sufficient water will be available from mains and the Contractor must make his own arrangements for augmenting this supply at his own cost. Nominated Sub-Contractors are to be made liable for the cost of any water or electric current used and for any installation provided especially for their own use.</p>	
C.	<p><b>SANITATION OF THE WORKS</b></p> <p>The Sanitation of the works shall be arranged and maintained by the Contractor to the satisfaction of the Government and /or Local Authorities, Labour Department and the PROJECT MANAGER.</p>	
D.	<p><b>SUPERVISION AND WORKING HOURS</b></p> <p>The works shall be executed under the direction and to the entire satisfaction in all respects of the PROJECT MANAGER who shall at all times during normal working hours have access to the works and to the yards and workshops of the Contractor and Sub-Contractors or other places where work is being prepared for the contract.</p>	
E.	<p><b>PROVISIONAL SUMS</b></p> <p>The term “Provisional Sum” wherever used in these Bills of Quantities shall have the meaning stated in Section A item A7 (i) of the Standard Method of Measurement mentioned in Condition No. 16 of the conditions of Contract. Such sums are net and no addition shall be made to them for profit</p>	
	<p><b>Carried to Collection</b></p>	

GP/07

Item	Description	Kshs.
<p>A.</p> <p>B.</p> <p>C.</p>	<p><b>PRIME COST (OR P.C. ) SUMS</b></p> <p>The term “Prime Costs Sum” or “P.C. Sum” wherever used in these Bills of Quantities shall have the meaning stated in Section A item A7 (ii) of the Standard Method of Measurement mentioned in Condition No. 16 of the conditions of Contract. Persons of firms nominated by the PROJECT MANAGER to execute work or to provide and fix materials or goods as stated in Condition No. 20 of the Conditions of Contract are described herein as Nominated Sub-Contractors.</p> <p>Persons of firms so nominated to supply goods or materials are described herein as Nominated Suppliers.</p> <p><b>PROGRESS CHART</b></p> <p>The Contractor shall provide within two weeks of Possession of Site and in agreement with the PROJECT MANAGER a Progress Chart for the whole of the works including the works of Nominated Sub-Contractors; one copy to be handed to the PROJECT chart to be amended as necessary as the work proceeds.</p> <p><b>ADJUSTMENT OF P.C. SUMS</b></p> <p>In the final account all P.C. Sums shall be deducted and the amount properly expended upon the PROJECT MANAGER’S order in respect of each of them added to the Contract sum. The Contractor shall produce to the PROJECT MANAGER such quotations, invoices or bills, properly receipted, as may be necessary to show the actual details of the sums paid by the Contractor. Items of profit upon P.C. Sums shall be adjusted in the final account pro-rata to the amount paid. Items of “attendance” (as previously described) following P.C. Sums shall be adjusted pro-rata to the physical extent of the work executed (not pro-rata to the amount paid) and this shall apply even though the Contractor’s priced Bill shows a percentage in the rate column in respect of them.</p> <p>Should the Contractor be permitted to tender and his tender be accepted of any work for which a P.C. Sum is included in these Bill of Quantities profit and attendance will be allowed at the same rate as it would be if the work were executed by a Nominated Sub-Contractor.</p>	
	<p><b>Carried to collection</b></p>	

Item	Description	Kshs.
<p>A.</p> <p>B.</p> <p>C.</p> <p>D.</p>	<p><b>ADJUSTMENT OF PROVISIONAL SUMS</b></p> <p>In the final account all Provisional Sums shall be deducted and the value of the work properly executed in respect of them upon the PROJECT MANAGER’S order added to the Contract Sum. Such work shall be valued as described for Variations in Conditions No. 13 of the Conditions of Contract, but should any part of the work be executed by a Nominated Sub-Contractor, the value of such work or articles for the work be supplied by a Nominated Supplier, the value of such work or articles shall be treated as a P.C. Sum and profit and attendance comparable to that contained in the priced Bills of Quantities for similar items added.</p> <p><b>NOMINATED SUB-CONTRACTORS</b></p> <p>When any work is ordered by the PROJECT MANAGER to be executed by nominated sub-contractors, the Contractor shall enter into Sub-contracts as described in Condition No. 20 of the Conditions of Contract and shall thereafter be responsible for such sub-contractors in every respect. Unless otherwise described the Contractor is to provide for such Sub-Contractors any or all of the facilities described in these Preliminaries. The Contractor should price for these with the nominated Sub-contract Contractor’s work concerned in the P.C. Sums under the description “add for Attendance”.</p> <p><b>DIRECT CONTRACTS</b></p> <p>Notwithstanding the foregoing conditions, the client reserves the right to place a “Direct Contract” for any goods or services required in the works which are covered by a P.C. Sums in the Bills of Quantities and to pay for the same direct. In any such instances, profit relative to the P.C. Sum the priced Bills of Quantities will be adjusted as described for P.C. Sums and allowed.</p> <p><b>ATTENDANCE UPON OTHER TRADESMEN, ETC.</b></p> <p>The Contractor shall allow for the attendance of trade upon trade and shall afford any tradesmen or other persons employed for the execution of any work not included in this Contract every facility for carrying out their work and also for use of his ordinary scaffolding. The Contractor, however, shall not be required to erect any special scaffolding for them. The Contractor shall perform such cutting away for any making good after the work of such tradesmen or persons as may be ordered by the PROJECT MANAGER and the work will be measured and paid for to the extent executed at rates provided in these Bills.</p>	
	<p><b>Carried to collection</b></p>	



Item	Description	Kshs.
<p>A.</p> <p>B.</p> <p>C.</p> <p>D.</p>	<p><b>INSURANCE</b></p> <p>The Contractor shall insure as required in Condition Nos. 22 and 23 of the Conditions of Contract. No payment on account of the work executed will be made to the Contractor until he has satisfied the PROJECT MANAGER either by production of an Insurance Policy or and Insurance Certificates that the provision of the foregoing Insurance Clauses have been complied with in all respects. Thereafter the PROJECT MANAGER shall from time to time ascertain that premiums are duly paid up by the Contractor who shall if called upon to do so, produce the receipted premium renewals for the PROJECT MANAGER’S inspection.</p> <p><b>PROVISIONAL WORK</b></p> <p>All work described as “Provisional” in these Bills of Quantities is subject to re-measurement in order to ascertain in actual quality executed for which payment will be made. All “Provisional” and other work liable to adjustment under this Contract shall left uncovered for a reasonable time to allow all measurements needed for such adjustment to be taken by the PROJECT MANAGER.</p> <p>Immediately the work is ready for measuring, the Contractor shall give notice to the PROJECT MANAGER. If the Contractor makes default in these respects he shall if the PROJECT MANAGER so directs uncover the work to enable all measurements to be taken and afterwards reinstate at his own expenses.</p> <p><b>ALTERATIONS TO BILLS, PRICING, ETC.</b></p> <p>Any un-authorized alteration or qualification made to the text of the Bills of Quantities may cause the Tender to be disqualified and will in any case be ignored. The Contractor shall be deemed to have made allowance in his prices generally to cover any items against which no price has been inserted in the priced Bills of Quantities. All items of measured work shall be priced in detail and the Tenders containing Lump Sums to cover trades or groups of work must be broken down to show the price of each item before they will be accepted.</p> <p><b>BLASTING OPERATIONS</b></p> <p>Blasting will only be allowed with the express permission of the PROJECT MANAGER in writing. All blasting operations shall be carried out at the Contractor’s sole risk and cost in accordance with any Government regulations in force for the time being, and any special regulations laid down by the PROJECT MANAGER governing the use and storage of explosives.</p>	
	<p><b>Carried to collection</b></p>	

Item	Description	Kshs.
A.	<p><b>MATERIALS ARISING FROM EXCAVATIONS</b></p> <p>Materials of any kind obtained from the excavations shall be the property of the client. Unless the PROJECT MANAGER directs otherwise such materials shall be dealt with as provided in the Contract. Such materials shall only be used in the works, in substitution of materials which the Contractor would otherwise have had to supply with the written permission of the PROJECT MANAGER should such permission be given, the Contractor shall make due allowance for the value of the materials so used at a price to be agreed.</p>	
B.	<p><b>PROTECTION OF THE WORKS</b></p> <p>Provide protection of the whole of the works contained in the Bill of Quantities, including casing, casing up, covering or such other means as may be necessary to avoid damage to the satisfaction of the PROJECT MANAGER and remove such protection when no longer required and make good any damage which may nevertheless have been done at completion free of cost to the Government.</p>	
C.	<p><b>REMOVAL OF RUBBISH ETC.</b></p> <p>Removal of rubbish and debris from the buildings and site as it accumulates and at the completion of the works and remove all plant, scaffolding and unused materials at completion.</p>	
D.	<p><b>WORKS TO BE DELIVERED UP CLEAN</b></p> <p>Clean and flush all gutters, rainwater and waste pipes, manholes and drains, wash (except where such treatment might cause damage) and clean all floors, sanitary fittings, glass inside and outside and any other parts of the works and remove all marks, blemishes, stains and defects from joinery, fittings and decorated surfaces generally, polish door furniture and bright parts of metal works and leave the whole of the buildings watertight, clean, perfect and fit for occupation to the approval of the PROJECT MANAGER.</p>	
E.	<p><b>FIRM PRICE CONTRACT</b></p> <p><b>Unless otherwise specifically stated in the Particular Preliminaries this is a firm price Contract.</b></p> <p><b>The contractor must allow in his tender rates for any increase in the cost of labour and materials during the construction period.</b></p>	
	<p><b>Carried to collection</b></p>	

Item	Description	Kshs.
A.	<p><b>GENERAL SPECIFICATION</b></p> <p>For the full description of materials and workmanship, method of execution of the work and notes for pricing, the Contractor is referred to the Ministry of Public Works General Specification dated 1976 or any subsequent revision thereof which is issued as a separate document, and which shall be allowed in all respects unless it conflicts with the General Preliminaries. Trade Preambles or other items in these Bills of Quantities.</p>	
B.	<p><b>TRAINING LEVY</b></p> <p>The Contractor's attention is drawn to legal notice No. 237 of October, 1971, which requires payment by the Contractor of a Training Levy at the rate of 3% of the contract sum on all contracts of more than Kshs.50,000.00 in value.</p>	
C.	<p><b>MATERIALS ON SITE</b></p> <p>All materials for incorporation in the work must be stored on or adjacent to the site before payment is effected unless specifically exempted by the PROJECT MANAGER. This includes the materials of the Main contractor, Nominated Sub-Contractors and Nominated Suppliers.</p>	
D.	<p><b>HOARDING</b></p> <p>The Contractor shall enclose the site or part of the works under construction with a hoarding 2400mm high consisting of iron sheets on 100x50mm timber posts firmly secured at 1800mm centres with two 75x50mm timber rails approximately 300m. Contractor is in addition required to take all precautions necessary for the safe custody of the works, materials, plant, public and Employer's property on the site.</p>	
E.	<p><b>CONTRACTOR'S SUPERINTENDENCE / SITE AGENT</b></p> <p>The Contractor shall constantly keep on the works literate English speaking Agent or Representative, competent and experienced in the kind of work involved who shall give his whole experience in the kind of work involved and shall give his whole time to the superintendence of the works.</p> <p>Such Agent or Representative shall receive on behalf of the Contractor all directions and instructions from the Project Manager and such directions shall be deemed to have been given to the Contractor in accordance with the Conditions of Contract.</p>	
	<p><b>Carried to collection</b></p>	

Item	Description	Kshs.
	<b>COLLECTION</b>	
	Brought forward from pg PP/7 for Particular Preliminaries.....	
	Brought forward from page GP/1 .....	
	Brought forward from page GP/2 .....	
	Brought forward from page GP/3 .....	
	Brought forward from page GP/4 .....	
	Brought forward from page GP/5.....	
	Brought forward from page GP/6.....	
	Brought forward from page GP/7 .....	
	Brought forward from page GP/8.....	
	Brought forward from page GP/9 .....	
	Brought forward from page GP/10 .....	
	Brought forward from page GP/11 .....	
	Brought forward from page GP/12 .....	
	<b>TOTAL FOR PARTICULAR AND GENERAL PRELIMINARIES CARRIED TO GRAND SUMMARY (BILL NO. 01)</b>	

## **PREAMBLES AND PRICING NOTES**

### **E. GENERALLY**

All work to be carried out in accordance with the Ministry of Public Works General Specifications for Building Works issued in 1976 or as qualified or amended.

### **F. MANUFACTURERS' NAMES**

Where manufacturers' names and catalogue references are given for guidance to quality and standard only, alternative manufacturer of equal quality will be accepted at the discretion of the Project Manager.

### **G. WALLING**

All precast concrete blocks shall be manufactured by the methods and to the sizes specified in the Ministry of Public Works "Specification for Metric Sized Concrete Blocks for Building (1972)"

Walling of 100 mm thickness or under shall be reinforced with hoop iron every alternate course.

Prices for walling must allow for all costs in preparing, packing and sending sample blocks for testing as and when required by the Project Manager.

### **H. CARPENTRY**

The grading rules for cypress shall be the same as for podocarpus and all timber used for structural work shall be select (second grade).

All structural timber must conform to the minimum requirements for moisture content and preservative treatment and timber prices must allow for preparing, packing and sending samples for testing when required.

Prices must also include for all nails and fasteners.

**B. JOINERY**

Cypress for joinery shall be second grade in accordance with the latest grading rules of the Kenya Government.

Where Mahogany is specified, this refers to prime grade only. The Contractor may with the approval of the Project Manager, use either Msharagi or Mvuli in lieu of Mahogany but such approval will be given only in the case of shortages of the hardwoods specified.

Plugging shall be carried out by drilling walling or concrete with masonry drill and filling with propriety plugs of the correct sizes. Cutting with hammer and chisel will not be allowed.

Prices for joinery must include for pencil rounded arises, protection against damage, nails, screws, framing and bedding in cement mortar as required.

Sizes given for joinery items are nominal sizes and exact dimensions of doors, etc, must be ascertained on site.

**B. IRONMONGERY**

Ironmongery shall be as specified in the Bills of Quantities or equal and approved.

Prices must include for removing and re-fixing during and after painting, labeling all keys, and for fixing to hardwood, softwood, concrete or block work.

Catalogue references given for ironmongery are for purposes of indicating quality and size of item(s). Should the Contractor wish to substitute the specified item(s) with others of equal quality, he must inform the Project Manager and obtain approval in writing.

**C. STRUCTURAL STEELWORK**

All structural steelwork shall comply with the Ministry of Public Works “Structural Steelwork Specification (1973) and shall be executed by an approved Sub-contractor.

**BILL NO. 02: BILLS OF QUANTITIES FOR THE PROPOSED CONSTRUCTION OF  
NG-CDF OFFICE BLOCK AT RHAMU TOWN IN MANDERA NORTH  
CONSTITUENCY**

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	<b>MAIN OFFICE BLOCK</b>				
	<b><u>ELEMENT NO. 1: SUBSTRUCTURES</u></b>				
	<b><u>ALL PROVISIONAL</u></b>				
	<b><u>NOTE:</u></b>				
	All work measured under this element is up to and including the floor slabs but excluding the finishes thereon: -				
A	<b><u>SITE CLEARANCE:</u></b> Clear the site of all bushes, shrubs, undergrowth and small trees grab uproot and cart away burn all arising.	650	SM		
B	Excavate over site average 250mm deep to remove vegetable soil load up wheel and deposit on site not exceeding 50m	60	CM		
C	Excavate for strip foundation trenches not exceeding 1.5m deep commencing from reduced level.	269	CM		
D	Ditto for column bases	37	CM		
E	Allow for keeping excavations free from mud and all water including spring and running water by pumping, pailing or other approved means.	-	ITEM		
F	Allow for planking and strutting to sides of excavations.	-	ITEM		
	<b>TOTAL CARRIED TO COLLECTION</b>				

ADM/01

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	<b><u>DISPOSAL</u></b>				
A	Load surplus excavated material wheel and deposit onsite not exceeding 50m away.	162	CM		
	<b><u>FILLING:</u></b>				
B	Return, fill and ram selected excavated material around foundations.	204	CM		
	<b><u>HARDCORE AS DESCRIBED:</u></b>				
C	Approved hardcore filling including leveling, consolidating and or hand packing in layers 150mm thick.	101	CM		
	<b><u>BLINDING:</u></b>				
D	50mm thick layer murrum or other equal and approved blinding to the surface of hardcore; roled smooth to receive polythene sheetings (m.s.)	403	SM		
	<b><u>INSECTICIDE TREATMENT</u></b>				
E	'Termidor' or other equal and approved chemical insecticide treatment prepared and applied according to the manufacturer's printed instructions.	403	SM		
	<b><u>REMOVE OF TERMITES NESTS</u></b>				
F	Remove termite's nests by approved means and destroy the termites by applying 'termidor' or other equal and approved chemicals as per the manufacturers printed instructions.	-	ITEM		
	<b>TOTAL CARRIED TO COLLECTION</b>				

ADM/02



ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
A	<b><u>DAMP PROOF MEMBRANE</u></b> 500 gauge polythene or other equal and approved plastic sheets damp proof membrane laid over blinding (measured net – allow for laps)	428	SM		
B	<b><u>IN-SITU CONCRETE WORK</u></b> <b><u>MASS CONCRETE (1:4:8/38-38mm AGGREGATE)</u></b> 50mm thick blinding under foundations	180	SM		
C	<b><u>VIBRATED REINFORCED CONCRETE (1:2:4/20-20MM) AGGREGATE AS DESCRIBED IN:-</u></b> Strip foundations	27	CM		
D	Columns and bases	12	CM		
E	150mm thick floor slab (1:3:6)	428	SM		
	<b><u>STEEL REINFORCEMENT SUPPLY AND FIX BAR/ROD REINFORCEMENT INCLUDING BENDING HOOKS TRYING WIRE CUTTING SPACER AND SUPPORTING ALL IN POSITION AS DESCRIBED.</u></b>				
	<b><u>HIGH TENSILE SQUARE TWISTED BARS TO B.S. 4461:-</u></b>				
F	12mm diameter	660	KG		
G	10mm diameter	629	KG		
H	8mm diameter	392	KG		
	<b>TOTAL CARRIED TO COLLECTION</b>				

ADM/03

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS.
A	<b><u>MESH REINFORCEMENT</u></b> Fabric mesh reinforcement to B.S. 4484 ref. A142 including laps trying wire and spacer blocks complete (measure net allow for lap)	428	SM		
B	<b><u>SAWN FORMWORK AS DESCRIBED TO:</u></b> Edges of floor slabs 75 - 150mm high	123	LM		
C	<b><u>FOUNDATION WALLING</u></b> 200mm thick rough chiseled natural stone walling bedded and joined in cement and sand (1:3) mortar and reinforced with and including 20 Gauge 25mm wide hoop iron in every alternate course.	449	SM		
D	400mmx200mm attached pier	NIL	LM		
E	<b><u>PLINTH AREA FINISHES</u></b> 20mm thick cement and sand (1:3) wood float render to plinth area.	56	SM		
F	Prepare and apply three coats black bituminous paints to rendered areas.	56	SM		
G	<b><u>PAVING SLABS/COURTYARD</u></b> 600mmx 600mmx50mm thick precast concrete paving slabs laid on compacted murram and pointed in cement and sand (1:3) mortar.	112	SM		
<b>TOTAL CARRIED TO COLLECTION</b>					
<b><u>COLLECTION</u></b> Brought forward page ADM/01  Brought forward page ADM/02  Brought forward page ADM/03  Brought down from page ADM/04 above					
<b>TOTAL FOR ELEMENT NO. 01: SUBSTRUCTURES CARRIED TO SUMMARY</b>					

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	<b><u>ELEMENT NO. 02</u></b> <b><u>R.C. FRAME(SUPERSTRUCTURES)</u></b>  <b><u>Vibrated reinforced concrete (1:2:4/20-25 – 20mm aggregates) as described in:-</u></b>				
A	R.C Columns (3600mm high)	10	CM		
B	Ring Beams(2No. levels)	19	CM		
	<b><u>Steel reinforcement</u></b> <b><u>Supply and Fix steel bar/rod reinforcement including bending hooks trying wire cutting spacer blocks and supporting all in position.</u></b>  <b><u>High Tensile square twisted bars to B.S. 4461 as described in:-</u></b>				
C	12mm diameter	1634	KG		
D	8mm diameter	510	KG		
	<b><u>Sawn Form Works as described to:-</u></b>				
E	Side and soffits to ring beams	258	SM		
F	Sides of columns	147	SM		
G	Circular columns (16G sheet metal)	12	SM		
	<b>TOTAL FOR ELEMENT NO. 02:  REINFORCED CONCRETE FRAME  CARRIED TO SUMMARY.</b>				

ITEM	DESCRIPTION	QTY	UNIT	RAT E	SHS.
	<b><u>ELEMENT NO. 03</u></b>				
	<b><u>EXTERNAL WALLING</u></b> <b><u>FINE CHISEL DRESSED NATURAL STONE</u></b> <b><u>WALLING BEDDED AND JOINED IN</u></b> <b><u>CEMENT AND SAND (1:3) MORTAR AS</u></b> <b><u>DESCRIBED:-</u></b>				
A	150mm thick reinforcement with and including 25mm wide x 3mm thick galvanized hoop iron in every alternate course.	412	SM		
B	Ditto but 150mm thick concrete or other equal and approved louvre block walling.	NIL	SM		
C	400mmx200mm attached pier.	NIL	LM		
	<b><u>HORIZONTAL DAMP PROOF COURSE;</u></b> <b><u>ONE LAYER OF 3PLY BITUMINOUS FELT</u></b> <b><u>OR OTHER EQUAL AND APPROVED</u></b> <b><u>(MEASURED NETT-ALLOW FOR LAPS)</u></b>				
D	150mm wide leveled and bedded in cement and sand (1:3) mortar under walls.	123	LM		
	<b><u>SUNDRIES</u></b>				
E	Labour and material for 150mm wide x 230mm (average) high eaves filling to top of 200mm wall.	29	SM		
F	Fair raking cutting on top of 150mm wall.	6	LM		
G	Pair of 250mm x 250mm x30mm thick precast permanent vent fitted with mosquito gauze	40	NO.		
	<b>TOTAL FOR ELEMENT NO. 3 EXTERNAL WALLING CARRIED TO SUMMARY</b>				

ADM/06

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	<b><u>ELEMENT NO. 4</u></b>				
	<b><u>INTERNAL WALLING</u></b>				
A	<b><u>FINE CHISEL DRESSED NATURAL STONE WALLING BEDDED AND JOINED IN CEMENT AND SAND (1:3) MORTAR AS DESCRIBED IN:-</u></b>  150mm thick walling reinforcement with and including hoop iron in every alternate course.	320	SM		
B	<b><u>HORIZONTAL DAMP PROOF; ONE LAYER OF 3 PLY BITUMINOUS FELT OR OTHER EQUAL AND APPROVED (MEASURED NETT- ALLOW FOR LAPS)</u></b>  150mm wide leveled and bedded in cement and sand (1:3) mortar under walls.	78	LM		
	<b>TOTAL FOR ELEMENT NO. 04 INTERNAL WALLING CARRIED TO SUMMARY</b>				

ADM/07

ITEM	DESCRIPTION	QTY.	UNI T	RAT E	SHS.
	<b><u>ELEMENT NO. 05</u></b>				
	<b><u>ROOFING</u></b>				
	<b><u>All Timber To Be Sawn Cypress Seasoned To An Equilibrium Moisture Content Of Between 9% And 15% And Treated With Approved Wood Preservative:</u></b>				
A	100 x 50mm wall plate on and including 10mm cement and sand (1:4) mortar bed secured, on reinforced concrete ring beams (m.s) by mild steel anchor bolts (m.s)	123	LM		
	<b><u>The Following In Nailed Timber Trusses Including Hoisting And Placing 3000mm Above Floor Slab Level:-</u></b>				
B	100x 50mm rafters.	380	LM		
C	100x 50mm tie beams	219	LM		
D	100x 50mm strut/ties.	470	LM		
	<b><u>INDEPENDENT MEMBERS</u></b>				
E	75 x 50mm purlins	442	LM		
	<b><u>ROOF COVERING</u></b>				
F	Pre-painted Gauge 28, IT4 BP760 Box Profiled sheets 762mm effective cover fixed on timber purlins (m.s)	645	SM		
G	<b>Gauge 22 valley gutter 600mm girth.</b>	35	LM		
H	Gauge 28 ridge cap or hip cover to match covering.	57	LM		
	<b><u>RAIN WATER GOODS</u></b>				
I	Pre-painted Gauge 22 galvanized mild steel sheeting: all welds ground smooth:150mm x100mm box gutter including soldered joints in the running length fixed to fascia board with and including brackets at 1.0m centres.	142	LM		
J	<b>Extra over gutter for blocked ends with 100mm</b>	2	NO		
K	Dittofor 100mm diameter outlet.	24	NO		
L	<b>Ditto for 90<sup>0</sup> degrees bends.</b>	16	NO		
M	100mm dia rainwater down pipe fixed with and including mild steel brackets at 900mm centres plugged and screwed to wall.	72	LM		
N	<b>Extra over for swan neck bend</b>	24	NO		
O	Ditto horse shoe bend	24	NO		
	<b>TOTAL CARRIED TO COLLECTION</b>				

ADM/08

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	<b><u>WROT CYPRESS</u></b>				
A	25 x 250mm fascia board fixed to end of rafters (m.s)	142	LM		
B	25 x 255mm barge board fixed to the end of purlins.	6	LM		
	<b><u>SUNDRIES</u></b>				
C	12mm diameter x 250mm long black mild steel anchor bolt embedded in ring beam at 1200mm centers including drilling holes in timber.	100	NO		
D	100 x 100 x 6mm thick galvanized mild steel nailing cleat once bent to form angle ten times drilling; one flange nailed to foot of rafter (m.s) other nailed to top of wall plate (m.s) or any other approved fixing method.	62	NO		
	<b><u>PAINTING</u></b>				
	<b><u>PRIME ONLY BACK OF WOOD BEFORE FIXING:-</u></b>				
E.	Timber Surfaces 100 – 200mm girth.	123	LM		
F	Ditto 200-300mm girth	148	LM		
	<b><u>KNOT PRIME STOP AND PREPARE AND APPLY ONE UNDER COAT AND TWO FINISHING COATS OF GLOSS OIL PAINT (abd) To:</u></b>				
G	Timber Surfaces 100 – 200mm girth.	123	LM		
H	Ditto 200-300mm girth	148	LM		
	<b>TOTAL CARRIED TO COLLECTION</b>				
	<b><u>COLLECTION</u></b> Brought forward from page ADM/08  Brought forward from page ADM/09 above				
	<b>TOTAL FOR ELEMENT NO.05 ROOFING CARRIED TO SUMMARY</b>				

ADM/09

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	<b><u>ELEMENT NO. 06</u></b> <b><u>ALUMINIUM WINDOWS</u></b>				
A	200mm x 100mm x 75mm average throated concrete windows sill finished smooth in red oxide plaster to surfaces.	66	LM		
	<b><u>Aluminum windows</u></b> <b><u>Heavy duty powder coated including frames, iron monger and 8mm thick clear sheet glass:-</u></b>				
B	450 x 1500mm	2	NO		
C	1500 x 1500mm	27	NO		
D	2000 x 1500mm	4	NO		
E	3000 x 1500mm	2	NO		
	<b><u>Burglar proofing</u></b> <b><u>25mm SHS tube sections burglar proofing according to approved design size:</u></b>				
F	750x1800mm	2	NO		
G	1800 x 1800mm	27	NO		
H	2300x1800mm	4	NO		
I	3300 x 1800mm	2	NO		
	<b><u>Painting</u></b>				
J	Prepare surface and apply three coats crown paint to general surfaces of metal.	117	SM		
	<b><u>Curtains</u></b> <b><u>38mm Standard imported decorative bronze curtain rods complete with approved curtain cloth and net:-</u></b>				
K	750x1800mm	2	NO		
L	1800 x 1800mm	27	NO		
M	2300x1800mm	4	NO		
N	3300 x 1800mm	2	NO		
	<b>TOTAL FOR ELEMENT NO. 06 WINDOWS CARRIED TO SUMMARY</b>				



ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS
	<b><u>ELEMENT NO. 07</u></b> <b><u>DOORS</u></b>				
	<b><u>FRAMES AND FINISHING</u></b>				
	<b><u>Hardwood timber door frames</u></b>				
A	150 x 50mm f frame once rebated	105	LM		
B	50 x 25mm Architrave	90	LM		
C	25x 25mm finished Quadrant	90	LM		
	<b><u>Flush Timber Doors</u></b>				
	<b><u>45mm thick semi –solid core paneled decorative flush door</u></b>				
D	Door size 900mm x 2400mm with Mahogany veneer both sides	4	NO		
	<b><u>Hardwood timber doors</u></b>				
E	50 mm thick hardwood paneled door with 6No. fielded and raised panels overall size 1500mm x 2400mm high, partly opening (leaf size 900mm x 2100mm high) and partly fixed size 300mm x 2100mm infilled with two panels and rest in clear glass 5mm thick and 300mm clear glass fixed light above all openings.	8	NO		
F	Ditto 900 x 2400mm	1	NO		
	<b><u>5mm thick glazing above doors.</u></b>				
G	5mm thick clear sheet glass	6	SM		
H	50 x 20mm hardwood glazing bead.	42	LM		
	<b>TOTAL CARRIED TO COLLECTION</b>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS
	<b><u>ALUMINIUM DOORS</u></b> <b><u>Heavy duty powder coated including frames, iron monger and 8mm thick clear sheet glass:-</u></b>				
A	900 x 2400mm	4	NO		
B	1200 x 2400mm	3	NO		
	<b><u>Iron Mongery</u></b> <b><u>Supply and fix the following iron mongery with matching screw to wood and / or(where applicable) metal:-</u></b>				
C	Three lever rebated mortise lock complete with approved lever handle furniture	9	NO		
D	Two lever mortise lock complete with approved level handle furniture	4	NO		
E	100mm brass butt hinges	19 <sup>1/2</sup>	PRS		
	<b><u>Door stoppers</u></b>				
F	40mm diameter rubber door stopper fixed to wall or floor with approved raw bolt.	31	NO		
	<b><u>Door closers</u></b>				
G	Supply and fix on door closer hold open power with cover	31	NO		
	<b><u>Steel grills</u></b> <b><u>Burglar proofing</u></b> <b><u>25mm SHS tube sections burglar proofing according to approved design size: -</u></b>				
H	1500 x 2400mm	15	SM		
	<b>TOTAL CARRIED TO COLLECTION</b>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS
	<b><u>PAINTING</u></b>				
	<b><u>Prime only back of frame with aluminium or other equal and approved primer before fixing as described to: -</u></b>				
A	Frames; surfaces not exceeding 100mm girth	180	LM		
B	Ditto 200mm to 300mm girth	105	LM		
	<b><u>Prepare, knot, prime, stop and apply 2-pack polyurethane H/B first grade varnish.</u></b>				
C	General surfaces of wood	70	SM		
D	Ditto 200-300mm girth	105	LM		
E	Ditto not exceeding 100mm girth	180	LM		
F	Prepare surface and apply three coats crown paint to general surfaces of metal grills.	12	SM		
	<b>TOTAL CARRIED TO COLLECTION</b>				
	<b><u>COLLECTION</u></b>				
	Brought forward from page ADM/11				
	Brought forward from page ADM /12				
	Brought forward from page ADM/13 above				
	<b>TOTAL ELEMENT NO. 07 DOORS CARRIED TO SUMMARY</b>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS
	<b><u>ELEMENT NO. 08</u></b>				
	<b><u>FINISHES</u></b>				
	<b><u>Floor Finishes</u></b>				
	<b><u>Cement and sand (1:4) screed as described</u></b>				
A	32mm thick finished to receive tiles	428	SM		
B	Ditto 20 x 100mm high skirting	134	LM		
	<b><u>Ceramic non-slip tiles</u></b>				
C	300mm x 300mm x 8mm as manufactured by SAJ CERAMICS LTD or other equal and approved coloured ceramic non-slip floor bedded as per manufacturer's instructions	428	SM		
D	100mm high skirting	134	LM		
	<b><u>Wall finishes</u></b>				
	<b><u>Two coats gauged cement lime and sand (1:2:9) plaster steel trowelled smooth: -</u></b>				
E	20mm (minimum) thick to natural stone walls internally	565	SM		
F	Ditto walls externally	345	SM		
	<b><u>Kitchen</u></b>				
G	40mm cement and sand (1;4) backing to receive wall tiles	24	SM		
H	200 x 250mm coloured ceramic wall tiles	24	SM		
	<b><u>Ceiling finishes</u></b>				
I	12mm thick chipboard ceiling on brandering (m.s) and set in systematic V-joints.	428	SM		
	Extra over for trap doors size 600 x 600mm complete.	3	NO		
	<b>TOTAL CARRIED TO COLLECTION</b>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS
A	<b><u>Sawn Cypress brandering</u></b> 75 x 50mm brandering plugged on walling	376	LM		
B	50 x 50mm brandering.	1175	LM		
C	<b><u>Wrot Cypress</u></b> 12 x 100mm curved cornice plugged	376	LM		
D	<b><u>Painting</u></b> <b><u>Prime only back of frame with aluminium or other equal and approved primer before fixing as described to; -</u></b> Timber; surface not exceeding 100mm girth	376	LM		
E	<b><u>Knot prime stop and prepare and apply one undercoat and two finishing coats gloss oil Crown paints to;</u></b> General surfaces of wood not exceeding 100mm girth	376	LM		
F	<b><u>Paint and Decoration</u></b> <b><u>Prepared and apply one undercoat and three coats emulsion paint to-;</u></b> Plastered walls internally	565	SM		
G	Ditto externally	345	SM		
H	<b><u>Prepared and apply three coats of washable distemper paints to; -</u></b> Chipboard lining internally	428	SM		
	<b>TOTAL CARRIED TO COLLECTION</b>				
	<b><u>COLLECTION</u></b> Brought forward from page ADM/14  Brought down from page ADM/15 above				
	<b>TOTAL FOR ELEMENT NO. 08 FINISHES CARRIED TO SUMMARY</b>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS
	<b><u>ELEMENT NO.09:</u></b> <b><u>JOINERY WORKS</u></b>				
	<b><u>KITCHEN CONCRETE WORKTOP</u></b> <b><u>Plain concrete (1:3:6)</u></b>				
A	Plinth, thickness 120mm	2	SM		
	<b><u>Form work</u></b>				
B	Edges of plinths, 75-150mm	3	LM		
C	25mm cement and sand (1:4) paving steel trowelled smooth.	2	SM		
	<b><u>Wrought mahogany</u></b>				
D	Frame with one labour plugged 75x50mm.	14	LM		
E	Frame with two labours, size 75x25mm	17	LM		
F	Bearer plugged size 50x25mm.	31	LM		
G	Reinforced concrete class 20/20mm concrete top 100mm.	2	SM		
	<b><u>Reinforcements.</u></b>				
H	Layer of A142 mesh fabric reinforcement laid in slab or bed with 200mm side and end laps.	2	SM		
	<b><u>Sawn Formwork.</u></b>				
I	To soffit of top.	2	SM		
J	25mm Cement and sand (1:4) paving steel trowelled smooth.	2	SM		
K	Form or leave 1No. hole size 500 x 450mm in concrete.	-	ITEM		
	<b>TOTAL CARRIED TO COLLECTION</b>				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<b><u>Granito Tops</u></b>				
A.	Granito tile, 10mm thick.	2	SM		
B.	Granito fascia 120x10mm thick.	3	LM		
C	Supply and fix Stainless SBSB steel sink 500x1000mm including fittings and pipe work.	1	NO		
	<b><u>SECRETARY'S' WORKSTATION &amp; SHELVING</u></b>				
D	Allow for construction of 2No. Secretary's counters and store shelving comprising of wrot 45 x 45mm cypress timber, MDF decorative mahogany veneer on both faces in top, shelves, divisions and doors as directed.	-	ITEM		
	<b><u>PLUMBING &amp; DRAINAGE</u></b>				
E	Allow a provisional sum for plumbing and drainage works from kitchen including supply of 2000 litres plastic water tank and connections from distribution line.	-	ITEM		
	<b>TOTAL CARRIED TO COLLECTION</b>				
	<b><u>COLLECTION</u></b> TOTAL FROM PAGE ADM/16  TOTAL FROM ADM/17 ABOVE				
	<b>TOTAL FOR ELEMENT NO. 09: JOINERY WORKS CARRIED TO SUMMARY</b>				

ADM/17

ITEM	DESCRIPTION	PAGE NO.	SHS.
	<b>SUMMARY</b> <b>NG-CDF OFFICE BLOCK</b> <b>ELEMENT</b>		
A	SUBSTRUCTURES	ADM/04	
B	R. C . FRAME	ADM/05	
C	EXTERNAL WALLING	ADM /06	
D	INTERNAL WALLING	ADM /07	
E	ROOFING	ADM /09	
F.	WINDOWS	ADM/10	
G.	DOORS	ADM /13	
H	FINISHES	ADM /15	
I	JOINERY FITTINGS	ADM/17	
	<b>TOTAL FOR BILL NO 02: OFFICE BLOCK</b> <b>CARRIED TO GRAND SUMMARY</b>		



**BILL NO. 03: BILLS OF QUANTITIES FOR THE PROPOSED CONSTRUCTION OF  
MULTI-PURPOSE 4-DOOR ABLUTION BLOCK**

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	<p><b>1NO. MULTI-PURPOSE ABLUTION BLOCK</b></p> <p><b><u>ELEMENT NO. 1</u></b> <b><u>SUBSTRUCTURES</u></b> <b><u>ALL PROVISIONAL</u></b></p> <p><b><u>NOTE:</u></b> <b>All work measured under this element is upto and including the floor slabs but excluding the finishes thereon: -</b></p> <p><b><u>SITE CLEARANCE:</u></b></p>				
A	Clear the site of all bushes, shrubs, undergrowth and small trees grab uproot and cart away burn all arising.	80	SM		
B	Excavate over site average 250mm deep to remove vegetable soil load up wheel and deposit on site not exceeding 100m	10	CM		
C	Excavate for strip foundation trenches not exceeding 1.5m deep commencing from reduced level.	34	CM		
D	Allow for keeping excavations free from mud and all water including spring and running water by pumping pailing or other approved means.	-	ITEM		
E	Allow for planking and strutting to sides of excavations.	-	ITEM		
	<b>TOTAL CARRIED TO COLLECTION</b>				

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	<b><u>DISPOSAL</u></b>				
A	Load surplus excavated material wheel and deposit onsite not exceeding 100m away.	21	CM		
	<b><u>FILLING:</u></b>				
B	Return in and ram selected excavated material around foundations.	23	CM		
	<b><u>HARDCORE AS DESCRIBED:</u></b>				
C	Approved hardcore filling including leveling, consolidating and or hand packing in layers 150mm thick.	15	CM		
	<b><u>BLINDING:</u></b>				
D	50mm thick layer murrum or other equal and approved blinding to the surface of hardcore; roled smooth to receive polythene sheetings (m.s.)	48	SM		
	<b><u>INSECTICIDE TREATMENT</u></b>				
E	'Termidor' or other equal and approved chemical insecticide treatment prepared and applied according to the manufacturer's printed instructions.	34	SM		
	<b><u>REMOVE OF TERMITES NESTS</u></b>				
F	Remove termite's nests by approved means and destroy the termites by applying 'termidor' or other equal and approved chemicals as per the manufacturers printed instructions.	-	ITEM		
	<b>TOTAL CARRIED TO COLLECTION</b>				

AB/02

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	<b><u>DAMP PROOF MEMBRANE</u></b>				
A	500 gauge polythene or other equal and approved plastic sheets damp proof membrane laid over blinding (measured net – allow for laps)	34	SM		
	<b><u>IN-SITU CONCRETE WORK</u></b>				
	<b><u>MASS CONCRETE (1:4:8/38-38mm AGGREGATE)</u></b>				
B	50mm thick blinding under foundations	23	SM		
	<b><u>VIBRATED REINFORCED CONCRETE (1:2:4/20-20MM) AGGREGATE AS DESCRIBED IN: -</u></b>				
C	Strip foundations	4	CM		
D	150mm thick floor slab (1:2:4)	34	SM		
E	100mm thick floor slab (1:3:6)	14	SM		
	<b><u>STEEL REINFORCEMENT</u></b>				
	<b><u>SUPPLY AND FIX BAR/ROD REINFORCEMENT INCLUDING BENDING HOOKS TRYING WIRE CUTTING SPACER AND SUPPORTING ALL IN POSITION AS DESCRIBED.</u></b>				
	<b><u>HIGH TENSILE SQUARE TWISTED BARS TO B.S. 4461</u></b>				
F	10mm diameter	80	KG		
G	8mm diameter	37	KG		
	<b>TOTAL CARRIED TO COLLECTION</b>				

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	<b><u>MESH REINFORCEMENT</u></b>				
A	Fabric mesh reinforcement to B.S. 4484 ref. A1422 including laps trying wire and spacer blocks complete (measure nett allow for lap)	34	SM		
	<b><u>SAWN FORMWORK AS DESCRIBED TO:</u></b>				
B	Edges of floor slabs 75 - 150mm high	22	LM		
	<b><u>FOUNDATION WALLING</u></b>				
C	200mm thick rough chiseled natural stone walling bedded and joined in cement and sand (1:3) mortar and reinforced with and including 20 Gauge 25mm wide hoop iron in every alternate course.	57	SM		
	<b><u>PLINTH AREA FINISHES</u></b>				
D	20mm thick cement and sand (1:3) wood float render to plinth area.	10	SM		
E	Prepare and apply three coats black bituminous paints to rendered area.	10	SM		
	<b><u>PAVING SLABS</u></b>				
F	600mmx 600mmx50mm thick precast concrete paving slabs laid on compacted murrum and pointed in cement and sand (1:3) mortar.	14	SM		
	<b>TOTAL CARRIED TO COLLECTION</b>				
	<b><u>COLLECTION</u></b>				
	Brought forward page AB/01				
	Brought forward page AB/02				
	Brought forward page AB/03				
	Brought down from AB/04 above				
	<b>TOTAL FOR ELEMENT NO. 01 SUB-STRUCTURES CARRIED TO SUMMARY</b>				

AB/04

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	<b><u>ELEMENT NO. 02</u></b> <b><u>R.C. FRAME(SUPERSTRUCTURES)</u></b>				
	<b><u>Vibrated reinforced concrete (1:2:4/20-25 – 20mm aggregates) as described in:-</u></b>				
A	Ring Beams	1	CM		
	<b><u>Steel reinforcement</u></b> <b><u>Supply and Fix steel bar/rod reinforcement including bending hooks trying wire cutting spacer blocks and supporting all in position.</u></b>				
	<b><u>High Tensile square twisted bars to B.S. 4461 as described in:-</u></b>				
B	12mm diameter	85	KG		
	<b><u>Mild Steel rods to B.S. 4449 as described in:-</u></b>				
C	8mm diameter	33	KG		
	<b><u>Sawn Form Works as described to:-</u></b>				
D	Side and soffits to ring beams	15	SM		
	<b>TOTAL FOR REINFORCED CONCRETE FRAME CARRIED TO SUMMARY</b>				

AB/05

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	<b><u>ELEMENT NO. 03</u></b>				
	<b><u>EXTERNAL WALLING</u></b>				
	<b><u>FINE CHISEL DRESSED NATURAL STONE WALLING BEDDED AND JOINED IN CEMENT AND SAND (1:3) MORTAR AS DESCRIBED: -</u></b>				
A	150mm thick reinforcement with and including hoop iron in every alternate.	50	SM		
	<b><u>HORIZONTAL DAMP PROOF COURSE; ONE LAYER OF 3PLY BITUMINOUS FELT OR OTHER EQUAL AND APPROVED (MEASURED NETT-ALLOW FOR LAPS)</u></b>				
B	150mm wide leveled and bedded in cement and sand (1:3) mortar under walls.	24	LM		
	<b><u>SUNDRIES</u></b>				
C	Labour and material for 150mm wide x 230mm (average) high eaves filling to top of 150mm wall.	6	SM		
D	Fair raking cutting on top of 150mm wall.	4	LM		
E	Pair of 250mm x 250mm x30mm thick precast permanent vent fitted with mosquito gauze	6	NO.		
	<b>TOTAL FOR ELEMENT N EXTERNAL WALLING CARRIED TO SUMMARY</b>				

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	<p><b><u>ELEMENT NO. 4</u></b></p> <p><b><u>INTERNAL WALLING</u></b></p> <p><b><u>FINE CHISEL DRESSED NATURAL STONE WALLING BEDDED AND JOINED IN CEMENT AND SAND (1:3) MORTAR AS DESCRIBED IN: -</u></b></p>				
A	<p>200mm thick walling reinforcement with and including hoop iron in every alternate course.</p>	18	SM		
	<p><b><u>HORIZONTAL DAMP PROOF; ONE LAYER OF 3 PLY BITUMINOUS FELT OR OTHER EQUAL AND APPROVED (MEASURED NETT- ALLOW FOR LAPS)</u></b></p>				
B	<p>200mm wide leveled and bedded in cement and sand (1:3) mortar under walls.</p>	8	LM		
	<p><b>TOTAL FOR ELEMENT NO. 04 INTERNAL WALLING CARRIED TO SUMMARY</b></p>				

AB/07

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	<b><u>ELEMENT NO. 05</u></b> <b><u>ROOFING</u></b> <b><u>ALL TIMBER TO BE SAWN CYPRESS</u></b> <b><u>SEASONED TO AN EQUILLIBRIUM MOISTURE</u></b> <b><u>CONTENT OF BETWEEN 9% AND 15% AND TO</u></b> <b><u>THE REQUIREMENT OF K.S. 02771 OF 1991</u></b> <b><u>TREATED WITH APPROVED WOOD</u></b> <b><u>PRESENTATIVE.</u></b>				
A	100 x 50mm wall plate on and including 10mm cement and sand (1:4) mortar bed secured, on reinforced concrete ring beams (m.s) by mild steel anchor bolts (m.s)	32	LM		
	<b><u>THE FOLLOWING IN NAILED TIMBER</u></b> <b><u>TRUSSES INCLUDING HOISTING AND</u></b> <b><u>PLACING 3000MM ABOVE FLOOR SLAB</u></b> <b><u>LEVEL</u></b>	54	LM		
B	100x 50mm rafters.	36	LM		
C	100x 50mm tie beams	39	LM		
D	100x 50mm strut/ties.				
E	<b><u>INDEPENDENT MEMBERS</u></b> 75 x 50mm purlins	100	LM		
	<b><u>ROOF COVERING</u></b>				
F	<b><u>ROOF COVERING</u></b> Gauge 28/ IT4/BP760 Box Protiled sheets (762mm effective lover) fixed on timber purlins (m.s)	76	SM		
G	Gauge 28 ridge cap/Hip cap to match covering	26	LM		
H	Ditto valley gutters	6	LM		
I	<b><u>GI PIPE STANCHIONS</u></b> 75mm diameter, 3.6m long GI stanchions well anchored onto concrete floor slab and roof trusses.	18	LM		
	<b>TOTAL CARRIED TO COLLECTION</b>				



ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	<b><u>WROT CYPRESS</u></b>				
A	25 x 250mm fascia board fixed to end of rafters and purlins (m.s)	32	LM		
	<b><u>SUNDRIES</u></b>				
C	12mm diameter x 250mm long black mild steel anchor bolt embedded in ring beam at 1200mm centers including drilling holes in timber.	26	NO		
D	100 x 100 x 6mm thick galvanized mild steel nailing cleat once bent to form angle ten times drilling; one flange nailed to foot of rafter (m.s) other nailed to top of wall plate (m.s)	6	NO		
	<b><u>PAINTING</u></b>				
	<b><u>PRIME ONLY BACK OF WOOD BEFORE FIXING: -</u></b>				
	Surfaces 200 – 300mm girth.	64	LM		
E	<b><u>KNOT PRIME STOP AND PREPARE AND APPLY ONE UNDER COAT AND TWO FINISHING COATS OF GLOSS OIL PAINT (abd) To: -</u></b>				
	General surfaces of wood 200 – 300 mm girth.	64	LM		
F	GI pipe stanchions	18	LM		
	<b>TOTAL CARRIED TO COLLECTION BELOW</b>				
	<b>COLLECTION</b>				
	Brought forward from page AB/08				
	Brought forward from AB/09above				
	<b>TOTAL FOR ELEMENT NO.05 ROOFING CARRIED TO SUMMARY</b>				

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	<p><b><u>ELEMENT NO. 06</u></b> <b><u>WINDOWS</u></b></p> <p>A 200mm x 100mm x 75mm average throated concrete windows sills</p> <p><b><u>STEEL WINDOWS</u></b></p> <p>B Supply and fix standard top hung casement steel window size 600mmx600mm including burglar proofing</p> <p>C Ditto size 1200 x 1200mm</p> <p>D Prepare surface and apply three coats 'crown' or other equal and approved oil paint to steel windows measured both sides flat overall</p> <p>E Supply and fix with putty 4mm thick obscure glass to steel windows</p>	5	LM		
	<b>TOTAL FOR WINDOWS CARRIED TO SUMMARY</b>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS.
<b><u>ELEMENT NO. 07</u></b>					
<b><u>DOORS</u></b>					
A	<b>STEEL DOOR</b> Grill with lock, 16SWG bottom sheet metal, top coffee tray wire and the accessories size 900 mm x 2400 mm including 300mm clear glass fixed light or any other approved design.	1	No		
B	<b>FLUSH DOORS</b> Decorative veneer paneled flush doors size 900mm x 2400mm	4	No		
C	150 mm x 150 mm Hardwood frame once rebated.	21	LM		
<b><u>IRONMONGERY</u></b>					
D	Two lever rebated mortise lock	4	No		
E	100 mm brass butt hinge.	6	Prs.		
F	40 mm diameter rubber door stopper fixed to floor with rawl bolt.	6	No		
<b><u>ARCHITRAVE/QUADRANT</u></b>					
G	50 x 25 mm Architrave	24	LM		
H	25 x 25 mm Quadrant	24	LM		
<b>TOTAL CARRIED TO COLLECTION</b>					

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	<b><u>PAINTING</u></b>				
	<b><u>Prepare and apply 3 coats of "crown " or other approved gloss oil paint</u></b>				
A	General surfaces of metal	5	SM		
B	Steel angle frame n.e 100 mm girth	25	LM		
	<b><u>Prepare, Knot, prime, stop and apply 2-pack polyurethane H/B first grade varnish</u></b>				
C	General surface of wood.	16	SM		
D	Ditto 100-300 mm girth.	24	LM		
E	Ditto not exceeding 100 mm girth	24	LM		
	<b>TOTAL CARRIED TO COLLECTION</b>				
	<b><u>COLLECTION</u></b>				
	Brought forward from page AB/11				
	Brought forward from page AB/12 above				
	<b>TOTAL FOR DOORS CARRIED TO SUMMARY</b>				

AB/12

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSH
	<b><u>ELEMENT NO. 08: FINISHES</u></b>				
	<b><u>EXTERNAL WALL FINISHES</u></b>				
A	12 mm cement and sand (1:3) mortar horizontal recessed pointing to natural stone walling.	NIL	SM		
	<b>20 mm thick cement, sand render with wood float finish, as described to: -</b>				
B	Concrete beams and walling.	56	SM		
	<b><u>Painting and decorations</u></b> <b>Prepare and apply one undercoat and two finishing coats exterior quality plastic emulsion paint on:-</b>				
C	Concrete beams and walling.	56	SM		
	<b><u>INTERNAL FINISHES</u></b>				
D	Hack out joints apply 20 mm thick gauged lime plaster (1.2.9) in two coats finished with steel trowel in natural stones walling and beams.	7	SM		
E	20 mm thick cement and sand (1:4) backing finished to receive glazed tiling.	60	SM		
F	250 mm x 150 mm thick white glazed wall tiles jointed and pointed with matching white cement.	60	SM		
	<b>PAINTING AND DECORATIONS</b> <b>Prepare and apply one undercoat and two Finishing coats plastic emulsion paint on :-</b>				
G	Plastered surfaces	7	SM		
	<b>TOTAL CARRIED TO COLLECTION</b>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSH
<b><u>FLOOR FINISHES</u></b>					
A	In-situ cement and sand (1.3) screed beds with steel trowelled finish	14	SM		
B	20 mm thick screed finished to receive floor tiles	34	SM		
C	300 x 300 mm non-slip ceramic tiles laid on floor screed (m:s)including dividing strips .	34	SM		
D	20 mm x 100 mm skirting	30	LM		
<b><u>ENTRANCE STEPS AND RAMPS</u></b>					
E	100 mm thick concrete (1:3:6) sloped slab	2	SM		
F	40 mm thick screed trowelled and tampered to semi - rough finish to approval pattern in entrance ramps.	2	SM		
<b><u>CEILING FINISHES</u></b>					
G	Chipboard ceiling lining fixed to and including 50 x 50 mm sawn cypress brandering at 600 mm centres both directions m:s fixed with clout headed nails and set out in symmetrical panels with "V" joints.	34	SM		
H	Extra over ceiling for forming removable access trap door size 750 x 750 mm with 100 x 50 mm sawn treated cypress trimming joints 120 x 250 mm wrot cedar frame all round and 12 mm soft board removable panel set loose on top of framing including painting.	1	NO		
<b>TOTAL CARRIED TO COLLECTION</b>					

AB/14

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSH
	<b><u>Prime grade wrot cypress timber selected and kept clean: -</u></b>				
A	100 x 25 mm cornice two labours	80	LM		
	<b><u>Sawn Cypress:</u></b>				
B	50 x 50 mm brandering	135	LM		
C	75 x 50 mm brandering plugged	37	LM		
	<b><u>Painting and decorations</u></b>				
D	Prime only back of timber before fixing surfaces not exceeding 100-200 mm girth.	80	LM		
	<b><u>Knot prime and stop and prepare and apply three coats first quality emulsion paint.</u></b>				
E	Chipboard ceiling	34	SM		
F	Timber surfaces not exceeding 100-200 mm girth	80	LM		
	<b>TOTAL CARRIED TO COLLECTION BELOW</b>				
	<b><u>COLLECTION</u></b> Total brought forward from page AB/13  Total brought forward from page AB/14  Total brought forward from AB/15 above				
	<b>TOTAL FOR FINISHES CARRIED TO SUMMARY</b>				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<b><u>ELEMENT NO. 09: INTERNAL PLUMBING &amp; DRAINAGE</u></b> <b><u>Supply, deliver, install and fix the following sanitary fittings including all materials and jointing to supply, waste/soil and overflow pipes.Twyfords Ltd products are specified only as an indication of quality. Equal and approved appliances may be supplied. Where trade names are mentioned, the Ref No. is intended only as a guide to the type and quality of fittings.</u></b>				
	<b>General purpose Squatting W.C</b>				
A.	Water closet suite ('S' or 'P'-trap) in approved colour complete with horizontal outlet to BS3402 litre valveless cistern fittings including siphon,15mm diameter side inlet ball valve,20mm diameter side overflow, plastic flush bend, inlet connection. All to be as <b>Twyfords "Arabian"</b> water closet or equal and approved.	No.	4		
	<b>Wash hand basin</b>				
B.	Wash hand basin, size 590x440mm wide in approved colour to BS 3402, complete with the following: -Basin with two tap holes and chain stay hole as "WB 2535 WH" Chrome plated tap handles Aztec pillar taps ½" Ref. No AZ5800CPChrome plated chain waste Ref. No. 5823CP Wall supports Ref.No SR1319XX as Twfords "SOLA 590"	No.	4		
	<b>Splash</b>				
C	15mm diameter chrome plated bib taps as Pegler taps or equal and approved.	No.	4		
	<b>Robe Hook</b>				
D	Robe Hook in Satin Aluminum to be mounted by concealed screws to wall wedges. To be as <b>Twyfords Spectrum 2000</b> accessories or equal and approved	No	4		
	<b>Toilet Roll Holder</b>				
E	Fully recessed toilet roll holder in Vitreous China of size 165x165mm in approved colour as Twyfords VC98WH or equal and approved.	No.	4		
	<b>Shower Head Fittings</b>				
F	Chromium plated shower unit complete with pipe and shower rose	No.	4		
	<b>TOTAL CARRIED TO COLLECTION</b>				

AB/16



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A.	<b>Soap Dish</b> Semi recessed built in soap tray in Vitreous China of size : 305x150mm approved colour as Twyford's VC9312WH or equal and approved	No.	4		
B.	<b>Mirror</b> 6mm thick polished plate glass silver backed mirror with beveled edges, size 610 x 610mm, plugged and screwed to wall with 4No. Chrome plated dome capped screws. The mirror shall rest against a layer of 5mm thick foam.	No	4		
C.	<b>Toilet Brush and Holder</b> Toilet brush and Holder in vitreous china or equal and approved equivalent	No	2		
D.	<b>Roof tank</b> Supply and install a plastic water tank of capacity 920 litres (200 gallons) made of plastic on roof space. The tanks to be assembled complete with medium- pressure ball valve inlet, outlet connections and drain cock and all other connections including ball valve and float ( <b>See elevated water tank tower</b> )	No	NIL		
	<b>TOTAL CARRIED TO COLLECTION</b>				

AB/17

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
	<b><u>PLUMBING (Provisional)</u></b> Supply, deliver and install Polypropylene Random (PP-R) PN-20 Oxy-stable pipework to din 8077. pipe jointing shall be by polyfusion or use of electrical coupling.				
	<b><u>PPR PIPE</u></b>				
A.	15mm diameter PPRC pipe	LM	20		
B.	20mm –Ditto-	LM	20		
C.	25mm –Ditto-	LM	25		
	<b><u>Extra- over PPRC pipework for the following.</u></b>				
	<b><u>Bends/ Elbow</u></b>				
D.	15mm dia –ditto	No.	12		
E.	20mm dia-ditto	No.	10		
F.	25mm dia -dditto	No.	6		
G.	20mm x ½’’ threaded bend	No.	10		
	<b><u>Tees</u></b>				
H.	15mm equal tee	No.	10		
I.	15mm –ditto	No.	3		
	<b><u>Reducers</u></b>				
J.	25mmx20mm reducer	No.	2		
K.	20mm x15mm-ditto	No.	10		
	<b><u>Transition fittings</u></b>				
L.	25mmx ½’’ threaded/transition fittings	No.	3		
M.	32mmx1/2’’ ditto	No	3		
	<b><u>Gate valve</u></b>				
N.	25mm dia. approved medium pressure screw down full way non-rising stem wedge gate valve to BS1952, with wheel and head joints to tubing.	No.	2		
P	20mm- ditto-	No.	2		
Q	15mm –ditto-	No.	4		
	<b><u>Non-return valve</u></b>				
R	25mm dia.approved medium pressure non-return valve to BS1952.The non-return valve to be as ‘‘Pegler’’ or approved equivalent.	No.	2		
	<b><u>Flexible connections</u></b>				
S	15mm dia, 300mm long flexible connections including backnuts and jointing to PPRC pipe from sanitary fitting.	No.	12		
	<b>TOTAL CARRIED TO COLLECTION</b>				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A.	<b>Testing &amp; Commissioning</b> Allow for flushing out and sterilization of the cold-water system as required to the satisfaction of the Engineer. <b><u>Supply and fix UPVC soil system to BS4660 and BS4515 and muPVC waste systems to BS5255 and all the accessories</u></b> <b><u>INTERNAL DRAINAGE(Provisional)</u></b> <b><u>UPVC and muPVC pipe work</u></b>	Item	1		
B	100mm heavy-duty golden-brown pipe class D	LM	12		
C.	100mm diameter heavy duty grey pipe class D	LM	6		
D	50mm ditto	LM	6		
E	40mm ditto	LM	6		
F	32mm ditto	LM	6		
	<b><u>Extra over UPVC and muPVC pipework</u></b> <b><u>Bends</u></b>				
G	100mm diameter long radius bend	No.	8		
H	40mm dia-ditto	No.	6		
I	40mm diameter sweep Tee	No.	4		
J	32mm dia-ditto	No.	4		
K	40mm dia-ditto	No	4		
	<b><u>Traps</u></b>				
M	100x50mm diameter floor trap and grating	No.	2		
N	Allow for a standard 300x 300x450mm masonry gully trap complete with mild steel cover.	No.	3		
	<b>TOTAL CARRIED TO COLLECTION BELOW</b>				
	<b><u>COLLECTION</u></b> Total carried forward from page AB/16  Total carried forward from page AB/17  Total carried forward from page AB/18  Total carried forward from page AB/19 above				
	<b>TOTAL FOR INTERNAL PLUMBING &amp; DRAINAGE WORKS CARRIED TO SUMMARY.</b>				

ITEM	DESCRIPTION	SHS
1	Substructures from page AB/04	
2	R.C Frame page AB/05	
3	External walling from page AB/06	
4	Internal walling page AB/07	
5	Roofing from page AB09	
6	Windows from page AB/10	
7	Doors from page AB/12	
8	Finishes from page AB/15	
9	Internal Plumbing & Drainage works from page AB/19	
	<b>TOTAL FOR 1NO. 4-DOOR ABLUTION BLOCK</b>	<b>X 2</b>
	<b>TOTAL FOR BILL NO. 03: 2NO. ABLUTION BLOCKS (STAFF &amp; PUBLIC) CARRIED TO GRAND SUMMARY</b>	

**BILL NO.04: BILLS OF QUANTITIES FOR THE PROPOSED CIVIL & RELATED WORKS**

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS.
	<b>1) <u>EXTERNAL FOUL DRAINAGE</u></b>				
	<b><u>Site clearance</u></b>				
A	Clear 1.0m on either side of sewer-line centre-line of all bushes, shrubs, small trees, grass and the like and dispose as directed by the PM 50m away.	100	SM		
	<b><u>Excavations</u></b>				
B	Excavate trench for dia 160mm sewer pipe starting from ground level not exceeding 1.5m deep, backfill after laying pipe and disperse excess material as directed by the PM average depth 1.0m.	50	LM		
C	Extra over excavation for excavation in rock class 1 or hard murrum (Provisional)	24	CM		
	<b><u>Pipe construction</u></b>				
D	Provide, lay and joint in trench diameter 160mm golden brown class 41 sewer pipe in flexible joints (rubber ring or lip seal joint) including 100mm approved murrum bed and haunch.	50	LM		
	<b><u>Manholes</u></b>				
E	Provide materials and erect manhole size 1250 x 1050mm including all necessary excavations, backfilling and disposal of surplus material and formwork and medium duty manhole cover and frame average depth 900mm.	6	NO		
	<b>2) <u>SOAK PITS</u></b>				
F	Excavate for soak pit starting from ground level not exceeding 1.5m backfill after constructing soak pit and dispose excess material as directed by the PM.	4	CM		
G	Excavate for soak pit as before described but exceeding 1.5m and not exceeding 3.0m deep.	4	CM		
H	Ditto but exceeding 3.0m and not exceeding 4.5m deep.	4	CM		
I	Allow for excavation in rock class 1 or hard murrum.	8	CM		
J	Provide materials and erect soak pit of 1.5m internal diameter with 150mm thick walling and 100mm thick concrete 1:3:6 bases and 150mm thick RC slab and 600x450mm medium duty MH cover and frame and 200mm diameter stone fill and all necessary formwork.	1	NO		
	<b>TOTAL FOR FOUL DRAINAGE &amp; SOAKPITS CARRIED TO SUMMARY OF CIVIL WORKS</b>				

CW/01

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS.
	<b>3) SEPTIC TANK</b>				
	<b><u>Site clearance</u></b>				
A	Clear site for sewerage treatment works of all bushes, shrubs, weeds, small trees, grass and the like and dispose as directed by the PM.	80	SM		
	<b><u>Excavations</u></b>				
B	Excavate pit for septic tank including attached manholes starting from ground level not exceeding 1.5m deep backfill around the septic tank after construction and dispose surplus material as directed by the PM.	45	CM		
C	Excavate pit for septic tank starting from excavated level exceeding 1.5m and not exceeding 3.0m deep, backfill around the septic tank after construction and dispose surplus material as directed by the PM.	33	CM		
D	Extra over excavation for excavation in class I rock (Provisional).	35	CM		
E	Return, fill and ram selected excavated materials around walls.	14	CM		
F	Cart away surplus excavated materials.	65	SM		
	<b><u>Construction</u></b>				
G	Provide, lay and vibrate 50mm thick concrete class Q (1:4:8) blinding.	16	SM		
H	Provide, place and vibrate 250mm thick reinforced concrete class 20(20) (1:2:4) in concrete bed.	16	SM		
I	Provide, place and vibrate 150mm thick reinforced concrete class 20(20) (1:2:4) in walls.	NIL	SM		
J	Ditto in 100mm baffle wall	2	SM		
K	Ditto 200mm thick in suspended slab.	18	SM		
	<b><u>Walling</u></b>				
L	Load bearing 200mm thick impervious stone walling bedded in cement/sand (1:3) mortar reinforced with hoop iron.	59	SM		
	<b>TOTAL CARRIED TO COLLECTION</b>				

CW/02

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS.
	<b><u>Reinforcement (Columns)</u></b> <b><u>Provide, cut, bend and fix in concrete 16mm dia ms reinforcing bar including all necessary tying wire, spacer blocks and the like with: -</u></b>				
A	Ditto 12mm diameter	174	KG		
B	Ditto 10mm diameter	12	KG		
C	Ditto 8mm dia.	20	KG		
	<b><u>Mesh reinforcement</u></b>				
D	Provide and place in concrete BRC mesh No.65 reinforcement or equivalent, including all necessary tying wire, spacer blocks, laps and the like.	6	SM		
	<b><u>Formwork</u></b>				
E	Provide and fix sawn timber formwork to edges of bed between 150 and 225mm high.	20	LM		
F	Ditto to edge of suspended slab between 75 and 100mm high.	18	LM		
G	Ditto between 150 and 225mm high.	5	LM		
H	Provide and fix sawn timber formwork to soffit of suspended slab.	15	SM		
I	Provide and fix sawn timber formwork to sides of walls.	12	SM		
	<b><u>Finishes</u></b>				
J	Provide materials and apply 12mm rendering (1:1) to walls both internally and externally with water proofed cement trowel-lead smooth.	121	SM		
K	Provide and apply 25mm thick screed (1:3) to slab (top & bottom).	30	SM		
L	Provide and fix 600x450 medium duty manhole cover and frame.	2	NO		
M	160mm dia. Drainage pipe a.b.d.	2	LM		
N	160mm equal tee once plugged.	2	NO		
	<b>TOTAL CARRIED TO COLLECTION</b>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS.
A	Allow for testing of the whole of the foul drainage by water test to Works general specifications and satisfaction of the Engineer.	-	ITEM		
B	Allow for keeping excavations free from general waters.	-	ITEM		
<b>TOTAL CARRIED TO COLLECTION</b>					
<p data-bbox="217 716 444 747"><b><u>COLLECTION: -</u></b></p> <p data-bbox="217 749 634 781">Total brought forward from CW/01</p> <p data-bbox="217 816 634 848">Total brought forward from CW/02</p> <p data-bbox="217 884 634 915">Total brought forward from CW/03</p> <p data-bbox="217 951 711 982">Total brought forward from CW/04 above</p>					
<b>TOTAL FOR DRAINAGE, SOAK PITS AND SEPTIC TANK CARRIED TO SUMMARY OF CIVIL WORKS</b>					

CW/04



ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	<b>4. ELEVATED REINFORCED CONCRETE WATER TANK TOWER SIZE 3000 X 3000MM</b>  <u><b>ELEMENT NO. 1: SUBSTRUCTURES</b></u> <u><b>ALL PROVISIONAL</b></u> <u><b>NOTE:</b></u>  <u><b>All work measured under this element is up to and including the floor slabs but excluding the finishes thereon: -</b></u>  <u><b>SITE CLEARANCE:</b></u>				
A	Clear the site of all bushes, shrubs, undergrowth and small trees grab uproot and cart away burn all arising.	25	SM		
B	Excavate over site average 250mm deep to remove vegetable soil, reduce levels, load up wheel and deposit on site not exceeding 50m	4	CM		
C	Excavate for strip foundation trenches not exceeding 1.5m deep commencing from reduced level.	11	CM		
D	Ditto but for column bases	3	CM		
E	Extra over excavation for excavating in rock class 1	1	CM		
F	Allow for keeping excavations free from mud and all water including spring and running water by pumping paling or other approved means.	-	ITEM		
G	Allow for planking and strutting to sides of excavations.	-	ITEM		
	<b>TOTAL CARRIED TO COLLECTION</b>				

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	<b><u>DISPOSAL</u></b>				
A	Load surplus excavated material wheel and deposit onsite not exceeding 100m away.	10	CM		
	<b><u>FILLING:</u></b>				
B	Return in and ram selected excavated material around foundations.	9	CM		
	<b><u>HARDCORE</u></b>				
C	300mm approved hardcore filling including leveling consolidating and or hand packing in two layers.	3	CM		
	<b><u>BLINDING:</u></b>				
D	50mm thick layer murrum or other equal and approved blinding to the surface of hardcore; rolled smooth to receive polythene sheeting (m.s.)	9	SM		
	<b><u>INSECTICIDE TREATMENT</u></b>				
E	'Termidor' or other equal and approved chemical insecticide treatment prepared and applied according to the manufacturer's printed instructions.	9	SM		
	<b><u>REMOVAL OF TERMITES NESTS</u></b>				
F	Remove termite's nests by approved means and destroy the termites by applying 'termidor' or other equal and approved chemicals as per the manufacturers printed instructions.	-	ITEM		
	<b>TOTAL CARRIED TO COLLECTION</b>				

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	<b><u>DAMP PROOF MEMBRANE</u></b>				
A	500 gauge polythene or other equal and approved plastic sheets damp proof membrane laid over blinding (measured net – allow for laps)	9	SM		
	<b><u>IN-SITU CONCRETE WORK</u></b>				
	<b><u>MASS CONCRETE (1:4:8/38-38mm AGGREGATE)</u></b>				
B	50mm thick blinding under foundations	2	SM		
	<b><u>VIBRATED REINFORCED CONCRETE (1:2:4/20-20MM) AGGREGATE AS DESCRIBED IN: -</u></b>				
C	Strip foundations	2	CM		
D	Column /Bases	4	CM		
E	150mm thick floor slab (1:2:4)	9	SM		
	<b><u>STEEL REINFORCEMENT</u></b>				
	<b><u>SUPPLY AND FIX BAR/ROD REINFORCEMENT INCLUDING BENDING HOOKS TRYING WIRE CUTTING SPACER AND SUPPORTING ALL IN POSITION AS DESCRIBED.</u></b>				
	<b><u>HIGH TENSILE SQUARE TWISTED BARS TO B.S. 4461</u></b>				
F	16mm diameter bars	80	KG		
G.	12 mm diameter bars	120	KG		
H	10mm diameter bars	30	KG		
	<b><u>MILD STEEL ROD TO B.S. 4449</u></b>				
I	8mm diameter	25	KG		
	<b>TOTAL CARRIED TO COLLECTION</b>				

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	<b><u>GROUND FLOOR SLAB REINFORCEMENT</u></b> High tensile square twisted bars to BS 4461				
A	10mm bars (both ways)	200	KGS		
	<b><u>SAWN FORMWORK AS DESCRIBED TO:</u></b>				
B	Edges of floor slabs 75 - 150mm high	15	LM		
	<b><u>FOUNDATION WALLING</u></b>				
C	200mm thick rough chiseled natural stone walling bedded and joined in cement and sand (1:3) mortar and reinforced with and including 20 Gauge 25mm wide hoop iron in every alternate course.	16	SM		
	<b><u>PLINTH AREA FINISHES</u></b>				
D	20mm thick cement and sand (1:3) wood float render to plinth area.	8	SM		
E	Prepare and apply three coats black bituminous paint to rendered areas.	8	SM		
F	50mm thick precast concrete slab size 600mmx 600mm laid on and including 50mm thick consolidated sand bed and 100mm murrum sub-base including all necessary excavations and anti- termite treatment to sub-base.	25	SM		
	<b>TOTAL CARRIED TO COLLECTION</b>				
	<b><u>COLLECTION</u></b> Brought forward page CW/05  Brought forward page CW/06  Brought forward page CW/07  Brought down from page CW/08 above				
	<b>TOTAL FOR ELEMENT NO. 01: SUBSTRUCTURES CARRIED TO SUMMARY</b>				

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	<b>ELEMENT NO. 02</b> <b>R.C. FRAME(SUPERSTRUCTURE)</b> <b><u>In situ concrete (1:2:44/20) class 25/20 finished fair faced: including moulds necessary reinforcement bars: bent and hooked at end; hoisting; bedding joined and pointed in cement and sand (1:4) mortar as described.</u></b>				
A	250x400mm -columns	4	CM		
	<b><u>Vibrated reinforced concrete (1:2:4/20-25 – 20mm aggregates) as described in: -</u></b>				
B	Ring Beams/suspended beams	3	CM		
C	200mm suspended slab	9	SM		
	<b><u>Steel reinforcement</u></b> <b><u>Supply and Fix steel bar/rod reinforcement including bending hooks trying wire cutting spacer blocks and supporting all in position.</u></b>				
	<b><u>High Tensile square twisted bars to B.S. 4461 as described in: -</u></b>				
D	Y16 mm diameter (columns/suspend beam)	235	KGS		
E	12mm diameter (ring beam)	60	KG		
F	10mm diameter bars(slab)				
	<b><u>Mild Steel rods to B.S. 4449 as described in: -</u></b>				
G	8mm diameter(columns)	20	KG		
	<b><u>Sawn Form Works as described to: -</u></b>				
H	Side and soffits to ring beams/columns/beams	60	SM		
I	20x 40mm RHS sections box satin ladder embedded and fixed on side wall as directed	7	LM		
	<b>TOTAL FOR ELEMENT NO. 02: R. C. FRAME CARRIED TO SUMMARY</b>				

CW/09

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	<b><u>ELEMENT NO. 03</u></b> <b><u>ROOFING</u></b>				
	<b><u>All timber to be sawn cypress seasoned to an equilibrium moisture content of between 9% and 15% and to the requirement of k.s. 02771 of 1991 treated with approved wood preservative.</u></b>				
A	100 x 50mm wall plate on and including 10mm cement and sand (1:4) mortar bed secured, on reinforced concrete ring beams (m.s) by mild steel anchor bolts (m.s)	15	LM		
	<b><u>The following in nailed timber trusses including hoisting and placing 3000mm above floor slab level</u></b>				
	100x 50mm rafters.	20	LM		
B	100x 50mm tie beams	15	LM		
C	75x 50mm strut/ties.	10	LM		
D	<b><u>INDEPENDENT MEMBERS</u></b>				
	50 x 50mm purlins	25	LM		
E	<b><u>ROOF COVERING</u></b>				
F	Gauge 28/ IT4/BP760 Box Profiled sheets fixed on timber purlins (m.s)	20	SM		
	<b>TOTAL CARRIED TO COLLECTION</b>				

CW/10

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
A	Gauge 28 ridge capping to match covering  <b><u>WROT CYPRESS</u></b>	4	LM		
B	25 x 150mm fascia board fixed to end of rafters (m.s)	14	LM		
C	25 x 150mm barge board fixed to the end of battens.  <b><u>SUNDRIES</u></b>	10	LM		
D	12mm diameter x 250mm long black mild steel anchor bolt embedded in ring beam at 1200mm centers including drilling holes in timber.	8	NO		
E	100 x 100 x 6mm thick galvanized mild steel nailing cleat once bent to form angle ten times drilling; one flange nailed to foot of rafter (m.s) other nailed to top of wall plate (m.s)  <b><u>PAINTING</u></b>  <b><u>PRIME ONLY BACK OF WOOD BEFORE FIXING</u></b>	16	NO		
F	Surface 100 – 200mm girth.  <b><u>KNOT PRIME STOP AND PREPARE AND APPLY ONE UNDER COAT AND TWO FINISHING COATS OF GLOSS OIL PAINT (abd) To:</u></b>	24	LM		
G	General surface of wood 200 – 300 mm girth.	24	LM		
	<b>TOTAL CARRIED TO COLLECTION BELOW</b>  <b><u>COLLECTION</u></b>  Brought Forward from CW/10  Brought Forward from CW/11				
	<b>TOTAL FOR ELEMENT NO.03: ROOFING CARRIED TO SUMMARY</b>				

CW/11

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	<p><b><u>ELEMENT NO. 04</u></b>  <b><u>DOORS/GRILLS/HANDRAILS</u></b>  <b><u>(OPTIONAL)</u></b></p> <p><b><u>Grill proofing grilles: -</u></b>  <b><u>25x25mm Hollow section tubes of approved design</u></b></p>				
A	Door size 900x2100mm high including Angle line frame.	NIL	NO		
B	Screen wall cladding and <b>Handrails</b>	12	SM		
	<p><b><u>Iron Mongery</u></b></p> <p><b><u>Supply and fix the following iron mongery:</u></b></p>				
C	Pressed steel tower bolts (padlocking).	NIL	NO		
D	100mm pressed steel door hinges welded to angle line frame.	NIL	NO		
	<p><b><u>Prepare and apply one undercoat and 2 finishing coats of gloss oil paint to: -</u></b></p>				
E	Burglar proofing grills (doors/cladding & <b>Handrails</b> )	12	SM		
	<p><b><u>Prepare and apply one coat of calcium plum bate and 2 coats of gloss oil paint to: -</u></b></p>				
F	General surfaces of metal gutters	NIL	LM		
G	Ditto butt for down pipes	3NIL	LM		
	<p><b>TOTAL FOR ELEMENT NO.04: DOORS/GRILLS CARRIED TO SUMMARY</b></p>				

CW/12



ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	<p><b><u>ELEMENT NO. 05</u></b>  <b><u>FINISHES</u></b></p> <p><b><u>Floor Finishes</u></b>  <b><u>Cement and sand (1:4) screed as described</u></b></p>				
A	<p>40mm thick backing steel troweled smooth in water proof cement</p> <p><b><u>Finishes (Column/slab)</u></b></p> <p><b><u>Two coats gauged cement lime and sand (1:2:9) plaster steel trowelled smooth</u></b></p>	18	SM		
B	<p>25mm(minimum) thick to underside of slab, beams and columns internally &amp;externally</p> <p><b><u>Ceiling finishes</u></b></p> <p><b><u>Lining</u></b></p>	60	SM		
C	<p>12mm thick chipboard ceiling on brandering (m.s) and set in systematic V-join.</p>	16	SM		
D	<p>Extra over for trap doors size 600x 600mm</p> <p><b><u>Sawn cypress</u></b></p>	1	NO		
E	<p>75x50mm brandering plugged</p>	12	LM		
F	<p>50x50mm brandering including eves</p>	40	LM		
	<b>TOTAL CARRIED TO COLLECTION</b>				

CW/13

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS
A	<u>Wrot Cypress</u> 12x100mm curved cornice plugged	12	LM		
B	<u>Painting</u> <u>Prime only back of frame with aluminium or other equal and approved primer before fixing as described to:</u> Timber, surface not exceeding 100mm girth	12	LM		
C	<u>Knot prime stop and prepare and apply one undercoat and two finishing coats gloss oil crown paints to:</u> General surfaces of wood not exceeding 100mm girth	12	LM		
D	<u>Paint and Decoration</u> <u>Prepare and apply one undercoat and three coats crown plastic emulsion paint or other approved to:</u> Plastered columns/beams internally & externally	60	LM		
E	<u>Prepare and apply three coats of crown or other approved paint to:</u> Chipboard lining internally /eaves	16	SM		
<b>TOTAL CARRIED TO COLLECTION</b>					
<u>COLLECTION</u> Brought forward from page CW/13  Brought down from CW/14 above					
<b>TOTAL FOR ELEMENT NO. 05: FINISHES CARRIED TO SUMMARY</b>					

CW/14

ITEM	DESCRIPTION	PAGE NO	SHS
	<p><b><u>SUMMARY</u></b></p> <p><b><u>ELEVATED WATER TANK TOWER</u></b></p> <p><b><u>ELEMENT</u></b></p> <p>A SUBSTRUCTURES</p> <p>B REINFORCED CONCRETE FRAME</p> <p>C ROOFING</p> <p>D DOORS/GRILLS</p> <p>E FINISHES</p>	<p>CW/08</p> <p>CW/09</p> <p>CW/11</p> <p>CW/12</p> <p>CW/14</p>	
	<p><b>TOTAL FOR ELEVATED WATER TANK TOWER CARRIED TO SUMMARY OF CIVIL WORKS</b></p>		

CW/15

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT (KSHS)
	<b><u>5. MECHANICAL &amp; PLUMBING WORKS</u></b> <b><u>PVC PLASTIC WATER STORAGE TANKS &amp; INSTALLATION</u></b>				
A	Supply and install on water tower concrete slab 4.0M above ground level 5,000 litres PVC plastic water tanks assembled complete with medium-pressure ball valve inlet, outlet connections and drain cock and all other connections including ball valve and float. The tank shall be ' Ken tank' model or any other approved including all the necessary pipe work.	1	NO		
B	Ditto but installed on ground floor concrete slab	1	NO		
	<b><u>Booster Pump</u></b>				
C	Supply, deliver and install electrically driven twin booster pumps capable of delivering 0.8 litres/sec against a total static head of 10 metres with single phase power source. The pump to be as GRUNDFOS model or equal and approved equivalent pumps to be installed on anti-vibration mounted platform and caged in 20 x 20mm RHS sections to PM satisfaction.	1	SET		
	<b><u>Control Panel</u></b>				
D	Control panel for the above pumps with contactors, over voltage and under voltage protection relays, MCBs start/stop push buttons and indicators lights. All this shall be housed in a lockable cabinet (with integral isolator) made from SWG 18 mild steel sheet that is oven powder coated. The controls shall also include a float switch for prevention against dry running complete with its cable from the high level tank to the pumps.	1	SET		
	<b><u>Testing &amp; Commissioning</u></b>				
E	Allow for flushing out and sterilization of the cold water system as required to the satisfaction of the Engineer.	-	ITEM		
	<b>TOTAL FOR WATER TANKS &amp; PUMP INSTALLATION CARRIED TO COLLECTION</b>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT (KSHS)
	<b><u>PLUMBING INSTALLATION</u></b>				
	<b><u>Supply, deliver and install Polypropylene Random (PP-R) PN-20 Oxy-stable pipework to din 8077. pipe jointing shall be by polyfusion or use of electrical coupling.</u></b>				
	<b><u>Tenderer must allow for jointing, clippings couplings, metal/plastic threaded adaptors and sockets where required for the connection of valves, sockets sliding and fixed joints, support raceways, isolating sheathes, elastic materials expansion arms and bends, crossovers etc.</u></b>				
	<b><u>PPR pipe fixed on concrete surface</u></b>				
A.	20mm diameter PPRC pipe	75	LM		
B.	25mm –Ditto-	40	LM		
	<b><u>Extra- over PPR pipework for the following:</u></b>				
	<b><u>Bends/ Elbow</u></b>				
C.	20mm diameter PPR bend	10	NO		
D.	25mm diameter ditto	3	NO		
E.	25mm x 20mm threaded bend	1	NO		
	<b><u>Tees</u></b>				
F.	20mm equal tee	2	NO		
G.	25mm ditto	2	NO		
	<b><u>Reducers</u></b>				
H.	25mmx20mm reducer	2	NO		
I.	20mmx13mm ditto	1	NO		
	<b><u>Transition fittings</u></b>				
I.	25mmx 3/4’’ threaded/transition fittings	6	NO		
J.	20mmx13mm ditto	2	NO		
	<b><u>Unions</u></b>				
K.	20mm union	3	NO		
L.	25mm ditto	2	NO		
	<b><u>Sockets</u></b>				
M.	20mm socket	6	NO		
N.	25mm ditto	2	NO		
	<b>TOTAL CARRIED TO COLLECTION</b>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT (KSHS)
A.	<b><u>Gate valve</u></b> 20mm dia.approved medium pressure screw down full way non-rising stem wedge gate valve to BS1952, with wheel and head joints to tubing. The gate valve to be as ‘‘Pegler’’ or approved equivalent.	2	NO		
B.	25mm ditto	1	NO		
C.	<b><u>Non-return valve</u></b> 20mm dia.approved medium pressure non-return valve to BS1952.The non-return valve to be as ‘‘Pegler’’ or approved equivalent.	NO	1		
D.	25mm ditto	NO.	1		
E.	<b><u>Testing &amp; Commissioning</u></b> Allow for flushing out and sterilization of the cold-water system as required to the satisfaction of the Engineer.	-	ITEM		
F.	<b>ELECTRICAL WORKS</b> <b>SWITCHES</b> 10 Amps White moulded plate switches approved equivalent as follows: <ul style="list-style-type: none"> <li>• 1 gang 1 way</li> <li>• 2 gang 1 way</li> </ul>	3 2	NO NO		
<b>TOTAL CARRIED TO COLLECTION</b>					
<b><u>COLLECTION</u></b> Total from page CW/16  Total from page CW/17  Total from page CW/18 above					
<b>TOTAL FOR BILL NO. 04: MECHANICAL &amp; PLUMBING WORKS CARRIED TO SUMMARY</b>					

ITEM	DESCRIPTION	PAGE NO	SHS
	<p><b><u>SUMMARY</u></b></p> <p><b><u>BILL NO. 04: CIVIL WORKS</u></b></p> <p><b><u>ELEMENT</u></b></p> <p>A TOTAL FOR FOUL DRAINAGE, SEPTIC TANK &amp; SOAK PIT</p> <p>B ELAVATED R. C. WATER TANK TOWER</p> <p>C MECHANICAL &amp; PLUMBING WORKS</p>	<p>CW/04</p> <p>CW/15</p> <p>CW/18</p>	
	<p><b>TOTAL FOR BILL NO. 04: CIVIL WORKS CARRIED TO GRAND SUMMARY</b></p>		

CW/19

ITEM	DESCRIPTION	KSHS
<p><b><u>BILL NO. 05: PRIME COST AND PROVISIONAL SUMS</u></b></p>		
<p><b><u>PROVISIONAL SUMS</u></b></p>		
A.	Allow a Provisional sum of Kenya Shillings Five Hundred Thousand (Kshs.500,000.00) for contingencies.	500,000.00
B	Allow a Provisional sum of Kenya Shillings Two Hundred Thousand (Kshs.200, 000.00) for Project Documentation and procurement of works.	200,000.00
<p><b><u>PRIME COST SUMS</u></b></p>		
C	Allow a Provisional sum of Kenya Shillings One Hundred Thousand (Kshs.100,000.00) for Electrical Installation works. <b>(Conduits and accessories only)</b>	250,000.00
<p><b>TOTAL FOR BILL NO. 05: PRIME COST AND PROVISIONAL SUMS CARRIED TO GRAND SUMMARY</b></p>		<p><b>950,000.00</b></p>



**BILLS OF QUANTITIES FOR THE PROPOSED CONSTRUCTION OF NG- CDF OFFICE BLOCK AT RHAMU TOWN IN MANDERA NORTH CONSTITUENCY**

**GRAND SUMMARY**

ITEM	DESCRIPTION	For official use only		For contractor 's use only	
		Kshs	Cts	Kshs	Cts
	<b><u>GRAND SUMMARY</u></b>				
A	Bill No. 01: Particular & General Preliminaries.				
B	Bill No. 02: NG-CDF Office Block				
C					
D	Bill No. 03: 2No. Ablution blocks				
E	Bill No. 04: Civil & related works	<b>950,000</b>	<b>00</b>	<b>950,000</b>	<b>00</b>
	Bill No. 05: PC & Provisional sums.				
	<b>SUB-TOTAL</b>				
	<b>ADD 16% VAT</b>				
	<b>TOTAL CARRIED TO FORM OF TENDER</b>				

AMOUNT IN WORDS: .....

.....

Contractor: .....

VAT Registration No: .....

Pin No: .....

Address: .....

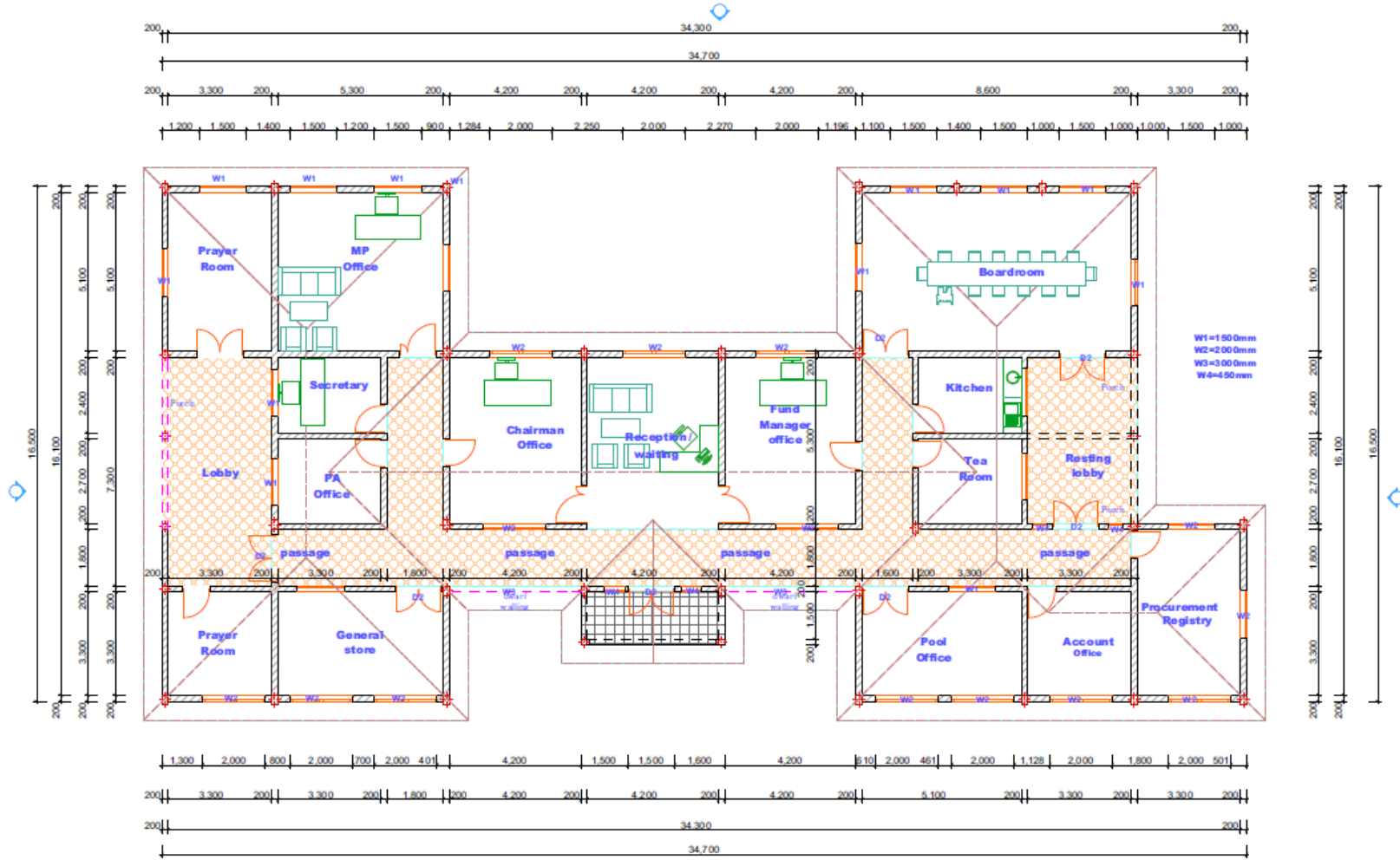
Signature: ..... Date: .....

Witness: .....

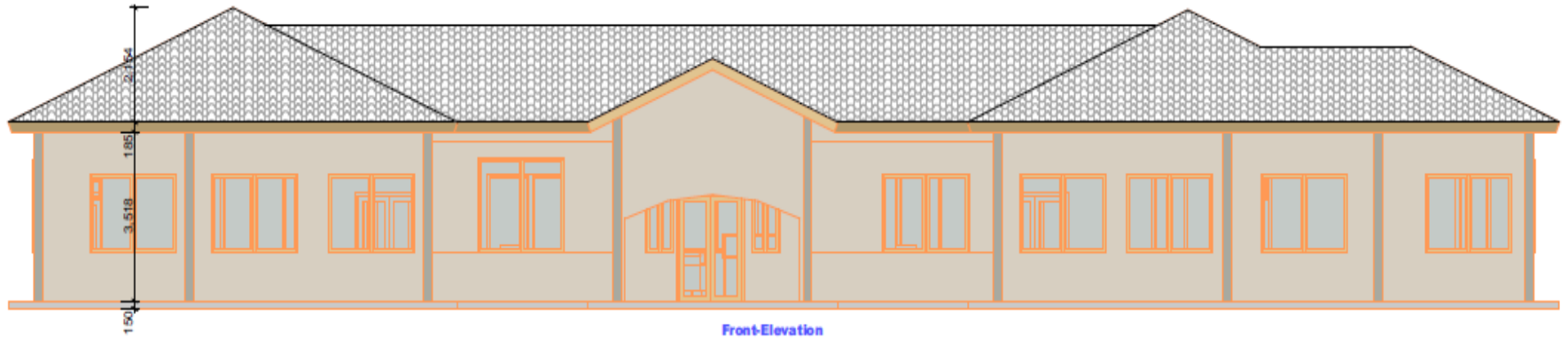
Address: .....

Signature: ..... Date: .....

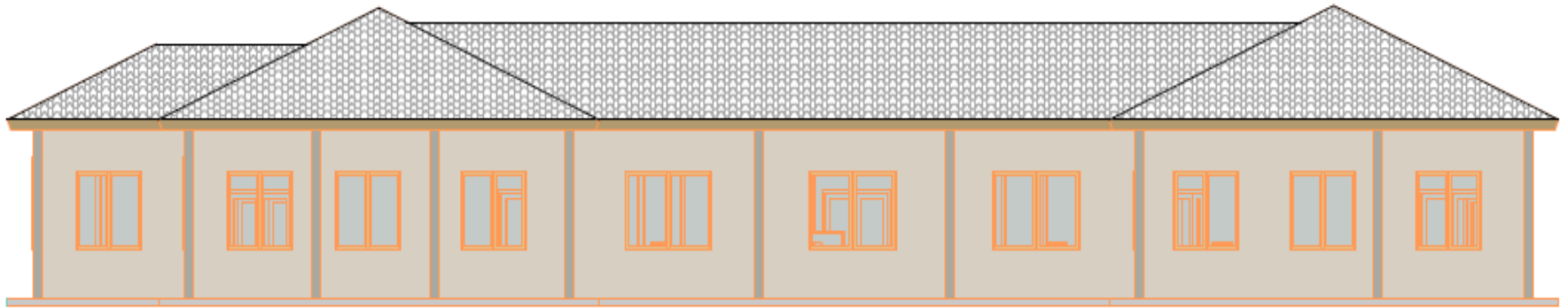
GS/01



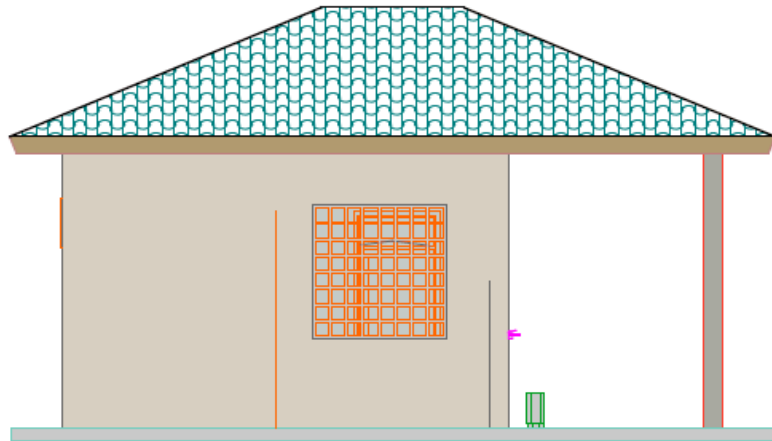
**GROUND-FLOOR-PLAN  
PROPOSED-NG-CDF-OFFICE-BLOCK**



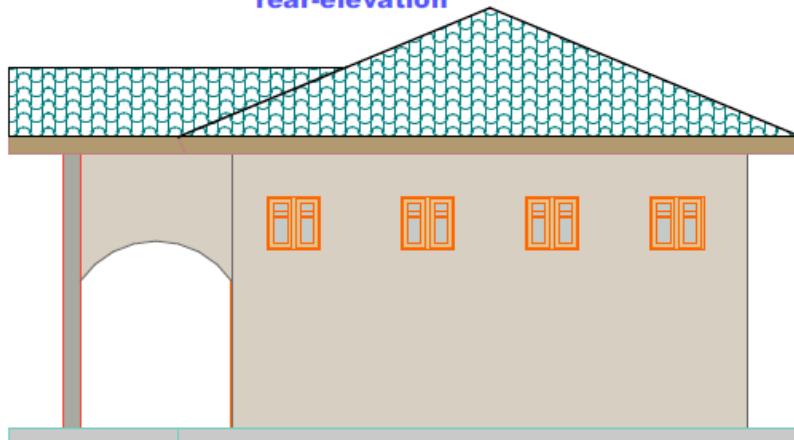
Front-Elevation



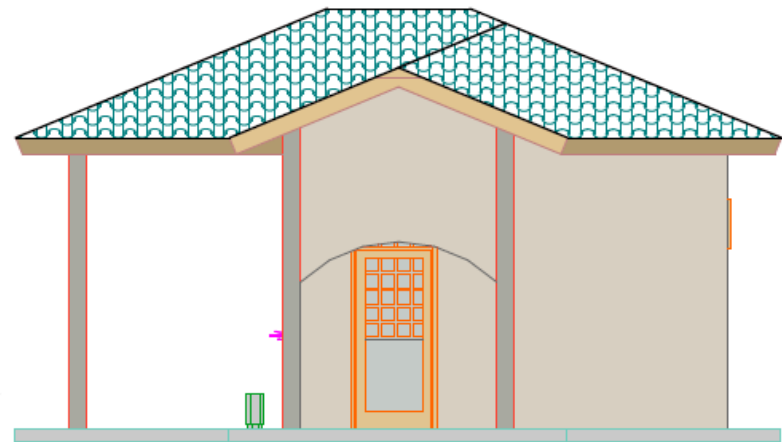
BACK-Elevation



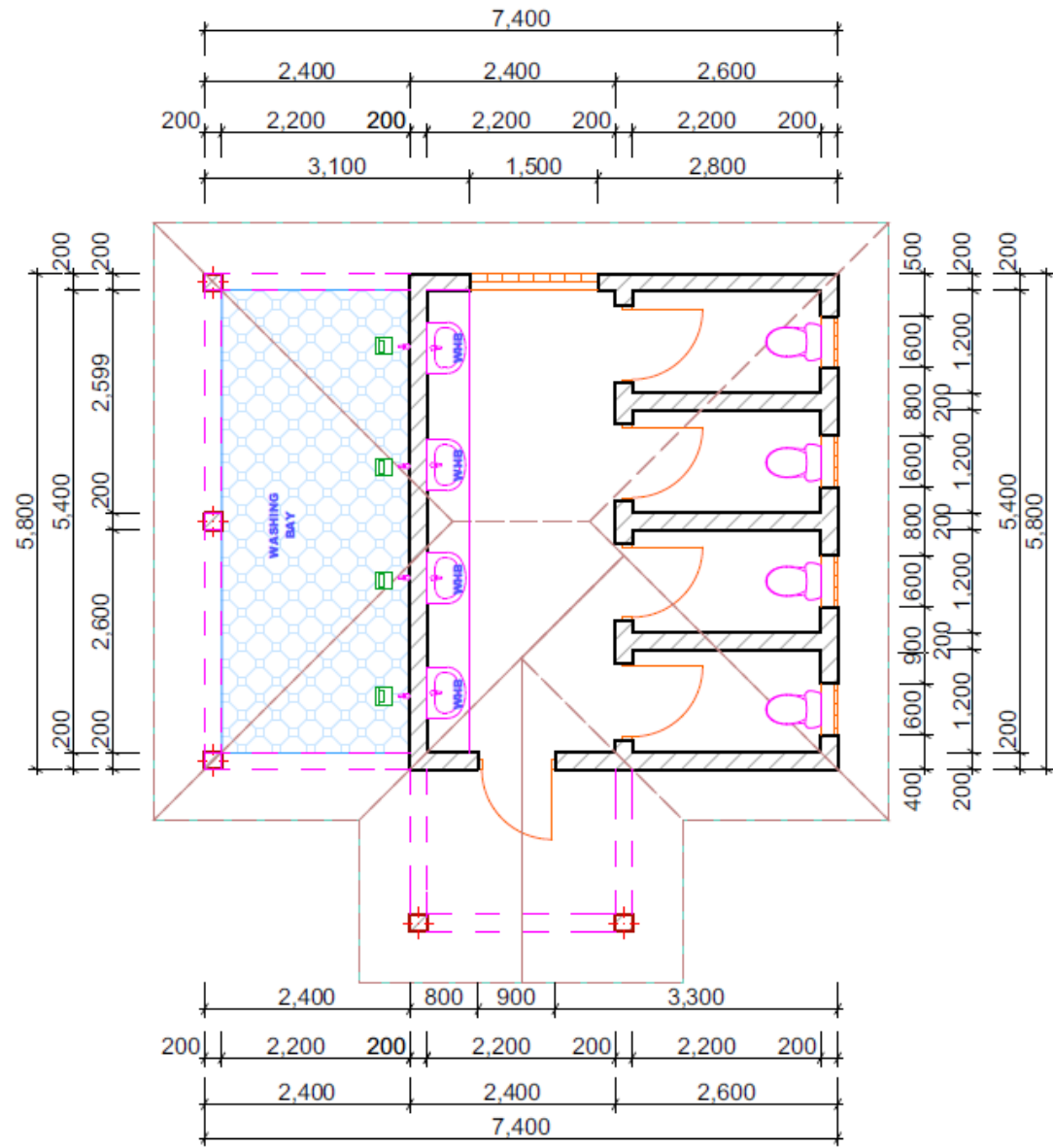
rear-elevation



rear-elevation



front-elevation



**GROUND FLOOR PLAN  
PROPOSED-4NO.DOOR-ABLUTION-BLOCK**